TAPR APRS Special Interest Group Archive, January 1996 through December 1996

January 1996 through December 1996

TAPR's discussion forum for the Automatic Packet Reporting System (APRS), including software, hardware, GPS, mapping, networking, operations, and related technical topics.

This volume contains 10 original monthly files and 8,944 messages, arranged chronologically. The PDF is a readable access copy: MIME transfer encodings are decoded, HTML bodies are converted to plain text, and non-text attachments are represented by descriptive notes. The raw source text is supplied separately with the Internet Archive item.

Month	Messages	Original source file
1996-01	838	aprssig.9601
1996-02	694	aprssig.9602
1996-03	911	aprssig.9603
1996-06	1,121	aprssig.9606
1996-07	893	aprssig.9607
1996-08	792	aprssig.9608
1996-09	993	aprssig.9609
1996-10	788	aprssig.9610
1996-11	813	aprssig.9611
1996-12	1,101	aprssig.9612

January 1996

Original source file: aprssig.9601
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-01/TAPR-APRS_1996-01.txt

1. More Calif maps

From: KSwaggart@aol.com
Date: Mon, 1 Jan 1996 01:14:27 -0500
To: aprssig@tapr.org
Message-ID: <960101011426_81841959@mail06.mail.aol.com>
Rendered body type: text/plain

```
CAMAPS06.zip and CAMAP5_6.zip have been uploaded to both tapr.org and
muncey.com.  CAMAPS5_6.zip contains only the new maps created since CAMAPS05.


At TAPR.ORG they are in the tapr.org:/tapr/SIG/aprssig/upload  directory
(since I couldn't upload to the upload/pcmaps directory).

At MUNCEY.COM they are in the muncey.com:/public/aprs/calmaps directory.

The new maps include:

KC6UTH's Ridgecrest area and detail city maps.
Tulare, Visalia, Exeter
Tassajara Valley
Alta Sierra
Redding, Red Bluff, Anderson, Shingletown
Monterey, Carmel, Pacific Grove, Salinas
Petaluma, Martinez, Pleasant Hill,
Mohave Desert (Amboy), Yermo, Barstow


Copy the .zip into your top level APRS directory and use PKUNZIP -dn
<filename> to unzip the files. A new MAPLIST.CA is included.

If you have created any more California maps that should be included in the
next CAMAPSxx series, please forward them to me.

TNX ES 73, Ken, W7KKE
kswaggart @ aol.com
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2. Re: [APRSSIG:5609] APRS for Windows

From: schiers@ibm.net (hasan schiers)
Date: Sun, 31 Dec 95 23:28:40 EST
To: aprssig@tapr.org
Message-ID: <199601011448.OAA24857@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Sun, 31 Dec 1995 06:50:24 -0600 (CST) you wrote:

>
>Has the thought of writing APRS for Windows been discussed?  I beleive it
>would increase the usefulness of APRS in that the user can resize or move a
>window over a large area map to zoom or look somewhere else in the net...
>

It is in beta development right now. Release scheduled for Dayton.
If you are running Win 3.1x you will need Win32s 32 bit subsystem
add on to run it. Win NT and 95 do not require it.

The brothers Sproul are the developers, of MacAPRS fame.

There is a Web page devoted to development. I have some instructions
for getting and installing Win32s if you need it. 73,


robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam
```

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3. APRS for Windows

From: HooLooVoo1@aol.com
Date: Mon, 1 Jan 1996 09:56:15 -0500
To: aprssig@tapr.org
Message-ID: <960101095614_81917971@mail02.mail.aol.com>
Rendered body type: text/plain

Heh Heh!

Thanx for the info on WinAPRS. I just read a message containing the line
"you can really tell when people haven't checked in for a while" and just to
defend myself I have only been
on APRSSIG for a week and have been only reading to see if it was mentioned
and when I didn't see it, I asked. Thanx for all the replies I look forward
to getting my hands on a copy!

73's de David, N3NGB

N3NGB@WB3FFV.MD.USA.NOAM
HOOLOOVOO1@AOL.COM

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4. Re: [APRSSIG:5571] The results of Wx investigation are in.

From: ndavis@spider.lloyd.com (Norman Davis)
Date: Mon, 01 Jan 1996 07:24:07 +0000
To: aprssig@tapr.org
Message-ID: <m0tWmCD-000TrUC@spider.lloyd.com>
Rendered body type: text/plain

>I'll tell you up front it is confusing, and I am dissapointed but the
>law is the law and here it is.

I know the FCC is not the FAA, but there is provisions in the FAA for waver
of regs and I beleave there is probably the same in the FCC. It would be
worth checking it out.
Norman Davis WB6SHI
Email ndavis@spider.lloyd.com
      72057,1722@compuserve.com
      I love Hot cars,Planes and
      Trains. Basicly anything that moves.

---

5. Re: [APRSSIG:5617] MFJ-8621 Crystals

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 01 Jan 1996 14:51:07 -0500
To: aprssig@tapr.org
Message-ID: <199601011952.LAA25554@ix4.ix.netcom.com>
Rendered body type: text/plain

At 11:54 PM 12/31/95 -0600, you wrote:
>
>To be honest, I don't think MFJ *cares* about the performance of the
>8621 on 145.790...

I plan to give them a call Tuesday. If you have frequency counter, put the
probe on pin 3 of the Receiver IC & a crystal for 145.79 receive should read
135.090 Mhz. I could get close, but never really get the crystal on frequency.
I suspect they have a bad batch of crystals, since the second one I received
from them was exactly the same, closest I could get to actual receive freqency
was 145.785 Mhz. It works there, but if you have an acurate frequency
counter, close doesn't satisfy me, and I know I'm missing some weak packets
with it off
that much. I plan to ask Jim Sheridan at MFJ to actually put one of the
crystals they are shipping for 145.79, into an in house receiver and check
it before sending me another one. Let anyone who's interested what I find out.

```
========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
========================================================================
```

---

6. HF gates

From: William Nolle <ke4eer@ro.com>
Date: Mon, 01 Jan 1996 14:05:42 -0800
To: APRSSIG@tapr.org
Message-ID: <30E85AB6.2084@ro.com>
Rendered body type: text/plain

Boy here we go again, we have the HF Gate abuser back in our area
W7LUS. This morning in 1 hours time there was messages from HF to VHF
totalling 14,123K, tell me this is not abusing the following:

GATE was designed for HF Boats & Mobiles to relay their movements back
home onto VHF. The NET will choke if VHF'ers use it.

Well i have news for them whenever i see a gate open now i will enter

WIDE,GATE,GATE,WIDE in my path. I have keyboarded with several VE3 stations on HF, what's good for one is good for all i guess. I unregistered from the sig but couldn't pass up posting this.

Bill KE4EER

7. Can K-Net Nodes support multiple aliases?

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 1 Jan 1996 15:26:08 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAD85D.7DAC1E20@lub22.onramp.net>
Rendered body type: text/plain

I've noticed a couple of new nodes locally that are now running K-Net Node firmware. I understand it is NETROM compatible firmware for Kantronics TNCs. I've asked support@kantronics.com for more info but haven't yet heard any response (probably because of the holidays). But one of my questions has to do with whether K-Net supports multiple aliases which would allow it to be used as a WIDE-RELAY digi. (That keeps it on-topic, right?)

Larry Griffin <largriff@onramp.net>
!3337.21N/10149.44W-

8. Re: [APRSSIG:5603] MFJ-8621 Crystals

From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Date: Mon, 1 Jan 1996 18:34:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9601011820.A18415-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Hello, William... I've been having the same problem with trying to tweek a higher frequency receive crystal. After sending my 8621 back twice, it seems that I've uncovered a problem with their method of putting the reciver on frequency. For the benefit of the SIG, the present procedure is to put the transmitter on frequency. This is easily done with a frequency counter. After the transmitter is on frequency, a VOM is connected to a Test Point, and then, while transmitting, you adjust the receive crystal slug until 2.5 VDC is achieved. I, too, had problems with the slug falling out the top.

The MFJ Tech Support people are aware of this problems, and will be changing their manual. I have a Memo from them about this problem, but have been away and have not had time to read it thoroughly. If further interested, I can try to provide more information.

73, and Happy New Year to all!
Terry WB5JFM

Terry Taylor
a010717t@bcfreenet.seflin.lib.fl.us

On Sat, 30 Dec 1995, William Richarz wrote:

> Anyone out there have problems getting MFJ-8621 receive xtals for 145.79?
> This is the second one I have received from MFJ, and neither will adjust to
> the correct frequency, close but no cigar. Best I can do with the slug
> tuned all-the-way-out, is about 145.785 & I copy strong 145.77 stations, so
> guess the radio is broad as a barndoor too. Just wondering if MFJ has a bad
> batch of xtals on 145.79 receive? MFJ advises connecting Freq. Counter to
> pin 3 of the
> receiver chip and adjusting for 135.090 Mhz. for accurate tuning, but best I
> can do is 135.0867, a bit low. I would think I should do better than this.
>
> Thanks for any replys.
>
> ==
> Bill Richarz <WA4VAF> | Internet: wricharz@ix.netcom.com
> 10035 Little Creek Rd. | Packet : WA4VAF@W4BFB.CLT.NC.USA.NA
> Charlotte, NC 28227 | Phone   : (704) 545-9368
> ==
>
>

9. Re: [APRSSIG:5617] MFJ-8621 Crystals

From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Date: Mon, 1 Jan 1996 18:44:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9601011829.B18415-0100000@bcfreenet.seflin.lib.fl.us>

Rendered body type: text/plain

On Sun, 31 Dec 1995 jeff.brenton@espi.com wrote:

>
> William Richarz asked if anyone else had problems tuning the MFJ-supplied crystals for the MFJ-8621. I did - they were HORRID, but I *think* I have them close. It was impossible to tune the set (I tried two) with the book method, and I haven't had access to a service monitor yet to check it, but I used the "ear" method to get it as close as I could.
>
> To be honest, I don't think MFJ *cares* about the performance of the 8621 on 145.790...
>
>

In defense of MFJ, my dealings with them over the problems I've had with my 8621 in getting a higher receive frequency working have been exemplary. All of the people I've contacted have bent over backwards to help, including the radio designer, Rick Littlefield. They *DO CARE* and will do their best to make any customer happy.

Terry Taylor, WB5JFM
a010717t@bcfreenet.seflin.lib.fl.us

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10. Fwd: APRS Experiment

From: 0004818186@mcimail.com Mon Jan 01 18:31:31 1996
Date: Mon, 1 Jan 1996 19:30:54 -0500
To: aprssig@tapr.org
Message-ID: <960101193052_103856727@mail06.mail.aol.com>
Rendered body type: text/plain

If anyone know anyone on the other side of the pond, pls let me know. I'll forward the message.

I have EMAILED several French Hams and am re-writing the aprs manual in French. I hope to rewrite it in Spanish in about 6 months.

Seems as though there was some PACKET mail asking for help on aprs from France, which I responded to.
73 Mike
KD4EMI@AOL.COM

Forwarded message:
From: 0004818186@mcimail.com (Miami Network)
To: KD4EMI@aol.com (KD4EMI)
Date: 96-01-01 16:00:45 EST

Carl may be flying a plane to Poland. Can you find out from Bob if he will share with us if there are any registered users in Europe?

This could be a great HF Experiment for APRS.   Also do you know what VHF frequency is used outside of the United States?

73, Seymour

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11. APRtrak 0.5 and Mir

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 1 Jan 1996 19:57:17 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad0e4054ed1a@[199.1.11.132]>
Rendered body type: text/plain

Looks like Ron W5RKN is active on Mir using APRtrak.
I got this on my GPS tracker/Computer in my car !!

```
         1/1/96 19:30 CST
------------------------------------
R0MIR>N9UsQD:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!

W5RKN>EM10DI,R0MIR*:APRtrak 0.5 w5rkn@amsat.org
R0MIR>KB5JRA:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!
W5RKN>EM10DI,R0MIR*:APRtrak 0.5 w5rkn@amsat.org
```

```
R0MIR>CQ:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!
W5RKN>EM10DI,R0MIR*:APRtrak 0.5 w5rkn@amsat.org

R0MIR>CQ:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!
R0MIR>N0PDD-13:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!
R0MIR>WA4FWH:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!

WA2GSY>CQ,R0MIR*:Hi tim..happy new year
N8DEU>CQ#,R0MIR*:Happy New Year Joe...m
WA2GSY>CQ,R0MIR*:Am back on Euail agin

R0MIR>CQ:HAPPY NEW YEAR 1996 FROM SPACE STATION MIR !!!
N4ZQ>EL87UX,R0MIR*: Keith sfton@scfn.thpl.lib.fl.us
----------------------------------------------
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

12. Re: [APRSSIG:5612] Where is APRS74f.ZIP ??

From: ko4qc@ix.netcom.com (Joel Gamble)
Date: Mon, 1 Jan 1996 20:11:20 -0800
To: aprssig@tapr.org
Message-ID: <199601020411.UAA10448@ix6.ix.netcom.com>
Rendered body type: text/plain

```
You wrote:
>
>I have seen a few people runing APRS v7.4f and I cdan't find it at
all. Looked
>on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is
someone
>pulling my leg with the beacon line of 7.4f On-Line ???
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>  If you find it ,on the internet,let me know...
                                    Ko4qC
```

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13. Re: [APRSSIG:5624] Can K-Net Nodes support multiple aliases?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jan 1996 00:26:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960102002310.20440A-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 1 Jan 1996, Larry Griffin wrote:

> I've noticed a couple of new nodes locally that are now running K-Net Node
> firmware.   But one of my questions has
> to do with whether K-Net supports multiple aliases which would allow it to
> be used as a WIDE-RELAY digi.  (That keeps it on-topic, right?)

WB4APR REPLY COMMENT:

Yes, set the MYNode to RELAY and the MYAlias to WIDE
```

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14. Re: [APRSSIG:5626] Re: MFJ-8621 Crystals

From: William Richarz <wricharz@ix.netcom.com>
Date: Tue, 02 Jan 1996 01:03:16 -0500
To: aprssig@tapr.org
Message-ID: <199601020603.WAA29812@ix3.ix.netcom.com>
Rendered body type: text/plain

```
At 05:57 PM 1/1/96 -0600, you wrote:
>In defense of MFJ, my dealings with them over the problems I've had with
>my 8621 in getting a higher receive frequency working have been
>exemplary.  All of the people I've contacted have bent over backwards to
>help, including the radio designer, Rick Littlefield.  They *DO CARE* and
>will do their best to make any customer happy.
>
>
>Terry Taylor, WB5JFM
```

>a010717t@bcfreenet.seflin.lib.fl.us

Hello Terry,

Just wondering what they did for you to get your radio on frequency? They
sent me another crystal, but is just like the first one, too low in
frequency. Let you know how they try to solve my problem again...

Thanks, 73 de Bill WA4VAF

```
========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
========================================================================
```

15. Re: [APRSSIG:5609] APRS for Windows

From: sproul@ap.org (Mark Sproul)
Date: Tue, 2 Jan 1996 10:02:00 -0500
To: aprssig@tapr.org
Message-ID: <v02130508ad0ef8251b19@[165.1.27.20]>
Rendered body type: text/plain

>Has the thought of writing APRS for Windows been discussed? I beleive it
>would increase the usefulness of APRS in that the user can resize or move a
>window over a large area map to zoom or look somewhere else in the net...
>
>If you've ever played SimCity for Windows you'll understand where I'm going
>with this. Right now APRS works fine under windows, but doesn't take
>advantage of the Windows API and sometimes locks up (on Win 3.1, but I
>haven't tried it for long enuf on Win 95 to come to a conclusion) and doesn't
>run under multitasking as well as I would like to see it.
>
>73's de David
>
>N3NGB@WB3FFV.MD.USA.NOAM
>HOOLOOVOO1@AOL.COM

David,

Well I think you have received tons of replys now about WinAPRS, now you
are getting one from the author directly.

Check out

http://www-ns.rutgers.edu/~ksproul/APRS/

for documentation, announcments, etc.

We are expecting to make a public release of beta at the end of January. A
limited beta was released Dec 22 as prommised. Check out the WinAPRS press
release for the announcment that we made back in September, it is also in
the January QST, page 95.

WinAPRS is a port of MacAPRS, it is the same source as MacAPRS and has
NOTHING to do with the APRS code. DOS-APRS is written in QuickBasic,
MacAPRS/WinAPRS is entirely in C.

WinAPRS is written on a Mac, Compiled on a Mac, and debugged on a Mac
(controlling the PC were the actual code runs). It is ONE set of source
code with a few source files specific for each platform.

Mark Sproul
KB2ICI

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

16. hf abuse

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 02 Jan 1996 09:04:28 -0600

To: aprssig@tapr.org
Message-ID: <2.2.32.19960102150428.006ec8cc@144.188.134.33>
Rendered body type: text/plain

>Boy here we go again, we have the HF Gate abuser back in our area
>W7LUS. This morning in 1 hours time there was messages from HF to VHF
>totalling 14,123K, tell me this is not abusing the following:

There has been a rash of "abuse" in the chicago area in the last few weeks. It seems as though some new users use RELAY,GATE or RELAY,WIDE,GATE as their path. In the populated area that gets them several repeats, which all then go to hf. There is an attempt lately to discourage the use of RELAY and WIDE in your path at all. Some people have even changed their ALIAS to something other than RELAY so as to try to dampen the effect. The trouble is that the new user does not know how to determine a good path, and thus resorts to RELAY,WIDE,GATE. After all, if you see your digis several times that means you are getting out good, right? I suspect that this issue will continue for a while.

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)

---

17. Re: [APRSSIG:5633] Newuser unproto instructions

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 2 Jan 1996 08:54:09 -0800
To: aprssig@tapr.org
Message-ID: <199601021654.IAA17555@ix7.ix.netcom.com>
Rendered body type: text/plain

You wrote:

>There has been a rash of "abuse" in the chicago area in the last few weeks.
>It seems as though some new users use RELAY,GATE or RELAY,WIDE,GATE as their
>path. In the populated area that gets them several repeats, which all then
>go to hf. There is an attempt lately to discourage the use of RELAY and WIDE
>in your path at all. Some people have even changed their ALIAS to something
>other than RELAY so as to try to dampen the effect. The trouble is that the
>new user does not know how to determine a good path, and thus resorts to
>RELAY,WIDE,GATE. After all, if you see your digis several times that means
>you are getting out good, right? I suspect that this issue will continue for
>a while.
>
>Paul, WD9ABE
>Maybe closer to GLNTC than anybody (5 miles)

Paul,

I presented an idea to Bob, WB4APR a while back that I have yet to post to the SIG. Now seems like a good time!

I would also like to see users avoid the generic WIDE and RELAY callsigns in areas with mature APRS networks, especially fixed stations. The fact is that one can do an equal or better job of propagating their position data over a wide area by specifiying discreet callsigns insead of the generics.

So, how do we educate the new (and experienced) APRS users so they'll abandon the generic callsigns? Also, how do we inform transient APRS users about digipeater facilities that exist in a given area so they too can quickly learn the topography of the network and specify a more effective unproto path?

One idea that might work would be to have each WIDE digi-operator place a message in Message #1 of the WIDE's TNC PBBS that lists some basic information about how a new or transient APRS user might best configure their UNPROTO path for the area. This information would include the following:

1. Information about this WIDE. Where is it, and what is its service area?

2. Information about other WIDES in the area. Where are they located, and what are their service areas?

3. Reliable digipaths out of the area into other areas. In my area one might include the callsigns that will effectively propagate a packet all the way to New York City and beyond to the north, and southwestern Virginia to the south.

If this became a standard practice, it could be mentioned in the documentation, and new or transient APRS users would simply leave APRS on for a few minutes until they saw a WIDE or two pop up on the screen, then, connect to it and read Message #1. They would receive the necessary information to specify a workable UNPROTO path for their location and purpose.

Jack

18. VHF Aprs Activity in Western Washington

From: jeffmc@airdata.com
Date: Tue, 2 Jan 1996 09:13:59 -0800
To: <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=ATTWS%l=MLNTSRV2960102091359HZ004C00@mlntsrv2.nwest.airdata.com>
Rendered body type: text/plain

I was wondering if there are any APRS folks running in the Seattle area on 145.79. I live in the Redmond area and do not see any activity on 145.79, other than a BBS and a node switch. (And it eats a lot of bandwidth).

Has anyone actually had success around here?

Thanks,

Jeff -- KD1IT /7

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---------------------------------------------------------------------------
---------------------------
Jeff McLeman                         Internet: jeff.mcleman@airdata.com
AT&T Wireless Services
Wireless Data Division            AT&T Mail: attmail!jeffmc
Kirkland, Wa.
```

"Wireless in Seattle!"

Checkout http://www.airdata.com/ for more on Wireless Data

19. Re: [APRSSIG:5548] Another KPC-3 problem

From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Tue, 2 Jan 1996 09:29:23 -0800
To: aprssig@tapr.org
Message-ID: <0e96cb90@ccgate.berlex.com>
Rendered body type: text/plain

Sorry for the delay in reply, but I have been on holiday for 10 days :-) and now I'm back :-(.

This actually occurred to me about 3 months ago. The "continuous key" occurs between the last beacon time of the UTC day until the first of the next "day" and only occurs when one uses the START XX:XX:XX EVERY XX:XX:XX. If you exclude the EVERY option it does not occur.

Now, Kantronics admits that early releases of 6.0 have a bug and they are willing to replace (at least they did with me) the EROM at no charge. It appears that about the first 3 months of production of the 6.0 chip has the bug. When I got the replacement chip, installed it, set up the TNC and started it out it worked (and continues to work) like a charm.

BTW my set-up is a KPC-3 interfaced with a Garmin GPS-45.

73, de Sam, KO6JR
Packet: KO6JR@KA6FUB.#NOCA.CA.USA.NOAM
Internet: Sam_Lipson@Berlex.Com
!3759.23N/12205.13WM

____

Subject: [APRSSIG:5548] Another KPC-3 problem
From: aprssig@tapr.org at Internet
Date: 12/27/95 15:53

> Last night I found another problem with the KPC-3 and was woundering if anyone else has seen it. I have been trying to call Kantronics but they are not answering their phone.
>
> I am using the TCN is GPS mode tied to a garman45 gps.
>
> The problem: The TNC started sending the same LT line continuously. In doesn't drop TX - it just sends the same line over and over. I saw what had happened and turned it off prior to reaching the watchdog time. I also know the signal was good because when I turned off the TNC I could hear other stations repeating it.

Has anyone else seen this ?

Bill

--

```
    Bill Northup               INTERNET:       northup@sw.stratus.com
    Stratus Computer Inc.      Amateur Radio:  N1QPR
    55 Fairbanks Boulevard                     QRP-NE #307
    Marlboro, MA  01752                  NorCal #1027
```

---

20. Re: Newuser unproto instructions

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Tue, 02 Jan 96 12:51:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <30E97F41@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

OK, time to ask a dumb question....
My understanding of GATE is that it links *from* HF *to* VHF. It DOES NOT
link from VHF to HF.

If that is correct, then:
  1) 'GATE' should **never** appear in the unproto path of a VHF station,
and
  2) and 'GATE' station should *not* be gatewaying VHF to HF.

If that is NOT correct, would someone explain the function of GATE in the
unproto path of a VHF station to me please ?

I am *not* a packet user, other than APRS, and my interest there is pretty
much limited to WX for the "local" area here in Minneapolis/St. Paul for the
upcoming severe weather season. Currently, not many users, but there are a
couple of very dedicated users, and three WX stations (including my new
U2000).

(Do/can GATEs operate VHF to VHF? If so, shouldn't they be HGATE or VGATE
(or UGATE) ?) If GATEs are renamed HGATE and V{U}GATE, does that solve any
problems with improving area coverage ? Hopefully, we will run into that
problem here w/WX in a couple of years. The area of desired coverage to the
SW - W of the metro area is out of normal FM range. Linking several local
areas w/VGATE or UGATE would appear to solve the problem. Am I re-inventing
the wheel ?)

Thanks for the help.
73, Donn
WA2VOI EN34ja

---

21. Re: [APRSSIG:5635] VHF Aprs Activity in Western Washington

From: DDOBBINS@aol.com
Date: Tue, 2 Jan 1996 13:16:45 -0500
To: aprssig@tapr.org
Message-ID: <960102131645_29657528@mail02.mail.aol.com>
Rendered body type: text/plain

Aloha Jeff. I have direct experience w/APRS in WWA. I'm in the Navy,
stationed in Hawaii, and spent July-August in the Bangor/Bremerton area. I
put my portable station up on 145.79, and listened to the BBS you mentioned,
without hearing any APRS activity for over a week. Finally one day I noticed
two CANUKs in Vancouver area up, and I helped them get up over the air. Well,
that apparently pissed off several BBS users (this was all late at night) and
they complained so the digi coordinator shut off the digipeat function. It's
probably still off. They could not understand why I couldn't connect thru the
mountaintop, then into the users in Canada. APRS is unconnected protocol.
Could not get this to sink in. Anyhow, I did a Bremerton map and alot of APRS
track histories over to Seattle. Worked with a Ham in Puyallup and did a map
for ?7QQQ. Also did Spokane county and city maps. I used the wasound and
wasoundn maps, but noticed they need some work. These were uncorrected maps
derived from the USGS 1:2M cdrom. Anyhow, I'm retiring from the Navy soon and
may move to Seattle, and if that happens I plan on putting a digi up on
145.79, to hell with those others on this "experimental" frequency. Boy they
really got me worked up. Well, enuf for now. Good luck. I was not impressed
with the Hams of Seattle. At least with the ones I talked w/on packet and had
a phone call with. Names/callsigns forgotten. Good luck, Dave.

---

22. Re: [APRSSIG:5637] Re: Newuser unproto instructions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jan 1996 16:34:57 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960102163101.28681C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 2 Jan 1996, Baker, Donn B RV wrote:

> OK, time to ask a dumb question....
> My understanding of GATE is that it links *from* HF *to* VHF. It DOES NOT
> link from VHF to HF.   If that is correct, then:
>   1) 'GATE' should **never** appear in the unproto path of a VHF station,
>   2) and 'GATE' station should *not* be gatewaying VHF to HF.

APR REPLY: Thats the way I see it... Although I would phrase it
rarely instead of **never**

> (Do/can GATEs operate VHF to VHF? If so, shouldn't they be HGATE or VGATE
> (or UGATE) ?)

APR REPLY: For now, all dual port TNC's only use one gateway call for
both directions. I agree, though, that if anyone sets up a cross band
VHF/UHF gateway, they should use VGATE or UGATE... NEVER use GATE for
that application.

---

23. Re: [APRSSIG:5633] hf abuse

From: KD4EMI@aol.com
Date: Tue, 2 Jan 1996 19:13:05 -0500
To: aprssig@tapr.org
Message-ID: <960102191303_104765688@mail02.mail.aol.com>
Rendered body type: text/plain

IF I were operating a gate, and the author of the program said that only
mobiles should beacon on gate, then I'd budlist the offender and just
fix the problem right then and there....

AH HA there lies a problem and I 'd like to hear APR comments too..

Lets say we want to establish a 40 meter net for statewide activity.
(or 80M net)

Lets say, we wanted to SEE those stations all over the state...
Then to do so, they have to unproto into a gate. Follow me close now..
If there is 1 guy on 30 meters (ALIAS GATE) and another on 40 or 80
meters (ALSO ALIAS GATE) then they will both digi the offenders
gate beacon.
Here is my thought...
Why not establish an alternate alias for the local HF gateways,
like FLGATE or something like that (Bob can deciede)
Then this allows us to see ALL OF THE local stations throughout the state.
AND keeps us off the 30 DX gateways.
I personally would like to see (in FLORIDA) a 40 or 80 meter HF
gateway stations (espcially 40M). Then we can see all the guys all over the
state..maybe even the mobiles...
Also, came up with another idea for the stamp computer:
When Im driving if Im going fast, id like to Beacon more frequently.
If Im at a light, I dont need to tie up the freq with beacons.
I suggest a stamp computer to read velocity, and change the beacon
timing as needed. Also the stamp could detect if the beacons were not
digi'd (If your not using a computer in the car) and alert the driver.

Comments??
MIke KD4EMI@AOL.COM
(kicking the beesnest again !)

---

24. Re: [APRSSIG:5639] Re: Newuser unproto instructions

From: ke4eer@ro.com (William Nolle)
Date: Tue, 02 Jan 1996 18:12:23
To: aprssig@tapr.org
Message-ID: <199601030022.SAA05531@sh1.ro.com>
Rendered body type: text/plain

Not true around our area, why should GATE NEVER apear in a VHF unproto
path. Is it simply because HF'ers say so. If this is the case then i suggest to
them that they should be responsible enough to only use the GATE for what
it was designed for (THEY ARE NOT DOING THAT). Therefore it is only fair to
VHF users to add Gate to their path. This last Sunday morning there where
several HF gate users in the area and all they where doing (As Always) using
HF<-> VHF to send messages back and forth (Including like always) using the
bulletin function of APRS to do so. As far as i could see the VHF APRS came
just about to a standstill. The NAG message in APRS that comes up when a

VHF station adds GATE within his path clearly states what GATE was designed for, so why is there not a message going the other way. I know HF'ers are not suppose to be able to bring VHF to a standstill as the other way around, but believe me they can!. So far (And this may be drastic) the only thing that works, at least for me is to add gate tp my path and keyboard with some HF'ers and also to send some warplanes at the offending station. Sure would be great if Bob added some war material to that portion of APRS Hi Hi. It worked the last time when i send several jets at his station and when they got within striking distance then set his QTH on fire (I was realy just playing) but he took the hint and didn't see him for month's (But he's back again).

And yes i'm back on the sig for those that don't like it i have to say Tuff you know what!. And for those that have send me many, many supporting messages that i should get back on here. I THANK YOU FOR THE SUPPORT.
I also have on hand several fireproof suites so flame away, i can stand the heat, but have a right to cut out of here when warrented Hi.

Bill KE4EER
ke4eer@ro.com

```
>>   1) 'GATE' should **never** appear in the unproto path of a VHF station,
>>   2) and 'GATE' station should *not* be gatewaying VHF to HF.
>
>APR REPLY:  Thats the way I see it...  Although I would phrase it
>**rarely** instead of **never**
>
>> (Do/can GATEs operate VHF to VHF?  If so, shouldn't they be HGATE or VGATE
>> (or UGATE) ?)
```

---

25. Train Trip Report

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Tue, 02 Jan 1996 16:21:22 -0800
To: aprssig@tapr.org
Message-ID: <9601030021.AA01614@gvgadg.gvg.tek.com>
Rendered body type: text/plain

Well, I'm now home and the train trip is over.

The trip was a lot of fun. We had a nice compartment to Chicago, friendly AMTRAK staff, and good food. The train was about 2 hours late into Chicago, but we still had an hour and a half for dinner before leaving. From Chicago, we had a really small compartment, so I did not set the APRS station up. Saturday morning I did pull out the GPS-45 and checked our speed and ETA to the next stop. At times, the train would get moving up to 80 MPH.

The GPS\APRS system seemed to work pretty good. The main problem was getting the GPS receiver to lock looking out the train window. The GPS would either be locked or unlocked for hours at a time. I found that the stock GPS-45 antenna seemed to work better than the Garmin active that I also had. When the GPS was locked it was fun to watch the choo-choo symbol move across my laptop's screen. My wife would check the GPS to see how far away we were to the next town.

I saw activity leaving Sacramento climbing the Sierras going into Truckee. I saw one station SE of Denver and a few more stations as we were coming into Chicago. I probably heard better than I got out.

All the equipment worked good. The pico packet TNC, with a new prom that came the day before I left, worked OK. I did see that the APRS must of been sending the pico something that it did not recognized, and about once a day I had to reload some of the parameters back into the pico. Just little nits, something for me to fool with and learn more about the interrelationships between various pieces of equipment.

So, it was fun, everything worked, and I would do it all again!!!

Randy
WA2AGE

```
----------------------------------------------------------------------
|                         My opinions are my own.                    |
|                                                                    |
|                   My computer is multimedia deprived.              |
|                                                                    |
| Randy Hall WA2AGE   randyh@gvgadg.gvg.tek.com   Grass Valley Group  |
----------------------------------------------------------------------
```

26. Attention Florida APRS Users!!

From: n2czf@gate.net
Date: Tue, 2 Jan 1996 19:57:23 -0500
To: aprssig@tapr.org
Message-ID: <199601030057.TAA43068@osceola.gate.net>
Rendered body type: text/plain

This message is for all Florida HF APRS users or APRS stations that have HF capability.

Early last year I conducted a test on 40M with several stations including G3ZFJ (who is now in NY) KO4HD and WA4MEJ. All in different sections of FL and with some level of VHF APRS activity. This test was conducted to examine the possibility of a statewide network based on a 40M backbone that could reach to surrounding states but be limited in distant QRM. THe test seemed to prove successful but was very short to come to any solid conclusions.

We are now at a point where most major metropolitan areas here do have some sort of APRS actiivity on VHF and the smaller ones just need some "work" to bring more users into the network. APRS interest here (esp. the panhandle) is geared towards Skywarn and Emergency communications. Up till' now we did not have enough trained users to validate it's use in a large scale but I think we are about there now. At this turning point I think it is time to re-test some alternate links as was done last year and try to get a few more GATEWAY's up throughout the state so that we can all be linked without needing a distant digi as we do now on 30M.

Please contact me and let me know if you have GATEWAY capabilities or just a single port TNC, and if you can be on the air 24hrs a day or just during a limited time. I think we need at least 1 full month of continuous operations and probably more like 2 to come up with some solid conclusions on what we can and cannot do. If you can't participate for the whole test that is ok but I do need stations at all the distant points in the state and in the center to be on a bit more than "occasionally" so we can substantiate our test results.

The VHF network is WONDERFUL at least here on the SE coastline, and the central coast and Orlando are starting to pick up. Tampa has always had a good system but no matter what we do we CANNOT have a statewide net just via the VHF paths. We have linked much more than what I thought we would have been able to in a very short time but the goal of APRS here in FL is a STATEWIDE EMERGENCY RESPONSE Network in addition to local. We can only do this on 40 or 80 meters so let's start planing on a SIGNIFICANT test so a decisive decision can be made on a band and frequency. Not only that, we will have a better understanding of what the bands can and can't do at different times of the day.

Send me your ideas nd let me hear from the Panhandle and SW coast, I know there are some of you out there somewhere....BTW no dates yet! I want to gather data first from participating stations and sync everyone so that the test can be as controled as possible.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

27. paket/meteors

From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>
Date: Wed, 3 Jan 96 05:45:45 EST
To: aprssig@tapr.org
Message-ID: <9601031045.AB17472@abaco.coastalnet.com>
Rendered body type: text/plain

will be in the beacon mode during the quads shower, with the mailbox on.
50.620.....

73's....david

---

28. Re: [APRSSIG:5643] Attention Florida APRS Users!!

From: dmobley@encore.com (Dennis Mobley)
Date: Wed, 3 Jan 1996 08:31:08 EST
To: aprssig@tapr.org
Cc: dmobley@encore.com, kd4emi@aol.com
Message-ID: <9192.9601031331@maxis.encore.com>
Rendered body type: text/plain

[In the message titled '[APRSSIG:5643] Attention Florida APRS Users!!', on Jan 2, n2czf@gate.net writes:]
} This message is for all Florida HF APRS users or APRS stations that have HF
} capability.

}
}Early last yearI conducted a test on 40M with several stations including G3ZFJ
<<<SNIP>>>
}
} 73's De Rich N2CZF
} n2czf@gate.net
} Jupiter Farms Florida
}
}
}
}-- End of excerpt from n2czf@gate.net

Hello Rich,

Dennis here, KT4FI in Sunrise FL. I have a KAM+ and I have been fooling with GATES. Mike KD4EMI, and I have been looking at using 40M for regional activity. Your input are requested and if I can help with your studies just drop me some mail.

73 de Dennis KT4FI
Sunrise FL
dmobley@encore.com
(954) 748 1507 Home

cc KD4EMI@aol.com (Mike)

---

29. Re: [APRSSIG:5642] Train Trip Report

From: dwetzel@uswest.com
Date: Wed, 3 Jan 1996 07:55:16 -0600
To: aprssig@tapr.org
Message-ID: <0ea950f0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

We had a small misunderstanding with your dates, Randy, but I did manage to get several packets from you when the train stopped in Provo, UT. I didn't have APRS up earlier (not a 24 hour operation here!), so I wasn't able to track the whole Utah portion of your trip.

Unfortunately, you were also a week ahead of our WIDE's intermittant operation on the mountain top!

Hope you can do it again soon -

73
Doug
KC7CO
______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5642] Train Trip Report
Author: aprssig@tapr.org at Internet-Mail
Date: 1/2/96 6:24 PM

Well, I'm now home and the train trip is over.

The trip was a lot of fun. We had a nice compartment to Chicago, friendly AMTRAK staff, and good food. The train was about 2 hours late into Chicago, but we still had an hour and a half for dinner before leaving. From Chicago, we had a really small compartment, so I did not set the APRS station up. Saturday morning I did pull out the GPS-45 and checked our speed and ETA to the next stop. At times, the train would get moving up to 80 MPH.

The GPS\APRS system seemed to work pretty good. The main problem was getting the GPS receiver to lock looking out the train window. The GPS would either be locked or unlocked for hours at a time. I found that the stock GPS-45 antenna seemed to work better than the Garmin active that I also had. When the GPS was locked it was fun to watch the choo-choo symbol move across my laptop's screen. My wife would check the GPS to see how far away we were to the next town.

I saw activity leaving Sacramento climbing the Sierras going into Truckee. I saw one station SE of Denver and a few more stations as we were coming into Chicago. I probably heard better than I got out.

All the equipment worked good. The pico packet TNC, with a new prom that came the day before I left, worked OK. I did see that the APRS must of been sending the pico something that it did not recognized, and about once a day I had to reload some of the parameters back into the pico. Just little nits, something for me to fool with and learn more about the interrelationships between various pieces of equipment.

```
So, it was fun, everything worked, and I would do it all again!!!

Randy
WA2AGE



----------------------------------------------------------------------
|                         My opinions are my own.                    |
|                                                                    |
|                   My computer is multimedia deprived.              |
|                                                                    |
| Randy Hall WA2AGE   randyh@gvgadg.gvg.tek.com   Grass Valley Group  |
----------------------------------------------------------------------
```

30. GATE?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 03 Jan 1996 09:21:25 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960103152125.006cbb7c@144.188.134.33>
Rendered body type: text/plain

```
>If that is correct, then:
>  1) 'GATE' should **never** appear in the unproto path of a VHF station,
>and
>  2) and 'GATE' station should *not* be gatewaying VHF to HF.
>
>If that is NOT correct, would someone explain the function of GATE in the
>unproto path of a VHF station to me please ?
>

GATE is the alias set in the tnc that allows the tnc (not aprs software!) to
automatically digipeat on THE OTHER port when GATE is next in the unproto
path list. This is a two way street. GATE is a valid path component for
anybody WHO HAS SOME INFORMATION OF VALUE WORTHY OF the nationwide party
line running at 300 baud that we call aprs on 30m. I encourage anyone who
has access to an hf tnc and hf radio to give a listen to the 30m aprs freq.
and see some of the useless info that shows up there!!!

Paul Moller
Motorola CSG
708-523-5210
Motorola pager #7378
```

31. Re: [APRSSIG:5640] Re: hf abuse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jan 1996 11:35:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960103112651.5233A-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 2 Jan 1996 KD4EMI@aol.com wrote:

> Lets say we want to establish a 40 meter net for statewide activity.
> Why not establish an alternate alias for the local HF gateways,
> like FLGATE or something like that (Bob can deciede)
> Then this allows us to see ALL OF THE local stations throughout the state.
> AND keeps us off the 30 DX gateways.

WB4APR REPLY COMMENT:

Sounds like a GREAT idea to me.  What do you thing about the following:

GATE14 or GATEDX for 14 MHz
GATE10 for all 10 MHz gateways
GATE7  for all  7 MHz gateways
GATE3  for all  3 MHz gateways
GATE9  for 9600 baud gateways
GATEX  for cross band VHF to UHF
GATEFL for Florida (for what ever freq they may use for their STATE)
etc...

If anyone sees a problem with this, lets us know...
```

32. AEA setup for APRS

From: Gordon Fuller <gfuller@netcom.com>
Date: Wed, 3 Jan 1996 09:07:24 -0800 (PST)

To: aprssig@tapr.org
Message-ID: <Pine.3.89.9601030841.A18642-0100000@netcom21>
Rendered body type: text/plain

```
Several friends have ask how to initialize their AEA TNCs for APRS.  They have
had to run the Pakrat program to first set up their TNC before loading APRS.
Is there a change that needs to be added to the AEAINIT.TNC file that will
set up an AEA TNC.  I run a Kam so I can't play with the settings.
Thanks and 73  Gordy WB6OVH .... ..

                                             gfuller@netcom.com
```

---

33. Re: [APRSSIG:5635] VHF Aprs Activity in Western Washington

From: philkeys@olympus.net (Phil Keys)
Date: Wed, 3 Jan 1996 09:40:22 -0800
To: aprssig@tapr.org
Message-ID: <v01510101ad1067226618@[198.133.237.42]>
Rendered body type: text/plain

```
Hello Jeff

Please copy me on any response you get about APRS in W. Wash.

I am near Port Townsend.

Thanks
Phil Keys
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA  98339  (360) 379-8650  122 44.0W  48 02.0N
```

---

34. Re: [APRSSIG:5640] Re: hf abuse

From: WB4LTF@aol.com
Date: Wed, 3 Jan 1996 13:00:17 -0500
To: aprssig@tapr.org
Message-ID: <960103130016_105330893@mail06.mail.aol.com>
Rendered body type: text/plain

```
I guess I'm confused (which is nothing new) but I thought that GATE was to be
used in an HF path but not in a VHF path.
If a VHF station puts Gate in his path and there is no VHF station with Gate
as one of his alias's nothing is going to happen Right?
Next question is;  If there is a mobile,lets say a RV'er who is operating on
VHF but would like to get his position shown, to the folks back home,
Shouldn't he be able to use GATE?
Seems to me that it all comes down to the old story about being a ham and
showing SOME responsibility for ones actions!
APRS is a GREAT program both as a tool and as a toy.  Lets not spoil it by
getting into the old quibble mode. ACT YOUR AGE and have fun.

Bud
wb4ltf@aol.com
```

---

35. Re: [APRSSIG:5646] Re: Train Trip Report

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 03 Jan 1996 10:11:15 -0800
To: aprssig@tapr.org
Message-ID: <9601031814.AA04050@gvgadg.gvg.tek.com>
Rendered body type: text/plain

```
>
>
>We had a small misunderstanding with your dates, Randy, but I did manage to
get
>several packets from you when the train stopped in Provo, UT.  I didn't have
>APRS up earlier (not a 24 hour operation here!), so I wasn't able to track the
>whole Utah portion of your trip.


GREAT! You saw me!!!!

It was fun and the trip was great. Thanks for the report.


Randy
```

```
----------------------------------------------------------------------
|                         My opinions are my own.                    |
|                                                                    |
|                   My computer is multimedia deprived.              |
|                                                                    |
| Randy Hall WA2AGE   randyh@gvgadg.gvg.tek.com   Grass Valley Group |
----------------------------------------------------------------------
```

36. Re: Re: hf abuse

From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Wed, 3 Jan 1996 10:08:04 -0800
To: aprssig@tapr.org
Message-ID: <0eac7a60@ccgate.berlex.com>
Rendered body type: text/plain

Bob's idea forces mobiles to know what gate is going to be up at any time in their area (or across areas if it is a cross country voyage). I suggest that we stick with only two HF gateways. 1) GATE to be used as we have in the past and 2) LGATE (local gate) for the "state wide" other frequency gates. GATE would be used for 30 M thru 10 M (DX frequencies) and LGATE for 80 and 40 M. This would allow a mobile to set the TNC once (especially if stand alone) and still be seen. Then the HF operator becomes responsible for assigning the appropriate GATE name to his/her station.

73, de Sam, KO6JR
Packet: KO6JR@KA6FUB.#NOCA.CA.USA.NOAM
Internet: Sam_Lipson@Berlex.Com
!3759.23N/12205.13WM

____
Subject: [APRSSIG:5648] Re: hf abuse
From: aprssig@tapr.org at Internet
Date: 01/03/96 10:42

On Tue, 2 Jan 1996 KD4EMI@aol.com wrote:

> Lets say we want to establish a 40 meter net for statewide activity.
> Why not establish an alternate alias for the local HF gateways,
> like FLGATE or something like that (Bob can deciede)
> Then this allows us to see ALL OF THE local stations throughout the state.
> AND keeps us off the 30 DX gateways.

WB4APR REPLY COMMENT:

Sounds like a GREAT idea to me. What do you thing about the following:

GATE14 or GATEDX for 14 MHz
GATE10 for all 10 MHz gateways
GATE7 for all 7 MHz gateways
GATE3 for all 3 MHz gateways
GATE9 for 9600 baud gateways
GATEX for cross band VHF to UHF
GATEFL for Florida (for what ever freq they may use for their STATE)
etc...

If anyone sees a problem with this, lets us know...

37. Re: [APRSSIG:5636] Re: Another KPC-3 problem

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 03 Jan 1996 11:23:09 -0700
To: aprssig@tapr.org
Message-ID: <199601031823.LAA23259@usr1.primenet.com>
Rendered body type: text/plain

Do you know the "early" release dates, eg. the chips between X and Y dates of manufacture were defective? Thanks, Alan, WC7R

At 11:49 AM 1/2/96 -0600, you wrote:
>Sorry for the delay in reply, but I have been on holiday for 10 days :-)
and now
>I'm back :-(.
>
>This actually occurred to me about 3 months ago. The "continuous key" occurs
>between the last beacon time of the UTC day until the first of the next "day"
>and only occurs when one uses the START XX:XX:XX EVERY XX:XX:XX. If you
exclude
>the EVERY option it does not occur.

>
>Now, Kantronics admits that early releases of 6.0 have a bug and they are
>willing to replace (at least they did with me) the EROM at no charge. It
>appears that about the first 3 months of production of the 6.0 chip has the
bug.
>When I got the replacement chip, installed it, set up the TNC and started
it out
>it worked (and continues to work) like a charm.
>
>BTW my set-up is a KPC-3 interfaced with a Garmin GPS-45.
>
>73, de Sam, KO6JR
>Packet: KO6JR@KA6FUB.#NOCA.CA.USA.NOAM
>Internet: Sam_Lipson@Berlex.Com
>!3759.23N/12205.13WM
>
>____
>Subject: [APRSSIG:5548] Another KPC-3 problem
>From: aprssig@tapr.org at Internet
>Date: 12/27/95 15:53
>
>
>   Last night I found another problem with the KPC-3 and was woundering
>   if anyone else has seen it. I have been trying to call Kantronics but
>   they are not answering their phone.
>
>   I am using the TCN is GPS mode tied to a garman45 gps.
>
>   The problem: The TNC started sending the same LT line continuously.
>   In doesn't drop TX - it just sends the same line over and over. I saw
>   what had happened and turned it off prior to reaching the watchdog
>   time. I also know the signal was good because when I turned off the
>   TNC I could hear other stations repeating it.
>
>   Has anyone else seen this ?
>
>   Bill
>
>--
>
>   Bill Northup   INTERNET: northup@sw.stratus.com
>   Stratus Computer Inc.   Amateur Radio: N1QPR
>   55 Fairbanks Boulevard   QRP-NE #307
>   Marlboro, MA 01752   NorCal #1027
>
>
>
Alan K. Unangst

38. Re: HF abuse

From: ke4eer@ro.com (William Nolle)
Date: Wed, 03 Jan 1996 12:30:42
To: aprssig@tapr.org
Message-ID: <199601031839.MAA24299@sh1.ro.com>
Rendered body type: text/plain

As you can see folks i'm not the only one complaining about the HF Gate
abusers, i'm just the only one that puts it in print on the Sig i guess. These
messages of support i get shows me that something needs to be done (And i
don't mean Help for HF Gaters either). It looks to me like if you have all the
license clas to use HF then why don't you use it and stay there instead of
screwing up the frequency for VHF users.

Bill KE4EER
ke4eer@ro.com

>   I wanted to send you a supportive message when you slammed W7LUS the
>   other day, but you didn't have an e-mail address on that one. I'm
>   behind you all the way! I constantly read about the VHF'ers abusing
>   the GATEs...and I'm sick of it! I run a WIDE in (Another state) and
>   W7LUS seems to choke our VHF bandwidth with all the messages &
>   acks whenever he decides to chew the fat...

39. 440 APRS Freq?

From: Jess Girard <girard@panix.com>
Date: Wed, 3 Jan 1996 14:05:50 -0500 (EST)
To: APRS Sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960103140052.3854A-100000@panix.com>

Rendered body type: text/plain

Hi Al:

A friend, Paul Danzer, n1ii, asked me whether there is an "official" 440 frequency for APRS in the NY/NJ/CT metropolitan area. I know someone (k1trs maybe? I can't remember here at the office) is beaconing that he's on 440 in the Hartford area but I don't recall anything official down towards the NYC metro area. Can someone add anything to this?

Thanks in advance for any help. I unsubscribed to aprssig for a while so I'm presumably not caught up. I have re-subscribed, so you may simply reply to the SIG address rather than to me... or whatever.

Jess ND1L

40. APRS for Windows?

From: Jess Girard <girard@panix.com>
Date: Wed, 3 Jan 1996 14:09:53 -0500 (EST)
To: APRS Sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960103140555.3854B-100000@panix.com>
Rendered body type: text/plain

A couple of stations in the NY area are beaconing that they are running beta versions of the APRS program for Windows.

I sent a one-liner to one such station (and got an ACK) asking for the source of the program, but he didn't reply. Having unsubscribed to aprssig for a while I'm not up on what's doing. Is the beta version freely available yet?
Jess
ND1L

41. Re: [APRSSIG:5651] Re: hf abuse

From: ke4eer@ro.com (William Nolle)
Date: Wed, 03 Jan 1996 13:13:55
To: aprssig@tapr.org
Message-ID: <199601031922.NAA26439@sh1.ro.com>
Rendered body type: text/plain

You are correct Bud on every count. The only reason a VHF user should not put Gate in his path because VHF is 1200 Baud anf HF is 300 Baud therefore the VHF message going out would slow down the HF system by a count of 4.
Your also right in that the HF gate was designed for an RV or Boats etc to relay their position back home (BUT NOT) for general use as sending many many messages back and forth (Including using the Bulletin Function) from HF to VHF.

Bill KE4EER
ke4eer@ro.com

>I guess I'm confused (which is nothing new) but I thought that GATE was to be
>used in an HF path but not in a VHF path.
>If a VHF station puts Gate in his path and there is no VHF station with Gate
>as one of his alias's nothing is going to happen Right?
>Next question is; If there is a mobile,lets say a RV'er who is operating on
>VHF but would like to get his position shown, to the folks back home,
>Shouldn't he be able to use GATE?
>Seems to me that it all comes down to the old story about being a ham and
>showing SOME responsibility for ones actions!
>APRS is a GREAT program both as a tool and as a toy. Lets not spoil it by
>getting into the old quibble mode. ACT YOUR AGE and have fun.
>
>Bud
>wb4ltf@aol.com
>

42. Re: AEA setup for APRS

From: Randy Hammock <hammock@tis.telos.com>
Date: Wed, 3 Jan 1996 14:25:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960103141546.21921C-100000@zentropa>
Rendered body type: text/plain

On Wed, 3 Jan 1996, Gordon Fuller wrote:

> Several friends have ask how to initialize their AEA TNCs for APRS. They have
> had to run the Pakrat program to first set up their TNC before loading APRS.
> Is there a change that needs to be added to the AEAINIT.TNC file that will

> set up an AEA TNC.

I can only assume that when you say "AEA TNC" you are refering to PK-88 as AEA makes several different models. I have been in communication with Bob with regard to problems with APRS not working with the PK-88 and hopefully this will be resolved shortly. The problem comes about as the result of APRS sending a "VHF ON" command to the PK-88 causing it change the "TONE" setting from 3 to 2. My temporary solution was to patch the executable to change the "VHF on" string to "VHF   ". After that patch, APRS works with my PK-88 just fine. I found this necessary as the "VHF on" gets sent to the TNC after the contents of AEAINIT.TNC gets sent.

```
--
Randy Hammock KC6HUR                    |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS        |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400  |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770              |     FAX: +1 301 507-5892
```

---

43. Internet APRS Gateways

From: Willson Flor <willf@rrgroup.com>
Date: Wed, 3 Jan 1996 13:27:54 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3960103132755DJ005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

```
----------
From:   WB4LTF@aol.com[SMTP:WB4LTF@aol.com]
Sent:   Wednesday, January 03, 1996 12:15 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:5651] Re: hf abuse


.       If there is a mobile,lets say a RV'er who is operating on
.       VHF but would like to get his position shown, to the folks back home,
.       Shouldn't he be able to use GATE?
```

He should be able to, but due to bandwidth considerations, probably shouldn't do so. This is why we need to establish internet wormholes for APRS, to give us another way to DX. There has been some discussion on this list about this subject; is anybody actually doing anything or even still talking?

Some have suggested IRC; since some IRC SysAdmins might not like that idea, telnet is another idea. Nothing can be done along these lines unless we have software to "bridge the gap" between the net and APRS. Is anybody thinking about this or maybe even writing software?

Some DDE Execute protocol "hooks" in MacAPRS for Windows would be nice for a start, but for technical (and other) reasons that is unlikely to ever be seen.

Of course, more has to be done than just pipe APRS beacon-text back and forth on the net, since the Net->Radio link operator is probably not going to want
every net-repeated station, but those are the details...

73 de KB9JTT
willf@rrgroup.com

---

44. (no subject)

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 03 Jan 1996 13:37:53 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960103193753.006d3380@144.188.134.33>
Rendered body type: text/plain

```
>
>GATE14 or GATEDX for 14 MHz
>GATE10 for all 10 MHz gateways
>GATE7  for all  7 MHz gateways
>GATE3  for all  3 MHz gateways
>GATE9  for 9600 baud gateways
>GATEX  for cross band VHF to UHF
>GATEFL for Florida (for what ever freq they may use for their STATE)
>etc...
```

Bob,

```
Is the GATEX and GATE9 concept the lead in to inter-city paths, like packet
clusters do? There is a good seed here, keep it growing.

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)
```

---

45. No GATEs on VHF pse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jan 1996 15:20:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960103145229.8882A-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 2 Jan 1996, someone complained:

> ... why should GATE NEVER apear in a VHF unproto path?
> Is it simply because HF'ers say so?...
> Therefore it is only fair for VHF users to add Gate to their path!

WB4APR REPLY COMMENT:

No.  Please THINK. It is simple arithmatic.  The capacity of the single
HF APRS channel at 300 baud is about 7 packets per minute.  This is
because a typical packet is 3 seconds long and due to colisions the maximum
theoretical throughput on such a shared channel is only 36% of absolute
capacity.

Lets say that we have 33 HF gates and only ONE ego-station in each VHF
area puts gate in his path and averages only one packet every 4 minutes.
THAT IS 100 PERCENT of the 300 baud HF CHANNEL CAPACITY!
NO ONE ELSE CAN USE THE CHANNEL BECAUSE IT IS SATURATED!

CONVERSLY, In your local VHF area, you have ONE GATEway station.  If
there are 33 HF users on the HF channel sending one packet about
every 4 minutes each, that is a FULL HF CHANNEL, but your 1200 baud
VHF packet channel is only seeing 7 packets per minute from the HF gateway...
This represents only 11% of your channel capacity.  Hardly worth all the
fuss.  NOTE!  THere is NO way that the HFers can use any more of your
VHF capacity than 11% even if they are on the air 100% of the time!

Please leave the HF channel for the HFers, and the occassional VHFer that
has something of naitonal interest.  Why let a few VHF egos kill the
whole natiowide network so NO ONE can use it?
```

---

46. Re: [APRSSIG:5649] AEA setup for APRS

From: jkerns@usit.net (jim kerns)
Date: Tue, 02 Jan 1996 15:53:31 -0500
To: aprssig@tapr.org
Message-ID: <199601032052.PAA17338@use.usit.net>
Rendered body type: text/plain

```
>Several friends have ask how to initialize their AEA TNCs for APRS.  They have
>had to run the Pakrat program to first set up their TNC before loading APRS.
>Is there a change that needs to be added to the AEAINIT.TNC file that will
>set up an AEA TNC.  I run a Kam so I can't play with the settings.
>Thanks and 73  Gordy WB6OVH .... ..
>
>                                            gfuller@netcom.com
>Gordy, I have been using 232MBX on APRS for a yr or so and always have to
run PCRATT first to set tnc nito packet, then exit and go to APRS blue
screen. O-C-T
Then set hbaud 300  then vhf off (for 30 meters.)  or for 2 meters, just run
APRS and tnc as is once I inialize tnc with pkratt.

I have my APRS set for AEA but still have never been able to "Wake up" the
tnc from within the program

Jim, N4PUQ in Tn.
>
>
```

---

47. Re: APRTRAK orbital element updates.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jan 1996 17:19:43 -0500 (EST)
To: Samuel Guccione <sguccion@outland.dtcc.edu>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960103171840.11150A-100000@greatlakes>
Rendered body type: text/plain

On Wed, 3 Jan 1996, Samuel Guccione wrote:

> I am using APRTRAK in preparation for the upcoming Shuttle activity on
> Jan 11. However, I seem to have missed something someplace. It would
> seem that updates to the orbital elements need to take place. I did not
> find a command or procedure for doing that. Where did I miss that?

WB4APR REPLY COMMENT:

Its the FILES-KEPS command. GOod luck!

---

48. hf revisited

From: KD4EMI@aol.com
Date: Wed, 3 Jan 1996 18:45:32 -0500
To: aprssig@tapr.org
Message-ID: <960103184348_105657156@mail02.mail.aol.com>
Rendered body type: text/plain

Ok, now we are going somewhere with this gate issue.

In defense of some operators, and we know who they are, who qso
through gates, etc, this really a problem.

In S. FL we have a very active net with some people who set their
beacons to xmit alot !
Combine this with the HF gate qso's and the # of stations on our freq,
this really slows down things...

Now, we all want to be good operators, and Im sure that the guy
who we are talking about wants to be one too...
MAYBE, just maybe, he doesnt realize that he should set his unproto
to the callsign of the HF gate of the guy that he;s talking to on HF.
Then, not every gate in the US will grab his acks and qso data.
Isnt this simple...IF your on HF, just change your UNPROTO PATH
from gate,wide to <CALLSIGN OF GATE STATION, WIDE >
then we all dont have to hear abt the complaining.
I'll bet he isnt on this sig (I dont think he is)
Why dont we remind him that the above method would make
everyone happier...?
Im sure he would want to do the right thing ..?!

---

49. HF GATES AND ALIAS

From: KD4EMI@aol.com
Date: Wed, 3 Jan 1996 18:44:04 -0500
To: aprssig@tapr.org
Cc: n2czf@gate.com
Message-ID: <960103184357_105657363@emout06.mail.aol.com>
Rendered body type: text/plain

I think Bobs idea is too complicated, though it would be an effective
way to organize the paths.
Perhaps Im too short sighted..here is my fix
(and this is what Sam KO6JR proposes)

#1
Gate is for dx (i.e. 30 meters or even 20 or 17 !)

#2 LGATE is for 40 and 80 meters.

Selecting XXGATE for XX being the state would be a major problem.
With ajoining states, there would be sharp borders as to who would be
seen. Not good if your near a state line.

As for 9600 gates, UHF gates, etc, Hmmmm
that complicates things...I think that UHF is being used to
LINK stations. If so, then it would be able to repeat everything,
gates, LGATES,and any other unproto that is seen.
Im not certain but I dont think there is alot of 440 activity at this point.

So summary is
GATE=30 METERS (or 20 or 17 for dx)
LGATE=statewide gate. (whatever band prop allows)
Please note..stations should not put more than one gate in the
unproto to avoid getting repeated into other states.
Is this covering the bases...Why not try it?

Is this any better or closer?
Mike
KD4EMI@AOL.COM

50. Re: [APRSSIG:5662] No GATEs on VHF pse

From: ke4eer@ro.com (William Nolle)
Date: Wed, 03 Jan 1996 17:54:23
To: aprssig@tapr.org
Message-ID: <199601040003.SAA15536@sh1.ro.com>
Rendered body type: text/plain

You are so right Bob, the theory sounds great, but when sitting in front of my
monitor and seeing nothing but messages (I'm talking nothing but) from Hf
users it gets frustrating and makes me wonder why are they using VHF at all.
Are they so hungry for attention or what. I don't see why we need HF gates at
all unless there truly are some users that want to beacon their position back
home via VHF. But say what anybody may when HF Gates start screwing up
what i have been working to build up on VHF for years i for one will not let
them. Don't get me wrong i'm not talking about the position beacons or WX
stations. I enjoy seeing them show on my map as much as anyone else, but
when the messages totally screw up VHF so i have to sit here and watch it
fill screen after screen then i have to do something since they just want to
continue. The day in question there where 68 users on my map so if all those
where sending message after message don't tell me it would tie up VHF also.
I don't know about percentage here and percentage their, all i know is what
i have to put up with every weekend. Ok HF'ers start turning on the flames,
but before you light that flame think of this. If you have used HF to gate to
VHF to send messages back and forth then you are as guilty of abusing the
gate then i would going the other way Hi Hi.

Bill KE4EER
ke4eer@ro.com

>Please leave the HF channel for the HFers, and the occassional VHFer that
>has something of naitonal interest. Why let a few VHF egos kill the
>whole natiowide network so NO ONE can use it?
>

51. Re: [APRSSIG:5655] Re: HF abuse

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 3 Jan 1996 19:06:20 -0500
To: <aprssig@tapr.org>
Message-ID: <199601040006.TAA09593@brickell.bridge.net>
Rendered body type: text/plain

>As you can see folks i'm not the only one complaining about the HF Gate
>abusers, i'm just the only one that puts it in print on the Sig i guess.
>These
>messages of support i get shows me that something needs to be done (And i
>don't mean Help for HF Gaters either). It looks to me like if you have all
>the
>license clas to use HF then why don't you use it and stay there instead of
>screwing up the frequency for VHF users.
>
>Bill KE4EER
>ke4eer@ro.com
>
>>   I wanted to send you a supportive message when you slammed W7LUS the
>>   other day, but you didn't have an e-mail address on that one. I'm
>>   behind you all the way! I constantly read about the VHF'ers abusing
>>   the GATEs...and I'm sick of it! I run a WIDE in (Another state) and
>>   W7LUS seems to choke our VHF bandwidth with all the messages &
>>   acks whenever he decides to chew the fat...
>
Oh on, here we go again. From the complete lack of consensus when I
brought this up a few months ago I thought it would be awhile before it
came up again. To add my two cents worth...

I still feel that it is fine for a VHF station to gate onto HF with
position and weather reports, those are what I like APRS for. It would be
nice to have better support for different VHF and HF paths, I know
MacAPRS now supports different beacon freqs for HF and VHF, although I'd
like to see a way for the VHF only user to enter different freqs for a
path with GATE and a VHF only path, but that will come from Keith and
Mark eventually.

The bottom line as I see it is that everyone is free to do what they
want, and we all have to give people the room to do that. If something
they are doing annoys us, we can try to educate them, but ultimately the
only solution is to use the off switch. Personal attacks accomplish
nothing.

```
Steve, KO4HD
```

---

52. Re: [APRSSIG:5660] Internet APRS Gateways

```
From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 3 Jan 1996 19:12:29 -0500
To: <aprssig@tapr.org>
Message-ID: <199601040012.TAA10074@brickell.bridge.net>
Rendered body type: text/plain
```

```
>He should be able to, but due to bandwidth considerations, probably
>shouldn't do so.  This is why we need to establish internet wormholes
>for APRS, to give us another way to DX.  There has been some discussion
>on this list about this subject; is anybody actually doing anything or
>even still talking?
>
>Some have suggested IRC; since some IRC SysAdmins might not like that
>idea, telnet is another idea.  Nothing can be done along these lines unless
>we have software to "bridge the gap" between the net and APRS.  Is anybody
>thinking about this or maybe even writing software?
>
>Some DDE Execute protocol "hooks" in MacAPRS for Windows would be nice
>for a start, but for technical (and other) reasons that is unlikely to ever
>be seen.
>
>Of course, more has to be done than just pipe APRS beacon-text back and
>forth on the net, since the Net->Radio link operator is probably not going
>to want
>*every* net-repeated station, but those are the details...
>
I have a program currently working on the Mac which allows a serial port
to be used over an EtherTalk network by multiple programs. I am in the
process of adding TCP/IP support. This will allow any internet user to
hook into any TNC output stream, and even to completely link LANs. There
is no need for any special protocols, it is simply a stream of characters
in each direction, would be easy for someone to write a WinSock version.
If anyone has the knowledge and desire to do this, let me know so we can
test our version together. BTW, the socket number I'm using is
14579...wonder why I picked it???

Steve KO4HD
```

---

53. Re: [APRSSIG:5654] Re: Another KPC-3 problem

```
From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Wed, 3 Jan 1996 16:03:09 -0800
To: aprssig@tapr.org
Message-ID: <0eb1ae10@ccgate.berlex.com>
Rendered body type: text/plain
```

```
No, Kantronics would not give me that information.  Sorry.

73, de Sam, KO6JR
Packet: KO6JR@KA6FUB.#NOCA.CA.USA.NOAM
Internet: Sam_Lipson@Berlex.Com
!3759.23N/12205.13WM
______________________________________________________________________________
Subject: [APRSSIG:5654] Re: Another KPC-3 problem
From:    aprssig@tapr.org at Internet
Date:    01/03/96  12:35

Do you know the "early" release dates, eg. the chips between X and Y dates
of manufacture were defective? Thanks, Alan, WC7R


At 11:49 AM 1/2/96 -0600, you wrote:

>Now, Kantronics admits that early releases of 6.0 have a bug and they are
>willing to replace (at least they did with me) the EROM at no charge.  It
>appears that about the first 3 months of production of the 6.0 chip has the
bug.
>When I got the replacement chip, installed it, set up the TNC and started
it out
>it worked (and continues to work) like a charm.
>
```

---

54. PHG (was: More lessons learned)

```
From: Chuck Grant <grant@aretha.llnl.gov>
Date: Wed, 3 Jan 1996 17:46:25 -0800
```

To: aprssig@tapr.org
Message-ID: <199601040146.RAA14310@aretha.llnl.gov>
Rendered body type: text/plain

> From: Bob Bruninga <bruninga@nadn.navy.mil>
>
> On Sat, 30 Dec 1995, Jim Holley wrote:
>
> > Hi Bob, think you have a good idea on the PHG. But how about increasing the
> > gain figure above 9db to also make it more accurate for the use of the high
> > gain beams in use? I think it's a good idea if not to much problem. Thanks!
>
> WB4APR REPLY COMMENT:
>
> No need, remember when you have a beam, you should be entering a DIRECTIVITY.
>
> This offsets your PHG circle by a factor of about 2 in the favored
> direction. This is about the same as a 6 db additional gain. So unles
> your beam is greater than 15 dB then it is adequately represented.

I beg to differ on the "no need" answer.

On one hand it is entirely possible to have an antenna with a horizonally omni-directional pattern and a gain of greater than 9db (or any other arbitrary number).

And on the other hand, as far as antenna patterns go, you have a very loose definition of what is "adequately represented". Personally, I feel that these PHG circles are nearly completely useless representing any kind of reasonable beam antenna.

I would really really really really really like to see the PHG expanded to something with more information. (Did I put in enough "really"'s to get my point across? :-)

To really plot the pattern, I think you need (in addition to nearby terrain features which a mapping/database program can provide) at least:

Power, Antenna height above ground, alititude of the local ground,
antenna gain, antenna beamwidth, and beam direction.

If you must quantize these into a tiny fixed format, may I suggest something like the following, but a variable length, free format would be much more desirable to me:

```
Power     1500, 1000, 750, 500, 350, 225, 150,
          100, 75, 50, 35, 22.5, 15,
          10, 7.5, 5, 3.5, 2.25, 1.5,
          1, 0.75, .5, .35, .225, .15, .1 Watt)
          A=0.1 watt, Z=1500Watts   (ready for hf or eme)

Antenna Height above local ground (in meters 1, 1.5, 2, 3, 4, 6, 8, 12,
                                   16, 24, 32, 48, 64, 96, 128, 196, 256
                                   384, 512, 768, 1024, 1536, 2048, 3072,
                                   4096, 6144
                                   This should cover most conditions,
                                   even the edge of a cliff or top of a
                                   mountain antenna tower, but not
                                   spacecraft.

Altitude of local ground (in meters) same quantization.

antenna gain (dbi or referenced to a 1/4 wave verticle) in best direction
             0-9 plus A-Z for 10 to 35db (look out eme-aprs!)

beamwidth  (in degrees at 3db down points ie. half max)
           360, 275, 180, 170, 160, 150, 140, 130, 120, 110, 90, 80, 70,
           60, 50, 45, 40, 35, 30, 25, 20, 15, 10, 5,

beam direction (more resolution than just a couple of compass points, say 0-9
                and a-z for ten degree resolution or 0-9, a-z, A-Z , and say,
                !@#$%^&*() for five degree resolution
```

Hey it would only take a few more characters, and make it would make the patterns MUCH more useful, at least to me.

minumum:
PHAGWD six characters.

Highly prefered, fully expanded, non-quantized, variable length,
easy to read format:
P in watts
H in meters
A in meters
G in dbi
W in degrees
D in degrees (optional for omnidirectional [W=360] antennas)

examples: P1500H15A1500G6W45D135 or P.001H1A135G2W360

> And increasing the circle size much beyond about 9 dB makes little sense,
> because your range is more limited by the radio horizon than any amount of
> additional power (or bigger circle...)

Calulations in the drawing routine should take this into effect. You shouldn't have to put in a bunch of hand tweeked numbers which do not reflect the actual parameters of your station, to get a reasonable representation of the approximate pattern of your station, otherwise you might as well just enter and transmit the coverage radius in km.!

Chuck

---

55. Re: [APRSSIG:5666] HF GATES AND ALIAS

From: n2czf@gate.net
Date: Wed, 3 Jan 1996 21:32:41 -0500
To: aprssig@tapr.org
Message-ID: <199601040232.VAA42338@osceola.gate.net>
Rendered body type: text/plain

Mike... that won't work, the gate thing and WIDE. Unless a station changes MYGATE to a actual callsign you can't gate to HF using his callsign, that will only digi you on VHF via his station.

Default on a KAM is eg: MYC KD4EMI, MYM KD4EMI-1, MYGATE KD4EMI-3, etc. that will then work I go UNPROTO APRS VIA KD4EMI-3 and I end up on HF. As soon as you change MYGATE to GATE if you attempt to avoid using the generic alias of GATE and change to UNPROTO APRS VIA KD4EMI that will only spit you back out on VHF.

Close only counts with demolition grade explosives! (Another one of my loves)
n2czf@gate.net
Jupiter Farms Florida

---

56. HELP!

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Wed, 3 Jan 1996 21:34:54 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADA23.5328C000@port-7-29.access.one.net>
Rendered body type: text/plain

Bob:

I need some help!

I'm trying to install a new Ultimieter 2000 with aprs....Both things are new to me. I previously ran a Ultimiter II with PKGold, an AEA 232MBX, and a Compaq Deswkpro 386 with 1 meg of RAM and a VGA color monitor. The system ran fine till I installed the Ultimeter 2000 and the new APRS74E.

We had a little bit of trouble with a cable (using Peet Bros cable) but got it working. During the problem solving for the cable, we re-booted and the color disappeared. We also got a "comm buffer overflow" message in the upper right corner of the screen and the system locked up.....We had to re-boot and start over. This occurred while were were looking at the Ultimeter 2000 data stream in APRS.

Can you suggest a reason for the loss of color? Or for the lockup in in APRS?

Would appreciate any help you can give.

R. Otto
N8NGA
Cincinnati, Ohio

---

57. additional help

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Wed, 3 Jan 1996 21:55:27 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADA26.4270A180@port-7-29.access.one.net>
Rendered body type: text/plain

Bob:

Some additional information on my previous message that said:

I'm trying to install a new Ultimieter 2000 with APRS....Both things are new to me. I previously ran a Ultimiter II with PKGold, an AEA 232MBX, and a Compaq Deswkpro 386 with 1 meg of RAM and a VGA color monitor. The system ran fine till I installed the Ultimeter 2000 and the new APRS74E.

We had a little bit of trouble with a cable (using Peet Bros cable) but got it working. During the problem solving for the cable, we re-booted and the color disappeared. We also got a "comm buffer overflow" message in the upper right corner of the screen and the system locked up.....We had to re-boot and start over. This occurred while were looking at the Ultimeter 2000 data stream in APRS.

Can you suggest a reason for the loss of color? Or for the lockup in APRS?

New information:

We found the color problem...it was caused by a static charge and re-connecting the cables to the monitor eliminated the problem.

Regarding the more serious issue of the "COMM Buffer Overflow", we continue to have a problem. The system works fine as long as its just gathering data, or as long as we are in a APRS receive or transmit mode. If you go to a non-APRS processing mode such as the terminal program, or the save mode, you get the "COMM Buffer Overflow" error and the system locks up!

Can you tell me the cause, and more importantly, the fix?

Again, I appreciate your help in this matter.

Regards,

R. Otto
N8NGA
Cincinnati, Ohio

---

58. Re: APRTRAK orbital element updates.

From: Ken McCaughey N3FZX <kenneth@w3eax.umd.edu>
Date: Wed, 3 Jan 1996 22:18:05 +0000
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: Samuel Guccione <sguccion@outland.dtcc.edu>, amsat-bb@amsat.org,
aprssig@tapr.org
Message-ID: <Pine.3.89.9601032245.C30930-0100000@w3eax.umd.edu>
Rendered body type: text/plain

On Wed, 3 Jan 1996, Bob Bruninga wrote:

> On Wed, 3 Jan 1996, Samuel Guccione wrote:
>
> > I am using APRTRAK in preparation for the upcoming Shuttle activity on
> > Jan 11. However, I seem to have missed something someplace. It would
> > seem that updates to the orbital elements need to take place. I did not
> > find a command or procedure for doing that. Where did I miss that?
>
> WB4APR REPLY COMMENT:
>
> Its the FILES-KEPS command. GOod luck!
>
>

Updated elements for SPRE and STS-72 will be available from the SPRE FTP site as we get them from NASA.

URL ftp://w3eax.umd.edu/pub/spre/info

```
#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#

Ken McCaughey - N3FZX         SPRE - Spartan Packet Radio Experiment
SPRE Project Lead             U. of Md. Amateur Radio Assc. - W3EAX

e-mail: kenneth@w3eax.umd.edu
        n3fzx@amsat.org
packet: n3fzx@wa3nan.md.usa.noam

#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#
```

59. Re: [APRSSIG:5667] Re: No GATEs on VHF pse

From: JayMillard@aol.com
Date: Wed, 3 Jan 1996 22:37:38 -0500
To: aprssig@tapr.org
Message-ID: <960103223736_83463287@emout04.mail.aol.com>
Rendered body type: text/plain

```
William Nolle wrote, here copied verbatim:
>Don't get me wrong i'm not talking about the position beacons or WX
stations. I enjoy seeing them show on my map as much as anyone else, but
when the messages totally screw up VHF so i have to sit here and watch it
fill screen after screen then i have to do something since they just want to
continue.

--End of quoted material--

As a relatively new user of APRS, on both VHF & HF, I have paid particularly
close attention to the etiquette of using this mode, subscribing to the
theory that God gave us two ears and one mouth to be used in that proportion.
 For the better part of every day in the past week, I have been active on HF,
and have monitored the messages being sent on 101515.  For the life of me, I
can't figure out what Brother Nolle is talking about, with *screens and
screens* of messages being ported from HF to VHF making his life miserable.

In the past week, I have learned a lot about propogation, and the lack of it
for the most part, the 10.1515 frequency was seldom very busy except for the
early evening hours.  Perhaps it was holiday inactivity.  But I would rather
see some of the *screens after screens* of messages that Brother Nolle was
talking about (yes Bill, you may copy them and send them to me) before
jumping on his bandwagon and making a rash judgement that might turn
potential APRSers away.

Perhaps his station is seeing multiple GATES, that are causing duplicate
packets to be received at his location.  But from where I sit receiving,
<IMHO> there just isn't THAT much activity and there are far greater problems
to worry about than this.

Bill, I am trying not to let the way you are delivering your message get in
the way of what I think you are trying to say, but sometimes it sure is hard.

73,
Jay KD1LY
JayMillard@aol.com
```

---

60. MIM Picture

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jan 1996 22:55:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960103224722.12119A-100000@greatlakes>
Rendered body type: text/plain

```
We just took a picture of the new APRS MIM module.  This is the
tiny telemetry/GPS/Beacon/CW-ID AX.25 transmitter.  The file named
MIM.tif was zipped up to MIMTIF.zip and posted on the ARN BBS 410-280-2503.
I tried to FTP it to tapr, but my provider only accepts KERMIT uploads
and they wont work on this file.

Would the first person that gets it and FTP's it to tapr, let us know.

ALSO, I am building a distro list of all WEB MASTERS that maintain an APRS
web page.  I have ruf,wilkins,mark,keith,gerald and ku0g.  If you maintain
an APRS web page, let me add you to my list.  I dont have the email addr for
ku0g.  TNX.
```

---

61. hf-vhf gates

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Wed, 3 Jan 1996 22:23:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601040423.WAA12891@uxa.ecn.bgu.edu>
Rendered body type: text/plain

```
Boy! I'm kinda envious of the stations that have so much activity on vhf
that the hf gates are flooding them. Here where I am, I dont see any
vhf activity unless there is a good 2M band opening.
I have been listening to 30M just to see what APRS is doing elsewhere
and I enjoy seeing a mobile once in a great while moving on the screen.

I think its pretty much common sense if you are at a QTH, you dont need
to gate your position anywhere. Leave that to the mobiles so we can all
```

enjoy their travels.

73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

---

62. Re: [APRSSIG:5623] HF gates

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 4 Jan 1996 11:53:24 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104115140.14873A-100000@pinegov>
Rendered body type: text/plain

On Mon, 1 Jan 1996, William Nolle wrote:

> Boy here we go again, we have the HF Gate abuser back in our area
> W7LUS. This morning in 1 hours time there was messages from HF to VHF
> totalling 14,123K, tell me this is not abusing the following:
>
> GATE was designed for HF Boats & Mobiles to relay their movements back
> home onto VHF. The NET will choke if VHF'ers use it.
>
> Well i have news for them whenever i see a gate open now i will enter
> WIDE,GATE,GATE,WIDE in my path. I have keyboarded with several VE3
> stations on HF, what's good for one is good for all i guess. I
> unregistered from the sig but couldn't pass up posting this.
>
> Bill KE4EER
>
>

Bill, you are sadly mistaken in this area, Peter, W7LUS, is only an HF
digipeater...he discontinued gating months ago....if his callsign is in
the path...the Gate is somewhere else....probably in Athens....

73 de KD4UYR

---

63. Re: [APRSSIG:5665] hf revisited

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 4 Jan 1996 12:18:28 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104121617.14873F-100000@pinegov>
Rendered body type: text/plain

On Wed, 3 Jan 1996 KD4EMI@aol.com wrote:

> Ok, now we are going somewhere with this gate issue.
>
> In defense of some operators, and we know who they are, who qso
> through gates, etc, this really a problem.
>
> In S. FL we have a very active net with some people who set their
> beacons to xmit alot !
> Combine this with the HF gate qso's and the # of stations on our freq,
> this really slows down things...
>
> Now, we all want to be good operators, and Im sure that the guy
> who we are talking about wants to be one too...
> MAYBE, just maybe, he doesnt realize that he should set his unproto
> to the callsign of the HF gate of the guy that he;s talking to on HF.
> Then, not every gate in the US will grab his acks and qso data.
> Isnt this simple...IF your on HF, just change your UNPROTO PATH
> from gate,wide to <CALLSIGN OF GATE STATION, WIDE >
> then we all dont have to hear abt the complaining.
> I'll bet he isnt on this sig (I dont think he is)
> Why dont we remind him that the above method would make
> everyone happier...?
> Im sure he would want to do the right thing ..?!
>
>

Well, that is the basic problem isn't it Mike....unlike digipaths, you
cannot set the GATE call in the path...the KAM only has one slot for the
gate call...that is either an alias or a callsign -ssid combo...not both.

I like BOB's idea...GATEx with x detailing a specific path....simple
enuff to change on the fly if you are mobile but specific enough to
prevent QRM to the whole nation.

73 de Kevin KD4UYR

64. (no subject)

From: Bob Mandeville <mandevil@battelle.org>
Date: Thu, 04 Jan 1996 08:08:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9600048207.AA820772161@ccmailgw.im.battelle.org>
Rendered body type: text/plain

Good morning. Name here is Bob, N1EDM. I am interested in APRS and saw a BBS msg from W4VIW saying that his BBS at 864-299-6185 had APRS 7.04C on it. Unfortunately, I am unable to connect to this BBS, as the phone number appears to be incorrect.

Could you please advise me what the latest version of APRS is, and where I could download a copy from? Thanks. There appears to be a few folks in my area who are already on it and I wanted to see what it was all about. Thanks for your help.

Bob
mandevil@battelle.org

65. Re: [APRSSIG:5663] Re: AEA setup for APRS PK-232

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Thu, 4 Jan 1996 09:52:05 +0000
To: aprssig@tapr.org
Message-ID: <199601041453.JAA07514@hemisphere.neocomm.net>
Rendered body type: text/plain

I use an AEA PK-232 and have added a switch to the backup battery jumper, which is located through an access hole, underneath the PK-232. Pakrat and other AEA software automatically sets the PK-232 into propritory "HOST MODE", to leave this HOST MODE the manual says Turn off tnc, Remove all power, Remove backup battery jumper, wait several minuets, Replace jumper. This procedure does indeed get you out of the proprietory "HOST" mode. Now you can run most any standard ascii terminal program such as APRS! Once you run "Pakratt" again you will have to repeat the above procedure, in order to run other programs. Since I experimented with lots of different packet programs I added a switch to the backup battery jumper (it plugs in place of the jumper) now I don`t have to turn the tnc upside down to disconnect the battery. An even better solution is to not use "Pakratt at all, I suggest Packet6.1, its the most versital program I have used. Hope this helps another experimenter...Chas
cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

66. Re: [APRSSIG:5668] Re: HF abuse

From: dmobley@encore.com (Dennis Mobley)
Date: Thu, 4 Jan 1996 09:56:07 EST
To: aprssig@tapr.org
Message-ID: <27027.9601041456@maxis.encore.com>
Rendered body type: text/plain

<<SNIP>>
} I still feel that it is fine for a VHF station to gate onto HF with
} position and weather reports, those are what I like APRS for. It would be
} nice to have better support for different VHF and HF paths, I know
} MacAPRS now supports different beacon freqs for HF and VHF, although I'd
} like to see a way for the VHF only user to enter different freqs for a
} path with GATE and a VHF only path, but that will come from Keith and
} Mark eventually.
}

I second this motion!!

On the KAM+ I have found that I can set the different UNPROTO path for HF and VHF in terminal mode.
Just don't give MacAPRS a UNPROTO path and it will work.

Problem, you can't change a path once MacAPRS is running or both paths are modified.

This is an issue when you want to lower the QRM on a local VHF QSO

```
by going direct or using specific digi's.


} The bottom line as I see it is that everyone is free to do what they
} want, and we all have to give people the room to do that. If something
} they are doing annoys us, we can try to educate them, but ultimately the
} only solution is to use the off switch. Personal attacks accomplish
} nothing.
}
} Steve, KO4HD
}
}-- End of excerpt from Steve Dimse

I aggree 100%....

73 de Dennis Mobley KT4FI
Sunrise, FL [EL96]
```

---

67. Re: AEA setup for APRS

From: Penn M McClatchey <pmm@safn2.saf.com>
Date: Thu, 4 Jan 96 9:48:03 EST
To: aprssig@tapr.org
Message-ID: <9601040948.aa18375@safn8.saf.com>
Rendered body type: text/plain

```
>Date: Tue, 02 Jan 1996 15:53:31 -0500
>From: jkerns@usit.net (jim kerns)
>Subject: Re: AEA setup for APRS
>
>>Several friends have ask how to initialize their AEA TNCs for APRS.  They have
>>had to run the Pakrat program to first set up their TNC before loading APRS.
>>                                              gfuller@netcom.com
>>Gordy, I have been using 232MBX on APRS for a yr or so and always have to
>run PCRATT first to set tnc nito packet, then exit and go to APRS blue
>screen. O-C-T
>Then set hbaud 300  then vhf off (for 30 meters.)  or for 2 meters, just run
>APRS and tnc as is once I inialize tnc with pkratt.

I have to do this also.  I am using a 232MBX with PCPakratt.  I
also have never been able to wake up the 232 from within APRS.
If anyone knows of an easier way to initialize the 232 for APRS,
please let me, Gordy and Jim know.

73 de Penn

Penn M. McClatchey (Southern Aluminum Finishing Co, Atlanta, GA, USA)
Architectural Aluminum. Custom Fabrication. Paint, Powder Coating, Anodizing.
pmm@saf.com   Amateur Radio WB4DPT   Voice: 404-355-1560,ext231
```

---

68. [APRSSIG:5681]

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Thu, 4 Jan 96 09:25:00 -0600
To: APRSSIG@tapr.org
Message-ID: <59.49274.99.0C38ED8F@drig.com>
Rendered body type: text/plain

```
->    Good morning.  Name here is Bob, N1EDM.  I am interested in APRS
-> and
->    saw a BBS msg from W4VIW saying that his BBS at 864-299-6185 had
-> APRS
->    7.04C on it.  Unfortunately, I am unable to connect to this BBS,
-> as
->    the phone number appears to be incorrect.
->
->    Could you please advise me what the latest version of APRS is, and
->    where I could download a copy from?  Thanks.  There appears to be
-> a
->    few folks in my area who are already on it and I wanted to see
-> what it
->    was all about. Thanks for your help.


Bob,

Welcome.   If you have   FTP access on the NET,
ftp to:


ftp.drig.com   /pub/aprs
```

```
and aprs74e.zip   is there.

Or dial the outside  line at 214-492-7057 and you will be able
to download the file for free.

Regards,

jeff n5itu
```

---

69. Re: [APRSSIG:5665] hf revisited

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 11:06:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104105042.15358B-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 3 Jan 1996 KD4EMI@aol.com wrote:

> Combine this with the HF gate qso's and the # of stations on our freq,
> this really slows down things...

APR COMMENT:  I dont see how a maximum of 11% HF burden on your local VHF
network can "really slow things down".  Our East Coast network
extends over 8 states.  YES, the HF is the majority of what we see too,
BUT it is still less than 11% of our channel capacity!
WITHOUT THE HF traffic, we would be lucky to see 10 VHF messages a day!
The local VHFers here keep their chats local

> MAYBE, just maybe, he doesnt realize that he should set his unproto
> to the callsign of the HF gate of the guy that he;s talking to on HF.
> Then, not every gate in the US will grab his acks and qso data.

APR REPLY:  Again, there is a failure to understand how GATEs work.  Only
the GATE callsign will gateway.

In my opinion, I am happy to see the HF'ers using APRS on a daily basis. The
more they use it the more prepared we are during a crisis.  Again, the
place to control HF gateway traffic in YOUR area is to control YOUR LOCAL
GATE.  If you cannot live with allowing HF packets to share 11 % of your
local network, then get your LOCAL APRS users to agree to turn OFF your gate.
```

---

70. Re: [APRSSIG:5666] HF GATES AND ALIAS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 11:13:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104110719.15358C-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 3 Jan 1996 KD4EMI@aol.com wrote:

> I think Bobs idea is too complicated, though it would be an effective
> way to organize the paths.

WB4APR REPLY COMMENT:

I agree.  My porposal was to allow for all future possibilities.  For now
I would prefer the following:

GATE    for 10 MHz (can become GATE10 later on if needed)
GATEDX  for 14, 18, 24, 28 MHz
GATELO  for local (can be expanded to GATE7, GATE3 or GATE1 if desired)

In any case, I want the SUFFIX to contain the details, so I can just
search for GATExx in the software.  I also agree, that 9600 baud GATES
can simply gate everything since the bandwidth is  there...
```

---

71. Re: Use of APRTRAK

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 11:33:10 -0500 (EST)
To: "Ron Seiler <RGSEILER@BCSC02.GOV.BC.CA>" <RGSEILER@BCSC02.GOV.BC.CA>
Cc: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960104111403.15358E-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 3 Jan 1996, Ron Seiler <RGSEILER@BCSC02.GOV.BC.CA> wrote:

> I tried APRTRAK a few days ago by going through MIR.  I immediately
> attracted the attention of N6JLH who connected to me and told me
```

> that no APRS was allowed through MIR. Why is this?

REPLY: Lack of understanding. Some stations think MIR is their own private mailbox. BUT don't seem to complain about the bazillions of connect requests which actually take up MORE bandwidth. In fact recent AMSAT articles actually ecourage EVERYONE to try to CONNECT with MIR!
They dont understand that if EVERYONE sent the simple APRtrak UI packet instead of trying to CONNECT with MIR, that the actual loading on the channel would go DOWN and access to the PBBS would be BETTER for those needing it. Plus the automatic QTH plotting of the packets that DO get digipeated have greater educational value than all of the DISCONNECT BUSY packets that you see now..

But you cant argue with those who don't understand and are stuck in the 1970's dumb terminal mode...

---

72. Re: [APRSSIG:5669] Re: Internet APRS Gateways

From: cts@direct.ca (Fred Kehler (ve7ipb))
Date: Thu, 4 Jan 1996 08:37:38 -0800
To: aprssig@tapr.org
Message-ID: <v0151010ead11b1dcda1e@[204.174.238.2]>
Rendered body type: text/plain

>I have a program currently working on the Mac which allows a serial port
>to be used over an EtherTalk network by multiple programs. I am in the
>process of adding TCP/IP support. This will allow any internet user to
>hook into any TNC output stream, and even to completely link LANs. There
>is no need for any special protocols, it is simply a stream of characters
>in each direction, would be easy for someone to write a WinSock version.
>If anyone has the knowledge and desire to do this, let me know so we can
>test our version together. BTW, the socket number I'm using is
>14579...wonder why I picked it???
>

excellent, this would allow the full routing power of the internet to deliver aprs between gateways or allow monitoring of the remote APRS by anyone on THE NET

are you planning on posting your work?
cheers

# Fred Kehler   Clearbrook Technical Services Ltd   voice 604 850-3010
# Internet: cts@clrtech.com. Amateur Radio TCP/IP: ve7ipb@ve7ipb.ampr.org.

---

73. Re: No GATEs on VHF pse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 11:48:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104113544.15358F-100000@greatlakes>
Rendered body type: text/plain

On Wed, 3 Jan 1996, William Nolle wrote:
> Right Bob, the theory sounds great, but when sitting in front of my
> monitor and seeing nothing but messages (I'm talking nothing but) from Hf
> users it gets frustrating and makes me wonder why are they using VHF at all.

WB4APR REPLY COMMENT:

The HFers are not using VHF necessarily to irritate you. They are using HF the way we had planned on it being used. If you dont like seeing HF traffic, You have several means totally within your control to solve your problem.

1) Use the APRS CONTROLS-FILTERS-GATE command to tell APRS to not accept any gatewayed traffic
2) Set BUDLIST OFF in your TNC to the HF'ers that you find so objectionable
3) Get LOCAL agreement to turn off your LOCAL gateway station. He is providing the GATE as a service to your LOCAL net. If your local area doesn't want the service, turn it off.

For HFers: Never use anything beyond GATE,WIDE, unless you have a specific purpose in mind. This is VERY important, since it keeps the HF traffic introduced on VHF within the SAME local area as the GATE station.

If you are just rag chewing with no special interest to all the other VHFers out there, you might consider dropping the VHF path.

---

74. Re: [APRSSIG:5683] Re: HF abuse

From: ke4eer@ro.com (William Nolle)
Date: Thu, 04 Jan 1996 10:51:28
To: aprssig@tapr.org
Message-ID: <199601041658.KAA08747@sh1.ro.com>
Rendered body type: text/plain

I agree with part of this. But tell me WHY should i use the OFF SWITCH as this person suggests. I have been using APRS since it's inception and fought hard (Yes fought) to get 145.790 coordinated trough the proper channels. Why should i be the one to turn off my system. Of course this will NEVER happen. At least i'm confident in my use of this frequency in that it is coordinated and have a right to use it for APRS or any other packet related modes. So to the person that made this suggestion i have to say if you don't like me using gate in my VHF path then turn off your switch. And by the way you call this a personal attack, why is this just because i simple name the persons call that get's right on the frequency and calls me crazy and some other fine names. I can take your message as a personal attack also!.

Bill KE4EER
ke4eer@ro.com

--------SNIP--------
>
>} The bottom line as I see it is that everyone is free to do what they
>} want, and we all have to give people the room to do that. If something
>} they are doing annoys us, we can try to educate them, but ultimately the
>} only solution is to use the off switch. Personal attacks accomplish
>} nothing.

---

75. Re: [APRSSIG:5668] Re: HF abuse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 11:54:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104114947.15358G-100000@greatlakes>
Rendered body type: text/plain

On Wed, 3 Jan 1996, Steve Dimse wrote:

> I still feel that it is fine for a VHF station to gate onto HF with
> position and weather reports, those are what I like APRS for. It would be
> nice to have better support for different VHF and HF paths, I know

WB4APR REPLY COMMENT:

Yes, but no more than ONE wx report per state please on 10 NHz. Or at least every 256 miles. And then make the WX report rate ONCE per 30 minutes. Detailed WX is of LOCAL interest only. National trends are nice to see also, but nothing of NATIONAL significance changes in 30 minutes..or 256 mi.

If you want a SATEWIDE WX reporting net, then put it on 40 meters.

---

76. High Gain Beams

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 12:12:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104115810.15358I-100000@greatlakes>
Rendered body type: text/plain

On Wed, 3 Jan 1996, Chuck Grant wrote:

> these PHG circles are nearly completely useless representing any kind of
> reasonable beam antenna.

APR REPLY: I agree, especially when 90% of HAMS do NOT understand HAAT!. But APRS, designed to be a distributed NETWORK, in general has no need for high gain BEAMS. Maybe I am missing something. What is the value of a BEAM when you can hit the local WIDE with 1 watt into a ground plane? (The DF function is handled differently and is not relavant to this discussion)

> To really plot the pattern, I think you need (in addition to nearby terrain
> features which a mapping/database program can provide) at least:
> Power, Antenna height above ground, alititude of the local ground,
> antenna gain, antenna beamwidth, and beam direction.

APR REPLY: Height above ground, and height of ground are nicely already accounted for in HAAT. Antenna gain and beamwidth are synominous; if you know one, you can calculate the other (unless the thing has hopeless sidelobes) So, my PHG format still does what I want. I AGREE WITH YOU

```
that my CIRCLEs limitation does NOT do well with high gain BEAMS.

What is the application for HIGH gain beams?
```

---

77. Re: [APRSSIG:5673] HELP!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 12:17:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104121503.15358K-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 3 Jan 1996, ROBERT R. OTTO wrote:

> The system ran fine till I installed the Ultimeter 2000 and APRS74E.

WB4APR REPLY COMMENT:

IT IS BROKE.  IM WORKING ON IT. APRS on *SOME* PC's (usually the
more modern and faster ones) is LOCKING up with the U-2000.  Ill let
you know as soon as I have a solution.  SPREAD the word.
```

---

78. Re: [APRSSIG:5681]

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 12:27:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104122532.15358N-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 4 Jan 1996, Bob Mandeville wrote:

>      Could you please advise me what the latest version of APRS is, and
>      where I could download a copy from?  Thanks.  There appears to be a

WB4APR REPLY COMMENT:

Latest is still 74e and NOTHING works well with the ULTIMETER-2000 yet.
ALL else is OK.  Get from 410 280-2503. or FTP from tapr.org in the
tapr/SIG/aprssig/upload directory...

Also get the maps for your area and use PKUNZIP -d for all APRS distro
zip files.
```

---

79. Re: [APRSSIG:5682] Re: AEA setup for APRS PK-232

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 12:34:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104123330.15358Q-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 4 Jan 1996, Charles W. Davidson wrote:

> Pakrat and other AEA software automatically sets the PK-232 into
> propritory "HOST MODE", to leave this HOST MODE  the manual says
> Turn off tnc, Remove all power, Remove backup battery jumper, wait
> several minuets, Replace jumper. This procedure does indeed get you
> I added a switch to the backup battery jumper (it plugs in place of

WB4APR REPLY COMMENT:

Much simpler to just choose the Pakrat option that exits Pakrat
WITHOUT leaving it in HOST mode.
```

---

80. Re: [APRSSIG:5656] 440 APRS Freq?

From: horzepa@gdc.com (Stan Horzepa)
Date: Thu, 4 Jan 1996 12:40:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <9601041740.AA08912@mailhost.gdc.com>
Rendered body type: text/plain

```
Hello Jess,

> A friend, Paul Danzer, n1ii, asked me whether there is an "official" 440
> frequency for APRS in the NY/NJ/CT metropolitan area. I know someone
> (k1trs maybe? I can't remember here at the office) is beaconing that he's on
> 440 in the Hartford area but I don't recall anything official down
> towards the NYC metro area. Can someone add anything to this?

I believe that K1TRS is using 445.925 and according to the latest ARRL
```

```
book entitled "Practical Packet Radio," that is the "national APRS
operating frequency" for 440 MHz. I doubt if there is anything more
"official" than that for the Trying-State area.

73,

Stan, WA1LOU
--
Stan Horzepa                      ~   phone:           203-758-1811 x7369
Technical Writing Supervisor      ~   email:               horzepa@gdc.com
General DataComm (MODEMS 'R' US)  ~   radio:                        WA1LOU
P. O. Box 1299                    ~   packet radio mail:      WA1LOU@N4GAA
Middlebury, CT 06762-1299         ~   TCP/IP packet radio:       44.88.4.8

~~~~~~~~~~~~~~~~~~~~~~~~~~~ What! - Me Worry? ~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

---

81. Re: [APRSSIG:5691] Re: HF abuse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jan 1996 13:34:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104133209.17672C-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 4 Jan 1996, William Nolle wrote:

> I agree with part of this. But tell me WHY should i use the OFF SWITCH as
> this person suggests. I have been using APRS since it's inception and fought
> hard (Yes fought) to get 145.790 coordinated trough the proper channels.
> Why should i be the one to turn off my system. Of course this will NEVER

WB4APR REPLY COMMENT:
No one is asking you to turn OFF, just set the GATE filter so you dont
see the HF traffic.
```

---

82. Gates again

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Thu, 04 Jan 1996 12:25:00 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960104182500.006c8670@144.188.134.33>
Rendered body type: text/plain

```
>
>I guess I'm confused (which is nothing new) but I thought that GATE was to be
>used in an HF path but not in a VHF path.
>If a VHF station puts Gate in his path and there is no VHF station with Gate
>as one of his alias's nothing is going to happen Right?
>Next question is;  If there is a mobile,lets say a RV'er who is operating on
>VHF but would like to get his position shown, to the folks back home,
>Shouldn't he be able to use GATE?
>Seems to me that it all comes down to the old story about being a ham and
>showing SOME responsibility for ones actions!
>APRS is a GREAT program both as a tool and as a toy.  Lets not spoil it by
>getting into the old quibble mode. ACT YOUR AGE and have fun.

Keep in mind that the word GATE is the MYGATE alias of a tnc that
(presumably) has an hf and vhf radio connected to it. Whenever it sees the
word GATE next in the unproto list, it will digipeat it on the OTHER radio
port. Thus if there is no tnc with a MYGATAE of GATE, it will not get
"gated". That is not to say that someone couldn't set a digi alias (MYALIAS,
MYCALL, MYNODE) to GATE and thus act as a simple digi (on the same port).
(This would be unlikely but possible.)

As far as who should use it....Well yes I like to agree that we are all
mature and can cooperate. And I suspect that a vast majority of APRS users
are and do. The issue comes down to communication, understanding and
cooperation. Anyone can and should be able to use a gate. Just keep in mind
that when you do you are taking up at least 4 times the time of a vhf slot
on a single nationwide party line we call 30m APRS. If you have something
that you honestly think is of interest to people outside your local area,
then chances are high that other people will agree. If your message is
intended for a specific station and the only way to get there is via hf,
then do it! But keep in mind that when on a part line, there is a limit to
how long other people are willing to listen to your private conversation!
Todays complaints seem to be coming from people (myself included) who are
now getting tired of houses that don't move and personal conversations that
drag on and on with improperly or carelessly set unproto paths.
```

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)

---

83. Re: [APRSSIG:5686] Re: hf revisited

From: ke4eer@ro.com (William Nolle)
Date: Thu, 04 Jan 1996 13:01:02
To: aprssig@tapr.org
Message-ID: <199601041908.NAA13868@sh1.ro.com>
Rendered body type: text/plain

```
That a great idea if there was a way for all of us to know for sure WHO the
local gate is, they for some reason want to hide the fact that they are the
gate in the area. How far does a user running an HF gate have to be, when
you say local (What does local meen)?. Bob says CRISES wel i have explained
the crises we had here in North Alabama and in fact the HF gates screwed
the use of it with our local RED+.

KE4EER
--------------
>In my opinion, I am happy to see the HF'ers using APRS on a daily basis. The
>more they use it the more prepared we are during a crisis.  Again, the
>place to control HF gateway traffic in YOUR area is to control YOUR LOCAL
>GATE.  If you cannot live with allowing HF packets to share 11 % of your
>local network, then get your LOCAL APRS users to agree to turn OFF your gate.
>
>
```

---

84. How many gates

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Thu, 04 Jan 1996 13:08:55 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960104190855.006ffa40@144.188.134.33>
Rendered body type: text/plain

```
> 1) GATE to be used as we have in the past and
>2) LGATE (local gate) for the "state wide" other frequency gates.  GATE
would be
>used for 30 M thru 10 M (DX frequencies) and LGATE for 80 and 40 M.  This
would
>allow a mobile to set the TNC once (especially if stand alone) and still be
>seen.

This is certainly a point. Mobiles should not be required to know anything
about the area they are going into, after all much of the time they don't
know. On the other hand 30m is good wide area freq., 40 or 80 m might be
good semi-local band (2m is local). In addition it would be nice to be able
to specify an "APRS regional 9600 baud network" as a path. One should be
able to specify nationwide vs. semi-local, vs local, and maybe even choose 2
of the 3. Hum, this is hard.

Idea: Does APRS need multiple unproto paths like the Kantronics kpc-3 tnc
has multiple paths when in LT/GPS mode? Flame away!
Paul Moller
Motorola CSG
708-523-5210
Motorola pager #7378
```

---

85. Re: [APRSSIG:5690] Re: No GATEs on VHF pse

From: ke4eer@ro.com (William Nolle)
Date: Thu, 04 Jan 1996 13:09:43
To: aprssig@tapr.org
Message-ID: <199601041917.NAA14247@sh1.ro.com>
Rendered body type: text/plain

```
Again that's great Bob, but how do i know who the local gate is??????
And i disagree with the fact that this was the way you designed it, at least not
according to the NAG message?. I know that it's not anyone doing this to
agrivate anyone but that doesn't help it any.

Bill KE4EER
-------------------

>WB4APR REPLY COMMENT:
>
>The HFers are not using VHF necessarily to irritate you.  They are using
>HF the way we had planned on it being used.  If you dont like seeing HF
>traffic, You have several means totally within your control to solve your
>problem.
```

```
>
>1)  Use the APRS CONTROLS-FILTERS-GATE command to tell APRS to not accept
>    any gatewayed traffic
>2)  Set BUDLIST OFF in your TNC to the HF'ers that you find so objectionable
>3)  Get LOCAL agreement to turn off your LOCAL gateway station.  He is
>providing the GATE as a service to your LOCAL net.  If your local area
>doesn't want the service, turn it off.
>
>For HFers:  Never use anything beyond GATE,WIDE, unless you have a specific
>purpose in mind.  This is VERY important, since it keeps the HF traffic
>introduced on VHF within the SAME local area as the GATE station.
>
>If you are just rag chewing with no special interest to
>all the other VHFers out there, you might consider dropping the VHF path.
>
```

---

86. AEA PK-900

From: Truman Boerkoel <truxenia@erinet.com>
Date: Thu, 04 Jan 1996 14:09:50 -0500
To: aprssig@tapr.org
Message-ID: <199601041914.OAA29245@eri1.erinet.com>
Rendered body type: text/plain

```
Has anyone had any success in using the PK-900 with APRS74E?

I have tried adding into the C:\APRS\SYSTEM\INITAEA.TNC the following lines

MON 2/2
MODEM 10/4
CHSWITCH $7C
|A
HBAUD 300/1200
VHF OFF/ON

Are there any further comments/suggestions or thoughts for the PK-900?

Vry 73 de Tru K8JUG

truxenia@erinet.com
```

---

87. Re: [APRSSIG:5667] Re: No GATEs on VHF pse

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Thu, 04 Jan 1996 14:50:12 EST
To: <aprssig@tapr.org>
Message-ID: <04JAN96.16023662.0041.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
Hi all im not going to incude any of the past mail on this sub to
save ur time!
i think that the real problem hear is that hf users should also
stay off of vhf unless they have a reason!
iewx or position reports
dont set ur path to gate,wide,wide if ur on hf and just chating
with ur bud's that is just taking up band width from coast to coast!
point 2 if ur a vhf mobile use the alt digis comand to
limmit the # of packets u send out on hf.
if ur using a stand-alone tracker use a pos rate of at max 30min to hf

thanks just a few unorganized thoughts!
Lynn N4YCI
```

---

88. Re: [APRSSIG:5653] Re: Re: hf abuse

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Thu, 04 Jan 1996 14:54:58 EST
To: <aprssig@tapr.org>
Message-ID: <04JAN96.16109662.0041.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
Bob and all others in volved in gate topic!
i think that a 6m gate funtion should be included as well
in ur plan.
just a suggestion
Lynn N4YCI
```

---

89. RE: High Gain Beams

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 4 Jan 1996 14:23:52 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3960104142352ES005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

```
----------
From:   Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent:   Thursday, January 04, 1996 11:27 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:5693] High Gain Beams

.       I AGREE WITH YOU
.       that my CIRCLEs limitation does NOT do well with high gain BEAMS.
.
.       What is the application for HIGH gain beams?
```

The main application for high-gain beams within APRS (IMHO, of course) is for UHF gateways and/or linking two almost-close metro areas without having to use HF. As an example, WIDEs in Chicago and Milwaukee (90 miles apart) can't reliably hear each other all the time (not WIDE enough - hi hi.) Adding a high-gain beam to a Milwaukee WIDE and to a Chicago WIDE, both beams pointing at one another, could allow the WIDEs to hear one another better and possibly relay traffic between the areas without HF usage. Of course, a better solution would be a 9600-baud (or greater) UHF (maybe) GATE, like the UGATE (or was it GATEU...) that Bob suggested.

Anyway, FWIW, that's my high-gain beam application. Of course, there's no need to represent the pattern from such an antenna graphically via APRS IMO, so the whole point of circles not being applicable isn't very relevant.

73 de KB9JTT

---

90. Re: [APRSSIG:5631] Re: MFJ-8621 Crystals

From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Date: Thu, 4 Jan 1996 15:49:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9601041504.A13467-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
On Tue, 2 Jan 1996, William Richarz wrote:>
> Hello Terry,
>
> Just wondering what they did for you to get your radio on frequency?  They
> sent me another crystal, but is just like the first one, too low in
> frequency.  Let you know how they try to solve my problem again...
>
> Thanks, 73 de Bill WA4VAF
>
>
> ==========================================================================
> Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
> 10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.CLT.NC.USA.NA
> Charlotte, NC 28227                | Phone   : (704) 545-9368
> ==========================================================================
>
>
```

Hello, Bill... The folks at MFJ are trying to make the 8621 Data-only radio workable at the APRS frequencies. First, there are two versions of the receiver, and you could possibly have the earlier version that would not go higher than about 145.09. I believer MFJ's method of determining the receiver version is by the color of the coil holder that has the slug for setting the receive crystal. My radio was misaligned, and has been set by both MFJ, and checked by Rick Littlefield, the product designer. I haven't checked it out yet, but will really soon. I believe that Rick has suggested a change in the 8621 manual detailing a different method for netting the receive crystal.

The first method they suggest is using a precision signal generator, but no details as of yet on this exact procedure. An alternate signal source is a synthesized 2M radio set to low power and use of a dummy load. Yet another method is to use a counter connected to pin 3 of the receiver chip, which is a buffered receiver output. The slug in L4 can be set so that the counter is reading 10.7 MHz below the desired operating frequncy. (Counter in MHz = Operating Freq in MHz - 10.7 MHz)

So, I guess I would be using this last method if mine was not aligned by the 'powers at be'. I'll have to experiment to see how this all works. In any case, I think this will be an improvement over the original method published in the manual, as there are several people who have had trouble with this procedure.

Mr. Jim Shurden, KB5JNZ, at MFJ is the contact for any 8621 problems. He is very familiar with my radio and is very knowledgeable with the new alignment procedure. I might add that Jim, and his predecessor, Brian Bishop, have been extremely helpful with my problem.

It seems to me that the MFJ 8621 is an extremely good candidate for anyone wanting a good, relatively inexpensive, dedicated radio for APRS, or other 1200 B or 9600 B Packet operation.

Terry Taylor, WB5JFM
a010717t@bcfreenet.seflin.lib.fl.us

---

91. Re: W7LUS

From: ke4eer@ro.com (William Nolle)
Date: Thu, 04 Jan 1996 15:27:22
To: aprssig@tapr.org
Message-ID: <199601042134.PAA20984@sh1.ro.com>
Rendered body type: text/plain

Either that George or Peter (W7LUS) is a very fast driver Hi..

Bill KE4EER

```
---------------------
>      Today I was hearing W7LUS-14 direct (with a truck icon) and thru
>     RELAY.  His GPS $RMC string placed him in the NW Houston area.  I
>     tried to send him a message but it did not get acked.   I watched him
>     for about 5 minutes then his $RMC suddenly put him in South Florida!
>
>      I re-checked his digi path and I WAS hearing him *DIRECT* and thru
>     RELAY.  I received several postits from him placing him in Florida
>     after that.  I don't know what's going on with his mobile station, but
>     I think his GPS needs work, or it lost its fix and reverted to its
>     "normal" powerup position.
>
>      Anyway, I guess he does not have a computer in his truck because he
>     didn't get my message.  I was hoping I could rag on him in MY neck of
>     the woods without having to go thru the GATE...
>
>      It seemed kind of ironic to see him in the Houston area...
>
>     73's
>
>        \\//
>        (..)
>    -ooO-(_)-Ooo---------------------------------------------------------
>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>    -------------------------------------------------------------------
>
```

---

92. Re: [APRSSIG:5693] High Gain Beams

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Thu, 4 Jan 1996 14:23:15 -0800
To: aprssig@tapr.org
Message-ID: <199601042223.OAA15515@aretha.llnl.gov>
Rendered body type: text/plain

> From: Bob Bruninga <bruninga@nadn.navy.mil>
>
> ... Antenna gain and beamwidth are synominous; if you
> know one, you can calculate the other (unless the thing has hopeless
> sidelobes) So, my PHG format still does what I want.

This is entirely wrong. The beamwidth in the horizontal and vertical directions can be completely independent. The gain can be calculated from BOTH beamwidths, but the horizontal beamwidth is the only one significant to plotting coverage patterns (for VHF and up anyways).

You need at least two of the three values Gain, H-Beamwidth, V-beamwidth to plot the pattern. If you are making an assumption about the v-beamwidth (either v-beamwidth = h-beamwidth or v-beamwidth = constant) then that assumption will be wrong sometimes, probably wrong a lot.

Chuck

ex. What is the gain of a horizontally omni-directional antenna?
ie. H-Beamwidth = 360. Answer: it can not be calculated only from the H-beamwidth. It could be anything.

93. Unrecognized recipient in message

```
From: tsxbbs.smtp.mail.tosser@nashville.com
Date: Thu, 4 Jan 96 16:40:36
To: aprssig@tapr.org
Message-ID: <199601042245.QAA20150@sys1.tapr.org>
Rendered body type: text/plain
```

```
You recently sent a message to mark.endicott@nashville.com which could not be
delivered.  There is no person with this name at The Nashville Exchange BBS
615-383-0727.  Typically, this is the result of a slight misspelling or the
omission of a period between the first and last names.  Your message was
delivered to the mail clerk, Ben Cunningham, since your intended recipient was
not recognized.
```

---

94. Re: [APRSSIG:5683] Re: HF abuse & KAM+

```
From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Thu, 4 Jan 1996 14:50:51 -0800
To: aprssig@tapr.org
Message-ID: <0ec5b4d0@ccgate.berlex.com>
Rendered body type: text/plain
```

```
Solution for KAM+

If you issue the command unproto APRS(M) via HFPATH/APRS(M) via VHFPATH you can
set both paths to different paths and simultaneously.

When I gate on 40 (which is rare) I use:

UNPROTO VIA APRSM VIA GATE,WIDE/APRSM VIA W6CX-3,WIDE

and I set mygate to GATE

73, de Sam, KO6JR
Packet: KO6JR@KA6FUB.#NOCA.CA.USA.NOAM
Internet: Sam_Lipson@Berlex.Com
!3759.23N/12205.13WM

______________________________________________________________________________
Subject: [APRSSIG:5683] Re: HF abuse
From:    aprssig@tapr.org at Internet
Date:    01/04/96  09:07

<<SNIP>>
} I still feel that it is fine for a VHF station to gate onto HF with
} position and weather reports, those are what I like APRS for. It would be
} nice to have better support for different VHF and HF paths, I know
} MacAPRS now supports different beacon freqs for HF and VHF, although I'd
} like to see a way for the VHF only user to enter different freqs for a
} path with GATE and a VHF only path, but that will come from Keith and
} Mark eventually.
}

I second this motion!!

On the KAM+ I have found that I can set the different UNPROTO
path for HF and VHF in terminal mode.
Just don't give MacAPRS a UNPROTO path and it will work.

Problem, you can't change a path once MacAPRS is running or
both paths are modified.

This is an issue when you want to lower the QRM on a local VHF QSO
by going direct or using specific digi's.


} The bottom line as I see it is that everyone is free to do what they
} want, and we all have to give people the room to do that. If something
} they are doing annoys us, we can try to educate them, but ultimately the
} only solution is to use the off switch. Personal attacks accomplish
} nothing.
}
} Steve, KO4HD
}
}-- End of excerpt from Steve Dimse

I aggree 100%....

73 de Dennis Mobley KT4FI
Sunrise, FL [EL96]
```

95. Re: [APRSSIG:5693] High Gain Beams

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Thu, 4 Jan 1996 15:15:56 -0800
To: aprssig@tapr.org
Message-ID: <199601042315.PAA15616@aretha.llnl.gov>
Rendered body type: text/plain

> But APRS, designed to be a distributed NETWORK, in general has no need
> for high gain BEAMS. Maybe I am missing something. What is the value of
> a BEAM when you can hit the local WIDE with 1 watt into a ground plane?

Maybe you are not trying to hit the local WIDE. Maybe you don't have a local WIDE. Maybe your local WIDE can't hear what your want to hear. Why limit the system to what is typical for someone only in an extremely favorable location? We are not talking about what is useful to the guy who lives in a metropolitan area with a digipeater every ten miles. There is no law that distributed "NETWORKS" can not benefit from high gain or directional antennas and therefore must use only omnidirectinal or low gain antennas in all cases.

I see plenty of little "house with a beam antenna" icons when I run APRS here in the San Francisco Bay area. People seeme to be using beams...

Come on, you mean to tell me you can't even imagine one use for beams with APRS? We are not even talking about only high-gain beams, but also just directional antennas, or even just situations where the environment imposes a directional pattern when you use an omnidirectional antenna (just accurately modeling situations that can't be avoided, not everyone lives in the middle of a big plain or the top of the highest local mountain).

Suppose your local WIDE is on the side of a mountain so it radiates only over 180 degrees.

Suppose your house, your remote, or your vehicle is on the side of a mountain.

Suppose you are a long way away from the area you want to monitor or report to and the only way you can reach where you want to go is to use a high gain VHF beam. Say monitoring someone hiking in the wilderness.

Suppose you want to monitor the progress of APRS equiped vehicles only along one long straight stretch of highway which heads off into the digipeater dessert, so you point a beam down the highway from a nearby mountain.

Suppose you want to provide a point-to-point digipeater link (with more bandwidth and less competition than hf) between two networks of APRS stations which can not communicate directly, reliably without beams.

Why do people use beams? Because most of the time, GAIN IS GOOD. Sometimes we just need more gain. Sometimes it is important to not hear anything from some direction, so the directional selectivity of a beam can be just as important as the gain. We can not even begin anticipate all the reasons why beams might be used. It seems unthinkable to me to assume that VHF beams will forever be unimportant to APRS, or anything else.

Chuck

---

96. Re: [APRSSIG:5679] Re: HF gates

From: rwf <rwf@mindspring.com>
Date: Thu, 4 Jan 1996 18:47:18 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960104185406.378fb0e8@mindspring.com>
Rendered body type: text/plain

Sorry, Kev. You are wrong. Bill is right. For the record, LUS was in town for awhile until yesterday. He was operating VHF and UHF and has now set off again with a tracker. I saw his track down I-85 ON VHF with a path of RELAY yesterday. And the Atlanta Gate is in Peachtree CIty (AB4KN) Peter was asking to be the gate again, but he was gone a long time and we have a new one.

Peter *still* ran his GATE in VHF<>HF mode the whole time he was here, despite the fact that there was already one within the digi range. I'm not judging anyone one way or the other, He has an excellent HF signal. His signal into VHF with his 9 watts is very marginal, though probably causing lots of retries whe people went thru the GATE.

Ralph

At 06:07 AM 1/4/96 -0600, you wrote:

>Bill, you are sadly mistaken in this area, Peter, W7LUS, is only an HF
>digipeater...he discontinued gating months ago....if his callsign is in
>the path...the Gate is somewhere else....probably in Athens....
>
>73 de KD4UYR
>
>

---

97. Re: [APRSSIG:5692] Re: HF abuse

From: rwf <rwf@mindspring.com>
Date: Thu, 4 Jan 1996 18:47:20 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960104185408.30f722ee@mindspring.com>
Rendered body type: text/plain

At 11:08 AM 1/4/96 -0600, Bob wrote:

> And then make the WX report rate ONCE per 30 minutes.

Awwwww what's wrong with every 4 seconds? <BIG SHEEPISH GRIN>

---

98. Re: [APRSSIG:5701] How many gates

From: rwf <rwf@mindspring.com>
Date: Thu, 4 Jan 1996 18:47:22 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960104185410.3797a02e@mindspring.com>
Rendered body type: text/plain

At 01:13 PM 1/4/96 -0600, Paul Moller wrote:
>
>Idea: Does APRS need multiple unproto paths like the Kantronics kpc-3 tnc
>has multiple paths when in LT/GPS mode? Flame away!

As I recall, it already has them, although I have trouble remembering how to
use them

---

99. Re: [APRSSIG:5706] RE: High Gain Beams

From: rwf <rwf@mindspring.com>
Date: Thu, 4 Jan 1996 18:47:24 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960104185412.37979a7a@mindspring.com>
Rendered body type: text/plain

So what is the point of the WIDE, if *all* it has is a super mega high gain
beam pointing to another WIDE?
Unless you are splitting to an omni antenna as well, How is it going to hear
mobiles (which are the purpose behind APRS)- especially Bob when he drives
in with his "wimpy" 1 watt tracker (sorry, Bob).

When I hop off the airplane and hook up the Laptop, GPS, Active antenna,
TNC and rig in the rental car, it is nice to be able to show on the map.
It makes the hassle I get taking the Ammo box thru Airport Security worthwhile.

At 02:36 PM 1/4/96 -0600,KB9JTT wrote:

Adding a high-gain beam to a Milwaukee WIDE and to a Chicago
>WIDE, both beams pointing at one another, could allow the WIDEs to hear
>one another better and possibly relay traffic between the areas without HF
>usage

>
>
>
>

---

100. Re: [APRSSIG:5708] Re: W7LUS

From: rwf <rwf@mindspring.com>
Date: Thu, 4 Jan 1996 18:47:26 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960104185414.37976924@mindspring.com>
Rendered body type: text/plain

He was heading to Texas Wednesday. He also told me his TNC barfed on the
way TO atlanta. Looks like he had other problems, 'cause he was using RELAY
on his way out of town Tues or Wed. It was a tracker only, as he told me-
but I saw an @ sign in his posit as he left town. He was trying to get an
HSP working, but could get neither the AEA nor the PACCOMM one to work, even
tho it had 12 volts. I was suspecting a DTR problem with his laptop.

Ralph

```
At 03:34 PM 1/4/96 -0600, you wrote:
>Either that George or Peter (W7LUS) is a very fast driver Hi..
>
>Bill KE4EER
>---------------------
>>      Today I was hearing W7LUS-14 direct (with a truck icon) and thru
>>     RELAY.  His GPS $RMC string placed him in the NW Houston area.  I
>>     tried to send him a message but it did not get acked.   I watched him
>>     for about 5 minutes then his $RMC suddenly put him in South Florida!
>>
>>      I re-checked his digi path and I WAS hearing him *DIRECT* and thru
>>     RELAY.  I received several postits from him placing him in Florida
>>     after that.  I don't know what's going on with his mobile station, but
>>     I think his GPS needs work, or it lost its fix and reverted to its
>>     "normal" powerup position.
>>
>>      Anyway, I guess he does not have a computer in his truck because he
>>     didn't get my message.  I was hoping I could rag on him in MY neck of
>>     the woods without having to go thru the GATE...
>>
>>      It seemed kind of ironic to see him in the Houston area...
>>
>>     73's
>>
>>        \\//
>>        (..)
>>    -ooO-(_)-Ooo------------------------------------------------------
>>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>>    ------------------------------------------------------------------
>>
>
>
>
```

---

101. Re: [APRSSIG:5677] MIM Picture

From: davidc@tbcnet.com (David Chesser)
Date: Thu, 4 Jan 1996 18:10:51 -0600
To: aprssig@tapr.org
Message-ID: <199601050010.SAA17453@tbc2.tbcnet.com>
Rendered body type: text/plain

Bob

The Northern Illinois APRS Network (NIAN) maintains a web page.
The URL is http://tbcnet.com/~davidc/aprs.html

---

102. Re: [APRSSIG:5689] Re: Internet APRS Gateways

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 4 Jan 1996 20:53:18 -0500
To: <aprssig@tapr.org>
Message-ID: <199601050153.UAA25327@brickell.bridge.net>
Rendered body type: text/plain

```
>>I have a program currently working on the Mac which allows a serial port
>>to be used over an EtherTalk network by multiple programs. I am in the
>>process of adding TCP/IP support. This will allow any internet user to
>>hook into any TNC output stream, and even to completely link LANs. There
>>is no need for any special protocols, it is simply a stream of characters
>>in each direction, would be easy for someone to write a WinSock version.
>>If anyone has the knowledge and desire to do this, let me know so we can
>>test our version together. BTW, the socket number I'm using is
```

>>14579...wonder why I picked it???
>>
>excellent, this would allow the full routing power of the internet to
>deliver aprs between gateways or allow monitoring of the remote APRS by
>anyone on THE NET
>
>are you planning on posting your work?
>cheers
>
Yes, it will be available. But it has the possibility to cause a bunch of
administrative problems. First of all, imagine two active VHF nets linked
via the internet. Then two more, and two more....and there is the problem
of assuring only licensed hams access it...

As I said, my main reason for writing this is to allow me to use the same
TNC by multiple computers, the internet stuff is a nice side effect. Once
MacAPRS is made compatible, I will post it on the TAPR server.

Steve KO4HD

---

103. Re: [APRSSIG:5691] Re: HF abuse

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 4 Jan 1996 20:53:20 -0500
To: <aprssig@tapr.org>
Message-ID: <199601050153.UAA25331@brickell.bridge.net>
Rendered body type: text/plain

>I agree with part of this. But tell me WHY should i use the OFF SWITCH as
>this person suggests. I have been using APRS since it's inception and fought
>hard (Yes fought) to get 145.790 coordinated trough the proper channels.
>Why should i be the one to turn off my system. Of course this will NEVER
>happen. At least i'm confident in my use of this frequency in that it is
>coordinated and have a right to use it for APRS or any other packet related
>modes. So to the person that made this suggestion i have to say if you don't
>like me using gate in my VHF path then turn off your switch. And by the way
>you call this a personal attack, why is this just because i simple name the
>persons call that get's right on the frequency and calls me crazy and some
>other fine names. I can take your message as a personal attack also!.
>
>Bill KE4EER
>ke4eer@ro.com
>
Please don't take what I said out of context. What I was saying was that
no one, (even those using APRS since the beginning, even Bob who invented
the program) has the right to force their will on others. You try to
convince them with reasoning, if that fails either live with what they
are doing that annoys you, or THEN use the off switch. I was not saying
that YOU or anyone else should use the off switch now. If you bothered to
read my message you would note that I stated I thought that VHF to HF
gating IS appropriate. As to personal attacks, I hate seeing things like
this degenerate into this sort of ugliness. This forum should be a place
to discuss the appropriate use of the frequencies, not to condemn
particular people.

Steve KO4HD

---

104. Re: [APRSSIG:5688] Re: Use of APRTRAK

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 Jan 1996 21:23:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601050323.VAA09566@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:
>
> On Wed, 3 Jan 1996, Ron Seiler <RGSEILER@BCSC02.GOV.BC.CA> wrote:
>
> > I tried APRTRAK a few days ago by going through MIR. I immediately
> > attracted the attention of N6JLH who connected to me and told me
> > that no APRS was allowed through MIR. Why is this?
>
> REPLY: Lack of understanding. Some stations think MIR is their own private
> mailbox. BUT don't seem to complain about the bazillions of connect
> requests which actually take up MORE bandwidth. In fact recent AMSAT
> articles actually ecourage EVERYONE to try to CONNECT with MIR!
> They dont understand that if EVERYONE sent the simple APRtrak UI packet
> instead of trying to CONNECT with MIR, that the actual loading on the
> channel would go DOWN and access to the PBBS would be BETTER for those
> needing it. Plus the automatic QTH plotting of the packets that DO get

> digipeated have greater educational value than all of the DISCONNECT
> BUSY packets that you see now..
>
> But you cant argue with those who don't understand and are stuck in
> the 1970's dumb terminal mode...

Bzzzzt! Wrong answer. Thank you for playing.

1. N6JLH is one of the folks who has kept data and help flowing TO Mir over the last couple of years.

2. About 12-18 months ago, there was a problem over California with both rampant digipeating AND APRS activity using virtually all the available overhead time on Mir. Dave got pretty sensitive about that.

3. Connecting to Mir, since it has a max users setting of 1, is self limiting.

4. Not everyone has embraced APRS/APRTrak as the end-all of packet just yet, although for me it's pretty good. I still use TCP/IP for the more mundane packet activities.

5. Dave is hardly stuck in the 1970s or on a dumb terminal. I believe an apology is in order. Oh, yes... Dave's now the stateside QSL manager for Mir.

It's not always as simple as you sometimes think. I learned this with SAREX, and Mir over the last 10 years or so. And, yes, I've been chatting off and on with Mir for that long. Usually in Russian.

73, gerry

---

105. Re: [APRSSIG:5696] Re: AEA setup for APRS PK-232

From: jlawyer@airmail.net (Jim Lawyer)
Date: Thu, 04 Jan 1996 23:13:33 -0600
To: aprssig@tapr.org
Message-ID: <199601050514.XAA25374@server.iadfw.net>
Rendered body type: text/plain

>On Thu, 4 Jan 1996, Charles W. Davidson wrote:
>
>> Pakrat and other AEA software automatically sets the PK-232 into
>> propritory "HOST MODE", to leave this HOST MODE.....

I wrestled with this problem for quite awhile and now use PkGold Vs. 8.0 software and
set it to default to the COMMAND MODE when I shut it down. Although I power down the system when
I leave the shack for the night, I leave the battery connected. It powers up quickly and I've had
No problems using PkGold for normal packet or APRS for, uh, APRS! The only caveat is to make sure the
PkGold program and the APRS program are set to the same baud rate for PC to TNC, otherwise you have a
delay when you switch programs while the program re-initializes everything.

Hope it helps

Jim Lawyer, AA5QX, Murphy, TX ...nothin' fancy.

---

106. Re: [APRSSIG:5702] Re: No GATEs on VHF pse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 00:18:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105001521.23129A-100000@greatlakes>
Rendered body type: text/plain

On Thu, 4 Jan 1996, William Nolle wrote:

> Again that's great Bob, but how do i know who the local gate is??????

WB4APR REPLY COMMENT:

It should be on your map using the DIAMOND GATE symbol. If not, then send out a bulletin via a single WIDE asking who it is. A single WIDE will get you to ALL/ANY GATE that you are seeing. Do NOT send this query bulletin via any other path, or more than one WIDE, or you will probably find OTHER GATEs that are NOT one HOP away. That will only confuse the problem...

107. APRS has two paths

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 00:22:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105001944.23129B-100000@greatlakes>
Rendered body type: text/plain
```

```
On Thu, 4 Jan 1996, Paul Moller wrote:

> Idea: Does APRS need multiple unproto paths like the Kantronics kpc-3 tnc
> has ???

WB4APR REPLY COMMENT:

APRS has TWO paths for BULLETIN/POSITS and multiple paths for messages.
To use the dual paths, select OPS-DIGI-ALT and enter the alternate path.
THen give it a percentage of the time you want it used.

You can send each message via any of the paths in your OPS-DIGI list
```

---

108. Re: [APRSSIG:5700] Re: hf revisited

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 00:25:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105002304.23129C-100000@greatlakes>
Rendered body type: text/plain
```

```
On Thu, 4 Jan 1996, William Nolle wrote:

> That a great idea if there was a way for all of us to know for sure WHO the
> local gate is, they for some reason want to hide the fact that they are the
> gate in the area. How far does a user running an HF gate have to be, when
> you say local (What does local meen)?.

WB4APR REPLY COMMENT:

YOur LOCAL gate MUST be within range of a LOCAL WIDE, or you will
never see it.  Packets come through the GATE with only a single WIDE
attached.
```

---

109. Re: [APRSSIG:5712] Re: High Gain Beams

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 00:53:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105004435.23129I-100000@greatlakes>
Rendered body type: text/plain
```

```
On Thu, 4 Jan 1996, Chuck Grant wrote:

> Come on, you mean to tell me you can't even imagine one use for beams with
> APRS? We are not even talking about only high-gain beams, but also just
> directional antennas, or even just situations where the environment imposes
> a directional pattern when you use an omnidirectional antenna...

APR REPLY:  Come on, lighten up.  APRS cant do EVERYTHYING!  APRS already
supports an offset Pattern with probably a 10 dB front to back ratio..
which can be oriented in increments of 45 degrees (about the beamwidth of
such an antenna.

Adding BEAM patterns is beyond the scope of the intent of APRS and WOULD
CAUSE MORE PROBLEMS than it would solve.  How many folks would enter a
NEW PHG each time they MOVED their BEAM????   THen most likely most BEAM
patters would be TOTALLY misleading to mobiles trying to use them.

 And dont even think of expecting me to add an automatic ROTOR INTERFACE!

hi hi
```

---

110. Fix bad habits, not HF

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 01:06:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105005718.23129K-100000@greatlakes>
Rendered body type: text/plain
```

```
On Thu, 4 Jan 1996 someon in South Florida wrote...

> Bob, things really slow down.....
> 3 or 4 stations here beacon every 2min, 3min, and 4min respectivily.
> then 3 or 4 retries of gate,wide,wide and 3 or 4 retries of ack g,W,W
> I have seen it where NO position data gets through because of the
> QSO's on HF. (Add 1 or 2 VHF qso's  with wide,wide,wide)
> and you may see what I mean.

WB4APR REPLY COMMENT:

And EVERYTHING you mention above IS BEING DONE WRONG.  FIX those problems
first before atacking the HFers.
1) NO ONE SHOULD EVER be using WIDE,WIDE,WIDE routinely
2) NO HFer should EVER be using GATE,WIDE,WIDE
3) NO one should be beaconing every 2 minutes, or 3 or 4 routinely...
4) And If memory serves me, S. FLorida has too many WIDES spaced too
closely together...

Please address the individuals that dont quite "get it" instead of the
whole system...  Thanks...
```

---

111. Re: [APRSSIG:5707] Re: MFJ-8621 Crystals

From: William Richarz <wricharz@ix.netcom.com>
Date: Fri, 05 Jan 1996 01:25:10 -0500
To: aprssig@tapr.org
Message-ID: <199601050626.WAA24255@ix6.ix.netcom.com>
Rendered body type: text/plain

```
>     Mr. Jim Shurden, KB5JNZ, at MFJ is the contact for any 8621
>problems.  He is very familiar with my radio and is very knowledgeable
>with the new alignment procedure.  I might add that Jim, and his
>predecessor, Brian Bishop, have been extremely helpful with my problem.
>     It seems to me that the MFJ 8621 is an extremely good candidate for
>anyone wanting a good, relatively inexpensive, dedicated radio for APRS,
>or other 1200 B or 9600 B Packet operation.
>
>
>Terry Taylor, WB5JFM
>a010717t@bcfreenet.seflin.lib.fl.us


Hey Terry, appreciate the info.  Yes I talked with Jim Shurden at MFJ but it
was not until I mentioned your name did he tell me about the different
receivers, was like pulling hen's teeth to get to that...He told me all
about the story of the coils, etc.  Yes I used a freqency counter to try to
align it for 145.79, but the slug fell out before I reached the 145.79-10.7
IF (135.090Mhz).  It is indeed the best way to tune it, but that doesn't
help any if the radio was not designed to accecpt a crystal higher than
145.09, poor designing of a crystal oscillator, which Jim admitted to after
several calls.  I wish some of these service reps out there would give us
hams some credit when you try to tell them something will not work, instead
of telling me I didn't know how to tune the oscillator.  Yes, I could
probably have padded the trimmer or "pulled" the crystal on freqency if they
would have sent me a schematic I had asked for earlier.  Seems MFJ doesn't
want their schematic out for some reason.  After all of the phone calls, Jim
told me to send the Radio to his attention, so we'll see what happeneds from
here on.  He said he would probably have to send me a new radio, so it
sounds like mine is a lost case, old model or whatever...I hope the newer
ones are better than the one I have, it's also broad as a barn door, as I
could copy the SEDAN net on 145.77 with the xtal tuned to 145.785.  Hope I
don't have that trouble if he sends a new one...I'll agree, the radio should
work very well on APRS if I can ever get it on freqency....Thanks again for
the information, I have a feeling I might still be dickering with them if I
had not
mentioned your name...

73 de Bill
========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
========================================================================
```

---

112. Re: [APRSSIG:5692] Re: HF abuse

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 4 Jan 1996 20:53:15 -0500
To: <aprssig@tapr.org>
Message-ID: <199601050153.UAA25325@brickell.bridge.net>
Rendered body type: text/plain

```
>> I still feel that it is fine for a VHF station to gate onto HF with
>> position and weather reports, those are what I like APRS for. It would be
```

>> nice to have better support for different VHF and HF paths, I know
>
>WB4APR REPLY COMMENT:
>
>Yes, but no more than ONE wx report per state please on 10 NHz. Or at
>least every 256 miles. And then make the WX report rate ONCE per 30 minutes.
>Detailed WX is of LOCAL interest only. National trends are nice to see
>also, but nothing of NATIONAL significance changes in 30 minutes..or 256 mi.
>

Who decides which station gets to transmit? I agree with the 30 minute
minimum for intervals, but at that rate even a concentrated area with
every Wx station reporting on 30 meters would use a negligible amount of
the bandwidth.

Steve KO4HD

---

113. Sincere Apology to N6JLH

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 01:32:30 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960105011819.23129M-100000@greatlakes>
Rendered body type: text/plain

My sincere appology to N6JLH and those hard working stations that try to
maintain the flow of information to MIR. I did not mean to denegrate
his/their operations one bit. SORRY. Really...

I had meant for my message to address all those other stations who feel
they must try to CONNECT with MIR just to see their DISC-BUSY packet
come back... or those others that are sending LONG UI BRAG BEACONS...

I was only trying to make the point that if all those stations who feel
that they just have to send CONNECT REQUESTS to MIR on every pass would
consider sending a single APRtrak UI posit instead, the total number of
pcakets on the uplink would be LESS and everyone would benefit.

I really hate to see those LONG UI BRAG beacons! Hopefully the 36 hour
or so SPRE mission which has an APRS digipeater on it next week will
allow everyone to see if this mode has advantages over CONNECT REQUESTS
and SAREX numbers...

My apologies to those hardworking AMSAT members that try hard to serve
MIR inspite of all of the useless QRM on the channel...

---

114. Re: [APRSSIG:5726] Re: High Gain Beams

From: ke4eer@ro.com (William Nolle)
Date: Fri, 05 Jan 1996 01:10:52
To: aprssig@tapr.org
Message-ID: <199601050718.BAA16927@sh1.ro.com>
Rendered body type: text/plain

I have been reading these messages with interest. I for one use my stacked
13B2's many many times. One way is that in order for me to see or communicate
with any of the users in Southern Tennessee i have to use them if i don't i
would never see them at all. Now that ralph N4NEQ installed a great digi
in Western NC i point my beams at it and get extremely good results that i
have never had in the past. Now don't forget N4NEQ is 158 miles from my QTH
and no local digi can hit it directly i don't think. And Bob yes i do change my
PHG each time i move the beams. Of course to give an acurate circle the
figures i enter are way out of line and would tend to show users that i have a
900' tower, but in fact have hit that digi many times with a direct signal from
my qth (158 Miles). So to me my stacked 13B2's are very usefull in using
APRS even if the PHG doesn't fit. And i say YES to the Bob to the rotor
interface HI HI. I agree that beam patterns is to much to ask for, but to ask
for extended figures in the PHG would not. My beams are rated at 18db gain
and with 300+w i have pretty good coverage when needed!. And Bob gosh
this is the first time i have seen you flatly refuse to even consider adding a
feature like a ROTOR INTERFACE to APRS Hi HI (Just kidding Bob).

Bill KE4EER
ke4eer@ro.com

>
>Adding BEAM patterns is beyond the scope of the intent of APRS and WOULD
>CAUSE MORE PROBLEMS than it would solve. How many folks would enter a
>NEW PHG each time they MOVED their BEAM????   THen most likely most BEAM
>patters would be TOTALLY misleading to mobiles trying to use them.
>

```
> And dont even think of expecting me to add an automatic ROTOR INTERFACE!
>
>hi hi
>
```

---

115. Re: [APRSSIG:5721] Re: Use of APRTRAK

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Fri, 5 Jan 1996 08:38:33 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9601050738.AA05894@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

```
> > On Wed, 3 Jan 1996, Ron Seiler <RGSEILER@BCSC02.GOV.BC.CA> wrote:
> > > I tried APRTRAK a few days ago by going through MIR.  I immediately
> > > attracted the attention of N6JLH who connected to me and told me
> > > that no APRS was allowed through MIR.  Why is this?
...
> Bob Bruninga sez:
> > REPLY:  Lack of understanding.  Some stations think MIR is their own private
...
Gerald J Creager writes:
> Bzzzzt! Wrong answer.  Thank you for playing.
...

Is there a "rulebook" somewhere on operating through/with Mir?  I.e.,
where it says "APRS through Mir is verboten" and provides guidelines
on what else isn't permitted, as well as what is OK?

--Shannon, DL6SEU  (N7APC)
```

---

116. Re: [APRSSIG:5708] Re: W7LUS

From: JoeLoewy <loewy19@sefl.satelnet.org>
Date: Fri, 5 Jan 1996 03:01:17 -0500
To: aprssig@tapr.org
Message-ID: <9601050801.AA01166@prod1.satelnet.org>
Rendered body type: text/plain

```
At 03:34 PM 1/4/96 -0600, you wrote:
>Either that George or Peter (W7LUS) is a very fast driver Hi..
>
>Bill KE4EER
>---------------------
>>      Today I was hearing W7LUS-14 direct (with a truck icon) and thru
>>     RELAY.  His GPS $RMC string placed him in the NW Houston area.  I
>>     tried to send him a message but it did not get acked.   I watched him
>>     for about 5 minutes then his $RMC suddenly put him in South Florida!
>>
>>      I re-checked his digi path and I WAS hearing him *DIRECT* and thru
>>     RELAY.  I received several postits from him placing him in Florida
>>     after that.  I don't know what's going on with his mobile station, but
>>     I think his GPS needs work, or it lost its fix and reverted to its
>>     "normal" powerup position.
>>
>>      Anyway, I guess he does not have a computer in his truck because he
>>     didn't get my message.  I was hoping I could rag on him in MY neck of
>>     the woods without having to go thru the GATE...
>>
>>      It seemed kind of ironic to see him in the Houston area...
>>
>>     73's
>>
>>        \\//
>>        (..)
>>    -ooO-(_)-Ooo-----------------------------------------------------
>>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>>    -----------------------------------------------------------------
>>
>
Peter is trucking in your area.  The KPC3 is occassionally putting out "old"
position
Probably because he doesn't have all of the beacon functions properly
configured.
(Originally had him at this QTH while he was in GA. Thought he figured it out.)
He does have a computer with him, an old Zenith "lugable".
73 de JOe KB4FO   loewy19@sefl.satelnet.org    or joe_loewy@usa.racal.com
2602.52N 08023.39W    + or -

>
>
```

117. GATE ID and Y screen Re: hf revisited

From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Fri, 5 Jan 1996 00:18:58 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960104232755.12089C-100000@ccnet3>
Rendered body type: text/plain

On Thu, 4 Jan 1996, Bob Bruninga wrote:

> WB4APR REPLY COMMENT:
>
> YOur LOCAL gate MUST be within range of a LOCAL WIDE, or you will
> never see it. Packets come through the GATE with only a single WIDE
> attached.

There are three or four GATE stations with good operating practices here in the northern California area. With all the aliasing, I can not tell just who is the actual station doing the gating. If there were a local gating problem, how could I determine the callsign of the gate? Most of our HF GATE stations send out a Vhf bulletin when they are active. This helps but is there a better way? What callsign trail is out there?

now for some local color...

Most of our WIDEs are really wide, so there are <over> five pages of local positions, imagine five or six mobiles at commute sending every couple minutes and a few qso's taking place...we have a busy channel, It still works! Oh I forgot there is a high level low usage bbs on the same frequency...It still works!

OK now every one should look at the Y screen, it is neat to watch the mobiles bounce around the area. Just to add to the PHG confusion I have added /A=000600 to my comments. Bay Area APRS users now see my house at 600' in the Hills. Maybe WIDEs could do the same thing. I have tried to adjust the PHG circle to encompass the typical "mobile" coverage as I have observed it from my station. This is not easy even with a 3 db offset, as I have at least 30 db of hills immiediatly behind me. I don't think anyone in the west has a circular or even semicircular coverage pattern.

I wish the Y screen had a default elevation setting...yea yea yea Oh Sure.

APRS has turned two meter packet into a video game! We love it!

Bob   n6fri

```
     Bob Wilkins                     home    n6fri@uhf.org
 Berkeley, California                work    bwilkins@cave.org
     94712-2354                      play    n6fri@n6eeg.#nocal.ca.usa.noam
```

---

118. Re: Use of APRTRAK

From: Kaj Wiik <kwi@snakemail.hut.fi>
Date: Fri, 5 Jan 1996 10:27:57 +0200 (EET)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: "Ron Seiler <RGSEILER@BCSC02.GOV.BC.CA>" <RGSEILER@bcsc02.gov.bc.ca>,
        aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.OSF.3.91.960105102356.8025C-100000@beta.hut.fi>
Rendered body type: text/plain

On Thu, 4 Jan 1996, Bob Bruninga wrote:

> But you cant argue with those who don't understand and are stuck in
> the 1970's dumb terminal mode...

Wouldn't it be fair to ask MIR crew/support people if they want to see APRTRAK packets through their station?

73,
Kaj oh6eh@amsat.org

---

119. Re: [APRSSIG:5714] Re: HF abuse

From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Fri, 5 Jan 1996 00:48:30 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105004142.12089E-100000@ccnet3>
Rendered body type: text/plain

On Thu, 4 Jan 1996, rwf wrote:

> Awwwww what's wrong with every 4 seconds?   <BIG SHEEPISH GRIN>

Oh Good! you guys going to gate the lead runners in this years Big Event?

Sure hope Bill has a map of the track and field. You might have to send every second so the rest of us can watch the 100 yd sprints ...

<EVEN BIGGER GRIN>

Bob   n6fri

```
     Bob Wilkins                     home    n6fri@uhf.org
 Berkeley, California                work    bwilkins@cave.org
     94712-2354                      play    n6fri@n6eeg.#nocal.ca.usa.noam
```

---

120. Re: Use of APRTRAK

From: kc4yer@amsat.org (Philip Chien)
Date: Fri, 5 Jan 1996 04:14:51 -0400
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <v01510105ad128420e588@[155.212.21.16]>
Rendered body type: text/plain

>On Wed, 3 Jan 1996, Ron Seiler <RGSEILER@BCSC02.GOV.BC.CA> wrote:
>
>> I tried APRTRAK a few days ago by going through MIR. I immediately
>> attracted the attention of N6JLH who connected to me and told me
>> that no APRS was allowed through MIR. Why is this?

Bob Bruninga <bruninga@nadn.navy.mil> replied:

>REPLY: Lack of understanding.
<snip>
>They dont understand that if EVERYONE sent the simple APRtrak UI packet
>instead of trying to CONNECT with MIR, that the actual loading on the
>channel would go DOWN and access to the PBBS would be BETTER for those
>needing it. Plus the automatic QTH plotting of the packets that DO get
>digipeated have greater educational value than all of the DISCONNECT
>BUSY packets that you see now..

and in a different reply said:

>My apologies to those hardworking AMSAT members that try hard to serve
>MIR inspite of all of the useless QRM on the channel...

Bob,

You've been doing an excellent job of promoting APRS. Some might even say an excellent job of trying to shove it down everybody's throats.

When Dave Larson N6JLH, who is the authorized Mir QSL manager for North America, says not to send APRS through Mir - I'd much rather listen to him, than _your_ justifications as to why APRS is better, has greater educational value, or is the best thing since sliced bread.

Like it or not APRS is a closed standard - your standard. The only ones who are writing APRS-compatible software are those authorized by the founders (e.g. MacAPRS). And while you may want to encourage its use for every packet application conceivable (see your demo.txt file for examples), it is not your place to encourage its use with Mir or SAREX when the people who are responsible for those activities are not encouraging it - and are discouraging its use.

And while you may talk about 'useless QRM' - one persons signal is another person's noise. Anybody who is 'APRS free' (would that be the politically correct term for somebody who doesn't have a registered copy?) would consider APRS packets to be even more useless QRM.

It also confuses the issue when you are trying to continue to push for something after being informed of its unsuitability - or declare it to be the standard arbitrarily by yourself.

While you may thing that APRS is the best thing ever made - others clearly disagree, because it has *not* been established as something sanctioned by the Mir or SAREX folks.

Let SPRE speak for itself. That's one place where APRS has been authorized as the communications standard of choice, and its success - or not - will help encourage more people on the APRS bandwagon better than any of the lobbying you've been doing.

Just MHO.

BTW - just to set the record straight, I've downloaded both the Mac and PC versions of APRStrack and intend to use them for the SPRE mission where it's been authorized by the principal investigators. But not for Mir or SAREX where it's been clearly discouraged. And will decide whether or not to register after I've determined whether or not it's a program I find useful.

Philip Chien, Earth News - space writer and consultant PCHIEN@IDS.NET

```
                                        ^
   __                                 __^__          __________
  |   \                          +---/     \---+     (=========
  |____\___________              +---\_____/---+     //
  >____)|        | \__                    \  \______//___
 >/     |________|    \                   [         _____\
 >|_____________________\                  \________/
 Roger, go at throttle up         CHR$(32) the final frontier
```

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121. Re: [APRSSIG:5721] Re: Use of APRTRAK

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Fri, 5 Jan 1996 07:14:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960105070328.6214E-100000@paccomm>
Rendered body type: text/plain

On Thu, 4 Jan 1996, Gerald J Creager wrote:

> 1. N6JLH is one of the folks who has kept data and help flowing TO Mir over
> the last couple of years.

I agree with Gerry's comments about N6JLH's support of the MIR.

He has been instrumental in arranging the transport of a NEW HandiPacket to the MIR to replace the one which had been in orbit for nearly 5 years. (It appeared the memory backup battery had gone flat).

He also helped the delivery arrangements for the German/Russian SAFEX group to do image transfers at 9600 bps (using PacComm SPIRIT-2s).

He speaks Russian, and knows all the people involved. It is so helpful to have someone who knows who to call or where to ship things (and he spends a lot of his own money doing this coordination.)

I personally subscribe to the UI is better than connections group, but there is a lot of inertia and varied goals among the amateur user community. I do hope for a shift in attitude on this issue. The value of one UI frame with a GPS string displayed on (potentially) hundreds or thousands of classroom APRTRACK monitors surely outweighs the value of a DM frame from some guy trying to get a connect with MIR.

I believe in multiculturalism (but am not sure of all the subtleties of the popular definition), and that should apply to ham radio as well. We just have to be tolerant of each other.

Happy New Year to all on the SIG.

73,
Gwyn, W1BEL

---

122. Re: Use of APRTRAK

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Fri, 5 Jan 1996 07:31:15 -0500 (EST)
To: Philip Chien <kc4yer@amsat.org>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960105072449.6214H-100000@paccomm>
Rendered body type: text/plain

Philip,

Take it easy, guy. I found your response to be quite heavy-handed and sounding like a government bureaucrat (Don't bother me with facts, this is our policy....)

I don't really want to get into a shooting match over this, but (IMHO) one self-appointed guardian should not be too rough in calling someone else a self-appointed innovator.

Change can be good!

[This message is not a personal attack. It is a response to your posting.]

73,
Gwyn, W1BEL

On Fri, 5 Jan 1996, Philip Chien wrote in response to Bob, WB4APR.

> Bob,
>
> You've been doing an excellent job of promoting APRS. Some might even say
> an excellent job of trying to shove it down everybody's throats.
>
> When Dave Larson N6JLH, who is the authorized Mir QSL manager for North
> America, says not to send APRS through Mir - I'd much rather listen to him,
> than _your_ justifications as to why APRS is better, has greater
> educational value, or is the best thing since sliced bread.
>
> Like it or not APRS is a closed standard - your standard. The only ones
> who are writing APRS-compatible software are those authorized by the
> founders (e.g. MacAPRS). And while you may want to encourage its use for
> every packet application conceivable (see your demo.txt file for examples),
> it is not your place to encourage its use with Mir or SAREX when the people
> who are responsible for those activities are not encouraging it - and are
> discouraging its use.
>
> And while you may talk about 'useless QRM' - one persons signal is another
> person's noise. Anybody who is 'APRS free' (would that be the politically
> correct term for somebody who doesn't have a registered copy?) would
> consider APRS packets to be even more useless QRM.
>
> It also confuses the issue when you are trying to continue to push for
> something after being informed of its unsuitability - or declare it to be
> the standard arbitrarilly by yourself.
>
> While you may thing that APRS is the best thing ever made - others clearly
> disagree, because it has *not* been established as something sanctioned by
> the Mir or SAREX folks.
>
> Let SPRE speak for itself. That's one place where APRS has been authorized
> as the communications standard of choice, and its success - or not - will
> help encourage more people on the APRS bandwagon better than any of the
> lobbying you've been doing.
>
> Just MHO.
>
> BTW - just to set the record straight, I've downloaded both the Mac and PC
> versions of APRStrack and intend to use them for the SPRE mission where
> it's been authorized by the principal investigators. But not for Mir or
> SAREX where it's been clearly discouraged. And will decide whether or not
> to register after I've determined whether or not it's a program I find
> useful.
>
> Philip Chien, Earth News - space writer and consultant PCHIEN@IDS.NET

---

123. Re: [APRSSIG:5732] Re: Use of APRTRAK

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 5 Jan 1996 08:44:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601051444.IAA13460@solar.cs.tamu.edu>
Rendered body type: text/plain

Shannon Miller sez:
>
> Is there a "rulebook" somewhere on operating through/with Mir? I.e.,
> where it says "APRS through Mir is verboten" and provides guidelines
> on what else isn't permitted, as well as what is OK?

Not per se, but there have been a number of operating hints, requests, etc.,
with reasons and rationales, posted on AMSAT's list, AMSAT-BB. I'll report
the next copy I see come across.

73, gerry

```
n5jxs@tamu.edu
```

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124. Re: [APRSSIG:5735] Re: Use of APRTRAK

```
From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 5 Jan 1996 08:50:17 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601051450.IAA13515@solar.cs.tamu.edu>
Rendered body type: text/plain
```

```
Kaj Wiik sez:
>
> > But you cant argue with those who don't understand and are stuck in
> > the 1970's dumb terminal mode...
>
> Wouldn't it be fair to ask MIR crew/support people if they want to see
> APRTRAK packets through their station?

At the risk of getting too long again, I'd like to make a couple of points.

1.  The Mir crew, although they have radios and TNCs aboard, are not skilled
ham operators.  They have limited training and understanding of the hobby, and
use it to talk and get messages.  Very mission oriented.

2. When they can't talk or get their messages, they get, well, "unhappy" may
be the wrong term, but it's the best I can think of.

3.  I think that they can and should be queried on this point.  I'll try to
get a message up over the next couple of days to them AND N6JLH about using
Mir as a digi for APRS/APRTrak.

4.  A suggested guideline:  Only one digi in the path: Mir. Not relay,
wide,mir.  Not relay, wide, mir, wide.  Mir.

73, gerry
n5jxs@tamu.edu
```

---

125. Re: [APRSSIG:5734] GATE ID and Y screen Re: hf revisited

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 10:10:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105100633.25950C-100000@greatlakes>
Rendered body type: text/plain
```

```
On Fri, 5 Jan 1996, Bob Wilkins n6fri wrote:

> There are three or four GATE stations with good operating practices here
> in the northern California area. With all the aliasing, I can not tell
> just who is the actual station doing the gating...

WB4APR REPLY COMMENT:

True.  That is why I like the recent idea of at least differentiating the
different GATEs between the 10 MHz one and the 40 MHz one.  Hopefully
some local authority out there is discouraging more than one gate per
area per band.  If two gates can hit the same WIDE, then you have
unnecessary duplication of packets.  One of those GATES needs to use a
beam to AVOID hitting that WIDE.
```

---

126. Re: [APRSSIG:5733] Re: W7LUS

```
From: lmkeeran@ilstu.edu (Larry Keeran)
Date: Fri, 5 Jan 1996 09:14:58 -0600
To: aprssig@tapr.org
Message-ID: <v02120d00ad12f029f990@[138.87.2.109]>
Rendered body type: text/plain
```

```
When I was manually entering posits, during my trips, I got a jump when I
changed  CPU time to match time zones.  I think I should use Zulu in the
future.  Right?

>At 03:34 PM 1/4/96 -0600, you wrote:
>>Either that George or Peter (W7LUS) is a very fast driver Hi..

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP - IS Data Processing Equip Tech   lmkeeran@ilstu.edu
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

127. RE:High Gain Beams

From: Willson Flor <willf@rrgroup.com>
Date: Fri, 5 Jan 1996 09:36:08 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3960105093608FJ005C00@rrgroup3>
Rendered body type: text/plain

You wrote:

From: rwf[SMTP:rwf@mindspring.com]
Sent: Thursday, January 04, 1996 6:07 PM
To: aprssig@tapr.org
Subject: [APRSSIG:5716] RE: High Gain Beams

.   So what is the point of the WIDE, if *all* it has is a super mega high
gain
.   beam pointing to another WIDE?

Indeed, that would be ridiculous, wouldn't it. I'm not sure how you got
that idea
from my posting, though.

.   Unless you are splitting to an omni antenna as well, How is it going to
hear
.   mobiles (which are the purpose behind APRS)- especially Bob when he
drives
.   in with his "wimpy" 1 watt tracker (sorry, Bob).
.

Read my message again, rwf: the operating phrase is "ADDING a high-gain
beam" not "REPLACING with a high-gain beam"

.
.   At 02:36 PM 1/4/96 -0600,KB9JTT wrote:
.
.   Adding a high-gain beam to a Milwaukee WIDE and to a Chicago
.   >WIDE, both beams pointing at one another, could allow the WIDEs to hear
.   >one another better and possibly relay traffic between the areas without
HF
.   >usage

73 de KB9JTT

---

128. Re: [APRSSIG:5725] Re: hf revisited

From: rwf <rwf@mindspring.com>
Date: Fri, 5 Jan 1996 11:06:44 -0500
To: aprssig@tapr.org
Message-ID: <199601051606.LAA11032@borg.mindspring.com>
Rendered body type: text/plain

Interesting, Earlier this week, I saw a well known and often seen (Florida,
I think) Gate station using the outgoing path ending with GATE,WIDE,RELAY.
Of course there may have been special circumstances, but nevertheless we see
2 WIDES and sometimes RELAY a lot, Bob!!

Bob wrote:
>
>YOur LOCAL gate MUST be within range of a LOCAL WIDE, or you will
>never see it. Packets come through the GATE with only a single WIDE
>attached.
>
>

---

129. Re: [APRSSIG:5723] Re: No GATEs on VHF pse

From: rwf <rwf@mindspring.com>
Date: Fri, 5 Jan 1996 11:06:41 -0500
To: aprssig@tapr.org
Message-ID: <199601051606.LAA11013@borg.mindspring.com>
Rendered body type: text/plain

I think the GATE concerned (or at least one) is a WX station too. He shows
up as a WX symbol

At 11:20 PM 1/4/96 -0600, you wrote:
>On Thu, 4 Jan 1996, William Nolle wrote:
>
>> Again that's great Bob, but how do i know who the local gate is??????

>
>WB4APR REPLY COMMENT:
>
>It should be on your map using the DIAMOND GATE symbol. If not, then
>send out a bulletin via a single WIDE asking who it is. A single WIDE
>will get you to ALL/ANY GATE that you are seeing. Do NOT send this
>query bulletin via any other path, or more than one WIDE, or you will
>probably find OTHER GATEs that are NOT one HOP away. That will only
>confuse the problem...
>
>
>

---

130. Re: Use of APRTRAK

From: kc4yer@amsat.org (Philip Chien)
Date: Fri, 5 Jan 1996 12:22:38 -0400
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <v01510103ad12e987b759@[155.212.21.16]>
Rendered body type: text/plain

Gwyn, W1BEL said:
>
>Take it easy, guy. I found your response to be quite heavy-handed and
>sounding like a government bureaucrat (Don't bother me with facts, this
>is our policy....)
>
>I don't really want to get into a shooting match over this, but (IMHO)
>one self-appointed guardian should not be too rough in calling someone
>else a self-appointed innovator.
>
>[This message is not a personal attack. It is a response to your posting.]

not taken as a personal attack. But since you did post this reply publicly ...

In the eight hours (or so) since I posted the message I received five
responses, including one from Bob, and excluding the person who wondered
what's in my .sig.

Suffice to say that they've all been supportive - including the one from
Bob WB4APR.

No, I have no intention to being a "self-appointed guardian". And I tried
to hold back, but this was just one too many APRS promos I've read. The
others were just somebody stating an opinion and to promote his own product
- which he honestly believes to be a good product. But in this case Bob
was clearly trying to encourage somebody to continue to send APRS packets
to Mir when - according to the sender - the Mir North American QSL manager
has specifically asked that it not be done. I have not personally seen any
message from Dave Larson specifically stating that APRS should not be sent
through Mir, but am assuming that the information is true based on the
information in the post, and that it was not contradicted as incorrect or
false in the reply.

As far as I'm concerned the Mir North American QSL manager outranks me,
Bob, and basically anybody else in this ITU region as far as what should
and shouldn't be done with Mir's packet system.

Unless one of the SAFEX people, or somebody in direct contact with the Mir
radio manager Sergei Samburov RV3DR (manager of all R0MIR activities at NPO
Energia in Kaliningrad) - or any of their authorized representatives -
overrides Dave Larson's request/order/whatever that's what *I* am going to
abide by.

(I also don't attempt multiple SAREX QSOs on a given shuttle mission, don't
transmit FM in the 2 meter OSCAR sub-band, use my seat belt at all times,
and tend to drive on the right side of the road. So sue me - I've got a
couple of good habits.)

No, I am not going to tell anybody else that they shouldn't use Mir as a
pacsat for E-mail, to transmit voice when others are trying to connect via
packet, or not to send APRS packets.

But I am going to complain when somebody else - who is not one of the above
responsible parties - is trying to encourage such an action.

>Change can be good!

Absolutely - but not when it's pushed against the wills of those who are
responsible for making something work properly - that's a revolution.

Like I said before - just MHO.

Philip Chien, Earth News - space writer and consultant PCHIEN@IDS.NET

```
   __                                 __^__          __________
  |   \                          +---/     \---+    (=========
  |____\___________              +---\_____/---+     //
  >____)|        | \__                    \  \______//___
 >/     |________|    \                   [         _____\
 >|____________________\                   \_______/
 Roger, go at throttle up         CHR$(32) the final frontier
```

---

131. Re: [APRSSIG:5745] Re: hf revisited

From: ke4eer@ro.com (William Nolle)
Date: Fri, 05 Jan 1996 12:19:02
To: aprssig@tapr.org
Message-ID: <199601051826.MAA05890@sh1.ro.com>
Rendered body type: text/plain

Yes i seen him also and in fact see him many times. There just is NO way to tell who the local (Closest gate) is. I took Bob's advice and used 1 wide only and it didn't show me anything more then would be shown any other time.
I have been trying to find out who the LOCAL gate to my area is for a year now and whoever it is, is hiding the fact pretty well. Path's in the SouthEast doesn't mean anything because i see them all, including 3 wides and even 3 wides with a relay (You name it and i have seen it). I see digi's 10-15 miles apart and coverage circles that are out of the world. I guess what i'm trying to say it's quikly approacing the state where it's totally out of hand. There is no way i guess to get a handle on this unless the states can get together and come up with a controlling body to handle this sort of thing. The group in Georgia are a great bunch of APRS users but it looks like there are some that are hell bent on going their own way. Well i shouldn't just pick on Georgia i guess (Sorry Ralph). I do have to say Ralph N4NEQ is doing his best to try to have some type of control over all this but there's only so much one person can do when there are so many users in this area. Personally i think there is no room on the network in our area for all those gates (Just my personel oppinion). Specially if there is no way of knowing who is what!.

Bill KE4EER
ke4eer@ro.com

>Interesting, Earlier this week, I saw a well known and often seen (Florida,
>I think) Gate station using the outgoing path ending with GATE,WIDE,RELAY.
>Of course there may have been special circumstances, but nevertheless we see
>2 WIDES and sometimes RELAY a lot, Bob!!
>
>
>Bob wrote:
>>
>>YOur LOCAL gate MUST be within range of a LOCAL WIDE, or you will
>>never see it. Packets come through the GATE with only a single WIDE
>>attached.
>>
>>
>

---

132. W7LUS-14 (Relay via LL to KB4FO)

From: "joe loewy" <joe_loewy@ftl03.racal.com>
Date: Fri, 05 Jan 96 14:05:40 EST
To: aprssig@tapr.org
Message-ID: <9600058208.AA820879976@ftl03.racal.com>
Rendered body type: text/plain

I am having several intermittent problems as reported via the SIG relayed by JOe KB4FO. I am using the PacComm cable and MFJ1274 with PacComm chip. Computer is Zenith SuperSport 386SX, and Ver 74B.

At first, thought the problem may have been KPC3, but now it appears that this config is also doing it. Review of History when stopped does not show this phenomena.

Path is RELAY, WIDE, GATE, GATE, WIDE

Could it be that the "base" W7LUS-0 was being seen (it is now off) and mistaken for the truck?

Please respond to KB4FO   loewy19@sefl.satelnet.org or via the SIG.

```
     73 de Peter - W7LUS
```

---

133. Re: [APRSSIG:5719] Re: Internet APRS Gateways

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 05 Jan 1996 09:54:36 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <0347630ED65DC04F*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Isn't there a way via appropriate passwords to ensure that only
     amateur nodes connected to the internet can pass messages between one
     another?  Say that node N6xyz-1, a VHF radio with an internet backend,
     will only allow packets shipped via internet from node W2abc-3 to go
     out on the air?  Obviously this requires some prior agreement between
     ops, but that's not a big deal...


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5719] Re: Internet APRS Gateways
Author:  sdimse@bridge.net at Internet
Date:    1/4/96 7:56 PM


>>Much good work omitted for BW's sake...

>are you planning on posting your work?
>cheers
>
Yes, it will be available. But it has the possibility to cause a bunch of
administrative problems. First of all, imagine two active VHF nets linked
via the internet. Then two more, and two more....and there is the problem
of assuring only licensed hams access it...

As I said, my main reason for writing this is to allow me to use the same
TNC by multiple computers, the internet stuff is a nice side effect. Once
MacAPRS is made compatible, I will post it on the TAPR server.

Steve KO4HD
```

---

134. Re: [APRSSIG:5715] Re: How many gates

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 05 Jan 1996 13:10:08 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960105191008.006d4788@144.188.134.33>
Rendered body type: text/plain

```
At 06:06 PM 1/4/96 -0600, you wrote:
>At 01:13 PM 1/4/96 -0600, Paul Moller wrote:
>>
>>Idea: Does APRS need multiple unproto paths like the Kantronics kpc-3 tnc
>>has multiple paths when in LT/GPS mode? Flame away!
>
>
>As I recall, it already has them, although I have trouble remembering how to
>use them
>

I guess I didn't explain myself well, and maybe it can do this and I don't
know. (RTFM!) Can I beacon the fact that my house hasn't moved on 2m to the
local area, beacon WX to Chicago and Milwaukee areas frequently (I am in
chicago), and beacon WX to the nation once every half hour or so, all with
different paths? If I then want to chat with someone local do I have to
further change one of the above paths so that the Send to path is correct?
Maybe it is the idiot at the keyboard phenomena, but I find changing the
paths cumbersome. Especially when the tnc in question is a Kam+ where there
are separate paths in the tnc, but loaded in with one command.

Paul Moller
Motorola CSG
708-523-5210
Motorola pager #7378
```

---

135. MFJ 8621 Crystals

From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Date: Fri, 5 Jan 1996 14:25:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9601051455.B12509-0100000@bcfreenet.seflin.lib.fl.us>

Rendered body type: text/plain

```
> On Tue, 2 Jan 1996, William Richarz wrote:>
> > Hello Terry,
> >
> > Just wondering what they did for you to get your radio on frequency?  They
> > sent me another crystal, but is just like the first one, too low in
> > frequency.  Let you know how they try to solve my problem again...
> >
> > Thanks, 73 de Bill WA4VAF
> >
> >
> > ========================================================================
> > Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
> > 10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.CLT.NC.USA.NA
> > Charlotte, NC 28227                | Phone   : (704) 545-9368
> > ========================================================================
> >
> >
      Hello, Bill...  The folks at MFJ are trying to make the 8621 Data-only
 radio workable at the APRS frequencies.  First, there are two versions of
 the receiver, and you could possibly have the earlier version that would
 not go higher than about 145.09.  I believe MFJ's method of determining
 the receiver version is by the color of the coil holder that has the slug
 for setting the receive crystal.  My radio was misaligned, and has been

 set by MFJ, and checked by Rick Littlefield, the product designer.
 I haven't checked it out yet, but will really soon.  I believe that Rick
 has suggested a change in the 8621 manual detailing a different method
 for netting the receive crystal.
      The first method they suggest is using a precision signal generator,
 but no details as of yet on this exact procedure.  An alternate signal
 source is a synthesized 2M radio set to low power and use of a dummy
 load.  Yet another method is to use a counter connected to pin 3 of the
 receiver chip, which is a buffered receiver output.  The slug in L4 can
 be set so that the counter is reading 10.7 MHz below the desired
 operating frequncy.  (Counter in MHz = Operating Freq in MHz - 10.7 MHz)
      So, I guess I would be using this last method if mine was not
 aligned by the 'powers at be'.  I'll have to experiment to see how this
 all works.  In any case, I think this will be an improvement over the
 original method published in the manual, as there are several people who
 have had trouble with this procedure.
      Mr. Jim Shurden, KB5JNZ, at MFJ is the contact for any 8621
 problems.  He is very familiar with my radio and is very knowledgeable
 with the new alignment procedure.  I might add that Jim, and his
 predecessor, Brian Bishop, have been extremely helpful with my problem.
      It seems to me that the MFJ 8621 is an extremely good candidate for
 anyone wanting a good, relatively inexpensive, dedicated radio for APRS,
 or other 1200 B or 9600 B Packet operation.  However, I'm still trying
to get mine to 'hear' at the higher frequencies.


 Terry Taylor, WB5JFM
 a010717t@bcfreenet.seflin.lib.fl.us
```

136. Clueless question

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 5 Jan 1996 11:46:12 -0800
To: aprssig@tapr.org
Message-ID: <v01510100ad132c42f818@[128.149.100.84]>
Rendered body type: text/plain

Could someone explain to me why digipeating an AX.25 packet that contains information readable by any system capable of AX.25 packet, and usable by particular software programs known by various permutations of the name "APRS", is somehow fundamentally different than digipeating "hey, this is Joe!!!"?

It is not clear to me that APRS is a different "protocol" than a bunch of people sitting around using unconnected packets to talk. Someone has just automated it a bit and focused the exchanged information in a geographical sense.

I agree that the operators of the space stations such as Mir should have the final say on what is and is not allowed. I think it should either be OK or not OK to digipeat [UI] frames via a particular space station. Limiting what type of UI frame gets through seems artificial (and do not cite TCP/IP, in which a connected protocol "rides atop" unconnected AX.25 [UI] frames. That *is* different.).

Enlighten me.

-Greg

PS Dave, N6JLH, while a truly amazing individual with quite a story, if you can pry it out of him, is the North American Mir QSL Manager. Does that make him the same as a Mir station control operator? If not, any final word should come from them (even if via Dave).

```
--
Gregory R. LaBorde - KD6MSM         | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory           | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET   | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive    | Phone   : (818) 393-1107
Pasadena, CA  91109                 |
```

---

137. two gates

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 05 Jan 1996 14:03:23 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960105200323.006d8910@144.188.134.33>
Rendered body type: text/plain

> If two gates can hit the same WIDE, then you have
>unnecessary duplication of packets. One of those GATES needs to use a
>beam to AVOID hitting that WIDE.

Yes, and this is a problem we have in the chicago area. Jerry, Ed and who ever else is interested, lets talk about this!

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)

---

138. Re: [APRSSIG:5747] Re: Use of APRTRAK

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 5 Jan 1996 14:19:39 -0600
To: aprssig@tapr.org
Message-ID: <199601052019.OAA28635@tbc2.tbcnet.com>
Rendered body type: text/plain

Mr. Chien:

It doesn't really bother me that much what position you take on the APRS/MIR discussion.

What bothers me is the reference in your signature to the last radio communication of the Challenger, and that will cause me to delete any post, unread, that you send to the SIG.

It has taken me a long time to get over that disaster, and I will not subject myself to frivolous reminders of it as used in a very unprofessional email signature.

john leonard
jleonard@tbcnet.com

```
>
>Philip Chien, Earth News - space writer and consultant  PCHIEN@IDS.NET
>   __                                 __^__          __________
>  |   \                          +---/     \---+    (=========
>  |____\___________              +---\_____/---+     //
>  >____)|        | \__                    \  \______//___
> >/     |________|    \                   [         _____\
> >|____________________\                   \_______/
> Roger, go at throttle up         CHR$(32) the final frontier
>
>
>
```

---

139. Re: [APRSSIG:5656] 440 APRS Freq?

From: WMYOREO@aol.com
Date: Fri, 5 Jan 1996 15:25:57 -0500
To: aprssig@tapr.org
Message-ID: <960105152555_32745623@mail04.mail.aol.com>
Rendered body type: text/plain

```
This is Bill, K1TRS in Connecticut. I am using 445.925 here in the greater
Hartford area. We have three stations on now and the hope of more to come.

73
```

---

140. cost?

```
From: Martin Grossman 617-873-3650 <grossman@BBN.COM>
Date: Fri, 05 Jan 96 15:31:02 -0500
To: aprssig@tapr.org
Message-ID: <199601052039.OAA08597@sys1.tapr.org>
Rendered body type: text/plain
```

```
what is the breakdown on cost?

I like using apr74b.exe!!!!!!!

I want to register.

I want to use it on three computers,  one using just the vanilia functions
(with saving allowed), one using weather functions, and one (portable)
(in car) with the GPS functions.

My call sign is N1MKG.

I'd like to use all the following randomly on each system.....

n1mkg
n1mkg-1
  .
  .
  .
  .
n1mkg-9


(ie sometimes the setup is n1mkg/home  n1mkg-2/gps  n1mkg-4/wx   and
    sometimes the setup is n1mkg-9/home  n1mkg-5/gps  n1mkg-7/wx)


will your validation code system still work?  (ie what I'm asking is
can the validation codes ignore the "-x" part of the entered call sign?)


PS what would be the total cost 24$ plus how many sets of 9$?

PS GPS is a meggelan trailblazer with nmea outputs.
```

---

141. Extending APRS suggestions (to beam or not to beam that is not the question)

```
From: Chuck Grant <grant@aretha.llnl.gov>
Date: Fri, 5 Jan 1996 13:39:41 -0800
To: aprssig@tapr.org
Cc: ksproul@hardees.Rutgers.EDU
Message-ID: <199601052139.NAA16959@aretha.llnl.gov>
Rendered body type: text/plain
```

```
> From: Bob Bruninga <bruninga@nadn.navy.mil>
>
> APR REPLY:  Come on, lighten up.  APRS cant do EVERYTHYING!  APRS already

I agree. It can't and shouldn't try to do everything, or at least
everything does not need to be built in.  However drawing stuff on the
screen, including antenna patterns, is one thing it tries to do.  If you
are going to do it, you might as well do it right.

> supports an offset Pattern with probably a 10 dB front to back ratio..
> which can be oriented in increments of 45 degrees (about the beamwidth of
> such an antenna.
>
> Adding BEAM patterns is beyond the scope of the intent of APRS and WOULD

What is the scope and intent? Is everything in there now within the scope
and intent?

> CAUSE MORE PROBLEMS than it would solve.  How many folks would enter a
> NEW PHG each time they MOVED their BEAM????   Then most likely most BEAM

I suspect many would, if they had the facility in the program to do so.
A supporting post by KE4EER he says he changes his even with the current
limitations.
```

> patters would be TOTALLY misleading to mobiles trying to use them.

No more misleading than the existing patterns, I think. These points are only speculation though. There is little point in arguing about different assumptions about what users will do with things that do not exist yet.

> And dont even think of expecting me to add an automatic ROTOR INTERFACE!
>
> hi hi
>

Well, actually this kind of points out what I consider to be a limitation in the way APRS and many other applications that have grown in size and functionality as they matured are implemented as a single program. Well, actually it doesn't kind of point it out, it is an excellent example.

I can only speak for MacAPRS since I have never run the original APRS, but I assume this factor is the same. And even if it is not, when the windoze version becomes the official version they will be the same.

It is generally good software engineering design practice that one program should not try to do everything every possible way with all the choices wired into the code. You can never anticipate the all the ways that users will find to do new and wonderful things.

But, There are many many parameters to APRS, such as PHG, which are obvious natural candidates to be AUTOMATICALLY read from your station equipment and translated into settings for use within APRS. Your APRS position report and/or beacons could automatically reflect the status of your station.

Likewise, it seems obvious that information within APRS could be used to trigger or control other software or hardware in your station.

How can you do this without having to build a new version of APRS everytime someone wants to do something different, or do the same thing with a different piece of hardware? There are a couple of tricks that can be used here to move this functionality out of the hardwired code section of APRS and into the hands of the users.

==

The following is a suggestion provided for your consideration. Food for thought. I am not saying it is the best way or the right way. But you might want to seriously consider if it looks like it would help APRS. I think it is a good fit. But I haven't worked out all the fine details either.

==

First divide APRS into core functions and interfaces.

You have core functions:
   receive and parse a packet
   update parameters
   dispatch functions to interfaces (based on parameters)
   respond to timed events
   respond to user requests
   respond to external events

and various interfaces including:
TNC control interface
map drawing interface
   icon drawing
   antenna pattern drawing
   velocity vector drawing
   df prediction drawing
   balloon prediction drawing
logging interface
object list interface
message interface
list display interface
timer interface
GPS input interface
weather input interface
DF input interface

Now each interface has an "escape mechanism" where an external program (or internal subprogram) can be run in addition to, or in place of, the default interface processing.

If your operating system supports firing up a seperate program as a subprocess, then that would be the most straight forward and flexible way of implementing these escapes (1). The function to process and all current APRS parameters could be written to a temporary file (or piped in, or passed in a message, or accessed through shared memory, or whatever facilities your operating system supports for programs to communicate) The program does its own processing, which may involve measuring or controlling external hardware, or communicating with other software or even other computers, and then writes its results out to a temporary file (or otherwise passes the results back to the main APRS program) and exits. APRS then takes in the commands generated by your program and dispatches them. Or if your program signals that it can not or does not want to handle this particular function with the current parameter settings, then the default interface is invoked.

A system of nearly the same flexability, but more self-contained and simpler to use is an imbedded extention language interpreter. A simple interpereter, which can be called as a subroutine, is built into the main program. The escape code is stored as text which is passed to the interpreter. The interpreter has access to all the APRS parameters. The interpreter would have to implement the ususal arithmetic, string, file access, and control functions, etc, etc, as well as some functions specific to or useful for APRS (such as giving the current time in UTC) and sending commands back to APRS. A large advantage of this system is that features written in "escape code" can immediately be shared with all APRS users since everything is in the same language. An external device communication function must also be included in the interpreter. This could be as simple as testing, reading, and writing bytes to serial and parallel interfaces.

GNU Emacs uses the internal interpreter system, using a simple LISP as the internal language. This is probably the largest, most extended and extensible, most widely distributed and widely used multi-platform program anywhere (multi-platform meaning more than just Mac and PC). It is, of course, free and open. The entire source code, the internal language specification, and all the extensions written in the internal language are free and open.

Now a beam antenna pattern plotter could be implemented very easily as a drawing interface escape. It would read in the station parameters, do whatever kind of calculation it wanted, and pass back to APRS a series of line segements to plot.

Parsing the output from various weather equipment, GPSs, other location montoring systems, Non-gps speed and direction monitors, different kinds of df equipment, controlling stange new types of TNCs, reading or setting the power level from your fancy computer controlled tranceiver, reading or setting your beam antenna direction, triggering different kinds of alarms, poping up maps of specific areas at different times of the day or in response to local or APRS events, using different kinds of df or balloon prediction systems, and lots of other stuff would be natural applications of a custom escape processing mechanism.

I think it would actually make the core APRS program simpler. And it would let others extend APRS without giving up control of the core program, or the APRS on-air protocol. I think this would make APRS more popular. And for Bill, Keith, and Mark, it would make it easier to make custom comercial versions with different fuctionality.

Well, that's the suggestion. Think about. Cheers.

Chuck, ke6cil

Footnotes:

(1) Easiest to implement, however it probably requires the most sophistication from the user. A standard program shell containing a function and parameter parser for input, and a command generator/formatter for output, should be provided as part of the APRS distribution. This program shell would also implement and hide the interprocess communication. This is kind of a problem because users will want to use different languages to implement their escape codes. Every different operating system and language combination will require a different program shell.

142. Re: [APRSSIG:5754] two gates

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 5 Jan 1996 15:41:09 -0600
To: aprssig@tapr.org
Message-ID: <199601052141.PAA29574@tbc2.tbcnet.com>
Rendered body type: text/plain

```
>> If two gates can hit the same WIDE, then you have
>>unnecessary duplication of packets.  One of those GATES needs to use a
>>beam to AVOID hitting that WIDE.
>
>Yes, and this is a problem we have in the chicago area. Jerry, Ed and who
>ever else is interested, lets talk about this!
>
>
>Paul, WD9ABE
>Maybe closer to GLNTC than anybody (5 miles)
>

Paul,
Perhaps if I can put a gate's callsign in the WA9CJN (one of the WIDEs in
the CHI area) BUDLIST, would that help?
-----------------------------
Disclaimer:  Sometimes I don't know what I'm talking about.  You'd better
check on this.  My mouth usually runs on after my knowledge on a subject
runs out.  It's a man, macho kinda thing.

J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

---

143. Re: [APRSSIG:5750] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Fri, 5 Jan 1996 13:52:24 -0800
To: aprssig@tapr.org
Message-ID: <199601052152.NAA17026@aretha.llnl.gov>
Rendered body type: text/plain

```
> From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
>
>      Isn't there a way via appropriate passwords to ensure that only
>      amateur nodes connected to the internet can pass messages between one
>      another?  Say that node N6xyz-1, a VHF radio with an internet backend,
>      will only allow packets shipped via internet from node W2abc-3 to go
>      out on the air?  Obviously this requires some prior agreement between
>      ops, but that's not a big deal...

Basicly, no.  Passwords will not do it if the password ever has to be sent over
the internet or the radio.  You need a fancy encryption or digital signature/
authentation system.  Keys, except for public keys, must never be transmitted,
unless using an elaborate secure public key distribution protocol.
The internet is a very hostile environment for these kinds of things.

Chuck
```

---

144. APRS MIMs available

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 17:34:29 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@tapr.org, Asst Prof Carl E Wick <wick@guam.nadn.navy.mil>,
clement@guam.nadn.navy.mil
Message-ID: <Pine.SUN.3.91.960105171030.3370A-100000@greatlakes>
Rendered body type: text/plain

```
The MIM is a complete TNC (xmt side only) on a chip that sends Telemetry,
Its Beacon text, its APRS Posit (if GPS is conected) and optional CW ID.
Connect it to a transmitter and you have a complete 1200 baud AX.25 packet
telemetry unit.  It has a receiver DCD input for full CSMA if needed.

The first small production run of the prototype MIMs is complete and we
now have an envelope lady and VISA/MC machine, Phone line and address.

     The MIM is currently manufactured by Clement Engineering
                                         PO Box 1086
                                         Severna Pk, MD 21146
     Visa/MC accepted at 410 268-6736  (use 4611 until 15 Jan)
                         FAX 268-4612
```

This MIM does not use surface mount and is 1.5 by 3.25 inches and has a single 21 pin header for external connections. Here are the SPECS:

COST	$89.95 plus about $4 shipping and handling. MD residents add 5%		
POWER	5 or 8-40 VDC	15 Ma	(We are working on a super low) (power mode that will be less than) (0.03 mA between packets)
OUTPUT	AX.25 packet audio PTT Serial Data OUT for Configuration with the MIM.exe program		
INPUTS:	5 analog 0-5 volt telemetry 8 Bits 0/5 volt telemetry 1 Bit Data Carrier Detect (for colision avoidance) NMEA-0183 (and serial data in for configuration with MIM.exe)		
PACKETS:	Each of the following packets can be scheduled at a period of 5 seconds up to 90 hours BEACON TEXT TELEMETRY POSIT (with attached GPS only) CW ID		

The APRS MIM is configured by using the MIM.exe program that makes the MIM look like a TNC using nominal TNC commands for setting the MYCall and other parameters...

We hope to have a larger production run of these full size prototypes in a few weeks. Then we will work on the postage stamp size reduction...

---

145. Re: [APRSSIG:5725] Re: hf revisited

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 5 Jan 1996 18:04:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960105175748.13905A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Thu, 4 Jan 1996, Bob Bruninga wrote:

> On Thu, 4 Jan 1996, William Nolle wrote:
>
> > That a great idea if there was a way for all of us to know for sure WHO the local gate is, they for some reason want to hide the fact that they are the gate in the area. How far does a user running an HF gate have to be, when you say local (What does local meen)?.
>
> WB4APR REPLY COMMENT:
>
> YOur LOCAL gate MUST be within range of a LOCAL WIDE, or you will never see it. Packets come through the GATE with only a single WIDE attached.
>

Well ...... not really true. You'll see it if you are close enough to see it direct (from the GATE). An obvious statement, but "you will never see it" is misleading.

What does local mean? I would think it means within the range of a GATE that you can hear.

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

---

146. Re: [APRSSIG:5712] Re: High Gain Beams

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 05 Jan 1996 15:00:47 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <0083C30EDAD9F006*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

NW6H in Altadena CA is temporarily a 145.79 "WIDE" using a 3-ele beam pointed generally SSE (my immediate backyard includes a rather large group of mountains about 1 mi higher). From my house I see both the small greater-LA area crowd (8-10 stations) and the much larger (but still small, maybe 15-20 stations) crowd in the San Diego area. I see the other WIDE in San Diego (about 110 mi away). I have a GATE (WB6NGC) about 6 mi from me, and the other GATE is a few miles from the other WIDE. However, both WIDEs can generally see both GATEs due to the layout. So it sounds like the two GATEs ought to use directional antennas to eliminate their chance of hearing the other WIDE and thus reduce interference.

As far as all this purported overuse, abuses and general activity in other parts of the country, it'd sure be nice to see something from somewhere else, but generally it's way quiet out here in LA LA land.

- Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5712] Re: High Gain Beams
Author: grant@aretha.llnl.gov at Internet
Date: 1/4/96 5:44 PM

> But APRS, designed to be a distributed NETWORK, in general has no need
> for high gain BEAMS. Maybe I am missing something. What is the value of
> a BEAM when you can hit the local WIDE with 1 watt into a ground plane?

Maybe you are not trying to hit the local WIDE. Maybe you don't have a local WIDE. Maybe your local WIDE can't hear what your want to hear. Why limit the system to what is typical for someone only in an extremely favorable location? We are not talking about what is useful to the guy who lives in a metropolitan area with a digipeater every ten miles. There is no law that distributed "NETWORKS" can not benefit from high gain or directional antennas and therefore must use only omnidirectinal or low gain antennas in all cases.

I see plenty of little "house with a beam antenna" icons when I run APRS here in the San Francisco Bay area. People seeme to be using beams...

Come on, you mean to tell me you can't even imagine one use for beams with APRS? We are not even talking about only high-gain beams, but also just directional antennas, or even just situations where the environment imposes a directional pattern when you use an omnidirectional antenna (just accurately modeling situations that can't be avoided, not everyone lives in the middle of a big plain or the top of the highest local mountain).

Suppose your local WIDE is on the side of a mountain so it radiates only over 180 degrees.

Suppose your house, your remote, or your vehicle is on the side of a mountain.

Suppose you are a long way away from the area you want to monitor or report to and the only way you can reach where you want to go is to use a high gain VHF beam. Say monitoring someone hiking in the wilderness.

Suppose you want to monitor the progress of APRS equiped vehicles only along one long straight stretch of highway which heads off into the digipeater dessert, so you point a beam down the highway from a nearby mountain.

Suppose you want to provide a point-to-point digipeater link (with more bandwidth and less competition than hf) between two networks of APRS stations which can not communicate directly, reliably without beams.

Why do people use beams? Because most of the time, GAIN IS GOOD. Sometimes we just need more gain. Sometimes it is important to not hear anything from some direction, so the directional selectivity of a beam can be just as important as the gain. We can not even begin anticipate all the reasons why beams might be used. It seems unthinkable to me to assume that VHF beams will forever be unimportant to APRS, or anything else.

Chuck

---

147. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

Received: from throm.jpl.nasa.gov (throm.jpl.nasa.gov [137.78.72.150]) by sys1.tapr.org (8.7.2/8.7.2)
with SMTP id RAA13527 for <aprssig@tapr.org>; Fri, 5 Jan 1996 17:11:47 -0600 (CST)
X400-Received: by /c=us/admd=telemail/prmd=nasa/; converted (IA5-Text);
   Relayed; 05 Jan 1996 15:10:50 -0800
X400-Received: by mta Triton in /c=us/admd=telemail/prmd=nasa/; converted (
   IA5-Text); Relayed; 05 Jan 1996 15:10:50 -0800

X400-MTS-Identifier: [/c=us/admd=telemail/prmd=nasa/; 0100330EDAFFA001-Triton]

Content-Identifier: 0100330EDAFFA001
Content-Return: Allowed
X400-Content-Type: P2-1988 (22)
Conversion: Allowed
Original-Encoded-Information-Types: IA5-Text
Priority: normal
Disclose-Recipients: Prohibited
Alternate-Recipient: Allowed
X400-Originator: Jon.T.Adams@jpl.nasa.gov
X400-Recipients: non-disclosure;
Message-Id:
<0100330EDAFFA001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Date: 05 Jan 1996 15:10:50 -0800
From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Subject: Re: [APRSSIG:5678] hf-vhf gates
MIME-Version: 1.0

Hear, hear. I like to see the mobiles moving. Boats, trains, trucks,
planes, jeeps, cars, etc. Especially far away. It'd be great if more
HF traffic (up to the physical-law-mandated limit of 11% %^) would
roll through the local gateway, as long as most are position reports.

Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5678] hf-vhf gates
Author: msjth@uxa.ecn.bgu.edu at Internet
Date: 1/3/96 11:35 PM

Boy! I'm kinda envious of the stations that have so much activity on vhf
that the hf gates are flooding them. Here where I am, I dont see any
vhf activity unless there is a good 2M band opening.
I have been listening to 30M just to see what APRS is doing elsewhere
and I enjoy seeing a mobile once in a great while moving on the screen.

I think its pretty much common sense if you are at a QTH, you dont need
to gate your position anywhere. Leave that to the mobiles so we can all
enjoy their travels.

73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

148. Re: [APRSSIG:5750] Re: Internet APRS Gateways

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 5 Jan 1996 18:55:27 -0500
To: <aprssig@tapr.org>
Message-ID: <199601052355.SAA20015@brickell.bridge.net>
Rendered body type: text/plain

> Isn't there a way via appropriate passwords to ensure that only
> amateur nodes connected to the internet can pass messages between one
> another? Say that node N6xyz-1, a VHF radio with an internet backend,
> will only allow packets shipped via internet from node W2abc-3 to go
> out on the air? Obviously this requires some prior agreement between
> ops, but that's not a big deal...

Sure, it would be possible to put some security features into the
program, although have no intention of doing so at this time (as my plan
is for LAN use). It still doesn't solve the volume of linked traffic. One
solution is a special filter program, a layer between MacAPRS and
SerialServer, that filters out all but a few narrowly defined types of
data.

Steve KO4HD

149. "Official"??

From: rwf <rwf@mindspring.com>
Date: Fri, 5 Jan 1996 19:28:24 -0500
To: aprssig@tapr.org

Message-ID: <2.2.16.19960105193512.34776df6@mindspring.com>
Rendered body type: text/plain

```
At 03:43 PM 1/5/96 -0600, Chuck, ke6cil wrote:

<Big SNIP>

>I can only speak for MacAPRS since I have never run the original APRS, but
>I assume this factor is the same. And even if it is not, when the windoze
>version becomes the official version they will be the same.

 <Humongous SNIP>


I'm a little confused.  What do you mean by "official" version? I didn't
think WB4APR was writing a windoze version.
I would think any other program that receives and transmits APRS formatted
packets and has a map display would be
a "compatible" version, but certainly not the "official" version.

Or is this dumb Georgia boy missing something?
Maybe I missed it while I was out pouring water on my WX TNC to cool it
down. <g>

Ralph
```

---

150. Motorola Loran info

From: tfrobase <"tfrobase"@postoffice.ptd.net>
Date: Fri, 05 Jan 1996 19:30:37 -0500
To: aprssig@tapr.org
Message-ID: <199601060028.TAA04762@ns1.ptd.net>
Rendered body type: text/plain

```
Last year at Dayton I found 2 model H1368bB loran units.  They are
housed in a black anodised cabinet with a DB9 and BNC connector on the
rear.

I am looking for some data sheets or any info on these puppys,  Thanks
for your help...tom, n3lll
```

---

151. Re: [APRSSIG:5743] Re: W7LUS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 21:38:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105213744.4637A-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 5 Jan 1996, Larry Keeran wrote:

> When I was manually entering posits, during my trips, I got a jump when I
> changed  CPU time to match time zones.  I think I should use Zulu in the
> future.  Right?

WB4APR REPLY COMMENT:

Changing PC time is fine, just remember to use alt-SETUP-OTHER-ZONE command
to change your UTC offset to match.
```

---

152. Re: [APRSSIG:5745] Re: hf revisited

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 21:46:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105213959.4637B-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 5 Jan 1996, rwf wrote:

> Interesting,  Earlier this week, I saw a well known and often seen (Florida,
> I think)  Gate station using the outgoing path ending with GATE,WIDE,RELAY.
> Of course there may have been special circumstances, but nevertheless we see
> 2 WIDES and sometimes RELAY a lot, Bob!!

WB4APR REPLY COMMENT:

Jump on him with BOTH FEET.  He is doing 2 things wrong.  RELAY should
NEVER follow WIDE in any path, and no one should ever use two GENERIC
hops past a GATE. PERIOD.  If he has a special place he is trying to get his
HF packets to on VHF, then he MUST use GATE,call1,call2,....
```

BUT, when I use the word NEVER, I mean almost never in routine operations. There are always exceptions, but users must understand the extreme QRM NATIONWIDE they are producing whenever they deviate from these guidelines.

153. Re: [APRSSIG:5748] Re: hf revisited

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 22:15:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105220643.4637I-100000@greatlakes>
Rendered body type: text/plain

On Fri, 5 Jan 1996, William Nolle wrote:

> I have been trying to find out who the LOCAL gate to my area is for a year
> ... and coverage circles that are out of the world. I guess what i'm
> trying to say it's quikly approacing the state where it's totally out
> of hand. There is no way i guess to get a handle on this unless the
> states can get together and come up with a controlling body to handle
this sort of thing.

WB4APR REPLY COMMENT:

Bill makes a good point. Just like repeaters and packet, coordination is important and an APRS coordinating body with some authority is probably needed in most large APRS LANS. I know I kind'a "rule" in the Balto/DC area, and Im sure that Keith "rules" in New Jersey. Ralph took charge in Georgia and Bill started it all in Alabama. There is the Illinois crowd and I have heared of such organizations in Ohio and Missouri. ITs pure politics, GOOD LUCK! hi hi

My feeling is that any GATE MUST make an effort to ID his station on the VHF side. I will add that to the DOCS...
(APRS wont do it automatically. the owner must monkey around to try to force his TNC to beacon on VHF while he is operating primarily on HF)

154. Re: [APRSSIG:5749] W7LUS-14 (Relay via LL to KB4FO)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 22:23:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105221828.4637J-100000@greatlakes>
Rendered body type: text/plain

On Fri, 5 Jan 1996, joe loewy wrote:
>
>   Path is RELAY, WIDE, GATE, GATE, WIDE

WB4APR REPLY COMMENT:

Notice, I think this is just fine for W7LUS as he is a full time 18 wheeler driver all over the country. 99% of the time, nobody hears him... but if he gets near ANY APRS station, who has a nearby GATE, he gets picked up, linked to HF and back home back to VHF...

But as soon as we have more than a *few* people doing this, then he may need to back off on the final GATE,WIDE, or set this path for only once every 15 minutes or so...

155. Re: [APRSSIG:5771] Re: W7LUS-14 (Relay via LL to KB4FO)

From: ke4eer@ro.com (William Nolle)
Date: Fri, 05 Jan 1996 22:41:52
To: aprssig@tapr.org
Message-ID: <199601060449.WAA18898@sh1.ro.com>
Rendered body type: text/plain

Well since i DO enter gate in my path whenever i see way to much abuse i might as well do it the correct way. What is the correct way to go trough my nearest (Unknown HF GATE)?. Go ahead and and throw rocks at me but nothing else has worked so far.

Bill KE4EER
ke4eer@ro.com

>On Fri, 5 Jan 1996, joe loewy wrote:
>>
>>   Path is RELAY, WIDE, GATE, GATE, WIDE
>
>WB4APR REPLY COMMENT:

>
>Notice, I think this is just fine for W7LUS as he is a full time 18
>wheeler driver all over the country. 99% of the time, nobody hears him...
>but if he gets near ANY APRS station, who has a nearby GATE, he gets picked
>up, linked to HF and back home back to VHF...
>
>But as soon as we have more than a *few* people doing this, then he may
>need to back off on the final GATE,WIDE, or set this path for only once
>every 15 minutes or so...
>

---

156. APRS via MIR

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jan 1996 23:50:39 -0500 (EST)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960105231509.4774E-100000@greatlakes>
Rendered body type: text/plain

Apparently my enthusiasm for using APRtrak to plot the locations of satellite ground stations has been interpreted as *encouraging* the use of APRS via MIR. Sorry if it came across that way. I fully respect the need for everyone to use discretion when using MIR, and I thought I always included the disclaimer that I WAS NOT encouraging the use of UI frames via MIR.

My intent was only to suggest to those stations that appear to be SENDING LONG UI FRAMES via mir ANYWAY, to at least consider shortening their brag messages to just their Grid Square so that an APRtrak station can see them on the map. I think if you re-read all of my postings without bias, you will see that is what I meant.

I guess the problem is, that if they take me up on it, then it looks like I have just encouraged another addition to the QRM... Hummh, bummer. *OR* you could interpret each grid-square packet as an accomplishment since it was sent by someone instead of their usual long brag packet... I guess it depends on your point-of-view..

Personally, I hate to see such a precious asset as MIR abused by anyone. I was just trying to suggest a BRIEFER alternative to what seemed to be a significant increase in the number of stations DIGIPEATING via MIR and attempting CONNECTIONS via MIR compounded by a series of recent articles "encouraging" everyone to connect to the MIR BBS and cosmonauts just sort-of because it is there...

---

157. APRS & IPHONE

From: ke4eer@ro.com (William Nolle)
Date: Fri, 05 Jan 1996 23:38:41
To: aprssig@tapr.org
Message-ID: <199601060546.XAA21406@sh1.ro.com>
Rendered body type: text/plain

I was just using Iphone and was chatting with some hams all over the states and got the idea (This was mentioned by someone before) of starting a APRS SIG on Iphone. It works great guys and in fact i used it a while back with Ralph N4NEQ when he needed some help with making maps using his just aquired CD-Rom. This would be another great way to discuss APRS related ideas etc. In fact just before i send this message i was asked to participate on a radio talk show using Iphone. If anyone is interested enter a private topic name APRS IPHONE SIG just as shown here all upper case. There are also two other Topic names (Amateur radio) & (Ham radio) minus the brackets of course. Let's give it a try.

Bill KE4EER
ke4eer@ro.com

---

158. Re: APRS via MIR

From: ik0mca <ik0mca@flashnet.it>
Date: Sat, 06 Jan 96 06:53:06 -0500
To: Bob Bruninga <bruninga@nadn.navy.mil>, Philip Chien <kc4yer@amsat.org>
Cc: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199601060552.GAA04421@star.flashnet.it>
Rendered body type: text/plain

-- [From: ik0mca * EMC.Ver #2.5.02] --

-------- REPLY, Original message follows --------

Date: Friday, 05-Jan-96 11:50 PM

From: Bob Bruninga   \ Internet: (bruninga@nadn.navy.mil)

```
To:   Philip Chien            \ Internet:    (amsat-bb@amsat.org)
cc:   aprssig@tapr.org        \ Internet:    (aprssig@tapr.org)

Subject: APRS via MIR

Apparently my enthusiasm for using APRtrak to plot the locations of
satellite ground stations has been interpreted as *encouraging*  the use of
APRS via MIR.  Sorry if it came across that way.  I fully  respect the need
for everyone to use discretion when using MIR, and I  thought I always
included the disclaimer that I WAS NOT encouraging the use of UI frames via
MIR.
  My intent was only to suggest to those stations that appear to be SENDING
LONG UI FRAMES via mir ANYWAY, to at least consider shortening their  brag
messages to just their Grid Square so that an APRtrak station can  see them
on the map.  I think if you re-read all of my postings without  bias, you
will see that is what I meant.
    I guess the problem is, that if they take me up on it, then it looks
like I have just encouraged another addition to the QRM...  Hummh, bummer.
*OR* you could interpret each grid-square packet as an accomplishment  since
it was sent by someone instead of their usual long brag packet... I guess it
depends on your point-of-view..
    Personally, I hate to see such a precious asset as MIR abused by  anyone
.  I was just trying to suggest a BRIEFER alternative to what seemed to be a
significant increase in the number of stations DIGIPEATING via MIR and
attempting CONNECTIONS via MIR compounded by a series of recent articles
"encouraging" everyone to connect to the MIR BBS and cosmonauts just sort-of
because it is there...


-------- REPLY, End of original message --------
```

159. Tapr problem again

From: ke4eer@ro.com (William Nolle)
Date: Sat, 06 Jan 1996 00:19:05
To: aprssig@tapr.org
Message-ID: <199601060626.AAA23448@sh1.ro.com>
Rendered body type: text/plain

```
I'm getting many many duplicate messages returned to me by Tapr. I figured
it might have been since i was absent from the sig for a while so i
Unsubscribed, then subscibed again but that didn't stop it so i hope this can
be taked care of (Fixed) i hope.

Bill KE4EER
ke4eer@ro.com
```

160. Re: [APRSSIG:5774] APRS & IPHONE

From: Ed Rogers <edwardwr@inil.com>
Date: Sat, 6 Jan 1996 08:10:16 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601061410.IAA16097@sys1.tapr.org>
Rendered body type: text/plain

```
At 11:51 PM 1/5/96 -0600, you wrote:
>I was just using Iphone and was chatting with some hams all over the states
>and got the idea (This was mentioned by someone before) of starting a
>APRS SIG on Iphone. It works great guys and in fact i used it a while back
>with Ralph N4NEQ when he needed some help with making maps using his
>just aquired CD-Rom. This would be another great way to discuss APRS
>related ideas etc. In fact just before i send this message i was asked to
>participate on a radio talk show using Iphone. If anyone is interested enter
>a private topic name APRS IPHONE SIG just as shown here all upper case.
>There are also two other Topic names (Amateur radio) & (Ham radio) minus
>the brackets of course. Let's give it a try.
>
>Bill KE4EER
>ke4eer@ro.com
>
>
Bill,

Will I-PHONE allow "conference" style calls? I have used WEB phone here
(thanks to KN4IM Larry) but it only allows single party , one on one, calls.
BTW it works very,very well for that application. Maybe something like
POW-WOW where we could round table via keyboard to keyboard and "control"
access, IRC can be a zoo.

I think the concept has merit.
```

Anyone else have a comment?

Ed
N9LCI

"Not only live near the Great Lakes but I sail the damm things (when the ice
is out <grin>")
>

161. Test Message

From: ke4eer@ro.com (William Nolle)
Date: Sat, 06 Jan 1996 08:30:44
To: aprssig@tapr.org
Message-ID: <199601061438.IAA03395@sh1.ro.com>
Rendered body type: text/plain

This is a test message only ;-)

162. Re: [APRSSIG:5756] Re: 440 APRS Freq?

From: Jess Girard <girard@panix.com>
Date: Sat, 6 Jan 1996 10:25:09 -0500 (EST)
To: aprssig@tapr.org
Cc: wmyoreo@aol.com
Message-ID: <Pine.SUN.3.91.960106102312.1383A-100000@panix.com>
Rendered body type: text/plain

On Fri, 5 Jan 1996 WMYOREO@aol.com wrote:

> This is Bill, K1TRS in Connecticut. I am using 445.925 here in the greater
> Hartford area. We have three stations on now and the hope of more to come.

Hi Bill:

What stations are you connected with on 445.925? Can they be reached via you? I can see your station through WA1LOU's digi.

73
Jess
ND1L (Westport)

163. Re: [APRSSIG:5777] Re: APRS & IPHONE

From: n2czf@gate.net
Date: Sat, 6 Jan 1996 10:32:47 -0500
To: aprssig@tapr.org
Message-ID: <199601061532.KAA12560@osceola.gate.net>
Rendered body type: text/plain

I ran Iphone for several weeks here for several hours a day, the program is quite interesting. I had the opportunity to talk up APRS with some fellow amateurs in the Western States and even sent them copies of APRS to try out, great way to "spread the word" since all Iphone users of course own a PC and most are really interested by digital communications.

I was the first to jump on and post the topic APRS (for Hams Only) and found that I got 1 whole phonecall (Ralph N4NEQ!) I keept on runing the topic every day for a few weeks and posted a message on the sig about it but all the other phonecalls I got were from "bevis and butthead fans". A LOT of strange people traverse Iphone and many of them tried the APRS subject, oh well. The for Hams only seemed to help a bit but not totally, got to think of something short but that gets the point across since the subject box will NOT show much more than APRS (for Hams only).

Been busy testing WinAPRS here so I have not been on in a long time but if I see more interest I will make some time and get back on weekends. BTW don't be surprised if you connect to me and get Scanner Audio, I run my 400ch scanner here in the shack 24hrs a day and it goes thru my PC speakers. A side benifit is that it also goes thru my blaster and out over Internet if I am away from the computer.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

164. FL HF Activity Tests on 40/80 Meters

From: n2czf@gate.net
Date: Sat, 6 Jan 1996 11:01:57 -0500
To: aprssig@tapr.org
Cc: kheyboer@pinegov.co.pinellas.fl.us

Message-ID: <199601061601.LAA28066@osceola.gate.net>
Rendered body type: text/plain

Ok people we seem to have interest from all portions of the state now except from Jacksonville and the SW area Naples/Ft. Meyers. Please excuse the general reply but I have received over 10 messages about the topic and wanted everyone to get the same reply message so nothing was left out.

General feelings seem that no one is interested in leaving a 24hr gate up or even a 24hr HF beacon for monitoring except for one other person than myself.I guess we can handle that as long as the hours of operation are understood and we can get most people to be there at somewhat the same time give or take. The idea is to compare the printing of positions maybe on a weekly basis either on a HF voice net or on the sig to see if everything is working or if changes are needed to be made.

Step two is to see what hours are good for MOST people, I know that everyone can't be on at the same time so we got to get some idea of what is BEST. The improtant thing is that this is done EVERY DAY, the daily part is the important factor for the test for reliability.

Step three is to make sure everyone has a antenna for the band that hopefully favors the state, if you don't have one start stringing it up. I am planing to do mine this weekend. I have one already but that is also on my 30M dipole that will need to stay on the 30M gate I run. If possible while doing the 40M antenna try to get a 80M dipole strung to the same coax in case we decide to switch to 80M. The 80M frequency may also be a good one to run a APRS Voice net during the test on the weekends.

Let me hear from you on what times you can operate, I will see what the consensus is and let everyone know. Once that is completed I wiill give everyone about a week to get ready and post an exact date to start. By all means get on 40M and work it if you got it before the test. I do know that 7.085 is busy with some Caribian stations on occasion but do not worry too much. They will QSY a bit after they get the hint. Many years ago APRS never did exist on 30M, yes that is correct.. APRS was on 7.085 ONLY! Only after a trip to AL. by WB4APR and a fix to the W3ADO 30M radio did APRS start using 30M as was intended. The frequency did not have that many problems and last year while I ran 40M APRS the traffic on .085 did move again after a few days of heavy APRS operations. They jumped on since we disappeared and left a nice blank hole in a busy band. If our pre-tests show that .085 will not clear up that will still give us time to chose an alternate before the test. Just remember this is not 30M, we will have QRM and more QRN I do not think we will EVER find a totally clear frequency so keep that in mind.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

165. Re: [APRSSIG:5706] RE: High Gain Beams

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 06 Jan 1996 10:49:20 -0600
To: aprssig@tapr.org
Message-ID: <199601061646.KAA21042@sys1.tapr.org>
Rendered body type: text/plain

>The main application for high-gain beams within APRS (IMHO, of course)
>is for UHF gateways and/or linking two almost-close metro areas without
>having to use HF. As an example, WIDEs in Chicago and Milwaukee (90
>miles apart) can't reliably hear each other all the time (not WIDE enough
>- hi hi.)

Beams definetly do have and application for APRS in the above instance. When you get closer to the great lakes :-) and further west those metro area's tend to get spread out and a beam does a nice job of linking them until such a time as the density of full time APRS sites increase's.

If my geography isn't to rusty I think I remember that the population density is greater in the left and right coast's as opposed to the midewest; and I sure as heck have never seen a mountaintop in the midwest. Towers and beams are a definite plus in the great flat lands!

As for getting a better rep of coverage area I find APRS PHG to be a tad conservative but accurate. I twisted the arm of my local communications shop to use their site analysis software, they have great terrian modeling so I get to see all the holes in the coverage.

A good way to get the modeling from them as a freebie is to show them APRS they just go nut's when they see it.

---

David E. Barrett
barrettd@crpl.cedar-rapids.lib.ia.us

---

```
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


        _
      _( )_
    _(     )_
   (_________)
     \  \  \
       \  \
```

---

166. Re: [APRSSIG:5737] Re: Use of APRTRAK

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 06 Jan 1996 11:27:09 -0600
To: aprssig@tapr.org
Message-ID: <199601061723.LAA22224@sys1.tapr.org>
Rendered body type: text/plain

```
>Bob,
>
>You've been doing an excellent job of promoting APRS.  Some might even say
>an excellent job of trying to shove it down everybody's throats.

Gee and I thought I made a personal decision to obtain a copy all by my lonsome!

>When Dave Larson N6JLH, who is the authorized Mir QSL manager for North
>America, says not to send APRS through Mir - I'd much rather listen to him,
>than _your_ justifications as to why APRS is better, has greater
>educational value, or is the best thing since sliced bread.

God does that line sound like the ARRL? I just love it when orginizations
that solicit donations and charge dues takes on a dictorial tone! I've
stated before that I had been discouraged for years of becoming a Ham
because of the mines better than yours, mines official,sactioned or whatever
retoric.

>Like it or not APRS is a closed standard - your standard.  The only ones
>who are writing APRS-compatible software are those authorized by the
>founders (e.g. MacAPRS).  And while you may want to encourage its use for
>every packet application conceivable (see your demo.txt file for examples),
>it is not your place to encourage its use with Mir or SAREX when the people
>who are responsible for those activities are not encouraging it - and are
>discouraging its use.
>While you may thing that APRS is the best thing ever made - others clearly
>disagree, because it has *not* been established as something sanctioned by
>the Mir or SAREX folks.

Gee couldn't be because of the old NOT INVENTED HERE syndrome could it?

>
>Let SPRE speak for itself.  That's one place where APRS has been authorized
>as the communications standard of choice, and its success - or not - will
>help encourage more people on the APRS bandwagon better than any of the
>lobbying you've been doing.

>Just MHO.
            y o p
               r i
               sn
               ei
               s o
               hn
               i
               t

>Philip Chien, Earth News - space writer and consultant  PCHIEN@IDS.NET
                                                                ^ IT FIGURES
^Don't you just love them?

I'll probably be banned from this list for my reply but for some reason this
just touch a nerve! Let me know if I should go seek absolution for this.

---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good

        _
```

```
      _( )_
    _(     )_
   (_________)
     \  \  \
       \  \
```

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167. Re: [APRSSIG:5740] Re: Use of APRTRAK

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 06 Jan 1996 11:29:07 -0600
To: aprssig@tapr.org
Message-ID: <199601061725.LAA22260@sys1.tapr.org>
Rendered body type: text/plain

```
>> Is there a "rulebook" somewhere on operating through/with Mir?  I.e.,
>> where it says "APRS through Mir is verboten" and provides guidelines
>> on what else isn't permitted, as well as what is OK?
>
>Not per se, but there have been a number of operating hints, requests, etc.,
>with reasons and rationales, posted on AMSAT's list, AMSAT-BB.  I'll report
>the next copy I see come across.
>
>
>73, gerry
>n5jxs@tamu.edu
           ^ A much nicer guy on this topic!!

---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


        _
      _( )_
    _(     )_
   (_________)
     \  \  \
       \  \
```

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168. New (?) U2000 bug

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Sat, 06 Jan 96 11:25:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <30EEB113@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

Sat 06-01-96

It got cool here in Minneapolis/St. Paul over night... -20F, or so. Even deep in the heat island it was -10. My U2000 reported the temp correctly, but the data as transmitted and displayed on APRS ver. 7.4c wasn't.. The data was folded about 0F. The *value* was correct (including rounding in the proper direction when below zero), but the minus sign was missing, making it look a LOT warmer than it was. HI!

Just a warning

73, Donn
WA2VOI EN35ja

---

169. Re: [APRSSIG:5781] FL HF Activity Tests on 40/80 Meters

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 6 Jan 1996 12:37:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960106123421.6045D-100000@greatlakes>
Rendered body type: text/plain

On Sat, 6 Jan 1996 n2czf@gate.net wrote:

> ..... If possible while doing the 40M antenna
> try to get a 80M dipole strung to the same coax in case we decide to switch
> to 80M. The 80M frequency may also be a good one to run a APRS Voice
> net during the test on the weekends.

WB4APR REPLY COMMENT:

I think that 80 M will only be useful diring the day. At night, the

```
sigs' will be very strong, but impossible to demodulate due to multipath...
But experiment and let us know...
```

---

170. Re: [APRSSIG:5774] APRS & IPHONE

```
From: Mickey Espsoito <mickey@intellinet.com>
Date: Sat, 06 Jan 1996 17:43:37 -0600
To: aprssig@tapr.org
Message-ID: <30EF0929.7F4D@intellinet.com>
Rendered body type: text/plain
```

```
William Nolle wrote:
>
> I was just using Iphone and was chatting with some hams all over the states
> and got the idea (This was mentioned by someone before) of starting a
> APRS SIG on Iphone. It works great guys and in fact i used it a while back
> From Dom, WJ5V;A note on these phone programs- you haven't seen anything until you
tried CYBERFONE, beta 0.8 is out and 0.9 by next week so I am told. From
an amateur radio standpoint, I found it the closest to full duplex one
can get without really being there. The audio response is excellent
(provided you have 28.8. they are working on the 14.4 problem). This
program is really no frills like webphone but straightforward and very
simple to master. Not a sales pitch, not affiliwated in any way-but know
a value when I see one.
```

---

171. Re: [APRSSIG:5753] Clueless question

```
From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Sat, 6 Jan 1996 14:38:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960106140541.10879A-100000@paccomm>
Rendered body type: text/plain
```

```
On Fri, 5 Jan 1996, Gregory R. LaBorde wrote:

> Could someone explain to me why digipeating an AX.25 packet that contains
> information readable by any system capable of AX.25 packet, and usable by
> particular software programs known by various permutations of the name
> "APRS", is somehow fundamentally different than digipeating "hey, this is
> Joe!!!"?
>
> It is not clear to me that APRS is a different "protocol" than a bunch of
> people sitting around using unconnected packets to talk. Someone has just
> automated it a bit and focused the exchanged information in a geographical
> sense.

Well stated, Greg.

APRS is an application. One could call the various conventions of how the
data is used a protocol, but that would be a different meaning of
protocol than that involving UI frames vs virtual circuits.

I have been extremely impressed with the power and flexibility obtained
using UI frames. (In our commercial applications we hardly ever use
connections any longer.) We've learned a thing or two from Bob's
innovations in the use of repeater aliases.

> I agree that the operators of the space stations such as Mir should have
> the final say on what is and is not allowed. I think it should either be OK
> or not OK to digipeat [UI] frames via a particular space station. Limiting
> what type of UI frame gets through seems artificial (and do not cite
> TCP/IP, in which a connected protocol "rides atop" unconnected AX.25 [UI]
> frames. That *is* different.).

I was under the impression that ALL UI frames are being discouraged. But
that is the main point Bob is trying to make (with which I heartily
agree): You can do more with less if you use UI frames. Since the 1200
baud MIR channel is a limited resource, we should be looking at 'doing
more with less.'

The primary reason the packet equipment is on the MIR is for the benefit
of the Cosmonauts and visiting Astronauts. They, through their
terrestrial spokesmen, should make the rules. IMHO the secondary purpose
of the equipment should be for benefitting the amateur radio hobby (in
particular) and mankind (in general). Just like SAREX, the more kids you
can get excited and headed into a productive life (hopefully as a radio
amateur) the more successful the work is. (Again IMHO) using the MIR or
SAREX as one more DX or contest object is not what it is all about.

> Enlighten me.
>
```

> -Greg
>
> PS Dave, N6JLH, while a truly amazing individual with quite a story, if you
> can pry it out of him, is the North American Mir QSL Manager. Does that
> make him the same as a Mir station control operator? If not, any final word
> should come from them (even if via Dave).

Well, I have only good things to say about Dave. I would presume he feels
strongly about misuse of the MIR packet link and thus is motivated to go
after those he thinks are abusers.

We're back to what Bob said (if a bit indelicately): Understanding the
purpose of doing UIs through the MIR. I cannot speak for Dave's opinion
on this matter, so this is not intended to be putting words in his mouth.

Perhaps UI frames are thought of as only BEACONS by some folk, and
beacons have gotten a bad name in the packet world (somewhat unfairly, I
think.) Maybe everyone just needs to take a fresh look at what their
talking about.

I read the messages about too many WIDES and too frequent beacons in
South Florida. Reminds me of 1983! Same problem then. Some folks just
like to send beacons. And there are guys that like to get on the FM voice
repeater and talk about nothing for hours. Welcome to ham radio.

Back then I advocated a separate frequency just for beaconing. Let guys
see how fancy they can be - how is it any different than RTTY pictures?
If you like that sort of thing, go there. If not, stay away. At least
APRS has its own frequency.

One of the biggest selling factors for packet back when it was quite new
was the idea that we can all share the same frequency since the equipment
and protocol will 'take care of it.' In fact, we had to work to herd
people onto one frequency as they habitually wanted to set up local nets.
But then we were trying to grow from 30 packeteers to 40 in the Tampa
area and we needed more activity. Over the years that message of hanging
in on one frequency has perhaps done more harm than good. Too many people
on 145.01 and it bogs down.

Well, the MIR packet freq bears comparison to 145.01 back when. It is a
limited resource, and in the end, a solution of sharing must be found. If
gentlemanly attitudes prevail, I'm sure a solution can be worked out.
That might be rather noteworthy, but we musn't lose hope.

```
> --
> Gregory R. LaBorde - KD6MSM         | Internet: laborde@kilroy.jpl.nasa.gov
> Jet Propulsion Laboratory           | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
> Systems Engineering - Galileo OET   | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
> M/S 264-805 4800 Oak Grove Drive    | Phone   : (818) 393-1107
> Pasadena, CA  91109                 |
>
```

Gwyn Reedy, W1BEL

---

172. Re: [APRSSIG:5774] APRS & IPHONE

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 06 Jan 1996 13:01:04 -0700
To: aprssig@tapr.org
Message-ID: <199601062001.NAA01056@usr4.primenet.com>
Rendered body type: text/plain

At 11:51 PM 1/5/96 -0600, you wrote:
>I was just using Iphone and was chatting with some hams all over the states
>and got the idea (This was mentioned by someone before) of starting a
>APRS SIG on Iphone. It works great guys and in fact i used it a while back
>with Ralph N4NEQ when he needed some help with making maps using his
>just aquired CD-Rom. This would be another great way to discuss APRS
>related ideas etc. In fact just before i send this message i was asked to
>participate on a radio talk show using Iphone. If anyone is interested enter
>a private topic name APRS IPHONE SIG just as shown here all upper case.
>There are also two other Topic names (Amateur radio) & (Ham radio) minus
>the brackets of course. Let's give it a try.
>
>Bill KE4EER
>ke4eer@ro.com
>
>

Sounds like a great to me, we could, also, use WebPhone, which, having used

```
both, I think is a little better. If you do it please count me in!!

73, and Happy New Year,

      Alan


>
Alan K. Unangst, WC7R
alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

173. W7LUS Contact

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)
Date: Sat, 06 Jan 1996 15:20:17 EST
To: aprssig@tapr.org
Message-ID: <091.08061935.MBTD87A@prodigy.com>
Rendered body type: text/plain

```
-- [ From: Mike Heskett * EMC.Ver #2.10P ] --

Saturday afternoon, Peter (W7LUS) was in the area of the Dallas-Ft
Worth airport waiting to load for a trip to Atlanta. Had a nice
keyboard chat with him via APRS while he was waiting to load.

Mike - WB5QLD
```

---

174. Re: FL HF Activity Tests on 40/80 Meters

From: Willson Flor <willf@rrgroup.com>
Date: Sat, 6 Jan 1996 15:08:25 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3960106150827GC005C00@rrgroup3>
Rendered body type: text/plain

```
You wrote:
----------
From:   Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent:   Saturday, January 06, 1996 11:48 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:5786] Re: FL HF Activity Tests on 40/80 Meters

.       On Sat, 6 Jan 1996 n2czf@gate.net wrote:
.
.       > ..... If possible while doing the 40M antenna
.       > try to get a 80M dipole strung to the same coax in case we decide to
switch
.       > to  80M. The 80M frequency may also be a good one to run a APRS Voice
.       > net during the test on the weekends.
.
.       WB4APR REPLY COMMENT:
.
.       I think that 80 M will only be useful diring the day.  At night, the
.       sigs' will be very strong, but impossible to demodulate due to
multipath...
.       But experiment and let us know...

Any thoughts on NVIS 80M at night?  Would this help with the multipath
problem?

73 de KB9JTT
```

---

175. W7LUS-14 Mobile on APRS

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Sat, 6 Jan 96 15:05:00 -0600
To: aprssig@tapr.org
Message-ID: <59.49673.99.0C38EDBD@drig.com>
Rendered body type: text/plain

```
Per previous posts,

heard W7LUS-14 (Peter) mobile in his truck today as he was loading
his shipment at LBJ Freeway and Royal Lane (Dallas, Texas).

He apparently is watching for local HF GATES to pass on his
traffic.

de N5ITU, jeff
Dallas Remote Imaging Group
```

176. Re: [APRSSIG:5787] Re: APRS & IPHONE

From: rwf <rwf@mindspring.com>
Date: Sat, 6 Jan 1996 17:15:23 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960106172207.3d6fa862@mindspring.com>
Rendered body type: text/plain

```
Dom  wrote:

>> From Dom, WJ5V;A note on these phone programs- you haven't seen anything
until you
>tried CYBERFONE, beta 0.8 is out and 0.9 by next week so I am told.



So, why not tell us *where to get it*T???
```

---

177. On Iphone Now Sat. 19:00 EST

From: n2czf@gate.net
Date: Sat, 6 Jan 1996 18:54:56 -0500
To: aprssig@tapr.org
Message-ID: <199601062354.SAA05876@osceola.gate.net>
Rendered body type: text/plain

```
Well people I am on Iphone currently and saw Larry KN4IM but could not connect,
guess he signed off since he no longer appears on the list.

APRS (For Hams Only) is on the topic listing and will be posted as long as I
stay on. I do not stay on much since APRS is down while I play with iternet but
I will try to be on till 21:00 EST.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

178. Re: [APRSSIG:5758] Extending APRS suggestions (to beam or not to beam that is...

From: WB4LTF@aol.com
Date: Sat, 6 Jan 1996 18:53:56 -0500
To: aprssig@tapr.org
Message-ID: <960106185355_85007100@emout05.mail.aol.com>
Rendered body type: text/plain

```
What ever happened to "KISS"

Bud
wb4ltf@aol.com
```

---

179. Re: [APRSSIG:5770] Re: hf revisited

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 7 Jan 1996 00:13:52 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960107001055.27259A-100000@pinegov>
Rendered body type: text/plain

```
On Fri, 5 Jan 1996, Bob Bruninga wrote:

> On Fri, 5 Jan 1996, William Nolle wrote:
>
> > I have been trying to find out who the LOCAL gate to my area is for a year
> > ... and coverage circles that are out of the world. I guess what i'm
> > trying to say it's quikly approacing the state where it's totally out
> > of hand. There is no way i guess to get a handle on this unless the
> > states can get together and come up with a controlling body to handle
> this sort of thing.
>
> WB4APR REPLY COMMENT:
>
> Bill makes a good point.  Just like repeaters and packet, coordination is
> important and an APRS coordinating body with some authority is probably
> needed in most large APRS LANS.  I know I kind'a "rule" in the Balto/DC
> area, and Im sure that Keith "rules" in New Jersey.  Ralph took charge in
> Georgia and Bill started it all in Alabama.  There is the Illinois crowd
> and I have heared of such organizations in Ohio and Missouri.  ITs pure
> politics, GOOD LUCK! hi hi
>
> My feeling is that any GATE MUST make an effort to ID his station on the
> VHF side.  I will add that to the DOCS...
> (APRS wont do it automatically. the owner must monkey around to try to
> force his TNC to beacon on VHF while he is operating primarily on HF)
```

>
>
Regarding the mysterious GATE Bill is having problems locating...I
suggest you simply ask,,,but if that doesn't work....look for his ID
beacon...mine is KD4UYR> KD4UYR KD4UYR-1/B ECHO/D GATE/G KD4UYR-7/N...

Perhaps this would all be solved if the US required CW ID like the
Europeans have....

73 de Kevin KD4UYR

---

180. APRTRAK keps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 6 Jan 1996 23:59:46 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.orb
Message-ID: <Pine.SUN.3.91.960106235335.6874C-100000@greatlakes>
Rendered body type: text/plain

> From: Alan K. Unangst <alanwc7r@primenet.com>
>
> .... however, I am having a problem getting the KEPS
> entered into the program. The program stores nine (9) sets of
> information, and all nine (9) are in the .ORB file, and I have been unable
> to find a way to erase two(2) inorder to enter, and save, the two (2) sets
> of elements you sent me for STS-72/SPREE....HELP.

WB4APR REPLY COMMENT:

Sorry it is not very user friendly yet. For now, use a TEXT editor to change
any two of the existing 9 KEPS in the .orb file to the desired NEW OBJ
numbers. Then either 1) Edit in the keps, or 2) Run APRtrak and tell it
to now update the keps from a file containing the two new ones... Since now
the OBJ numbers will match, it will update...

---

181. APRS coordination bodies

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jan 1996 00:07:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960107000157.6874D-100000@greatlakes>
Rendered body type: text/plain

> On Fri, 5 Jan 1996, Bob Bruninga wrote:
>
> Bill makes a good point. Just like repeaters and packet, coordination is
> important and an APRS coordinating body with some authority is probably
> needed in most large APRS LANS. I know I kind'a "rule" in the Balto/DC
> area, and Im sure that Keith "rules" in New Jersey. Ralph took charge in

WB4APR REPLY COMMENT:

Now that was another stupid thing for me to say! The word "rule" was
tongue-in-cheek.... An organized coordinating body without dominance
by any single individual is what is probably best...

(except in MY-back-yard... hi hi)

---

182. Re: [APRSSIG:5777] Re: APRS & IPHONE

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Sun, 7 Jan 1996 01:59:28 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199601070859.BAA29587@usr4.primenet.com>
Rendered body type: text/plain

At 08:18 AM 1/6/96 -0600, Ed Rogers wrote:
>>
>Bill,
>
>Will I-PHONE allow "conference" style calls?

No, but "one-on-one" discussions can be very helpful & informative. I was
demonstrating I-phone to a skeptic who asked, "yeah, but is their an UNIX
section
on I-phone?"

To my surprise there was a UNIX talk group, and within seconds of me logging
on to the section, we got a call from a med student in Little Rock. My
friend had about a 45 minute chat with him...they both learned something,
and Greg became a believer.

I think it would be quite helpful.

Mark Fellhauer
KC7BXS
sparkfel@primenet.com
I-phone registered user

---

183. Re: [APRSSIG:5781] FL HF Activity Tests on 40/80 Meters

From: KD4EMI@aol.com
Date: Sun, 7 Jan 1996 09:13:07 -0500
To: aprssig@tapr.org
Message-ID: <960107091306_34224071@emout05.mail.aol.com>
Rendered body type: text/plain

I can have my gate on 24 hours...BUT
I use a loop antenna and can operate from 10-30 MHZ only.
Any suggestions.
Mike
KD4EMI@AOL.COM

---

184. Re: [APRSSIG:5799] Re: APRS & IPHONE

From: ke4eer@ro.com (William Nolle)
Date: Sun, 07 Jan 1996 08:18:54
To: aprssig@tapr.org
Message-ID: <199601071426.IAA09621@sh1.ro.com>
Rendered body type: text/plain

I hear stories like that all the time. I hate to say it but i have talked with many many Amateur radio operators that are letting their equipment collect dust when switching to one of the internet phone systems. Last night i spoke with a ham in NJ and he stated that since using Iphone for the last 6 month's he hasn't used and ham gear at all. Now this is a person that has been a ham for 31 years!. I don't like to see that but it does have a place for an application like i stated before and i have to agree with with Mark and his message below. I know this is a little of topic but i must tell you a story that that the ham told me and swore to be a true store. He was a heavy HF equipment user and one that gave his one neighbor a big dose of TVI. His neighbor approached him one day and told the ham if you promise not to use you ham radio equipment again i will pay for your Internet access every month. He said that he took the neighbor up on his offer and hadn't been on any hamband since. In any case if you are planning to give Iphone a try remember the private topic name is:

APRS IPHONE SIG

Bill KE4EER
ke4eer@ro.com

>>Will I-PHONE allow "conference" style calls?
>
>No, but "one-on-one" discussions can be very helpful & informative. I was
>demonstrating I-phone to a skeptic who asked, "yeah, but is their an UNIX
>section
>on I-phone?"
>
>To my surprise there was a UNIX talk group, and within seconds of me logging
>on to the section, we got a call from a med student in Little Rock. My
>friend had about a 45 minute chat with him...they both learned something,
>and Greg became a believer.
>
>I think it would be quite helpful.
>
>Mark Fellhauer
>KC7BXS
>sparkfel@primenet.com
>I-phone registered user
>
>

---

185. Re: [APRSSIG:5785] New (?) U2000 bug

From: schiers@ibm.net (hasan schiers)
Date: Sun, 07 Jan 96 00:45:55 EST
To: aprssig@tapr.org
Message-ID: <199601071422.OAA16809@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Sat, 6 Jan 1996 11:30:32 -0600 (CST) you wrote:

  My U2000 reported the temp correctly,
>but the data as transmitted and displayed on APRS ver. 7.4c wasn't.. The
>data was folded about 0F. The *value* was correct (including rounding in
>the proper direction when below zero), but the minus sign was missing,
>making it look a LOT warmer than it was. HI!

That is the least of the problems with APRS and the u-2000...Bob is working on a fix. Until then, it will either work not at all (my experience, with comm overflow errors), or unreliably. Be patient. Bug reports now are not very useful...not until he puts out a version that is "supposed" to work. No current version is supposed to work, so whatever you get is at best, luck. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

186. Re: [APRSSIG:5800] Re: FL HF Activity Tests on 40/80 Meters

From: n2czf@gate.net
Date: Sun, 7 Jan 1996 11:00:27 -0500
To: aprssig@tapr.org
Message-ID: <199601071600.LAA09620@osceola.gate.net>
Rendered body type: text/plain

Well if you can only use your loop and the loop only operates from 10-30 MHz I guess that means you will need to sit it out, not much you can do.

No need to worry though since Dennis for all intents and purposes is at your same QTH as far as HF is concerned, he is willing to help out.

BTW for everyome reading this a GATE is not a necessary piece of equipment, it will just make things easyer. The GATE will cause the frequency to be busyer so that propagation can be better monitored using the VHF packets going out to GATE as a beacon.

This is also one point that I have brought up with one other person. Since it seems that it will be helpful IN THIS SITUATION to have some stations on VHF GATE to HF (not on the 30M net!)I may very well kill my 30M GATE during the tests. I may also do a alias of GATE7 instead on 40M to keep 30M on the air but that will also make sifting thru the traffic difficult. It may be better for all if 30M is shut down for that time, if someone is printed on the screen that means it was either 2M or 40M, no if anr or buts about it!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

187. Re: APRS Track

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jan 1996 11:12:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960107110941.7580B-100000@greatlakes>
Rendered body type: text/plain

On Sun, 7 Jan 1996 n2czf@gate.net wrote:

> Just to let you know I tried APRTRAK today, did not think there would be a
> problem since others have used it so far but I had one. Seems tha the program
> sends my TNC (The PK-900) into Transparent mode!

WB4APR REPLY COMMENT:

WARNING TO EXPERIENCED APRS USERS: When you do an OPS-COM in APRtrak, you dont need to hit T to talk to your TNC, since there are no other options. You probably hit T by habit and that put you into TRANSPARENT. Happend to me too!

---

188. ax.25 OVER INTERNET

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 07 Jan 1996 14:58:29 -0600
To: aprssig@tapr.org
Message-ID: <199601072054.OAA13920@sys1.tapr.org>
Rendered body type: text/plain

To those that have expressed a desire to link APRS locations by using the internet might find the following to be of intrest.

```
----------------------------------------------------------------------------
--------------------------------------------------
 AXIP encapsulation daemon.

BY Mike Westerhof KA9WSB, ported to Linux by Ron Atkinson N8FOW.

Description
     A daemon that will allow you to use your linux machine as an AXIP
encapsulating gateway.

Status
     Not properly tested, but assumed to work OK.

System requirements
     KISS TNC, any version of Linux supporting RAW sockets.

Detail
     This daemon is the partner to the IPIP encapsulation daemon. It allows
you to encapsulate AX.25 frames in IP to carry them across the Internet.
This is useful for linking AX.25 networks in remote areas. Ron has supplied
a Makefile for linux, and with it the software  compiled without errors on
my system running a recent version kernel. Ron has also written some README
files which give you the  detail necessary to compile the system and the
original documentation describes how to configure it.

Where and How to obtain it.
     This software is available from

     ftp://sunsite.unc.edu/pub/Linux/apps/ham/ax25ip.tar.gz

Licensing/Copyright etc.
     Freely distributable so long as the original copyright notice is not
removed.

Contributed by:
     Ron Atkinson, N8FOW
----------------------------------------------------------------------------
----------------------------------------------------
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

189. Re: [APRSSIG:5805] ax.25 OVER INTERNET

From: "Sam Nabkey" <snabkey@wingsbbs.com>
Date: Sun, 7 Jan 1996 18:02:10 -0500
To: aprssig@tapr.org
Message-ID: <199601072302.RAA17645@sys1.tapr.org>
Rendered body type: text/plain

```
On  7 Jan 96 at 15:05, David E. Barrett wrote:

> Date:          Sun, 7 Jan 1996 15:05:26 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:5805] ax.25 OVER INTERNET

> To those that have expressed a desire to link APRS locations by using the
> internet might find the following to be of intrest.
>
> ----------------------------------------------------------------------------
> --------------------------------------------------
>  AXIP encapsulation daemon.
>
> BY Mike Westerhof KA9WSB, ported to Linux by Ron Atkinson N8FOW.
>
> Description
>      A daemon that will allow you to use your linux machine as an AXIP
> encapsulating gateway.
>
> Status
>      Not properly tested, but assumed to work OK.
>
> System requirements
>      KISS TNC, any version of Linux supporting RAW sockets.
>
> Detail
>      This daemon is the partner to the IPIP encapsulation daemon. It allows
> you to encapsulate AX.25 frames in IP to carry them across the Internet.
> This is useful for linking AX.25 networks in remote areas. Ron has supplied
> a Makefile for linux, and with it the software  compiled without errors on
> my system running a recent version kernel. Ron has also written some README
> files which give you the  detail necessary to compile the system and the
> original documentation describes how to configure it.
>
> Where and How to obtain it.
>      This software is available from
>
>      ftp://sunsite.unc.edu/pub/Linux/apps/ham/ax25ip.tar.gz
>
> Licensing/Copyright etc.
>      Freely distributable so long as the original copyright notice is not
> removed.
>
> Contributed by:
>      Ron Atkinson, N8FOW
> ----------------------------------------------------------------------------
> ----------------------------------------------------
> ---------------------------------------------------------------------
>                  David E. Barrett
>        barrettd@crpl.cedar-rapids.lib.ia.us
> ---------------------------------------------------------------------
>      If I can't give you a good sound reason
>      I'll give you a reason that sounds good
>
>        _
>      _( )_
>    _(     )_
>   (_________)
>     \  \  \
>       \  \
>
>
```

This is EXACTLY what I am was talking about earlier with JNOS. I
don't know alot about it but I was told it would work.

I think I can still get the extra Serial Port on our JNOS system,
somebody wanna try it?

I am game.

____

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

---

190. Re: [APRSSIG:5806] Re: ax.25 OVER INTERNET

From: KD4EMI@aol.com
Date: Sun, 7 Jan 1996 18:56:23 -0500
To: aprssig@tapr.org
Message-ID: <960107185512_85540134@emout05.mail.aol.com>
Rendered body type: text/plain

IT sounds great..what's JNOS though...

(only kidding)

Mike KD4EMI@AOL.COM

---

191. subscribe

From: Randall Berger <berger@applink.applink.net>
Date: Sun, 7 Jan 1996 18:44:00 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADD30.44506C80@rgb.applink.net>

Rendered body type: text/plain

subscribe

---

192. MacAPRS 2.2.0

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Sun, 7 Jan 96 22:10:50 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.821070650.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

```
MacAPRS 2.2.0 is FINALLY out!

Both the 68K and PPC versions are up on TAPR..  Come and get it!!!



MacAPRS 2.2.0 has a lot of new features...


*       Full support for the Peet Bros U-2000, including Pressure

*       Better capabilities for switching Unproto-Paths

*       The messages in the MESSAGE window are now able to be SORTED
        You can select which column is sorted by clicking on that column
        at the top of the window. You can sort by:
        - Who FROM
        - Who TO
        - Date/Time msg was RECEIVED    (This is the DEFAULT sort)
        - alphabetic sort by message content.

MAPS!!  Lots of new stuff with MAPS..

*       You can now put PC- MAPS directly into the MAPS folder and
        MacAPRS will recognize them WITHOUT having to convert them first!!
        (Make sure you UN-ZIP them before you put them into the MAPS folder)

*       Map LIST
        This was added because of a 'PROBLEM' with Windoze...  :-(
        In WINDOZE, a MENU can only be as long as the screen is tall.
        i.e. if you have a 14" monitor, you can have so many menu items,
        and if you have a 17" monitor, you can have MORE items!
        Well, some people have LOTS AND LOTS of maps... WinAPRS would support
        this, but you could ONLY select those at the top of the list..
        So, we added a window called MAP LIST, which shows LOTS of info about
        all of the maps.. And, you can double click on a line (map) in this
        window, and it will bring that map up as a NEW map window...

*       I now have a new source of MAP DATA, that I am starting to use..
        With this new data, I can create maps of LITERALLY any place in the
        world!! Look at the following Web Pointers (These will be integrated
        into our normal Web stuff soon)

        http://www-ns.rutgers.edu/~ksproul/APRS/images/Boston.gif
        http://www-ns.rutgers.edu/~ksproul/APRS/images/Florida.gif
        http://www-ns.rutgers.edu/~ksproul/APRS/images/Japan.gif


        PAY CLOSE ATTENTION TO THE YELLOW CITIES!!!


        There is a map made from this data up on TAPR, it is in the MacMaps
        folder and is called   DCW HJ13.map.sit.hqx

        I will be putting more of these maps up soon.. If you have a request
        (especially if it is outside of the US) send me PRIVATE mail,
        Not to the SIG!! and I will see what I can do..

        NOTE!!!  These new maps are FULLY backward compatible, even though
        they have new stuff in them, AND they are fully compatible with
        WinAPRS!!
        (WinAPRS won't show the filled in yellow cities, at least for now)

        The fact that we can do this good of maps for the entire world
        now opens APRS up to a lot more people!

        I have played with maps in Europe, Australia, New Zealand, and
        Russia, and they are GOOD maps!!!
```

* Auto Configuration of Map Windows..
If you have a set of maps that you like to have come up every time you start the program, do the following.
Rename each of the starting with a number (In NUMERIC ORDER of how you want them to appear) i.e.

1.usa.map
2.Mid Atlantic.map
3.New Jersey.map
4.MyLocal.Map

Put these maps in the TOP level of the MAPS folder (not in a sub-folder), and MacAPRS will load them in the order specified.
The ONLY limitation to how many maps you can do this way is how much memory you have...

Also, after the program is running, you can RE-DO this, if you close ALL windows, and select AUTO CONFIG MAP WINDOWS from the WINDOWS Menu..

* Page-Up, Page-Down (and +/-) do zoom-in, zoom-out.
Home and 'H' do HOME map (CMD-H does this too)

Keith

Keith Sproul   Ham Radio: WU2Z
Student Housing Network Coordinator   ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/   908 821-4828 Home

---

193. Unofficial Start on 3.585 LSB

From: n2czf@gate.net
Date: Sun, 7 Jan 1996 22:37:28 -0500
To: aprssig@tapr.org
Cc: kheyboer@pinegov.co.pinellas.fl.us
Message-ID: <199601080337.WAA26826@osceola.gate.net>
Rendered body type: text/plain

Well after a severe cold front moved in Sunday afteron I had no other choice than to start on some other band than 30M. While I was on the roof connecting the coax to my 80/40M dipole the front moved in and allmost took me off the roof with 30+ MPH winds and higher gusts. At that same time I saw my 1yr old 30M dipole that survived a noreaster and hurricane come down right before my very eyes while on the roof.

I tried loading the new fan doublet up on 30M and it works but at a max power of 50W or less if I do not want RFI on my TX audio. BTW a couple of others have this problem, everyone that may suspect some SWR problems please check your TX audio for RFI!! After the RTTY Roundup I moved ot 7.085 and could not raise a soul but then I moved to KD4UYR's suggested 3.585 and saw WA6RTX in Orlando runing Lan-Link listening in on the frequency. Soon after KD4UYR poped in with a good signal and faded out. KN4HX got on from Ft. Laurderdale and had a good signal also and then N4YFV got on frm Ft. Walton Beach and I introduced him to APRS. He just heard us making a bunch of racket and connected.

Anyone who can get on please do so and start geting aquainted with the the band and start zero beating everyone so se can all be on the same frequency. No need to take notes or save special backup files yet, I want everyone that is going to participate to have time to get a antenna up or repaired and have time to prepare to be on regularly.

BTW to all others on the sig thanks for puting up with these messages. I am currently looking for software so I can e-mail EVERYONE directly that is participating. We have about 6 on the internet that are involved so the CC and BCC just don't cut it. If anyone has suggestions I would appreciate it. I want to be able to enter a message and then using on "address" or command send out copies of the message to several people. Kind of what this APRS sig does but on a smaller level. Once I find that I will not need to send all this mail to the whole sig.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

194. SPRE guidance

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jan 1996 23:53:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960107233231.8432A-100000@greatlakes>
Rendered body type: text/plain

Im sending this to APRSSIG first. If anyone sees any poblems in it, lets get them corrected before I send this out to AMSAT-BB...

APRtrak summary for the SPRE mission:

MISSION SUMMARY: The SPRE will be deployed in a few days (11 Jan launch) from the Space Shuttle for about 46 hours and then retrieved. (14-15th) WHile it is free-flying, it will be transmitting its GPS posit and a few channels of telemetry using standard 1200 baud AX.25 but NOT in the standard APRS format. The SPRE TNC (W3EAX) will also be available to digipeat GRID SQUARE posits from groundstations on 145.55 MHz.

GRID SQUARE FORMAT: Stations without APRtrak or APRS may simply place their 6 digit GRID SQUARE in the TO address of their TNC and transmit a UI frame via W3EAX. This is done by using the TNC command UNPROTO GGGGGG VIA W3EAX. If you don't know your 6 digits, use GGGGAA. Now put your TNC in CONVERSE and each time you hit a CARRIAGE RETURN, you will trasnmit a GRID SQUARE packet of minimum length. Or you may set your BEACON to every 10 seconds or so using the BEACON EVERY command. (This will not work on many TNC's that always send their BEACON to the address of BEACON instead of whats in the UNPROTO command). If you use the BEACON, PLEASE make your BText as SHORT as possible. Anything longer than "Hi!" is wasting bandwidth.

USING APRtrak: APRtrak is a significantly modified version of APRS that will parse the special SPRE posits and telemetry. Be sure you have version 0.5. APRtrak, like APRS, has a special SPACE mode that will automatically transmit your GRID-SQUARE posit and will display all such packets received on the map.

DIFFERENCES BETWEEN APRtrak and APRS:
- APRtrak was donated to the AMSAT software library. Register with AMSAT.
- APRtrak plots the movements of up to 9 satellites using KEPS.
- APRtrak ignores most terrestrial APRS posits by ignoring all packets that use MORE than one digipeater in their path.
- APRtrak will decode the SPRE position and TELEMETRY. APRS will not.
- Both have SPACE mode. (alt-SETUP-MODES-SPACE) which:
  - automatically inserts your GRID-SQUARE in your transmitted POSIT.
  - THe period between each POSIT doubles after each transmission to minimize QRM for un-attended stations
  - If the SPACE DIGIPEATER is heard, then the POSIT period is reset back to a minimum value.
  - If your OWN digipeated packet is SEEN on the downllink, then your POSIT period is FORCED to 9 minutes and a CONGRATULATIONS message is displayed!
  - APRtrak places the TNC in MCOM ON. This way it will not only display all packets, but this mode also enables the automatic LOGGING of ALL packets.

OPERATIONS: Be sure to PRACTICE before the SPRE mission. APRtrak and APRS are a totally different approach to packet and take some getting used to... Although you may find some APRS activity on your local area APRS frequency (try 145.79) remember that APRtrak will ignore APRS packets using more than one DIGIpeater. Use the OPS-UNPROTO command to enter the call of the local digipeater; then practice... Find someone else that is in range of the same digi and see if you can see his posit.

Another way to practice is to tune in 145.55 and monitor MIR. DO NOT SET SPACE mode however, UI packets are NOT desired via MIR. Without SPACE mode you will only transmit a packet about once every 10 minutes. If you want to be sure that you dont transmit to MIR, toggle your xmter off using the CONTROLS-XMT command.

TROUBLES: APRtrak tries to properly configure your TNC, but the manufacturers all have different command sets. Be sure to set up your TNC for 9600,N,8,1. If you see garble packets, check your manual and be sure to use the proper PARity command to set for NO parity. To talk to your TNC while APRtrak is running, use the OPS-COMM command. (Experienced APRS users should be careful to NOT hit O-C-T out of habit, because that will place your TNC into TRANSPARENT mode!)

SPRE SET UP: Although APRtrak will decode the raw telemetry values for SPRE, it needs to have the SPRE telemetry equations loaded before it can display the proper engineering units. Use the FILES-LOAD command to load the file SPRE.BK. (or it might be W3EAX.BK) Im snowed in today without a copy of APRtrak to confirm any of this. Watch the AMSAT-BB for any updates to this file...

ANother big problem is that some TNC's monitor their OWN outgoing packets even if they are NOT digipeated. This will automatically give you the CONGRATULATINS message and cancel further transmitting EVERY time you transmit a single packet in SPACE mode. Be sure that MXMIT or whatever is the command on your TNC is OFF. If your radio echos the XMT audio back in to the TNC, this problem will also occur. If you cannot get rid of your own packets, then disable SPACE mode but be sure that GRID-TO is enabled. I think this is on the CONTROLS menu somewhere. You can still force your POSIT or BEACON to go out every now and then using the XMT-POSIT command.

BEACON TEXT. In APRS or APRtrak, your default BEACON will be your software version number. That is a WASTE of valuable bandwidth. Be sure to change it to something SHORT and meaningful using the alt-BEACON command. Mine will probably say "Hi! de Bob" or something like that.
NO NEED TO SAY your call, or your location, Thats already in the packet.

---

195. Florida 40/80 m gates

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jan 1996 23:58:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960107235444.8432B-100000@greatlakes>
Rendered body type: text/plain

WB4APR REPLY COMMENT:

Why will GATE7 make shifting through the traffic difficult? I think it is the only safe way to do your test. I completely agree with your planed experiment, but *please* do not encourage the VHF ers to use GATE. All it will take is one 30M gateway that doesnt shift somewhere in Florida, and 30m will be killed. Pse tell the VHFers to go VIA GATE7 or GATEL so that these packets cannot get to 30M. No one knows where the GATES are for sure... Just ask Bill, hi hi

---

196. KPC-3 State Machine DCD ??

From: Pete Baston <pete@bearnet.demon.co.uk>
Date: Sun, 7 Jan 1996 22:32:37 +0000
To: aprssig@tapr.org
Message-ID: <GeWT1DAFoE8wEwZA@bearnet.demon.co.uk>
Rendered body type: text/plain

Hi All

I am considering a small, low power, TNC for use as a GPS tracker. A couple of people have suggested the KPC-3 but I have one question about it's DCD. Does it have, or have the option for, "State Machine" type DCD, allowing the radio to be operated with squelch open ?

Both my current TNC's are a UK designed TNC-2 klone. They both operate much better without having to rely on the radio's squelch.

What is the best TNC for this application ?

Cheers - Pete.

```
***********************************************************************
*  Pete Baston  *           Pen y ffordd, Chester, U.K.               *
***********************************************************************
```

---

197. Any 17 meter gates ?

From: KD4EMI@aol.com
Date: Mon, 8 Jan 1996 08:15:46 -0500
To: aprssig@tapr.org
Message-ID: <960108081546_85834655@mail02.mail.aol.com>
Rendered body type: text/plain

IS there anyone operating on 17 meters as a gateway.
Would like to establish something there.

Is there a freq that has been chosen,

Thanks in advance...
Mike

KD4EMI@AOL.COM

198. Re: [APRSSIG:5813] KPC-3 State Machine DCD ??

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 08 Jan 96 08:22:37 EST
To: aprssig@tapr.org
Message-ID: <199601081324.IAA11010@gold.interlog.com>
Rendered body type: text/plain

On Mon, 8 Jan 1996 01:52:01 -0600 (CST) you wrote:

>Hi All
>
> I am considering a small, low power, TNC for use as a GPS tracker. A
>couple of people have suggested the KPC-3 but I have one question about
>it's DCD. Does it have, or have the option for, "State Machine" type
>DCD, allowing the radio to be operated with squelch open ?
>
> Both my current TNC's are a UK designed TNC-2 klone. They both operate
>much better without having to rely on the radio's squelch.
>
> What is the best TNC for this application ?
>
>
>   Cheers - Pete.
>
>***
>* Pete Baston *   Pen y ffordd, Chester, U.K.   *
>***
>
>
>
Hi Pete,

There is 3 squelch settings for the DCD. You can use the normal mode (radio
squelch), you can wire an external squelch line, or you can have the software
detect a valid carrier, so you can run with open squelch. Most Kenwood mobiles
have audio on the mic connector, and it is not squelched, so you need to set
the KPC3 to the "software" mode. This seems to be the perferred method.

cheers...mike

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

---

199. Re: [APRSSIG:5813] KPC-3 State Machine DCD ??

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 8 Jan 1996 07:43:44 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADD9D.0E540020@lub01.onramp.net>
Rendered body type: text/plain

Yes, you can easily set the Kantronics TNCs to operate with open squelch.
The command is CD SOFTWARE.
Having tried both the PacComm Tiny-2 MkII and Kantronics KPC-3 I prefer
the KPC-3 for tracker operation.

Larry Griffin <largriff@onramp.net>

Original message follows:

> I am considering a small, low power, TNC for use as a GPS tracker. A
>couple of people have suggested the KPC-3 but I have one question about
>it's DCD. Does it have, or have the option for, "State Machine" type
>DCD, allowing the radio to be operated with squelch open ?
>
> Both my current TNC's are a UK designed TNC-2 klone. They both operate
>much better without having to rely on the radio's squelch.
>
> What is the best TNC for this application ?

---

200. Gates

From: ke4eer@ro.com (William Nolle)
Date: Mon, 08 Jan 1996 08:33:15
To: aprssig@tapr.org

Message-ID: <199601081440.IAA01854@sh1.ro.com>
Rendered body type: text/plain

```
Just a question is RELAY,WIDE,GATE,GATE,WIDE be something i should
be using?.

Bill KE4EER
ke4eer@ro.com
```

---

201. Re: [APRSSIG:5759] Re: two gates

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 08 Jan 1996 09:24:38 -0600
To: aprssig@tapr.org
Cc: edwardwr@interaccess.com, jerdptro@xnet.com
Message-ID: <2.2.32.19960108152438.0073eb9c@144.188.134.33>
Rendered body type: text/plain

```
Barry,

I don't think that will help because many hf signals come in with GATE,WIDE
on them. Both gates then pick them up on hf, send (gate) them to vhf, then
with a WIDE yet go, are picked up from each gate by the same wide(s). What
we need to do is to physically separate the gates more so that they don't
get into the same wides, or to move one gate to another hf band so that it
is picking up different information. I have been trying to contact N9VHW
Jerry to talk about this, but he must be out of town. I don't mind moving my
gate, but don't want to do it without coordinating with Jerry that he is
willing to stay on 30m for a while.

My vision of the ideal is both. The reason is because the chicago area is so
big, that a single gate location cannot hit wides that are far north or far
south. Unless that gate location has very good coverage. In fact, Jerry has
the better of our two locations for trying that. Also with the ideas lately
of trying to use other hf bands for other APRS type information, I would
like to try 40m or 80m.

What do you think?

At 03:44 PM 1/5/96 -0600, you wrote:
>>> If two gates can hit the same WIDE, then you have
>>>unnecessary duplication of packets.  One of those GATES needs to use a
>>>beam to AVOID hitting that WIDE.
>>
>>Yes, and this is a problem we have in the chicago area. Jerry, Ed and who
>>ever else is interested, lets talk about this!
>>
>>
>>Paul, WD9ABE
>>Maybe closer to GLNTC than anybody (5 miles)
>>
>
>Paul,
>Perhaps if I can put a gate's callsign in the WA9CJN (one of the WIDEs in
>the CHI area) BUDLIST, would that help?
>-----------------------------
>Disclaimer:  Sometimes I don't know what I'm talking about.  You'd better
>check on this.  My mouth usually runs on after my knowledge on a subject
>runs out.  It's a man, macho kinda thing.
>
>J Barry Leonard
>Amateur Radio Call N9VJQ
>Subependymoma 1990
>DeKalb IL
>E-MAIL:  jleonard@tbcnet.com
>
>
>
>
Paul Moller
Motorola CSG
708-523-5210
Motorola pager #7378
```

---

202. Re: [APRSSIG:5810] Unofficial Start on 3.585 LSB

From: dwetzel@uswest.com
Date: Mon, 8 Jan 1996 09:48:12 -0600
To: aprssig@tapr.org
Message-ID: <0f13fe80@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Once I find that I will not need to send all this mail to the
whole sig.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

------->

Hey, Rich -

which station is going to be your 'frequency standard'?

We'll see if we can hear you out west here.

Doug
KC7CO

203. Re: [APRSSIG:5811] SPRE guidance

From: dwetzel@uswest.com
Date: Mon, 8 Jan 1996 10:06:59 -0600
To: aprssig@tapr.org
Message-ID: <0f145620@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Just one question - Bob, Gerry, et al -

Why did you let them launch this mission at a 28.5 inclination so those of us
above 40 degrees can't see very well! ;-)

Doug
KC7CO

204. Re: [APRSSIG:5818] Re: two gates

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 08 Jan 1996 10:13:18 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <064D730F15EBE009*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

The ideal solution would be that the GATE is also the WIDE, and so
there is not another radio link hop to further congest the airwaves.
However, given that the TNC firmware right now doesn't allow for that
and that the colocation of GATEs and WIDEs is rare, I guess that a
GATE should really use a narrow beam to aim directly at the WIDE.
Better yet would be to use another frequency to handle the GATE-WIDE
traffic.

THe WIDE is also the LAN hub, and as such should seamlessly provide
the gateway function to other LANs. While NW6H is the current WIDE
for the LA area, I am not the GATE (bad geography for north and east
looking HF traffic). I have heard rumors that others in the LA/SD
area are working on a new WIDE for LA, and that it will truly be a
high-level location. Maybe even with HF capability?

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5818] Re: two gates
Author: Paul_Moller@csg.mot.com at Internet
Date: 1/8/96 9:45 AM

Barry,

I don't think that will help because many hf signals come in with GATE,WIDE
on them. Both gates then pick them up on hf, send (gate) them to vhf, then
with a WIDE yet go, are picked up from each gate by the same wide(s). What
we need to do is to physically separate the gates more so that they don't
get into the same wides, or to move one gate to another hf band so that it
is picking up different information. I have been trying to contact N9VHW
Jerry to talk about this, but he must be out of town. I don't mind moving my
gate, but don't want to do it without coordinating with Jerry that he is
willing to stay on 30m for a while.

My vision of the ideal is both. The reason is because the chicago area is so
big, that a single gate location cannot hit wides that are far north or far
south. Unless that gate location has very good coverage. In fact, Jerry has

the better of our two locations for trying that. Also with the ideas lately
of trying to use other hf bands for other APRS type information, I would
like to try 40m or 80m.

What do you think?

At 03:44 PM 1/5/96 -0600, you wrote:
>>> If two gates can hit the same WIDE, then you have
>>>unnecessary duplication of packets. One of those GATES needs to use a
>>>beam to AVOID hitting that WIDE.
>>
>>Yes, and this is a problem we have in the chicago area. Jerry, Ed and who
>>ever else is interested, lets talk about this!
>>
>>
>>Paul, WD9ABE
>>Maybe closer to GLNTC than anybody (5 miles)
>>
>
>Paul,
>Perhaps if I can put a gate's callsign in the WA9CJN (one of the WIDEs in
>the CHI area) BUDLIST, would that help?
>-----------------------------
>Disclaimer: Sometimes I don't know what I'm talking about. You'd better
>check on this. My mouth usually runs on after my knowledge on a subject
>runs out. It's a man, macho kinda thing.
>
>J Barry Leonard
>Amateur Radio Call N9VJQ
>Subependymoma 1990
>DeKalb IL
>E-MAIL: jleonard@tbcnet.com
>
>
>
>
Paul Moller
Motorola CSG
708-523-5210
Motorola pager #7378

---

205. Re: KPC-3 State Machine DCD ??

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 8 Jan 1996 12:58:58 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad1716383504@[199.1.11.109]>
Rendered body type: text/plain

The KPC-3 does a software version of a State Machine DCD.
Several other TNC use a true hardware State Machine DCD. Example the
PK-96. The hardware State Machine DCD is faster but I don't
know if that makes it better or able to get those weak stations.

I have both a KPC-3 and a AEA PK-96 and now that GPS firmware is
available for the PK-96 I plan to do a test of both.

I put the KPC-3 a bit ahead of the PK-12/PK-96 for portable use.
(uses less power,DB-9 plug for radio,)

The bad think about portable use is you have to fiddle with the
vol. knob on the radio/HT if you don't have a packet port.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

206. Lowest power TRACKER TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 8 Jan 1996 14:12:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960108140511.9908B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 8 Jan 1996, Pete Baston wrote:

>   I am considering a small, low power, TNC for use as a GPS tracker. A
> couple of people have suggested the KPC-3 but I have one question about
> it's DCD. Does it have, or have the option for, "State Machine" type
> DCD, allowing the radio to be operated with squelch open ?

```
WB4APR REPLY COMMENT:

Yes, it has software DCD.  But draws about 25 mA I think with the LEDS
off..  You might consider the new MIM module which not only sends the GPS
posit but also 5 Analog telemetry values and 8 single BIT values.  It only
draws 15 mA and for extended low power applications, a later version
will go to  sleep between posits and draw less than 0.05 mA.  But it only
has an envelope DCD.  Cost is about $89.  OOps, it also only permits a
single (1) digipeater hop for now.

The optional MIM module could power up the GPS once a day, get a fix, and
then beacon its posit once an hour for a year on a set of D cells.
```

---

207. Re: [APRSSIG:5811] SPRE guidance

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 8 Jan 1996 16:04:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960108160103.14245B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 7 Jan 1996, Bob Bruninga wrote:

> Im sending this to APRSSIG first.  If anyone sees any poblems in it,
> lets get them corrected before I send this out to AMSAT-BB...
>
> APRtrak summary for the SPRE mission:
>
> MISSION SUMMARY:   The SPRE will be deployed in a few days (11 Jan launch)
> from the Space Shuttle for about 46 hours and then retrieved. (14-15th)

(snip)

Sound good! But what is the inclination of this shuttle mission .... in
other words will those of us around 45 deg Latatude be able to SEE it..If
not then this is all academic!

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

208. Map Files for WinAPRS & MacAPRS

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Mon, 8 Jan 96 16:09:07 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.821135347.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

```
I am starting to put map files up on TAPR in ZIP format. This is because it
is VERY easy for the Macintosh to understand ZIP files, but not so easy for
PCs to understand Stuffit files.

I have also uploaded the latest version of ZIPIT for the Macintosh into the
folder  /tapr/SIG/aprssig/upload/MacMisc/


At the moment, I am putting these map files into a directory called
WinMacMaps.


Unless I hear some complaints, I will start doing all maps via the ZIP file
format.

Keith Sproul

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

209. Re: [APRSSIG:5817] Gates

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 8 Jan 1996 16:17:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960108161721.14245D-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 8 Jan 1996, William Nolle wrote:
```

> Just a question is RELAY,WIDE,GATE,GATE,WIDE be something i should
> be using?.
>
> Bill KE4EER
> ke4eer@ro.com

Is that on HF, or VHF?

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

210. KAM + and GPS support?

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 08 Jan 1996 14:48:54 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <06BF830F19F56005*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

I have a year-old KAM + and would like to get it working for occasional mobile
GPS applications on VHF or HF. The current 7.0? software doesn't recognize GPS
commands. DOes anyone know if this has changed or is going to change?

73 - Jon NW6H

---

211. more new user unproto

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 03 Jan 1996 09:12:31 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960103151231.006d0814@144.188.134.33>
Rendered body type: text/plain

>
>If this became a standard practice, it could be mentioned in the
>documentation, and new or transient APRS users would simply leave APRS on for
>a few minutes until they saw a WIDE or two pop up on the screen, then,
>connect to it and read Message #1. They would receive the necessary
>information to specify a workable UNPROTO path for their location and
>purpose.
>

This is an idea. What you are hitting on here is a fundamental problem with
aprs in a mature area. That is the problem that was discussed a while ago
about digipeats "going in orbit" with WIDE and RELAY stations. This is of
course the transient users dilemma, how to determine a path in an unfamiliar
area. Furthermore, not every transient has the ability to communicate with
his tnc, ie: if he is in tracker mode.

Perhaps several things need to be done, one of which is your idea of
presenting this info to those interested. Whether or not we should be
encouraging pbbs activity I will leave to the others on the sig to comment.
Keep the ideas flowing!
Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)

---

212. MacMaps

From: Steve Sable <ssable@ic.net>
Date: Mon, 08 Jan 1996 19:13:54 -0500
To: aprssig@tapr.org
Message-ID: <m0tZRhO-003EyPC@ic.net>
Rendered body type: text/plain

Waiting for WINAPRS to come out. I undertstand that for the better maps, we
will have to use the MAC maps. I have found these on diff sites but all of
them need to be de-compressed with BIN HEX 4.0. Kinda looks like a UUE file.
I got the Bin Hex 4.0 file but it's extension is .BIN. Now what?
==
When WINAPRS comes out will we have to re-register all over again and start
from scratch?

---

213. HELP PK232 +APRS

From: "Eugene F. Kremzier" <gene@buffnet.net>
Date: Mon, 8 Jan 1996 19:22:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SCO.3.91.960108191257.18209A-100000@buffnet5.buffnet.net>
Rendered body type: text/plain

I have a pk232mbx with the aprs eprom. I use pkgold 386 as my
regular tnc program. I have configured the program to exit in the
command mode. I also have renamed the aprs74e initaea program to
shutdown.tnc and have used that as the shutdown tnc file program.
The baud rate on start of aprs74e has been entered as 9600 which is the
baud rate that is used by pkgold.
        The program still says it is not communicating with the tnc.
The computer is a pentium 90 with the fast uart serial chip. The serial
port com1 works fine with pkgold.
        If anyone has the proper shutdown file for the pk232 + pkgold,
please email a copy to me. Any other suggestions would be greatly
appreciated.
      Thanking you in advance. Gene N2OBW
                                Gene@buffnet.net

---

214. help unsubscribe

From: "Nick J Chiarchiaro, AET / N2QXF" <njc@warwick.net>
Date: Mon, 8 Jan 1996 19:20:08 +0000
To: aprssig@tapr.org
Message-ID: <9601090020.AA17310@host>
Rendered body type: text/plain

I can't seem to do it. HELP !

The opinions expressed herein are my own.

Thought for the day:
    Concerto (n): a fight between a piano and a pianist.

Sent by:

Regards, Nick J Chiarchiaro, AET #84840
         (212-279-5000 ext 317)

73 de Nick, N2QXF

Ham related mail addresses NON-BUSINESS ONLY:

```
   AMPRnet SMTP BBS:  n2qxf@bbs.k2bjg.ampr.org
AMPRnet Direct SMTP:  n2qxf@n2qxf.ampr.org    44.64.4.20
               AX25 PBBS:  n2qxf@k2bjg
```

CYA l8r :-)

---

215. Re: [APRSSIG:5755] Re: Use of APRTRAK

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 8 Jan 1996 18:21:02 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601090021.SAA19343@solar.cs.tamu.edu>
Rendered body type: text/plain

John B. Leonard sez:

> >Philip Chien, Earth News - space writer and consultant PCHIEN@IDS.NET
> > Roger, go at throttle up   CHR$(32) the final frontier
> >
>
> What bothers me is the reference in your signature to the last radio
> communication of the Challenger, and that will cause me to delete any post,
> unread, that you send to the SIG.
>
> It has taken me a long time to get over that disaster, and I will not
> subject myself to frivolous reminders of it as used in a very unprofessional
> email signature.

John (and others),

While I can appreciate your sentiment, I believe your concerns are seriously
misplaced.

Phil has been and continues to be a serious supporter of the US (and
international) space program(s) as well as ham radio efforts in space. He's
very knowledgable of the intricacies of the program as well as the superficial
niceties.

I, for one, never thought twice about his .sig addition.

I've spent more than my share of time in the Mission Control Center at NASA/JSC in support of SAREX, as well as the Payload Operations Control Center in support of a couple of other experiments. To this day, the "Go at throttle-up" call is retained. It's a major checkpoint in the Ascent phase of every mission. And, yes, everyone I know now holds their breath for the period from throttle-back to throttle-up plus about 15 seconds... and looks at monitors or data displays, as appropriate, praying we won't see it again.

Phil, correct me if I'm wrong. I never thought that was a Challenger reference. I guess I'm naive.

Regards, Gerry

---

216. Re: [APRSSIG:5812] Florida 40/80 m gates

From: n2czf@gate.net
Date: Mon, 8 Jan 1996 19:40:26 -0500
To: aprssig@tapr.org
Message-ID: <199601090040.TAA55338@osceola.gate.net>
Rendered body type: text/plain

Well with the propagation that we have here and the series of digi's traffic is very heavy as you probably can expect. With the GATE off it will be much easyer to see what is coming from where considering I run 2 PC's anyway now 1 on VHF and 1 on HF.

The other reason I was not suggesting to GATE was due to the 30M problem possibility. We have already settled on FLGATE as the appropriate ALIAS and it is in operation as I type this. Map is full of KD4UYR's WX warnings and the forcast. Temp predicted to be BELOW 20 deg!!! from N Orlando to the North and well into the low 20's in my area here near West Palm Beach.

I know you guys have it bad but we do also, I can't think of what the "Crackers" (native Floridians) are going thru right now! I am cold myself and a native of Bean Town.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

217. Florida 80 Meter Net

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 9 Jan 1996 00:47:30 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960109004034.7005B-100000@pinegov>
Rendered body type: text/plain

We are currently testing the 80 M statewide net concept in here in Florida and we are having some successes between West Palm Beach and the Tampa Bay area...

Our gates are entitled FLGATE to avoid unintentional transmission onto the 30 meter side....we are ENCOURAGING users within range to set UNPROTO to FLGATE,FLGATE,WIDE but DO NOT use generic WIDE so as not to QRM 30 or even 40 M nets.

I hope to establish Gateways in key cities and still maintain at least one on 30 M so we can keep contact with the US as well.

The frequency for HF users is 3585 LSB...zero beat to either N2CZF or KD4UYR...

73 and keep APRSing!

de Kevin KD4UYR in freezing Florida (forecast 24 degrees tommorrow AM)

---

218. Re: [APRSSIG:5828] more new user unproto

From: Jack Anderson <n4uls@ix.netcom.com>
Date: Mon, 8 Jan 1996 17:04:53 -0800
To: aprssig@tapr.org
Message-ID: <199601090104.RAA28545@ix2.ix.netcom.com>
Rendered body type: text/plain

At 05:15 PM 1/8/96 -0600, you wrote:

>Perhaps several things need to be done, one of which is your idea of
>presenting this info to those interested. Whether or not we should be
>encouraging pbbs activity I will leave to the others on the sig to comment.

>Keep the ideas flowing!
>Paul, WD9ABE
>Maybe closer to GLNTC than anybody (5 miles)

Around here, occasional TNC PBBS activity is not discouraged, especially if it is done without digipeating. A one-hop digi connect isn't too evil either. Still, we don't see too much. There was a small group of stations in my immediate area who were on APRS all the time, and TNC maildrops were used from time to time. Most don't have their APRS stations up any more.

But for this application, even with its potential usefulness, I would not expect to see a significant impact on channel congestion.

Jack

---

219. Re: [APRSSIG:5819] Re: Unofficial Start on 3.585 LSB

From: n2czf@gate.net
Date: Mon, 8 Jan 1996 20:09:51 -0500
To: aprssig@tapr.org
Message-ID: <199601090109.UAA44196@osceola.gate.net>
Rendered body type: text/plain

Well be advised that we are trying what some call NVIS techniques with very low dipoles "a la military". I am at about 25 feet maybe 30 and others are at about 30ft.

I would say KD4UYR and myself are going to be the standards since we are on 24hrs a day with less chance of frequency drift. My exact frequency with a PK-900 AEA TONES is 3.585.42 LSB. The reason we are on .585.42 ??? well when we first got on we had to do a bit of hunting to find 2-3 stations and we never bothered to change. Nothing official (record keeping) has started yet so it is no big deal, we will probably drift to 3.585.00 once we start.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

220. Gates

From: ke4eer@ro.com (William Nolle)
Date: Mon, 08 Jan 1996 19:25:01
To: aprssig@tapr.org
Message-ID: <199601090132.TAA04880@sh1.ro.com>
Rendered body type: text/plain

Well guys attempted to go the direct route trying to find out who the local gate is by posting a bulletin asking, but of course didn't get any replys as i knew i wouldn't. This may not be the way to do it bit it's the only way i know.
I proceed to set APRS with a path of WIDE,GATE,GATE,WIDE set APRS on HF and went to bed to take a well earned nap, several hours later the gate had been shut down. Now all you HF Gate users go ahead and come at me with the flame throwers but if nobody can come up with a better way to find out who the gate is that is trying to drive me crazy then this is what i will be doing from now on. So hopefully the person that insist on having his gate on 100% of the time now will read this and start being reasonable. I feel i have the right to do this simple due to the fact that my coordination papers simple say for packet activity and nothing about beaconing to HF trough a local Gate that of course isn't coordinated. Ok guys let it fly. I have received many messages to my e-mail address supporting my effors to slow down the abuse from those gate users. And by the way this abuse is being transmitted over several states, not just in my area.

Bill KE4EER
ke4eer@ro.com

---

221. Re: [APRSSIG:5833] Re: Florida 40/80 m gates

From: KD4EMI@aol.com
Date: Mon, 8 Jan 1996 20:34:37 -0500
To: aprssig@tapr.org
Message-ID: <960108203359_35736272@emout05.mail.aol.com>
Rendered body type: text/plain

Per a msg Bob had posted, he requested that the suffix be changed in the new gate alias....
Therefore FLGATE would be inappropriate...

Mike KD4EMI@AOL.COM

---

222. RE: [APRSSIG:5823] Lowest power TRACKER TNC

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 8 Jan 1996 20:17:23 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADE06.58977180@lub06.onramp.net>
Rendered body type: text/plain

Bob, Bob... The KPC-3 pulls less than 15mA with the LEDs off.

But I can't blame ya for mentioning the MIM. I plan to check one out
pretty soon!

Larry Griffin <largriff@onramp.net>

From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent: Monday, January 08, 1996 7:30 AM
To: aprssig@tapr.org
Subject: [APRSSIG:5823] Lowest power TRACKER TNC

On Mon, 8 Jan 1996, Pete Baston wrote:

> I am considering a small, low power, TNC for use as a GPS tracker. A
> couple of people have suggested the KPC-3 but I have one question about
> it's DCD. Does it have, or have the option for, "State Machine" type
> DCD, allowing the radio to be operated with squelch open ?

WB4APR REPLY COMMENT:

Yes, it has software DCD. But draws about 25 mA I think with the LEDS
off..

<snip>

---

223. RE: [APRSSIG:5830] HELP PK232 +APRS

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 8 Jan 1996 20:26:16 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADE07.93A1C5E0@lub06.onramp.net>
Rendered body type: text/plain

You possibly have PKGold configured to leave the TNC in HOST mode instead
of COMMAND mode when you exit. Type ALT-S, then look at the
Communications parameters. Make sure PkGold exits with the TNC in
COMMAND mode.

Larry Griffin <largriff@onramp.net>

From: Eugene F. Kremzier[SMTP:gene@buffnet.net]
Sent: Monday, January 08, 1996 12:32 PM
To: aprssig@tapr.org
Subject: [APRSSIG:5830] HELP PK232 +APRS

I have a pk232mbx with the aprs eprom. I use pkgold 386 as my
regular tnc program. I have configured the program to exit in the
command mode. I also have renamed the aprs74e initaea program to
shutdown.tnc and have used that as the shutdown tnc file program.
The baud rate on start of aprs74e has been entered as 9600 which is the
baud rate that is used by pkgold.
The program still says it is not communicating with the tnc.
The computer is a pentium 90 with the fast uart serial chip. The serial
port com1 works fine with pkgold.
If anyone has the proper shutdown file for the pk232 + pkgold,
please email a copy to me. Any other suggestions would be greatly
appreciated.
Thanking you in advance. Gene N2OBW
Gene@buffnet.net

---

224. Re: [APRSSIG:5833] Re: Florida 40/80 m gates

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 8 Jan 1996 23:37:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960108232923.11051F@greatlakes>
Rendered body type: text/plain

On Mon, 8 Jan 1996 n2czf@gate.net wrote:

> possibility. We have already settled on FLGATE as the appropriate ALIAS
> and it is in operation as I type this.

WB4APR REPLY COMMENT:

As I had suggested in all three of my earlier messages on the subject, I
would prefer that you put the optional GATE designation as a suffix,
IE GATEFL; instead of a prefix. That way the suffix can be 1 or 2
characters and is still easy to parse due to the leading GATE....

I know it doesnt make a difference now, but once things get rolling, it
is harder to change it later... If you prefer FLGATE stongly, I can of
course work around it....

---

225. Re: [APRSSIG:5765] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Mon, 8 Jan 1996 21:09:41 -0800
To: aprssig@tapr.org
Message-ID: <199601090509.VAA20980@aretha.llnl.gov>
Rendered body type: text/plain

```
> From: Steve Dimse <sdimse@bridge.net>
>
> >     Isn't there a way via appropriate passwords to ensure that only
> >     amateur nodes connected to the internet can pass messages between one
...>
> Sure, it would be possible to put some security features into the
> program, although have no intention of doing so at this time (as my plan
```

Ah, if it were only so simple... just toss in a few security features...
Hey, why not go into the digital cash buisness since verifying the identity
of someone over the internet is so easy? :-)

You must remember a few things about the internet and computer network
security in general. Anything you send can go to lots of places besides
were you want it to go. It is a lot like transmitting radio in that
sense. Lots of people can see everthing you send. Thus no password stays
secret long. Even if you send your password encrypted, what is to stop
someone from recording the encrypted version and playing it back?

If you want make use of the internet with APRS in an interesting way, let
me suggest that you do not impose all the limits of 1200 baud VHF packet
radio onto the internet. Relaying VHF packets is useful, but it is about
the least useful use of the internet/APRS that I can think of. It would
be so much better use of the internet's facilities to do something like
send position reports to a central or regional host on the internet. That
host keeps a data base of each submitter's last known position. A
subscriber can then send a request to the internet host, which returns,
via the internet a list of everyone's last known position in one quick
message. When a submitter sends in a new position (which indicates an
actual change in position), the host could send out updates, via the
internet, to interested subscribers. (The host would have some policy
about the volume and rate of outgoing messages.)

The whole thing could be done with e-mail, a mailing list package,
a few simple programs, and a spare host on the internet.

APRSM@APRS.NET anyone?

Hey, you don't even need a radio or license to join the fun!

Chuck

---

226. MIM Module

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Mon, 8 Jan 1996 14:49:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9601081446.A19939-9100000@acme>
Rendered body type: text/plain

Would like to order one of the MIM Modules but:

Attempted to call "Clement Engineering" at (410) 268-4611 but I keep
getting the answering machine for "Bruce Roberts Design".

Has anyone had any luck?

Perhaps I have the number wrong.

73s Joe Hussey W8RIK
jhussey@freenet.columbus.oh.us

---

227. Re: MIM TNC Module

From: rwf <rwf@mindspring.com>
Date: Tue, 9 Jan 1996 00:34:07 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960109004057.40bf5928@mindspring.com>
Rendered body type: text/plain

```
At 01:30 PM 1/8/96 -0600, Bob Bruninga wrote:
 But it only
>has an envelope DCD.
>
The MIM has a DCD?  I thought you said it was going to be deaf.
Is an envelope DCD one that just listens for noise?  If not, what exactly do
you mean?
Ralph
```

---

228. APRTrak & SPRE

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 8 Jan 1996 23:39:17 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADE22.8ACC2940@lub06.onramp.net>
Rendered body type: text/plain

Bob, I've been practicing a little with APRTrak to prepare for the SPRE mission
coming up this SUNDAY and MONDAY. It should be VERY INTERESTING.

One question: When setting up APRTrak, what value should I use to represent
the beamwidth of an Omni? 0 or 360?

Larry Griffin <largriff@onramp.net>

---

229. almaps07 are missing TNnash.map

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Mon, 08 Jan 1996 23:58:53 -0600
To: ke4eer@ro.com, aprssig@tapr.org
Message-ID: <9601082358.AA53200@oscar.telalink.net>
Rendered body type: text/plain

Bill,

I downloaded your almaps07.zip and almaps05.zip files and neither one
contained the Tennessee (or Nashville) maps that you described in the map
lists. Could you e-mail to me or upload those maps on TAPR.

I am also interested in a map that is centered on Lat 35degN Lon 86degW and a
radius of about 20 miles with as much detail as possible. i will be using it
on a Mac so the 3000 point limit is not a factor for me (it still may be one
for you).

Any hints on ordering CD-ROMs. I plan to order the #5 and #6 CDs Both in
1:100,000 and 1:2,000,000. Do any of these include elevation data?

Thanks,

Bruce

---

230. Re: [APRSSIG:5842] Re: Internet APRS Gateways

From: Per Molund <per@proact.no>
Date: Tue, 9 Jan 1996 08:28:53 +0100 (MET)
To: aprssig@tapr.org
Cc: Chuck Grant <grant@aretha.llnl.gov>
Message-ID: <Pine.PCW.3.91.960109082046.7239E-100000@gruff>
Rendered body type: text/plain

On Mon, 8 Jan 1996, Chuck Grant wrote:

```
>
> You must remember a few things about the internet and computer network
> security in general.  Anything you send can go to lots of places besides
> were you want it to go.  It is a lot like transmitting radio in that
> sense.  Lots of people can see everthing you send.  Thus no password stays
> secret long.  Even if you send your password encrypted, what is to stop
> someone from recording the encrypted version and playing it back?
>
```

I suppose an encryption/autentication package such as PGP could solve
this problem. As long as the encryption/decryption are done at the
Internet gateways, there should be no problems using encryption even
though part of the link takes place on the air.

---per

Per Molund
per@proact.no

---

231. Re: [APRSSIG:5827] KAM + and GPS support?

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Tue, 09 Jan 1996 00:34:30 -0800
To: aprssig@tapr.org
Message-ID: <30F22896.2F95@ecst.csuchico.edu>
Rendered body type: text/plain

Jon T Adams wrote:
>
> I have a year-old KAM + and would like to get it working for occasional mobile
> GPS applications on VHF or HF. The current 7.0? software doesn't recognize GPS
> commands. DOes anyone know if this has changed or is going to change?
>
> 73 - Jon NW6H

Kantronics has come out with a firmware version 8.0p which does just
that plus added TOR mode in which an hf station can connect to your
tnc by using any of the TOR modes, AMTOR, PACTOR or GTOR and the unit
will now detect the mode and lock on to the signal without computer
assistance. It is well worth the 24.95 for the upgrade chip. It
handles all of the GPS command very nicely...73 and have fun

Brad

---

232. Re: [APRSSIG:5842] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Tue, 9 Jan 1996 01:09:48 -0800
To: per@proact.no
Cc: aprssig@tapr.org
Message-ID: <199601090909.BAA06618@aretha.llnl.gov>
Rendered body type: text/plain

> From: Per Molund <per@proact.no>
> >
> > You must remember a few things about the internet and computer network
> > security in general. Anything you send can go to lots of places besides
> > were you want it to go. It is a lot like transmitting radio in that
> > sense. Lots of people can see everthing you send. Thus no password stays
> > secret long. Even if you send your password encrypted, what is to stop
> > someone from recording the encrypted version and playing it back?
> >
>
> I suppose an encryption/autentication package such as PGP could solve
> this problem. As long as the encryption/decryption are done at the
> Internet gateways, there should be no problems using encryption even
> though part of the link takes place on the air.
>

I don't think PGP has been shown to be really secure. It was designed
to be effective in the average case when you don't have a lot of
resources to spend to break it (thus the name). Even if it is real
secure, it must be used carefully to preserve that security. I believe
PGP would still be subject to playback of previous messages by
unauthorized parties, unless additional measures were taken.
Encryption usually must be done end-to-end not at intermediate
gateways, otherwise the gateways must be trusted and are thus subject
to attacks or impersonations. Making part of the link on-the-air is
the least of the problems.

The existing security is probably good enough for most people, but the
problem in the USA is a legal one, not a practical one. The problem is
that the FCC requires that amateur radio transmissions be controlled
only by licensed amateur radio operators. Transmitting in response to
a packet coming in over the internet is not allowed, because the
transmiter can not verity that the internet packet was originated by a
licensed radio amateur.

Similarly automatic internet to amateur radio mail gateways are not allowed. Each message must be forwarded manually by a licensed operator who then is responsible for the legality of the message (including content restrictions). There are no restrictions going the other way, amateur radio to internet.

Chuck

---

233. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

Received: from [199.1.11.102] (dal02.onramp.net [199.1.11.102]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id DAA09486 for <aprssig@tapr.org>; Tue, 9 Jan 1996 03:11:00 -0600
Message-Id: <v02130500ad17e0ffd675@[199.1.11.102]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 9 Jan 1996 03:11:22 -0600
To: aprssig@tapr.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: SPRE Passes

>> MISSION SUMMARY: The SPRE will be deployed in a few days (11 Jan launch)
>> from the Space Shuttle for about 46 hours and then retrieved. (14-15th)
>
>(snip)
>
>Sound good! But what is the inclination of this shuttle mission .... in
>other words will those of us around 45 deg Latatude be able to SEE it..If
>not then this is all academic!

4.1 SPRE Passes

Before setting up any equipment it is important to determine if SPRE will fly within range of your location. If it does, the quality of the passes needs to be considered. To make this assessment, first look at a map and determine the latitude (degrees North or South of the equator) in which your station is located.

If your latitude is greater than 43 degrees, your chances are hearing or relaying through SPRE are zero.

If your latitude is between 40 and 43 40 degrees, your chances are hearing SPRE are very poor. Your chances of relaying a signal through SPRE are about zero.

If your latitude is between 35 and 40 degrees, your chances are hearing SPRE are very good. Your chances of relaying a signal through SPRE are poor without a well equipped HAM radio satellite station.

If your latitude is less than 35 degrees your chances of hearing SPRE are excellent. Your chances of relaying a signal through SPRE are good with modest equipment if there is not much competition on the uplink.

Latitude	Hearing SPRE	Relaying Through SPRE
> 43	No Chance!	No Chance!
40 - 43	Poor	Very Poor
35 - 40	Very Good	Poor
< 35	Excellent	Good

-------------------
>From the SPAR home WWW page

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

234. Re: [APRSSIG:5842] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Tue, 9 Jan 1996 01:12:30 -0800
To: aprssig@tapr.org
Message-ID: <199601090912.BAA06673@aretha.llnl.gov>
Rendered body type: text/plain

> I suppose an encryption/autentication package such as PGP could solve
> this problem.

Security problems are never "solved". They are only made more complex.

Chuck

---

235. Re: Use of APRTRAK

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 9 Jan 1996 03:20:59 -0600
To: aprssig@tapr.org
Message-ID: <v02130502ad17e24a2445@[199.1.11.102]>
Rendered body type: text/plain

>Phil, correct me if I'm wrong. I never thought that was a Challenger
>reference. I guess I'm naive.
>
>Regards, Gerry

I thought they were both references to Enterprise.

```
   __                                 __^__          __________
  |   \                          +---/     \---+    (=========
  |____\___________              +---\_____/---+     //
  >____)|        | \__                    \  \______//___
 >/     |________|    \                   [         _____\
 >|____________________\                   \_______/
 Roger, go at throttle up         CHR$(32) the final frontier
```

If the CHR$(32) reference was in Hex (20H) other might get it.

CHR$(32) is SPACE for you non-programmers.

The Space shuttle Enterprise was only a non powered drop mockup and
never made it into CHR$(32).

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

236. Re: [APRSSIG:5788] Re: Clueless question

From: Randy Hammock <hammock@tis.telos.com>
Date: Tue, 9 Jan 1996 09:03:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960109085319.18062A-100000@zentropa>
Rendered body type: text/plain

On Sat, 6 Jan 1996, Gwyn Reedy, W1BEL wrote:
> On Fri, 5 Jan 1996, Gregory R. LaBorde wrote:
>
> > Could someone explain to me why digipeating an AX.25 packet that contains
> > information readable by any system capable of AX.25 packet, and usable by
> > particular software programs known by various permutations of the name
> > "APRS", is somehow fundamentally different than digipeating "hey, this is
> > Joe!!!"?
> APRS is an application. One could call the various conventions of how the
> data is used a protocol, but that would be a different meaning of
> protocol than that involving UI frames vs virtual circuits.
>
> I have been extremely impressed with the power and flexibility obtained
> using UI frames. (In our commercial applications we hardly ever use
> connections any longer.) We've learned a thing or two from Bob's
> innovations in the use of repeater aliases.
>
> > I agree that the operators of the space stations such as Mir should have
> > the final say on what is and is not allowed. I think it should either be OK
> > or not OK to digipeat [UI] frames via a particular space station. Limiting
> > what type of UI frame gets through seems artificial (and do not cite
> > TCP/IP, in which a connected protocol "rides atop" unconnected AX.25 [UI]
> > frames. That *is* different.).
>
> I was under the impression that ALL UI frames are being discouraged.
... snip ...
>
> The primary reason the packet equipment is on the MIR is for the benefit
> of the Cosmonauts and visiting Astronauts. They, through their
> terrestrial spokesmen, should make the rules. IMHO the secondary purpose
> of the equipment should be for benefitting the amateur radio hobby (in
> particular) and mankind (in general). Just like SAREX, the more kids you
> can get excited and headed into a productive life (hopefully as a radio
> amateur) the more successful the work is. (Again IMHO) using the MIR or
> SAREX as one more DX or contest object is not what it is all about.

If this is the reason, then IMHO, the MIR station should disable it's DIGI function. If you are going to talk to MIR, talk to MIR, don't use MIR as a reflector to talk to someone else in real time. Once this is done and people know about it, the casual use and QRM should drop off unless, of course, everyone just shifts over to try to use MIR BBS. DIGI of connected packets is such a bandwidth hog that unless I'm running APRS, I normally disable DIGI to discorage it's use.

```
--
Randy Hammock KC6HUR                    |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS        |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400  |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770              |     FAX: +1 301 507-5892
```

---

237. Re: [APRSSIG:5753] Clueless question

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 9 Jan 1996 09:05:26 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601091505.JAA24025@solar.cs.tamu.edu>
Rendered body type: text/plain

Gregory R. LaBorde sez:

> Could someone explain to me why digipeating an AX.25 packet that contains information readable by any system capable of AX.25 packet, and usable by particular software programs known by various permutations of the name "APRS", is somehow fundamentally different than digipeating "hey, this is Joe!!!"?

When Mir was new, and the earth's crust was still cooling, and shortly after the radio went up in a box marked "Cake," a lot of folks learned about the digi capabilities of Mir. It got pretty bad. Some passes, the cosmonauts couldn't make a voice contact over CONUS because of the packet racket. With a few well-placed messages, and a bit of harping on the worst offenders, and a healthy dose of tincture of time, most of the random digipeating died off, and the guys could expeect to either do packet or voice as *THEY* deemed desirable. About a year ago, Dave was trying to support the guys up there, and had some problems. He saw some form of gibberish he couldn't interpret and shipped a copy to me. The timestamps indicated very, VERY frequent attempts to ship position reports through. He asked then that it ease off or cease. Now, my timing's not too good this morning... it could have ben longer than that, but you get the idea.

Another thing that had to be squelched in that period: A lot of folks decided to start using Mir's PMS for worldwide mail. The Mir crew, directly, and via AMSAT, requested in strong terms that that cease, and only mail to Mir, or from Mir to selected folks (their dynamic selection, I might add) be posted. Not unreasonable as a request, since for a while a lot of their daily operational message had to go up that way a coouple of years ago (and not a violation of any laws: without the messages, they were in an emergency setting!)

> It is not clear to me that APRS is a different "protocol" than a bunch of people sitting around using unconnected packets to talk. Someone has just automated it a bit and focused the exchanged information in a geographical sense.

That it doesn't make sense to the uninitiated, makes it seem to them like another protocol. It's a code, although an open one, in the strictest sense of the word.

> I agree that the operators of the space stations such as Mir should have the final say on what is and is not allowed. I think it should either be OK or not OK to digipeat [UI] frames via a particular space station. Limiting what type of UI frame gets through seems artificial (and do not cite TCP/IP, in which a connected protocol "rides atop" unconnected AX.25 [UI] frames. That *is* different.).

Indeed. I'm pretty certain that the concern is a high rate of position reports.

> PS Dave, N6JLH, while a truly amazing individual with quite a story, if you can pry it out of him, is the North American Mir QSL Manager. Does that make him the same as a Mir station control operator? If not, any final word should come from them (even if via Dave).

Indeed, again. And, ask him sometime about Norm Thaggard and Mother's Day.
:-) *That* is a heartwarming story!

Again, and to summarize: It's the frequency of the unproto digipeats that can
cause the problems. And it's not just APRS. I'd be much more worried by a 10
sec. beacon frequency with a long beacon text than by an every 2-minute APRS
beacon.

73, gerry

---

238. Re: [APRSSIG:5847] Re: Internet APRS Gateways

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 9 Jan 1996 08:49:44 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601091449.IAA23777@solar.cs.tamu.edu>
Rendered body type: text/plain

Per Molund sez:
>
> On Mon, 8 Jan 1996, Chuck Grant wrote:
>
> >
> > You must remember a few things about the internet and computer network
> > security in general. Anything you send can go to lots of places besides
>
> I suppose an encryption/autentication package such as PGP could solve
> this problem. As long as the encryption/decryption are done at the
> Internet gateways, there should be no problems using encryption even
> though part of the link takes place on the air.

Nope. And folks have been working on this for years. Possibly with the
advent of IPV6, header authentication and encryptions with public and private
keys (in a manner considerably more robust than RSA) we will be able to do
tunnelling of protocols more smoothly. I do know KA9Q has a real interest in
this and is in the thick of the IP Security working group concerning that.

Offhand, I like Chuck's idea, but I won't have time to do anything with it
'til after the cows go out again.

73, gerry

---

239. Old Mac Floppy or Hard Disk

From: dlm@nr.infi.net (Dan McMillin)
Date: Tue, 9 Jan 1996 10:46:42 -0500
To: aprssig@tapr.org
Message-ID: <199601091546.KAA29779@moe.infi.net>
Rendered body type: text/plain

Has anyone an old 400kb Mac Floppy or hard disk that they would be willing
to sell. I took a 128kb Mac and upgraded it to 512kb only to have one of the
two floppys go bad. Please e-mail me direct
Dam McMillin W4DGE
dlm@nr.infi.net

---

240. Re: [APRSSIG:5820] Re: SPRE guidance

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 9 Jan 1996 09:59:52 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601091559.JAA25028@solar.cs.tamu.edu>
Rendered body type: text/plain

dwetzel@uswest.com sez:
>
> Just one question - Bob, Gerry, et al -
>
> Why did you let them launch this mission at a 28.5 inclination so those of us
> above 40 degrees can't see very well! ;-)

To borrow a Blues Brothers line...

I didn't do it. It wasn't my fault. It was terrible. A flood. Of locusts.
believe me, baby...

:-)

Just recall that most missions, unless they have a mission requirement for a
higher inclination, will take the lower energy launch to 28.5 degrees, using
the earth's rotation for a few extra KPS. So, I suspect that is what happened
here.

```
73, gerry
```

241. Re: [APRSSIG:5827] KAM + and GPS support?

From: Sam_Lipson@berlex.com (Sam Lipson)
Date: Tue, 9 Jan 1996 07:54:43 -0800
To: aprssig@tapr.org
Message-ID: <0f291c60@ccgate.berlex.com>
Rendered body type: text/plain

```
Kantronics announced v8.0 last year which has GPS support

73, de Sam, KO6JR
Packet: KO6JR@KA6FUB.#NOCA.CA.USA.NOAM
Internet: Sam_Lipson@Berlex.Com
!3759.23N/12205.13WM

______________________________________________________________________________
Subject: [APRSSIG:5827] KAM + and GPS support?
From:    aprssig@tapr.org at Internet
Date:    01/08/96  16:56


I have a year-old KAM + and would like to get it working for occasional mobile
GPS applications on VHF or HF.  The current 7.0? software doesn't recognize GPS
commands.  DOes anyone know if this has changed or is going to change?

73 - Jon NW6H
```

242. Re: [APRSSIG:5817] Gates

From: DDOBBINS@aol.com
Date: Tue, 9 Jan 1996 11:39:31 -0500
To: aprssig@tapr.org
Message-ID: <960109113540_86559188@mail06.mail.aol.com>
Rendered body type: text/plain

```
>Bill, KE4EER asks "Just a question is RELAY,WIDE,GATE,GATE, >WIDE be
something I should be using?".

Bill, you've been using APRS long enough to know better. For those who don't,
the above digi path can be used for mobile units. For OPTIMUM utilization
over HF however, I set my KPC-3 to digi through this path at once ever 10
MINUTES. Also, another path set to WIDE,GATE,GATE,WIDE is set at 11 MINUTES.

The path referred to by Bill is not recommended for a base station, or if you
leave your GPS/APRS mobile on 24 hours a day and are only driving across your
own town/city, and especially not digi'ing out once per minute, like some
users apparently have been.

Folks (and I think Bill knows this), we all need to use a little common sense
when coming up with a path that includes the HF bands, irregardless of the
freq. 300 baud is slow, and the limitation of some TNCs to set multiple digi
paths is interfering with those on VHF and trying to get position updates
once a minute into their community. If you only have once digi path, and want
to set it to once a minute, keep your signal to VHF only. If you have the
capability of the KPC-3 and multiple digi paths, I don't see a problem with
setting one of them to WIDE,GATE,GATE,WIDE or RELAY,WIDE,GATE,GATE,WIDE as
long as your rate is 10 minutes or MORE.

I don't need the flak or flames here. No fire protection whatsoever. I do
however have a bathing suit, and with that I'll say....... TIME TO HEAD TO
THE BEACH.

Aloha, Dave.
```

243. Re: [APRSSIG:5849] Re: Internet APRS Gateways

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 09 Jan 1996 08:56:12 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <04FB430F29E2C009*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Chuck appears to have a far better understanding than most of us of
     the security (and lack thereof) issues that surround the Internet.
     His points are well considered.

     However, I'd like everyone to consider this: this is Amateur Radio.
     Not banking, not NSA secret data, not private personal communications.
     By its very nature, Amateur Radio carries no information of "value".
```

There are no secrets. It is a giant party line, where anyone in the world may tune in and monitor. (Sounds like the Internet, huh?)

It is true that Amateur Radio transmitters may be operated only be licensed Amateurs. The intent of the rule is clear. However, there is no way to guarantee that this will always occur. A repeater, remote base or packet digipeater, for example, is in truth a fair portion of the time unmonitored and therefore open to keyup by an unauthorized or perhaps unlicensed individual. The FCC recognizes this and requires due diligence on the part of the control operators or licensees. However, it's not possible to make sure that it never occurs.

There are autopatches sold and used that allow an outside caller to call in and cause the Amateur Radio transmitter to come on, ID and transmit a ring tone. These are quasi-legal but tolerated by the FCC so long as there is no egregious violation of the rules. The point here is that there is already precedent for the control of an Amateur Radio station from a wireline common carrier.

The Internet is no different. In fact, it can be argued that the Internet is merely a protocol that lays atop the telephone common carrier service. Thus, so long as Amateurs exercise reasonable and prudent control of that interface, and do not allow any "misuse" to get out of hand, that it should be tolerated by the FCC. Section 97.219 - Message forwarding system, states

> (d) For stations participating in a message forwarding system, the control operator of the first forwarding station must:
> (1) Authenticate the identity of the station from which it accepts communications on behalf of the system; or
> (2) Accept accountability for any violation of the rules in this Part contained in messages it retransmits to the system.

This is not an unreasonable restriction. It is straightforward to employ reasonable security (not fancy encryption or much else) in order to comply with the rules.

Look at the wording used for telecommand of an amateur station, Section 97.213:

> (c) The station is protected against making, willfully or negligently, unauthorized transmissions.

It says "willfully and negligently". This means so long as reasonable and flexible precautions are made, the operator is in compliance.

Section 97.205, Repeater Station, states:

> (g) The control operator of a repeater that retransmits inadvertently communications that violate the rules in this Part is not accountable for the violative communications.

Finally, Section 97.109 - Station control.

> (d) When a station is being automatically controlled, the control operator need not be at the control point. Only stations specifically designated elsewhere in this part may be automatically controlled. Automatic control must cease upon notification by an EIC that the station is transmitting improperly or causing harmful interference to other stations. Automatic control must not be resumed without prior approval of the EIC.

So it appears that the FCC is trying to be very reasonable and allow us much latitude. They give us plenty of rope, we get to try to hang ourselves.

73 - Jon

---

244. Re: [APRSSIG:5854] Re: Clueless question

From: ke4eer@ro.com (William Nolle)
Date: Tue, 09 Jan 1996 11:02:11
To: aprssig@tapr.org
Message-ID: <199601091710.LAA18349@sh1.ro.com>
Rendered body type: text/plain

```
Again and Again i see messages in the APRS!!! sig that realy do not have
anything to do with aprs as at least i'm using it. All i have seen lately are very
VERY long messages on MIR and who should or shouldn't do this or that. I see
fewer and fewer regular APRS users on here with their questions and answers
to problems. I guess the person that said turn off the switch was right after all.
APRTRACK or whatever it's called is a totally different program and i feel that
this constant MIR thing should be carried on somewhere in a satellite sig. But
again that's just my opinion and i have the freedom to drop out anytime i feel
i need to. With all the unrelated messages here and the HF users abuse of
the Gates i may just give up the whole thing and do like several other local
APRS users have done and just give up and move on to another amateur radio
function. Or maybe better yet i will do what many many older hams are doing
move on to Webphone, Iphone,Cyberphone!. This doesn't require any costly
Antenna's, Digi's,TNC's,Radio's and still be able to communicate with Amateurs
all over the globe. Just hit the DELETE key on this one if you don't like to read
it HI HI.

Bill KE4EER
ke4eer@ro.com
------------------------
>Gregory R. LaBorde sez:
>>
>> Could someone explain to me why digipeating an AX.25 packet that contains
>> information readable by any system capable of AX.25 packet, and usable by
>> particular software programs known by various permutations of the name
>> "APRS", is somehow fundamentally different than digipeating "hey, this is
>> Joe!!!"?
>
>When Mir was new, and the earth's crust was still cooling, and shortly after
>the radio went up in a box marked "Cake," a lot of folks learned about the
>digi capabilities of Mir.  It got pretty bad.  Some passes, the cosmonauts
>couldn't make a voice contact over CONUS because of the packet racket.  With a
>few well-placed messages, and a bit of harping on the worst offenders, and a
>healthy dose of tincture of time, most of the random digipeating died off, and
>the guys could expeect to either do packet or voice as *THEY* deemed
>desirable.  About a year ago, Dave was trying to support the guys up there,
>and had some problems.  He saw some form of gibberish he couldn't interpret
>and shipped a copy to me.  The timestamps indicated very, VERY frequent
>attempts to ship position reports through.  He asked then that it ease off or
>cease.  Now, my timing's not too good this morning... it could have ben longer
>than that, but you get the idea.
>
>Another thing that had to be squelched in that period:  A lot of folks decided
>to start using Mir's PMS for worldwide mail.  The Mir crew, directly, and via
>AMSAT, requested in strong terms that that cease, and only mail to Mir, or
>from Mir to selected folks (their dynamic selection, I might add) be posted.
>Not unreasonable as a request, since for a while a lot of their daily
>operational message had to go up that way a coouple of years ago (and not a
>violation of any laws:  without the messages, they were in an emergency
>setting!)
>
>> It is not clear to me that APRS is a different "protocol" than a bunch of
>> people sitting around using unconnected packets to talk. Someone has just
>> automated it a bit and focused the exchanged information in a geographical
>> sense.
>
>That it doesn't make sense to the uninitiated, makes it seem to them like
>another protocol.  It's a code, although an open one, in the strictest sense
>of the word.
>
>> I agree that the operators of the space stations such as Mir should have
>> the final say on what is and is not allowed. I think it should either be OK
>> or not OK to digipeat [UI] frames via a particular space station. Limiting
>> what type of UI frame gets through seems artificial (and do not cite
>> TCP/IP, in which a connected protocol "rides atop" unconnected AX.25 [UI]
>> frames. That *is* different.).
>
>Indeed.  I'm pretty certain that the concern is a high rate of position
>reports.
>
>> PS Dave, N6JLH, while a truly amazing individual with quite a story, if you
>> can pry it out of him, is the North American Mir QSL Manager. Does that
>> make him the same as a Mir station control operator? If not, any final word
>> should come from them (even if via Dave).
>
>Indeed, again.  And, ask him sometime about Norm Thaggard and Mother's Day.
>:-)  *That* is a heartwarming story!
>
>Again, and to summarize:  It's the frequency of the unproto digipeats that can
>cause the problems.  And it's not just APRS.  I'd be much more worried by a 10
>sec. beacon frequency with a long beacon text than by an every 2-minute APRS
>beacon.
>
>73, gerry
>
```

---

245. Re: [APRSSIG:5842] Re: Internet APRS Gateways

```
From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 09 Jan 1996 09:03:59 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "grant@aretha.llnl.gov" <grant@aretha.llnl.gov> (Return requested)
Message-ID: <0532930F29FFF013*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain
```

```
THis is an excellent thought.  And completely doable with the
     equipment at hand.  Are you volunteering, Chuck?  %^)

     73 - Jon NW6H



Chuck Grant has a really cool idea:
> If you want make use of the internet with APRS in an interesting way,
> let me suggest that you do not impose all the limits of 1200 baud VHF
> packet radio onto the internet.  Relaying VHF packets is useful, but it
> is about the least useful use of the internet/APRS that I can think of.
> It would be so much better use of the internet's facilities to do
> something like send position reports to a central or regional host on
> the internet.  That host keeps a data base of each submitter's last
> known position.  A subscriber can then send a request to the internet
> host, which returns, via the internet a list of everyone's last known
> position in one quick message.  When a submitter sends in a new position
> (which indicates an actual change in position), the host could send out
> updates, via the internet, to interested subscribers.  (The host would
> have some policy about the volume and rate of outgoing messages.)

> The whole thing could be done with e-mail, a mailing list
> package, a few simple programs, and a spare host on the
> internet.

> APRSM@APRS.NET anyone?

> Hey, you don't even need a radio or license to join the fun!

> Chuck
```

---

246. 80m gate

```
From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 09 Jan 1996 10:36:40 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960109163640.00700d18@144.188.134.33>
Rendered body type: text/plain
```

```
> Nothing official (record keeping) has started yet so it is
>no big deal, we will probably drift to 3.585.00 once we start.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida

WD9ABE and N9VHW have agreed on a split in gate functions for north east
Illinois. N9VHW will stay on 30m (with GATE) and WD9ABE will move to 3585
khz LSB with GATEIL. This should be on the air sometime tuesday evening.
Please speak up if there is a problem with this!
Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)
```

---

247. spre

```
From: "Tony Flusche" <tony_flusche@compuware.com>
Date: Tue, 09 Jan 96 12:17:14 EDT
```

```
To: aprssig@tapr.org
Message-ID: <199601091921.AA25280@stargate.compuware.com>
Rendered body type: text/plain
```

```
What is the callsign for spre? 73 AB6BR
```

248. Re: [APRSSIG:5842] Re: Internet APRS Gateways

```
From: Chuck Grant <grant@aretha.llnl.gov>
Date: Tue, 9 Jan 1996 11:26:41 -0800
To: aprssig@tapr.org
Message-ID: <199601091926.LAA07274@aretha.llnl.gov>
Rendered body type: text/plain
```

```
> From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
>
>      THis is an excellent thought.  And completely doable with the
>      equipment at hand.  Are you volunteering, Chuck?  %^)
>

I'm thinking about it.  Currently the APRS license agreement does not
permit me to use the APRS protocol in this non-ham radio application.
I would have to make a specific agreement with Bob or use a different
protocol.  A different protocol might be better since this application
would not face the same kinds of limitations as those on 1200 baud simplex
digipeating VHF packet.

Chuck
```

249. Re: [APRSSIG:5854] Re: Clueless question

```
From: William Richarz <wricharz@ix.netcom.com>
Date: Tue, 09 Jan 1996 14:51:42 -0500
To: aprssig@tapr.org
Message-ID: <199601091953.LAA27034@ix3.ix.netcom.com>
Rendered body type: text/plain
```

```
At 09:17 AM 1/9/96 -0600, you wrote:
>Gregory R. LaBorde sez:
>>
>> PS Dave, N6JLH, while a truly amazing individual with quite a story, if you
>> can pry it out of him, is the North American Mir QSL Manager. Does that
>> make him the same as a Mir station control operator? If not, any final word
>> should come from them (even if via Dave).


If Dave is indeed the North American QSL Manager, why is it a secret?

I've sent several QSL cards to the address I have seen in QST & CQ, and have
never gotten a return QSL Card...even included the Greenback.  Please let us
all know & maybe some folks that get a return QSL Card will discontinue making
more "Contacts".

=========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
=========================================================================
```

250. Re: [APRSSIG:5840] RE: HELP PK232 +APRS

```
From: Jess Girard <girard@panix.com>
Date: Tue, 9 Jan 1996 16:24:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960109161352.10431A-100000@panix.com>
Rendered body type: text/plain
```

```
Gentlemen:

Anyone with a PC can communicate with his tnc without the need for a
special packet program and can set up an AEA PK-232MBX or PK-88 or
whatever.

The elegant way is to use something like Procomm or another general-
purpose comm program. Simply tell the progam the correct comm port. Then
when you turn on your PK-232 simply hit asterisk (*) and it will auto-baud
and come back with the cmd: prompt. You can then kill the comm program and
run the APRS software. (DON'T tell Procomm you want to hang up!)

If you haven't got a comm program (You don't?? You kidding? How do you
read this reflector?) just use the appropriate mode commands to talk to
the comm port. You can easily write a little batch file that automates
```

the whole procedure.

I found years ago when trying to put my PK-232 into KISS mode for 2-meter amateur tcp/ip that trying to use PCPakratt to set up the tnc created more problems than it solved. It seems the same is still the case. AEA puts the tnc into some bizarre host mode from which the only escape is to turn off and pull the battery out of the tnc. Pity they made it so complex.

73
Jess Girard ND1L

APRS 4107.59N 07320.00W PHG 7160 - on 145.79 MHz

```
*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*
email: Routine text  girardj@delphi.com
       Data          girard@panix.com  or girard@netcom.com
       FTP           ftp.netcom.com (ftp/pub/gi/girard/jess)
packet: nd1l@nd1l.ampr.org  44.88.6.4  - on  145.65 MHz
        nd1l@kc2fd.ny (AX25 - forwarded to above ip station)
*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=
```

---

251. download from tapr problem

From: rrucker@cais.cais.com (Dick Rucker)
Date: Tue, 9 Jan 1996 16:33:41 -0500
To: aprssig@tapr.org
Message-ID: <v01530507ad187849f912@[206.161.65.81]>
Rendered body type: text/plain

I have tried without success to download some MacAPRS files from tapr's web site.

The most persistent problem is an inability to decompress the received file. For example, the file "MacAPRS.other.sit.hqx" is on my desktop. When I ask StuffIt Deluxe to "un-hqx" and "unstuff" the file, get the following error dialog:

"Errors occurred while executing the script 'MacAPRS.other.sit.hqx.'   Some commands may not have been executed."

When I ask BinHex 5.0 to just "un-hqx" the file, I get a "No check sum error" reported in a dialog box.

This has happened on other files I've tried to download from taper.

The other problem: when I tried to download the latest version of MacAPRS at around 5 am EST, the first 500K bytes came down just fine, but then the transfer just stopped. I waited for about 10 minutes before stopping the download session, which I was conducting using Netscape on the Mac.

Any ideas on what is happening and how I can fix it?

BTW, I'm using a

- Mac 7200/90 with 24 Mbytes of RAM
- 28k8 SupraFAXmodem
- FreePPP 1.0.4
- Open Transport 1.0.8

Thanks for any help you can give.

73, Dick

Richard A. "Dick" Rucker
Solo Consulting, Inc.
Fairfax, VA
email via SMTP: rrucker@cais.com
Amateur Radio: KM4ML

---

252. Re: [APRSSIG:5842] Re: Internet APRS Gateways

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 09 Jan 1996 13:01:37 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "grant@aretha.llnl.gov" <grant@aretha.llnl.gov> (Return requested)
Message-ID: <054CB30F2D7B1006*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

This is a very cool idea. Are you volunteering, Chuck?

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5842] Re: Internet APRS Gateways
Author: grant@aretha.llnl.gov at Internet
Date: 1/8/96 11:29 PM

... things removed for brevity...

If you want make use of the internet with APRS in an interesting way, let me suggest that you do not impose all the limits of 1200 baud VHF packet radio onto the internet. Relaying VHF packets is useful, but it is about the least useful use of the internet/APRS that I can think of. It would be so much better use of the internet's facilities to do something like send position reports to a central or regional host on the internet. That host keeps a data base of each submitter's last known position. A subscriber can then send a request to the internet host, which returns, via the internet a list of everyone's last known position in one quick message. When a submitter sends in a new position (which indicates an actual change in position), the host could send out updates, via the internet, to interested subscribers. (The host would have some policy about the volume and rate of outgoing messages.)

The whole thing could be done with e-mail, a mailing list package, a few simple programs, and a spare host on the internet.

APRSM@APRS.NET anyone?

Hey, you don't even need a radio or license to join the fun!

Chuck

---

253. Re: [APRSSIG:5857] Re: SPRE guidance

From: dwetzel@uswest.com
Date: Tue, 9 Jan 1996 14:11:29 -0600
To: aprssig@tapr.org
Message-ID: <0f2e7a10@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Are you sure it's not because all of the digi'ing comes from above 40 degrees?

;-)

kc7co
____
Subject: [APRSSIG:5857] Re: SPRE guidance
From: aprssig@tapr.org at Internet-Mail
Date: 1/9/96 10:18

dwetzel@uswest.com sez:
>
> Just one question - Bob, Gerry, et al -
>
> Why did you let them launch this mission at a 28.5 inclination so those of us
> above 40 degrees can't see very well! ;-)

To borrow a Blues Brothers line...

I didn't do it. It wasn't my fault. It was terrible. A flood. Of locusts. believe me, baby...

:-)

Just recall that most missions, unless they have a mission requirement for a higher inclination, will take the lower energy launch to 28.5 degrees, using the earth's rotation for a few extra KPS. So, I suspect that is what happened here.

73, gerry

---

254. Re: [APRSSIG:5841] Re: Florida 40/80 m gates

From: n2czf@gate.net
Date: Tue, 9 Jan 1996 18:18:01 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199601092318.SAA59136@osceola.gate.net>

Rendered body type: text/plain

In Bob's previous message about using GATEXX instead of XXGATE if that is what he wishes we can do that, it is still early and we are ONLY TESTING right now so changes are easy enough if needed.

Seems that some people thought we were going AGAINST Bob's wishes just for the heck of it but this is not the case. It seems that in the mess of mail, yes, I think some of the messages do become a mess on the sig but I am not a complainer, that I lost the pervious messages that Bob posted about GATEXX.

I try to check the sig 2 times a night but sometimes there is still a lot of mail that I need to sift thru. I often scan the subjects and delete on the fly depending on the # of new messages and the ammount of time that I have that night. It could have possibly been that the message was in a REPLY with a slightly different topic or I was going crazy with the delete ICON and killed a few I did not mean to.

I will get together with KD4UYR and try to sync a change if that makes everyone happy and then one of us will post the change after we have done it. Again Kevin and I were never planing so many people to be so excited and willing to participate. Kevin and I were just going to horse arround for a little before the test started but I guess due to the turnout we now have a "official" pre-test. We are very pleased with the turnout and it is growing every day!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

255. Re: [APRSSIG:5864] spre

From: Larry Griffin <largriff@onramp.net>
Date: Tue, 9 Jan 1996 21:29:44 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BADED9.9C5E3880@lub04.onramp.net>
Rendered body type: text/plain

Tony Flusche wrote:
>What is the callsign for spre? 73 AB6BR

-----------

The callsign is W3AEX.
For more info about the Spartan Packet Radio Experiment (SPRE) see:
http://w3eax.umd.edu/spre.html

Don't forget to practice with APRTrak *before* Sunday, Jan 13th!

By the way, my APRTrak beacons will be as follows:
AB5GE>DM93CO,W3EAX:25W 4.5dBd Omni @ 65'
Does that look appropriate, Bob?

Larry Griffin <largriff@onramp.net>

256. Re: [APRSSIG:5860] Re: Internet APRS Gateways

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 09 Jan 1996 21:43:46 -0600
To: aprssig@tapr.org
Message-ID: <199601100339.VAA12762@sys1.tapr.org>
Rendered body type: text/plain

The idea for a store and forward by request internet app is interesting and the mechanism for covering the rules for the control operator is an interesting problem.
I was wondering if the very APRS format could be the controlling security. Only acceptable aprs location packet's would be acceptable, and no btext would be allowed thereby eliminating the chance for offensive btext from unliscenced users. Also one could utilize a look up of callsign using QRZ to verify the location text before accepting it for internet availability

> This is not an unreasonable restriction. It is straightforward to employ reasonable security (not fancy encryption or much else) in order to comply with the rules.
>
> Look at the wording used for telecommand of an amateur station, Section 97.213:
>
>
> (c) The station is protected against making, willfully or negligently, unauthorized transmissions.

--

```
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
--------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

257. 6mtr APRS

From: steve@muskoka.com (Steve Dubois)
Date: Tue, 09 Jan 1996 23:16:55 -0500
To: aprssig@tapr.org
Message-ID: <199601100428.XAA00944@gold.muskoka.com>
Rendered body type: text/plain

Happy New Year to you all. I hail from the Muskoka's in Ontario,Canada.
Being new to APRS and this very active group I am very interested in 6mtr
APRS. My questions are: Is there anyone out there on 6mtr APRS and if so
what is the general freq. that everyone uses.

Any help on the above would be greatly appreciated. This is an excellent
program and having just been registered am proud to be a part of APRS. We
have an excellent and eager group forming in Northern Ontario.

Thanks in advance one and all.
73 de Steve.......VA3HOI

258. Re: [APRSSIG:5843] MIM Module

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jan 1996 01:35:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110013317.14154A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 8 Jan 1996, Joseph Hussey wrote:

> Would like to order one of the MIM Modules but:
>
> Attempted to call "Clement Engineering" at (410) 268-4611 but I keep
> getting the answering machine for "Bruce Roberts Design".

WB4APR REPLY COMMENT:

Yep, Until the phone gets instaled, we are using the other guys phone and
answering machine... Sorry. ALso we have now been snowed in for 4 days.
Nothing is moving, nobodys able to make it to work... etc... Sorry...

259. Re: [APRSSIG:5845] APRTrak & SPRE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jan 1996 01:40:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110013903.14154B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 8 Jan 1996, Larry Griffin wrote:

> Bob, I've been practicing a little with APRTrak to prepare for the SPRE mission
> coming up this SUNDAY and MONDAY. It should be VERY INTERESTING.
>
> One question: When setting up APRTrak, what value should I use to represent
> the beamwidth of an Omni? 0 or 360?

WB4APR REPLY COMMENT:

The ONLY thing that is used for, is drawing the blue circle on your
horizon display. ANd since you will see the whole sky, there is no need
for a circle... So, I donno. Hope the program doesnt crash on 360, hi hi

260. Re: [APRSSIG:5844] Re: MIM TNC Module

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jan 1996 01:43:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110014104.14154C-100000@greatlakes>

Rendered body type: text/plain

On Mon, 8 Jan 1996, rwf wrote:

> The MIM has a DCD? I thought you said it was going to be deaf.
> Is an envelope DCD one that just listens for noise? If not, what
> exactly do you mean?

WB4APR REPLY COMMENT:

It has a DCD input for holding off the transmitter if there is a signal
on the receiver. THe DCD is just an input pin. SImplest envelope
detector is a pair of diodes and a transistor...   Yes, ANY noise then
will hold it off. (If you use it).

---

261. 1996 is finally here! :-)

From: zonker@iserver.woodside.k12.ca.us (David K. Z. Harris)
Date: Tue, 9 Jan 1996 22:57:20 -0800
To: aprssig@tapr.org
Message-ID: <v02130504ad19131b6474@[192.187.159.44]>
Rendered body type: text/plain

Happy New Year!   Hooray for the new versions!

  Have you had any success with the GPS/PCMCIA package we sent back yet?

  I'll be pulling the new version tonight to try, and looking for new
maps. (If I asked *REALLY NICELY*, do you think I could get a quadrangle

for the Baker-to-Vegas race, if I gave you two corners (lat & lon each)?

        -Z-   N6UOW

---

262. SPRE Beacon format?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jan 1996 02:22:46 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960110022013.14154H-100000@greatlakes>
Rendered body type: text/plain

On Tue, 9 Jan 1996, Larry Griffin wrote:

> By the way, my APRTrak beacons will be as follows:
> AB5GE>DM93CO,W3EAX:25W 4.5dBd Omni @ 65'
> Does that look appropriate, Bob?

WB4APR REPLY COMMENT:

Actually, that is a pretty good idea! Shows everyone not only where you
are, but also what everyone is competing against..... hi hi

---

263. Re: [APRSSIG:5860] Re: Internet APRS Gateways

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 10 Jan 1996 07:02:02 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601101302.HAA07723@solar.cs.tamu.edu>
Rendered body type: text/plain

Jon T Adams sez:
>
>
>   Chuck appears to have a far better understanding than most of us of
>   the security (and lack thereof) issues that surround the Internet.
>   His points are well considered.
>
>   However, I'd like everyone to consider this: this is Amateur Radio.
>   Not banking, not NSA secret data, not private personal communications.
>   By its very nature, Amateur Radio carries no information of "value".
>   There are no secrets. It is a giant party line, where anyone in the
>   world may tune in and monitor. (Sounds like the Internet, huh?)

> Remainder deleted for brevity

While Jon does abstract the rules and examine them with some detail, I'm
afraid he mised a point the FCC *did* make a couple of years ago in citing
several operators for e-mail going through internet gateways from non-amateur
sources. That was what fostered the degree of paranoia concerning this issue.

Chuck, rather than a timed or bin-full derived e-mail list, why not make it a POP-server-like system, where there's no issue of a non-Amateur causing a report to be generated?

If you/we are going to have to recast some of the code anyway, that should be pretty straightforward. I'll try to look at this later next week, after I give the cows another run.

73, Gerry
gerry@n5jxs.tamu.edu

---

264. RE: HELP PK232 +APRS

From: Randy Hammock <hammock@tis.telos.com>
Date: Wed, 10 Jan 1996 08:57:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960110085042.21565A-100000@zentropa>
Rendered body type: text/plain

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 9 Jan 1996, Jess Girard wrote:

> The elegant way is to use something like Procomm or another general-purpose comm program. Simply tell the progam the correct comm port. Then when you turn on your PK-232 simply hit asterisk (*) and it will auto-baud and come back with the cmd: prompt. You can then kill the comm program and run the APRS software. (DON'T tell Procomm you want to hang up!)

[I know what I say below is for the PK-88 in the midst of a PK-232 discussion. I do so because the PK-88 was mentioned in the paragraph before the one quoted above.]

Not completely true. No matter what communication program you use, no matter what you put into INITAEA.TNC, APRS sends a command to the PK-88 which causes it to not work. Bob is aware of this and is looking into a fix for it. I have had much correspondance with him on this regard.

```
--
Randy Hammock KC6HUR                   |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS       |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400  |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770              |     FAX: +1 301 507-5892
```

---

265. New comer

From: James Prentice WA2MZF <PRENTICE@scanva.canton.edu>
Date: Wed, 10 Jan 1996 09:02:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01HZU8LCWYAW0017TR@scanva.canton.edu>
Rendered body type: text/plain

Hi group.
Just getting started on aprs and a few questions if I might ?

1. Have scanned the readme files, using 73e at the moment.
2. Appears we do not want vhf linked to hf ops ?
   Can understand that. But ur comments would be nice.
3. I am working on edge of 30 meters with ts850. scary working
   on edges hi. But see some activity, slows down as night falls.
   I can get *ack* from a few stations, but no short qso as yet.
   Want to see if this works hi. Are some of the signals I am seeing
   for the most part unattended ? thus no contact.
4. Using pk232 with no problem that I know of.
   Any suggestions on what I should set unproto to and beacon ?

thanks again..

wa2mzf

prentice@scanva.canton.edu

---

266. Re: PK-88 + APRS

From: Jess Girard <girard@panix.com>
Date: Wed, 10 Jan 1996 10:47:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110104359.4752B-100000@panix.com>
Rendered body type: text/plain

```
Hi Randy:

I wasn't aware that the PK-88 wouldn't work with APRS. I thought (!) that
I had made it work some months back, but now I'm not sure.

Thanks for letting me know.


73
Jess Girard  ND1L

APRS 4107.59N 07320.00W PHG 7160  - on 145.79 MHz

*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*
email: Routine text  girardj@delphi.com
       Data          girard@panix.com  or girard@netcom.com
       FTP           ftp.netcom.com (ftp/pub/gi/girard/jess)
packet: nd1l@nd1l.ampr.org  44.88.6.4  - on  145.65 MHz
        nd1l@kc2fd.ny (AX25 - forwarded to above ip station)
*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=
```

---

267. Re: [APRSSIG:5881] Re: Internet APRS Gateways

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jan 1996 10:54:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110105223.942C-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 10 Jan 1996, Gerald J Creager wrote:

> While Jon does abstract the rules and examine them with some detail, I'm
> afraid he mised a point the FCC *did* make a couple of years ago in citing
> several operators for e-mail going through internet gateways from non-amateur
> sources.  That was what fostered the degree of paranoia concerning this issue.

WB4APR REPLY COMMENT:

All this FCC rules business goes away if you let the RADIO data ENTER the
internet distribution system, then let everyone get the data on line.
```

---

268. Re: [APRSSIG:5881] Re: Internet APRS Gateways

From: cts@direct.ca (Fred Kehler (ve7ipb))
Date: Wed, 10 Jan 1996 09:11:28 -0800
To: aprssig@tapr.org
Message-ID: <v01510102ad19a12e93c6@[204.174.238.2]>
Rendered body type: text/plain

```
>Chuck, rather than a timed or bin-full derived e-mail list, why not make it a
>POP-server-like system, where there's no issue of a non-Amateur causing a
>report to be generated?
>
>If you/we are going to have to recast some of the code anyway, that should be
>pretty straightforward. I'll try to look at this later next week, after I give
>the cows another run.

great idea!  a pop style server with input via a number of sources like
AX25 tunnels to nos boxes, or update inputs via email, etc...
and then provide a number of predefined reports like:

-list of most current stations by time
-list of known stations by area
-list one station only, with history
etc..
with downloaded output viewable as log type file by programs like APRS

# Fred Kehler      Clearbrook Technical Services Ltd      voice 604 850-3010
# Internet:  cts@clrtech.com.  Amateur Radio TCP/IP:  ve7ipb@ve7ipb.ampr.org.
```

---

269. NEW maps (NEWusa.zip)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jan 1996 12:41:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110123130.2518A-100000@greatlakes>
Rendered body type: text/plain

```
Being snowed in for 4 days, I cleaned up some of my map structure and
made some new maps:
```

* Added more detail to these maps: USAeast, USAseast, USAwest
* Built a new USAncen
* Made 3 new maps of West Colorado and West Nebraska
* The above additions will allow me to remove 13 other maps from the basic APRS distribution and move them to the regional dsitribution files.

Since I am not sure if I have my latest MAPLIST.USA, the NEWUSA.ZIP does NOT have a MAPLIST in it. Here are the needed entries for the new maps:

USAncen.map,44.5,105,480,
COnwest.map,39.9,107.6,72,
COswest.map,38.1,107.5,72,
NEwest.map,42,102.3,72,

Also, the file NEWUSA.zip will need to be unzipped directly to your MAPS directory since I did not zip it with the directory structure.

You will find NEWUSA.zip on the Annapolis BBS 410-280-2503, since again, it would not upload via kermit to my internet host. Will the first person that gets it, and does not have to use kermit, please move it to tapr? Thanks...

---

270. 80m gate

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 10 Jan 1996 12:38:11 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960110183811.006e19e8@144.188.134.33>
Rendered body type: text/plain

>Subject: Re: [APRSSIG:5863] 80m gate
>
>
>   I heard a lot of packets and was able to decode one APRS packet from a
>   station in TN last night on a dial setting of 3584.9 using my FT757
>   and a KAM +. It's currently set up using DOS APRS and maybe someone
>   east will see it?
>
>   73 - Jon NW6H
>

WD9ABE with gate GATEIL saw nothing tuesday night. I heard packets on the hf radio, but all were too weak for the Kam+. Radio is set to 3585.00 LSB, that puts sidebands at 3583.4 and 3583.2, with an average of 3583.3. Perhaps we should start talking the average sideband freq. so that there is no confusion due to different tnc's.
Paul Moller
Motorola CSG
708-523-5210
Motorola pager #7378

---

271. Re: [APRSSIG:5885] Re: Internet APRS Gateways

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 10 Jan 1996 11:03:22 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"bruninga@nadn.navy.mil" <bruninga@nadn.navy.mil> (Return requested)
Message-ID: <03E5D30F40D7A001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Bob is right, of course. And like Chuck before him, this is a really cool idea, to have a net site that collects the position data. Hey! What about displaying it on a Net version of APRS (a regular version of WInAPRS or MacAPRS that could deal with a virtual net TNC)? Or a Web page that is a map? I think that a mail list that one could subscribe to that would contain all the position reports and would be mailed once every 5 minutes or so.

However, it would be even better if netGATEs, sprinkled around the country, could transmit that data on a regular basis. THis would vastly help out the HF network though nastily circumvent that magic 11% loading number, thus overrunning the VHF networks, irritating Bill KE4EER and destroying Amateur Radio as we know it. Darn. I knew there was something wrong with the idea...

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5885] Re: Internet APRS Gateways

Author: bruninga@nadn.navy.mil at Internet
Date: 1/10/96 10:13 AM

On Wed, 10 Jan 1996, Gerald J Creager wrote:

> While Jon does abstract the rules and examine them with some detail, I'm
> afraid he mised a point the FCC *did* make a couple of years ago in citing
> several operators for e-mail going through internet gateways from non-amateur
> sources. That was what fostered the degree of paranoia concerning this issue.

WB4APR REPLY COMMENT:

All this FCC rules business goes away if you let the RADIO data ENTER the internet distribution system, then let everyone get the data on line.

---

272. APRS registration

From: Mike Tyrrell <100321.1327@compuserve.com>
Date: 10 Jan 96 14:18:22 EST
To: "'Bob Bruninga'" <aprssig@tapr.org>
Message-ID: <960110191822_100321.1327_JHF55-2@CompuServe.COM>
Rendered body type: text/plain

Bob,

My name is Mike Tyrrell from near Manchester, England and my callsign is G6GAK. I am the local deputy controller for RAYNET (Radio amateurs Emergency Network) and I've been looking at the use of APRS to assist in emergency communication for events in which we are involved. RAYNET is a charity which provides help to local services such as police and Red Cross when they can't cope. (excuse me if you know all this already!).

I'm hoping to use APRS at a large RAYNET event in February, this is our main training event for the year and involves tracking several hundred runners across open terrain over two days. For the past two years we've been increasing our use of mobile packet for results and planning activities. This year we should have a GPS tracking unit on one vehicle and several other outstations either with "dumb" TNCs or APRS.

We've got along fine with the unregistered version so far but I think I really need to register at least the copy which we use in the control station in order to be able to upload more than one object and to have quick start up with saved parameters.

Do you have any discounted rates available for RAYNET registration? I was led to understand that another UK group had been in touch with you but I've been unable to trace them here.

It would also be easier for me to arange payment in $ in the US than in DM in Europe. Is this OK to register directly with you?

Many thanks for your help & the excellent program!

73 & Happy New Year,
Mike G6GAK

P.S. My home page has a picture of the Cheshire APRS map which I've developed. URL is

http:/ourworld.compuserve.com/homepages/Mike_J_Tyrrell

---

273. Re: [APRSSIG:5886] Re: Internet APRS Gateways

From: lmkeeran@ilstu.edu (Larry Keeran)
Date: Wed, 10 Jan 1996 14:11:07 -0600
To: aprssig@tapr.org
Message-ID: <v02120d05ad19cd55665d@[138.87.2.109]>
Rendered body type: text/plain

What.

I thought I knew alot about "things" but this did it.

What would this do for me? I hope not bog down APRS.

>>Chuck, rather than a timed or bin-full derived e-mail list, why not make it a
>>POP-server-like system, where there's no issue of a non-Amateur causing a
>>report to be generated?
>>
>>If you/we are going to have to recast some of the code anyway, that should be

```
>>pretty straightforward. I'll try to look at this later next week, after I give
>>the cows another run.
>
>great idea!  a pop style server with input via a number of sources like
>AX25 tunnels to nos boxes, or update inputs via email, etc...
>and then provide a number of predefined reports like:
>
>-list of most current stations by time
>-list of known stations by area
>-list one station only, with history
>etc..
>with downloaded output viewable as log type file by programs like APRS
>
># Fred Kehler      Clearbrook Technical Services Ltd      voice 604 850-3010
># Internet:  cts@clrtech.com.  Amateur Radio TCP/IP:  ve7ipb@ve7ipb.ampr.org.

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP - IS Data Processing Equip Tech   lmkeeran@ilstu.edu
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

274. Re: [APRSSIG:5884] Re: PK-88 + APRS

From: "Paul Knupke (CS)" <knupke@babbage.csee.usf.edu>
Date: Wed, 10 Jan 1996 15:24:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960110152338.4204B-100000@babbage>
Rendered body type: text/plain

```
On Wed, 10 Jan 1996, Jess Girard wrote:

> I wasn't aware that the PK-88 wouldn't work with APRS. I thought (!) that
> I had made it work some months back, but now I'm not sure.

I have been running APRS (currently 7.4e registered) with a PK-88 for
quite sometime now without problem.

I don't seem to recall doing anything at all beyond specifying a AEA tnc.

Paul

 ==================================================================
 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /                 Fidonet 1:3603/570
 Amateur Radio Callsign KR4YL   /    Packet @N4XQU.#TPA.FL.USA.NOAM
 Trustee of KE4ZYU and KF4CNH  /              Florida Contest Group
 ==================================================================
```

---

275. Re: [APRSSIG:5863] 80m gate

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 10 Jan 1996 09:01:05 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "Paul_Moller@csg.mot.com" <Paul_Moller@csg.mot.com> (Return requested)
Message-ID: <0710E30F3F0D1009*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
I heard a lot of packets and was able to decode one APRS packet from a
     station in TN last night on a dial setting of 3584.9 using my FT757
     and a KAM +.  It's currently set up using DOS APRS and maybe someone
     east will see it?

     73 - Jon NW6H


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5863] 80m gate
Author:  Paul_Moller@csg.mot.com at Internet
Date:    1/9/96 6:33 PM


> Nothing official (record keeping) has started yet so it is
>no big deal, we will probably drift to 3.585.00 once we start.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida

WD9ABE and N9VHW have agreed on a split in gate functions for north east
Illinois. N9VHW will stay on 30m (with GATE) and WD9ABE will move to 3585
```

khz LSB with GATEIL. This should be on the air sometime tuesday evening.
Please speak up if there is a problem with this!
Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles)

---

276. Re: [APRSSIG:5888] 80m gate

From: n2czf@gate.net
Date: Wed, 10 Jan 1996 17:33:10 -0500
To: aprssig@tapr.org
Message-ID: <199601102233.RAA17344@osceola.gate.net>
Rendered body type: text/plain

I saw nothing on Tuesday night EXCEPT for Jan in Slidell LA. on the 80M frequency and the local FL APRS stations.

As far as frequency that will vary a little bit right now. On my AEA TNC I show 3.585.32 LSB it is off a little but this is due to the surfing I had to do to get as many stations as possible together. In the meantime after geting everyone in one place I was off myself and decided to stay put. No reason to try to move EVERYONE over a few and create a mess again. We will probably move a little either up or down in a few days but will try to make a announcement prior to this so everyone knows to move a little off. Once we make this move (KD4UYR and myself) that will probably be it. Kevin and I are on 24hrs a day and will make sure we are both zero beat. Everyone else can use either his station or mine as a standard to tune in on since we will not move.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

277. Re: [APRSSIG:5881] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Wed, 10 Jan 1996 14:34:07 -0800
To: aprssig@tapr.org
Message-ID: <199601102234.OAA15886@aretha.llnl.gov>
Rendered body type: text/plain

> From: Gerald J Creager <gerry@cs.tamu.edu>
>
> Chuck, rather than a timed or bin-full derived e-mail list, why not make it a
> POP-server-like system, where there's no issue of a non-Amateur causing a
> report to be generated?

I don't understand. How would making it POP-like remove the non-ham report generating issue in a way any different than e-mail? Because you would have to log in over a phone line using your password? That would be pretty restrictive.

The great advantage of sending out e-mail is that you can send out a lot of messages to a lot of different places very quickly, without having to have the receiving hosts connected, on-line, and waiting for the reports. You can also receive reports from lots of places without having to be specificaly connected. There is also an elaborate and somewhat reliable store-and-forward system in place for e-mail. And e-mail is supported on just about any platform. Only a limited number of connections are possible in a POP server system and access is economically restricted to local geographic regions. E-mail is also completely free in most places.

If I implement something, it will be an internet e-mail thing between internet hosts. Hams and non-hams could use it. I would not be able to tell the difference. It would be for position reporting and would not support text messages between users. There would probably be a UNIX/X11 map display program similar to APRS that could run on UNIX hosts (on the internet) or a JAVA display system or something or several things... Perhaps a WWW page where the general public could look at the current map(s). But you would not need that to participate. E-mail would be sufficient as a bare minimum. I would hope that things could be structured compatibly so that you could display this information (and send out e-mail position reports) with the APRS program while it was also running your TNC and radio. I would not expect APRS to gateway the e-mail info onto radio (at least not by default!).

Various policies could be used to determine when and what is sent out on the internet to interested internet receivers, different policies could be used for different receivers, but verifying that a sender (or receiver) is a licenced ham would not be one of the policies, since this can not be done reliably.

If someone wants to take information that they received via e-mail, possibly reformat it, and transmit it on VHF as APRS position/object reports, then that would be their responsibility. I beleive this can be done as long as it is done manually, or at least not too automatically, similar to the weather alert reporting discussed on this list recently.

It would probably be ok for an APRS station with e-mail to transmit the e-mail position reports (assuming that it verifies that the content is indeed position reports intended for public distribution) to another APRS station IF THE OTHER STATION REQUESTED IT and that the original e-mail senders gave their permission. This would be similar to repeaters and digipeaters. The control operator of the repeater doesn't really know that the users are licenced, but they access the facility via ham radio so it is a somewhat safe assumption. Someone else has to act illegally (by unlicenced transmission in the ham band) to make the repeater operate illegally.

Of course there would be no guarantee that any of the information would be correct, timely, or useful.

Chuck

---

278. Re: [APRSSIG:5891] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Wed, 10 Jan 1996 15:20:25 -0800
To: aprssig@tapr.org
Message-ID: <199601102320.PAA16153@aretha.llnl.gov>
Rendered body type: text/plain

> From: lmkeeran@ilstu.edu (Larry Keeran)
>
> What would this do for me?

Depends on your situation.

If you have an internet connection:
 You could watch things in other parts of the world.
 You could fill up your local APRS map with all the fixed local stations and last reported positions of local mobiles (or histories) much faster after staring to run APRS.
 You could probably find out about things that happened in the receint past instead of just while you were listening.
If you do not have an internet connection:
 You might be able to request another station with a connection to get the above information for you and transmit it over VHF (probably bogging down APRS)

> I hope not bog down APRS.

I would not want to see e-mail derived information regularly retransmitted on 1200 baud VHF (or even worse HF). This would really bog things down. Especially when you can get tons of e-mail position info from all over the world. The way I see it, VHF is best suited for mobiles sending their position reports to local APRS systems, to local WIDEs, to local internet e-mail (one-way) gateways, or rarely to local hf gates and VHF is good for fixed stations sending info needed by local mobiles. It would seem to me that fixed stations with internet connections would perform much better getting all of their non-local and most of their local information from the internet.

Maybe it would get people to slow down their beacons which currently bog down APRS.

Chuck

---

279. Re: [APRSSIG:5827] KAM + and GPS support?

From: AZWDC@aol.com
Date: Wed, 10 Jan 1996 19:06:45 -0500
To: aprssig@tapr.org
Message-ID: <960110190636_87471934@mail02.mail.aol.com>
Rendered body type: text/plain

Yep, contact Kantronics and ask if you can get a Version 8.0 chip.
It will do the same as the KPC-3 chip and HF also...only problem is the bug that happens at 00:00 Zulu. Slightly bothersome but you can live with it.

73 DE JIM

---

280. Re: [APRSSIG:5892] Re: PK-88 + APRS

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)
Date: Wed, 10 Jan 1996 19:21:48 EST
To: aprssig@tapr.org
Message-ID: <091.08378066.MBTD87A@prodigy.com>

Rendered body type: text/plain

-- [From: Mike Heskett * EMC.Ver #2.10P] --

The PK-88 will work with APRS. It depends on the date of the EPROM on
whether or not it will require manual intervention.

I have one with a date of 16 May 89 that the VHF command will cause
TONE to be set to 2. It needs to be 3 to work right.

I know of another PK-88 with a date of 23 Aug 91 that does not reset
TONE to 2 when the VHF command is issued by APRS.

```
-------- REPLY, Original message follows --------

> Date: Wednesday, 10-Jan-96 05:13 PM
>
> From: Paul Knupke (cs)         \ Internet:
> (knupke@babbage.csee.usf.edu)
> To:   Mike Heskett             \ PRODIGY:     (MBTD87A)
>
> Subject: [APRSSIG:5892] Re: PK-88 + APRS
>
> On Wed, 10 Jan 1996, Jess Girard wrote:
>
> > I wasn't aware that the PK-88 wouldn't work with APRS.
>
>   (snip)
>

-------- REPLY, End of original message --------
```

281. Re: [APRSSIG:5874] Re: Internet APRS Gateways

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 10 Jan 1996 16:39:47 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"barrettd@crpl.cedar-rapids.lib.ia.us" <barrettd@crpl.cedar-rapids.lib.ia.us> (Return requested)
Message-ID: <0734730F45C53003*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Just make sure that the callsign lookup doesn't reject my position
packet simply because I'm mobile on the Serengeti or in the wilds of
the Arizona Strip!!!

```
______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5874] Re: Internet APRS Gateways
Author:  barrettd@crpl.cedar-rapids.lib.ia.us at Internet
Date:    1/9/96 9:23 PM


The idea for a store and forward by request internet app is interesting and
the mechanism for covering the rules for the control operator is an
interesting problem.
I was wondering if the very APRS format could be the controlling security.
Only acceptable aprs location packet's would be acceptable, and no btext
would be allowed thereby eliminating the chance for offensive btext from
unliscenced users. Also one could utilize a look up of callsign using QRZ to
verify the location text before accepting it for internet availability

>     This is not an unreasonable restriction.  It is straightforward to
>     employ reasonable security (not fancy encryption or much else) in
>     order to comply with the rules.
>
>     Look at the wording used for telecommand of an amateur station,
>     Section 97.213:
>
>
>       (c) The station is protected against making, willfully or
>     negligently, unauthorized transmissions.
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


         _
       _( )_
     _(     )_
```

```
 (_________)
   \  \  \
     \  \
```

---

282. Re: [APRSSIG:5896] Re: Internet APRS Gateways

From: ke4eer@ro.com (William Nolle)
Date: Wed, 10 Jan 1996 18:43:10
To: aprssig@tapr.org
Message-ID: <199601110050.SAA18393@sh1.ro.com>
Rendered body type: text/plain

```
My concern with all this would be that with all these position reports from
internet to be used by a VHF station that had a Gte in his path, you talk
about tying up HF!!,

Bill KE4EER
------------------

>>
>> What would this do for me?
>
>Depends on your situation.
>
>If you have an internet connection:
> You could watch things in other parts of the world.
> You could fill up your local APRS map with all the fixed local stations and
> last reported positions of local mobiles (or histories) much faster after
> staring to run APRS.
> You could probably find out about things that happened in the receint past
> instead of just while you were listening.
>If you do not have an internet connection:
> You might be able to request another station with a connection to get the
> above information for you and transmit it over VHF (probably bogging down
> APRS)
>
>> I hope not bog down APRS.
>
>I would not want to see e-mail derived information regularly retransmitted on
>1200 baud VHF (or even worse HF).  This would really bog things down.
>Especially when you can get tons of e-mail position info from all over the
>world.  The way I see it, VHF is best suited for mobiles sending their position
>reports to local APRS systems, to local WIDEs, to local internet e-mail (one-way)
>gateways, or rarely to local hf gates and VHF is good for fixed stations sending
>info needed by local mobiles.  It would seem to me that fixed stations with
>internet connections would perform much better getting all of their non-local
>and most of their local information from the internet.
>
>Maybe it would get people to slow down their beacons which currently bog down
>APRS.
>
>Chuck
>
```

---

283. New WIDE-RELAY in southeast PA

From: mark@y100.com
Date: Wed, 10 Jan 1996 16:42:46 -0800
To: aprssig@tapr.org
Message-ID: <199601110042.AA18809@relay.interserv.com>
Rendered body type: text/plain

```
I finally had a chance on Saturday (1/6/96) to install a new 145.79 MHz
"WIDE-RELAY" digipeater at Eagle's Peak, near Newmanstown, PA (Lebanon County),
about 12 miles west of Reading, PA.  This site is approximately 1380' AMSL and
840' AAT, and should provide good coverage to Lancaster, Reading, Lebanon, the
eastern side of Harrisburg, and the western side of Allentown.  This is also the
site of the N3KZ (University of PA) 442.4 MHz repeater.

Couldn't climb the tower due to ice, so the antenna is temporarily mounted on a
fencepost until weather conditions improve.  The callsign is N2CHV-3, and
UNPROTO path has been initially set to WIDE,WIDE.  WB4APR reports no problem
copying it at his home QTH south of Baltimore.  Expect a noticable improvement
in coverage after I mount the antenna up on the tower above the trees.  With the
weather we've been having around here, this may take a while!

73, Mark N2CHV
```

---

284. Re: [APRSSIG:5881] Re: Internet APRS Gateways

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 10 Jan 1996 16:49:42 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"gerry@cs.tamu.edu" <gerry@cs.tamu.edu> (Return requested)
Message-ID: <0037F30F45EA6001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

I recognize that the FCC in the past has dinged some scofflaws %^) for
doing nasty things. But these were probably not isolated events.
Almost certainly there had to be fairly egregious violations of the
rules, which would tend to bring the ire of some within the Amateur
community and certainly the FCC. Paranoia is rarely a reasonable
emotion by which to be guided (except of course when you really know
that they're all out to get you and that they're reading your e-mail
and %&#(%&#()&%)@#%)@)*)*%*)#*)#))))**...

However, it seems that as David Barrett said,

"I was wondering if the very APRS format could be the controlling
security. Only acceptable aprs location packet's would be
acceptable, and no btext would be allowed thereby eliminating the
chance for offensive btext from unliscenced users...."

This may very well be a simple way to attain salvation for the APRS
format. The first part is an especially valuable observation.

73 - Jon NW6H

p.s. I will be looking forward to maybe hearing some traffic on 3585
tonight...

Jon T Adams sez:
>
>
> Chuck appears to have a far better understanding than most of us of
> the security (and lack thereof) issues that surround the Internet.
> His points are well considered.
>
> However, I'd like everyone to consider this: this is Amateur Radio.
> Not banking, not NSA secret data, not private personal communications.
> By its very nature, Amateur Radio carries no information of "value".
> There are no secrets. It is a giant party line, where anyone in the
> world may tune in and monitor. (Sounds like the Internet, huh?)

> Remainder deleted for brevity

While Jon does abstract the rules and examine them with some detail, I'm
afraid he mised a point the FCC *did* make a couple of years ago in citing
several operators for e-mail going through internet gateways from non-amateur
sources. That was what fostered the degree of paranoia concerning this issue.

...
73, Gerry
gerry@n5jxs.tamu.edu

---

285. Cinci. OH APRS

From: rwf <rwf@mindspring.com>
Date: Wed, 10 Jan 1996 20:42:10 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960110204902.3cb7ad16@mindspring.com>
Rendered body type: text/plain

What kind of activity is going on in Cinci Ohio?
We have a fellow here in Atlanta who is here on assignment. He's an HFer and
also does a little packet. He's from Cinci and goes home every other weekend.

What can I tell him is active there and on the way up (North of TN)?

Trying to get him interested in APRS.

Ralph

---

286. Re: [APRSSIG:5896] Re: Internet APRS Gateways

From: rwf <rwf@mindspring.com>
Date: Wed, 10 Jan 1996 20:42:06 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960110204859.3ccf83e8@mindspring.com>
Rendered body type: text/plain

At 05:20 PM 1/10/96 -0600, Chuck wrote:

>Maybe it would get people to slow down their beacons which currently bog down
>APRS.
>

Please elaborate what you mean. WX beacon reporting rate? Over VHF, HF?

Position reports from fixed stations (rate controlled by APRS program)

or Mobile GPS reports?

We have (I'll bet) the busiest APRS net I know of here and it is not bogged down. Well... unless someone has set a wrong UNproto WIDE,WIDE,WIDE or WIDE,RELAY   or like the Florida station:
GATE,WIDE,RELAY

IRalph

---

287. Garmin

From: ke4eer@ro.com (William Nolle)
Date: Wed, 10 Jan 1996 23:57:57
To: aprssig@tapr.org
Message-ID: <199601110606.AAA32601@sh1.ro.com>
Rendered body type: text/plain

Just came accross an interesting site on the net. Those of you with Garmin GPS units may like it. It offers FREE connectors for the Garmin units those that i have heard you Garming owners talking about that cost $30.00 from Garmin. This person made his own mold and is offering them just for postage. Well guys you have to at least pay the postage. Better hurry before this guy changes his mind on this, here is the address:

http://home.cdsnet.net/~purple/

Bill KE4EER
ke4eer@ro.com

---

288. Re: [APRSSIG:5897] Re: KAM + and GPS support?

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 10 Jan 1996 23:39:38 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"AZWDC@aol.com" <AZWDC@aol.com> (Return requested)
Message-ID: <017E830F4BEBA001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Un buggo? Que es el buggo?

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5897] Re: KAM + and GPS support?
Author: AZWDC@aol.com at Internet
Date: 1/10/96 5:56 PM

Yep, contact Kantronics and ask if you can get a Version 8.0 chip.
It will do the same as the KPC-3 chip and HF also...only problem is the bug that happens at 00:00 Zulu. Slightly bothersome but you can live with it.

73 DE JIM

---

289. Re: [APRSSIG:5895] Re: Internet APRS Gateways

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 11 Jan 1996 08:15:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601111415.IAA20769@solar.cs.tamu.edu>
Rendered body type: text/plain

Chuck Grant sez:
>
> > Chuck, rather than a timed or bin-full derived e-mail list, why not make it a
> > POP-server-like system, where there's no issue of a non-Amateur causing a
> > report to be generated?
>
> I don't understand. How would making it POP-like remove the non-ham report
> generating issue in a way any different than e-mail? Because you would have
> to log in over a phone line using your password? That would be pretty
> restrictive.

I suspect you are missing a couple of of points. POP does *not* assume a dialup line. It does require an action by the AMATEUR to initiate the data transfer. That meets the letter of the Rule, and made the FCC happy in the past.

Lessons learned from a long time in packet...

> The great advantage of sending out e-mail is that you can send out a lot of
> messages to a lot of different places very quickly, without having to have the
> receiving hosts connected, on-line, and waiting for the reports. You can also
> receive reports from lots of places without having to be specificaly connected.
> There is also an elaborate and somewhat reliable store-and-forward system in
> place for e-mail. And e-mail is supported on just about any platform. Only a
> limited number of connections are possible in a POP server system and access is
> economically restricted to local geographic regions. E-mail is also completely
> free in most places.

It's still E-mail. It merely resides on an APRS POP-server. For what it's worth, there are several low-cost to shareware/free Visual Basic shims to add TCP/IP utility to VB. And if we end up recasting the package into a *nix version, IP is pretty straightforward hack from there.

> If I implement something, it will be an internet e-mail thing between internet
> hosts. Hams and non-hams could use it. I would not be able to tell the
> difference. It would be for position reporting and would not support text
> messages between users. There would probably be a UNIX/X11 map display program
> similar to APRS that could run on UNIX hosts (on the internet) or a JAVA
> display system or something or several things... Perhaps a WWW page where the
> general public could look at the current map(s). But you would not need that to
> participate. E-mail would be sufficient as a bare minimum. I would hope that
> things could be structured compatibly so that you could display this
> information (and send out e-mail position reports) with the APRS program while
> it was also running your TNC and radio. I would not expect APRS to gateway the
> e-mail info onto radio (at least not by default!).

I *really* like the JAVA applette idea. Sure wish I'd thought of that!

I suspect X11 will be a bit of a job. My priority list just got juggled, so I doubt I'll get to try that anytime soon.

> Various policies could be used to determine when and what is sent out on the
> internet to interested internet receivers, different policies could be used for
> different receivers, but verifying that a sender (or receiver) is a licenced
> ham would not be one of the policies, since this can not be done reliably.

Using POP, or something like it, accomplishes this. If the POP request is embedded inside the user program, and is transparent (no more than telling the program which APRSPOP to use, maybe with a default already coded in that'd work?) then it should not be an issue.

> If someone wants to take information that they received via e-mail, possibly
> reformat it, and transmit it on VHF as APRS position/object reports, then that
> would be their responsibility. I beleive this can be done as long as it is
> done manually, or at least not too automatically, similar to the weather alert
> reporting discussed on this list recently.

There are a number of hosts already connected that are connected via RF. Therein lies the issue. And, it's a nit, but a nit that has bitten a number of folks.

> It would probably be ok for an APRS station with e-mail to transmit the e-mail
> position reports (assuming that it verifies that the content is indeed position
> reports intended for public distribution) to another APRS station IF THE OTHER
> STATION REQUESTED IT and that the original e-mail senders gave their
> permission. This would be similar to repeaters and digipeaters. The control
> operator of the repeater doesn't really know that the users are licenced, but
> they access the facility via ham radio so it is a somewhat safe
> assumption. Someone else has to act illegally (by unlicenced transmission in
> the ham band) to make the repeater operate illegally.

Unfortunately, the current rules make it the responsibility of the sysop of the FIRST station that brings data into the packet system to make sure it's OK. It's *NOT* simply a case (as we'd much prefer to see) that the originator of the offending material be held culpable. And, if a non-ham initiates something that "erroneously" gets out to packet and wreaks havoc, he can claim ignorance.

> Of course there would be no guarantee that any of the information would be
> correct, timely, or useful.

Of course! It's a hobby! :-)

Cheers, Gerry

---

290. Re: [APRSSIG:5632] Re: APRS for Windows

From: HooLooVoo1@aol.com
Date: Thu, 11 Jan 1996 13:14:31 -0500
To: aprssig@tapr.org
Cc: sproul@ap.org
Message-ID: <960111131430_87912543@emout04.mail.aol.com>
Rendered body type: text/plain

Thanx Mark,

You're right. I got a lot of mail from "know-it-alls" and the "holier-than-thou" types telling me to read my back issues of QST and "where have you been for the past year."

Thanx.

Out of the dozen replies I received only two, including yours, were helpful. The rest were judgmental and accusatory.   I really appreciate your reply. It's nice to know there are some people out there who are willing to help someone who just subscribed to a SIG.

Thanx again,
hooloovoo1@aol.com
N3NGB@WB3FFV.MD.USA.NOAM

p.s. I really liked being told to read my QST's, especially since the only place I can get one without a subscription is 1 1/2 hours away.

---

291. APRtrak - SPRE part-II

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jan 1996 13:40:43 -0500 (EST)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960111130231.14657A-100000@greatlakes>
Rendered body type: text/plain

Once you have APRtrak unzipped, loaded, and working with your TNC, and have READ all the files in the README directory, you will be able to rapidly move between the APRtrak screens to see the packets being parsed using several single Key commands:

SPACE BAR displays the map. Use PgUP/DN, HOME and arrows to ZOOM

L - LATEST. Will only display the LAST packet seen per station.

P - POSITS. Holds the posits of any stations reporting same.

A - ALL BEACONS. This is the chronological page of all NEW packets.
    It does NOT update in real time, so you have to keep pressing
    "A" each time you want to see the latest.

V - This is a conventional scrolling text display of raw packets

D - DIGIPEATERs. This display shows the packet headers being used.

alt-T - This page displays the telemetry.

Z - HORIZON. This is an interesting display showing what the SKY
    looks like from your backyard or wherever the MAP cursor is.
    To see the default horizon (Annapolis), center the map on your
    station and press Z. You can customize this HORIZON following
    the steps in SYSTEM\HORIZON.DAT.

alt-F FAST. This will make the satellites move FAST. It is
    interesting to watch on the HORIZON display.

NOTE!!!! I just discovered that APRtrak defaults to Mcom OFF. This will prevent you from capturing the REFLEX and other non APRS packets! Without Mcom ON, you also will not see the full packets on the ALL PAGE. To toggle MCOM ON, use the APRtrak CONTROLS-MCOM command.

APRtrak will then try to set MCOM on in your TNC. AEA TNC's use a different command which you will have to set yourself using the OPS-COMM mode to talk to your TNC directly.

```
Not only does MCOM in APRtrak turn on MCOM in your TNC, but within APRtrak
it also ENABLES the saving of ALL packets including the HEADERS on the ALL
page and subsequently that is what is saved in the LOG files.  So even if
you can't get MCOM ON in your TNC, be sure it is ON in APRtrak.  When it
is ON you will see it in the CONTROLS display (Hit the TAB key to show it).

Hope to see you on the map!
```

---

292. 80m gate activity last night

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 11 Jan 1996 11:40:03 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <054FB30F56793008*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Monitored 3584.9+/- all evening, heard many packets (about 1 every minute or
so), some fairly loud, but none that were decodable.    Radio is still on,
running continuous on above freq.  My location is 3411.5N by 11806.5 W, so I'm a
lonnnnnng way from the southcentral/southeast/midcentral transmitters and
probably too much multipath...


73 - Jon NW6H
```

---

293. Re: [APRSSIG:5815] Re: KPC-3 State Machine DCD ??

From: quarry@q.continuum.net (Chip)
Date: Thu, 11 Jan 1996 18:56:53 -0500
To: aprssig@tapr.org
Message-ID: <v01530500ad1b0c159eec@[199.0.52.86]>
Rendered body type: text/plain

```
At 7:40 1/8/96, Mike Walker wrote:

> There is 3 squelch settings for the DCD.  You can use the normal mode (radio
> squelch), you can wire an external squelch line, or you can have the software
> detect a valid carrier, so you can run with open squelch.  Most Kenwood
>mobiles
> have audio on the mic connector, and it is not squelched, so you need to set
> the KPC3 to the "software" mode.  This seems to be the perferred method.

Many of the latest Yaesu's also have this feature (audio in mic connector
if wired).  The software carrier detect is much more sensitive and will be
more likely to get weak signals ... this is very nice if you have the
ability ... The only bad time is if you are using an HT in which case you
have a bigger drain my having the squelch always open ...

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net  (alternate: emmet2@aol.com)
    -   FidoNet to: Chip@1:320/301.0 or .1
my home page:     http://q.continuum.net/~quarry/
TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

294. Re: [APRSSIG:5910] 80m gate activity last night

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 11 Jan 1996 18:58:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960111185627.9337H-100000@paccomm>
Rendered body type: text/plain

```
On Thu, 11 Jan 1996, Jon T Adams wrote:

>
> Monitored 3584.9+/- all evening, heard many packets (about 1 every minute or
> so), some fairly loud, but none that were decodable.    Radio is still on,
> running continuous on above freq.  My location is 3411.5N by 11806.5 W, so I'm a
> lonnnnnng way from the southcentral/southeast/midcentral transmitters and
> probably too much multipath...
>
>
> 73 - Jon NW6H

You guys should be using Pactor, not packet. The multipath is killing you.

Most APRS is done in the daytime on frequencies (10 MHz) which are open
then. Nighttime is multipath time.
```

When the German developers of Pactor were looking for the toughest situation to overcome, they chose 80 meters in winter....

Gwyn

---

295. APRtrak and SPRE part III

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jan 1996 19:08:37 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960111185106.21729A-100000@greatlakes>
Rendered body type: text/plain

At the bottom of this file are the latest KEPS for STS-72 and MIR. In APRtrak, use the FILES-KEPS command to update your KEPS from this file.

NOTES:
1) Use a DOS editor to change one of the existing satellite object numbers in APR.ORB to the object number for STS-72. That is 23762
2) Now use the FILES-KEPS (NASA format) to update from this file.
3) Do NOT use the AMSAT format for updating, because it appears to wipe out all the satellites and only bring in the new one...
4) If you accidentally wipe out all your satellites, you can copy the APR.BAK file to APR.ORB and you will be back in business...

Be sure your DATE, TIME and TIME ZONE are correct.

Once SPRE is deployed, do NOT update your KEPS if you want to keep tracking SPRE. If you want to update the shuttle KEPS, then use an editor to change the name from STS-72 to SPRE and give it a fake OBJ number. Then change another satellite to 23762 and do an update. But remember that the shuttle does have to come back to the SPRE position to pick it up.

```
KEPS
STS-72
1 23762U 96001A   96011.54980208  .00018263  14056-8  12334-4 0    25
2 23762  28.4456  92.8486 0209086  53.8763 124.4554 15.83397765    37
Mir
1 16609U 86017A   96011.21448032  .00001907  00000-0  31939-4 0  3827
2 16609  51.6436 195.5557 0005535 197.3708 162.7101 15.57665536565383

Satellite: STS-72
Catalog number: 23762
Epoch time:      96011.54980208
Element set:       2
Inclination:       28.4456 deg
RA of node:        92.8486 deg
Eccentricity:    0.0209086
Arg of perigee:    53.8763 deg
Mean anomaly:     124.4554 deg
Mean motion:   15.83397765 rev/day
Decay rate:    1.82628e-04 rev/day^2
Epoch rev:               3
Check sum:             324
```

---

296. RE: [APRSSIG:5903] Cinci. OH APRS

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Thu, 11 Jan 1996 19:16:37 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE059.5B086D20@port-2-6.access.one.net>
Rendered body type: text/plain

Ralph:

As you know I'm relatively new to this, so I asked around before I answered you. There is a lot of activity on 2 mtrs. (145.79) There are many stations in Lexington, Cincinnati, and farther north of Cincinnati. There are a few in Dayton as well. My station is on 24 hours a day (attached to Ultimeter 2000). Another good contact in Cincinnati would be KB8IFX. He's very knowledgeable and has helped me a great deal. He also runs a portable or mobile occasionally.

As to HF, there is little or no activity around here. I am a Tech+ interested in DX so I want to use the software on the DX Cluster (as well as for weather) when 10 meters opens up again.......I've got 180 countries now and need all the help I can get!

Hope that helps.....let me know if you need additional info.

Regards,

Bob   N8NGA

From: rwf[SMTP:rwf@mindspring.com]
Sent: Wednesday, January 10, 1996 2:54 PM
To: aprssig@tapr.org
Subject: [APRSSIG:5903] Cinci. OH APRS

What kind of activity is going on in Cinci Ohio?
We have a fellow here in Atlanta who is here on assignment. He's an HFer and
also does a little packet. He's from Cinci and goes home every other weekend.

What can I tell him is active there and on the way up (North of TN)?

Trying to get him interested in APRS.

Ralph

297. Re: STS-72 Element Set (96011.644)

From: William Richarz <wricharz@ix.netcom.com>
Date: Thu, 11 Jan 1996 22:07:00 -0500
To: aprssig@tapr.org
Message-ID: <199601120306.TAA23297@ix4.ix.netcom.com>
Rendered body type: text/plain

Just relaying the STS-72 keps here for anyone interested in the SPRE Experiment,
hope to see a lot of calls from here in Charlotte, NC.

73 de Bill WA4VAF

```
>X-From: <URL:ftp://garc.gsfc.nasa.gov/pub/sts.tle>
>
>STS-72
>1 23762U 96001A   96011.64498675  .00002095 -66329-5  00000 0 0    35
>2 23762  28.4468  92.1521 0204462  54.9580 307.0031 15.82307865    57
>
>Satellite: STS-72
>Catalog number: 23762
>Epoch time:      96011.64498675         (10 JAN 96   15:28:46.86 UTC)
>Element set:     GSFC-003
>Inclination:       28.4468 deg
>RA of node:        92.1521 deg          Space Shuttle Flight STS-72
>Eccentricity:    0.0204462                  Keplerian Elements
>Arg of perigee:    54.9580 deg
>Mean anomaly:     307.0031 deg
>Mean motion:   15.82307865 rev/day      Semi-major Axis: 6702.0481 Km
>Decay rate:       0.21E-04 rev/day*2    Apogee  Alt:        460.69 Km
>Epoch rev:               5              Perigee Alt:        186.63 Km
>
>SFU
>1 23521U 95011A   96009.65580831  .00002725  00000-0  81803-4 0  1452
>2 23521  28.4500 105.2042 0006400 143.1934 216.9103 15.30637407 45583
>
>
>INFO: For information about the Shuttle Elements Mailing List, Tracking,
>Observing, Keplerian Elements, Tracking Software and more see the web
>pages at <http://www.cts.com/browse/garym/elements>
>
>Gary Morris/KK6YB        Email: garym@cts.com
>San Diego, CA, USA       WWW:   <http://www.cts.com/browse/garym/elements>
>
>
=========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
=========================================================================
```

298. Re: [APRSSIG:5901] New WIDE-RELAY in southeast PA

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 11 Jan 1996 22:11:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960111220907.14849A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 10 Jan 1996 mark@y100.com wrote:

> I finally had a chance on Saturday (1/6/96) to install a new 145.79 MHz

```
> "WIDE-RELAY" digipeater at Eagle's Peak, near Newmanstown, PA
(snip)
> UNPROTO path has been initially set to WIDE,WIDE.

I don't understand.....why does a digipeater need an Unproto path?

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

299. Re: [APRSSIG:5884] Re: PK-88 + APRS

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 11 Jan 96 22:29:19 EST
To: aprssig@tapr.org
Message-ID: <199601120330.WAA08975@gold.interlog.com>
Rendered body type: text/plain

```
On Wed, 10 Jan 1996 09:55:52 -0600 (CST) you wrote:

>Hi Randy:
>
>I wasn't aware that the PK-88 wouldn't work with APRS. I thought (!) that
>I had made it work some months back, but now I'm not sure.
>
>Thanks for letting me know.
>
>
>73
>Jess Girard  ND1L
>
>APRS 4107.59N 07320.00W PHG 7160  - on 145.79 MHz
>
Strange,

I have used the PK-88 over the summer on both VHF and HF as I travelled all
over the country using HSP mode and hadn't noticed a problem, other than making
sure the TNC was in the correct tone setting (1 if I remember correctly), and
the right baud rate.  I only had to set the above if had reset the unit.

If there is still a problem, I can test it here under os/2 and trap the com
port communications that are going on.  It will tell me exactly what commands
are being sent.  Which tnc are you describing when you first start APRS??

cheers...mike

Mike Walker                                 mwalker@interlog.com
127 High St. W.                                 rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

300. Re: [APRSSIG:5916] Re: New WIDE-RELAY in southeast PA

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jan 1996 22:53:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960111225219.22088B-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 11 Jan 1996, Richard Amirault wrote:

> > UNPROTO path has been initially set to WIDE,WIDE.
>
> I don't understand.....why does a digipeater need an Unproto path?

WB4APR REPLY COMMENT:

So that everyone within 2 WIDES away will know it is there....
```

---

301. SPRE and APRS in SPACE!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jan 1996 23:01:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960111225310.22088C-100000@greatlakes>
Rendered body type: text/plain

```
Our last opportunity to digipeat APRS via the Shuttle was a disaster.
Only about a dozen stations even tried, I guess assuming that everyone
else would.  Only ONE posit got through.  THIS SPRE experiment is APRS
from the ground up.  We better make it work this time, hi hi
```

Please be sure that SOMEONE in your area is sending out a BULLETIN on
your LOCAL APRS frequency alerting all operators of the SPRE APRS
experiment which begins at 0-dark-30 SUNDAY morning. It will be on for
46 hours, BUT EACH ONE OF US WILL ONLY GET FROM 2 to 6 passes TOTAL.
depending on your latitude. For the US, most of these passes will be
during the dark morning hours of SUNDAY and MONDAY. I will post
some better figures when I run the KEPS through my InstanTrack.

Remember, someone please put out LOCAL beacons on your APRS net alerting
everyone to this BRIEF golden opportunity. And dont forget to switch to
145.55 SATURDAY night before you go to bed. SET UNPROTO to W3EAX and set
SPACE mode ON..

---

302. Re: [APRSSIG:5912] Re: 80m gate activity last night

From: n2czf@gate.net
Date: Thu, 11 Jan 1996 23:04:59 -0500
To: aprssig@tapr.org
Message-ID: <199601120404.XAA37908@osceola.gate.net>
Rendered body type: text/plain

Pactor would be interesting but in a APRS situation I do not know how that could
be incorporated. I do know that Bob started to write a AMTOR mode a long time
back but I do not think that ever took off, don't think PACTOR was ever even
started.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

303. STS-72 element set #904

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 11 Jan 1996 22:06:39 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601120406.WAA01960@solar.cs.tamu.edu>
Rendered body type: text/plain

For the APRTRAK/SpRE enthusiasts...

>From gcarman@GP804.jsc.nasa.gov Thu Jan 11 16:40:18 1996
Date: Thu, 11 Jan 1996 16:40:56 -0600
Subject: STS-72 element set #904

Endeavour Post NC-1

```
STS-72
1 23762U 96001A   96011.70806167  .00019322  00000-0  20677-3 0  9046
2 23762  28.4453  91.6864 0205105  55.7458 306.2564 15.82245296    65

Satellite: STS-72
Catalog number: 23762
Epoch time:      96011.70806167   =     yrday.fracday
Element set:     904
Inclination:       28.4453 deg
RA of node:        91.6864 deg
Eccentricity:     .0205105
Arg of perigee:    55.7458 deg
Mean anomaly:     306.2564 deg
Mean motion:   15.82245296 rev/day
Decay rate:    1.93220E-04 rev/day^2
Epoch rev:              6
Checksum:             302
```

---

304. Re: [APRSSIG:5914] RE: Cinci. OH APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 11 Jan 1996 22:15:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960111221250.2067B-100000@solar>
Rendered body type: text/plain

Just a request to those of you attempting to use Windows95 and the mail
program associated with it... Please, please, PLEASE use another mailer,
or figure out how to configure it to send standard documents (what you
type to us) in ASCII format.

I do *not* routinely use a metamail-aware mailer, becuase most of what I
receive can be dealt with faster and more efficiently with Elm.

Micro$oft has decided that everyone on the internet is, or should be, using Windoze95 and their MSMail program. As there are a bunch of us using other operating systems, and better mail systems, they are kidding themselves.

Thanks for the bandwidth,
Gerry

---

305. oops SPRE SUNDAY NIGHT!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jan 1996 23:59:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960111234632.22242A-100000@greatlakes>
Rendered body type: text/plain

I lead you slightly astray. Yes the SPRE will be deployed about 0650 EST Sunday morning, but this will be AFTER the morning passes over the US. We won't get our first pass here in Maryland until 0102 Monday morning the 15th. So here is the present outlook for Maryland

```
MONDAY  15th 0102 Eastern Standard TIme.
             0236
             0413
             2341
Tuesday 16th 0116
             0252
```

The further south you live will add additional passes about 90 minutes before and after the ones posted above... So SUNDAY night, everyone set to 145.55 with the UNPROTO path of W3EAX before going to bed, and set SPACE MODE. APRS will work un-attended to make your contacts.... we hope..

---

306. Re: [APRSSIG:5919] SPRE and APRS in SPACE!

From: William Richarz <wricharz@ix.netcom.com>
Date: Fri, 12 Jan 1996 00:07:58 -0500
To: aprssig@tapr.org
Message-ID: <199601120507.VAA28738@ix11.ix.netcom.com>
Rendered body type: text/plain

At 10:14 PM 1/11/96 -0600, you wrote:

>
>Remember, someone please put out LOCAL beacons on your APRS net alerting
>everyone to this BRIEF golden opportunity. And dont forget to switch to
>145.55 SATURDAY night before you go to bed. SET UNPROTO to W3EAX and set
>SPACE mode ON..

Bob, just to be sure I've got it right, do we load the SPRE.BK? I notice when I do, the W3EAX call & satellite appear on my screen, not sure I completly understand that part...probably a dumb question...just how far apart will the SPRE be from the Shuttle?

Thanks,
de Bill WA4VAF

```
========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
========================================================================
```

---

307. Space Mode

From: ke4htm@hci.net (Jamie R. Dean)
Date: Fri, 12 Jan 1996 01:49:27 -0500
To: aprssig@tapr.org
Message-ID: <199601120649.BAA16775@hc1.hci.net>
Rendered body type: text/plain

Dear APRSers,
   I was wondering what does the space mode do and in version 7.4e where do you even find it? Any info. would be apperaicated.

```
                                Jamie R. Dean (KE4HTM)
          ***********************************************
          *         Carolina Innovations BBS            *
          *            (704)432-02789                   *
          * SysOp: Jamie R. Dean  CoSysOp: Ruth E. Dean  *
          * ------------------------------------------  *
          *WWW...........>http://www.hci.net/~ke4htm    *
          *Jamie R. Dean..> ke4htm@hci.net              *
          *Ruth E. Dean...> ke4htm@wp.cc.nc.us          *
          *AX.25 E-Mail...> ke4htm@kd4om.#hky1.nc.us.noam*
```

****

308. Re: [APRSSIG:5920] Re: 80m gate activity last night

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Fri, 12 Jan 1996 06:18:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960112061207.11026A-100000@paccomm>
Rendered body type: text/plain

On Thu, 11 Jan 1996 n2czf@gate.net wrote:

> Pactor would be interesting but in a APRS situation I do not know how that could
> be incorporated. I do know that Bob started to write a AMTOR mode a long time
> back but I do not think that ever took off, don't think PACTOR was ever even
> started.

You are right as a practical matter. I was just commenting on the
probable futility of successful 300 baud packet on 80 meters on a winter
evening. I never recommend HF packet to anyone.

APRS is probably the best application that exists for HF packet - UI frames
instead of connections, and an application which degrades gracefully if
data input is intermittent.

We are working on a pactor 'tracker' for fishing boats - your GPS
receiver with periodic lat/long strings sent out via pactor FEC. Not
applicable to what you are doing, of course.

Gwyn

309. STS72

From: ke4eer@ro.com (William Nolle)
Date: Fri, 12 Jan 1996 06:57:30
To: aprssig@tapr.org
Message-ID: <199601121305.HAA27318@sh1.ro.com>
Rendered body type: text/plain

Can i use APRS in SPACE Mode instead of APRSTRACK for doing the
satellite thing?. I'm asking since it looks like you need a registered version
to participate in this. I already heard some packet activity on that frequency
this morning, i'm sure it must have been someone testing.

Bill KE4EER
ke4eer@ro.com

310. Re: [APRSSIG:5916] Re: New WIDE-RELAY in southeast PA

From: W2HOB@aol.com
Date: Fri, 12 Jan 1996 10:05:29 -0500
To: aprssig@tapr.org
Message-ID: <960112100529_114241398@emout05.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-01-11 22:56:14 EST, you write:

>I don't understand.....why does a digipeater need an Unproto path?
>
>Richard Amirault   N1JDU   Boston, Massachusetts USA
>amirault@tiac.net   "Go Fly A Kite"

W2HOB Reply:

To make itself known to the network. Then the rest uf us
within that range will see it on our maps.

73 de Boyd (w2hob@aol.com)

311. 80m activity last night

From: dwetzel@uswest.com
Date: Fri, 12 Jan 1996 08:16:07 -0600
To: aprssig@tapr.org
Message-ID: <0f6700a0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Well, I didn't copy any packets from the Florida 80 m experiment, but I DID see
K8JUG in Xenia, Ohio on 3585.4 last night.

```
KJ7HZ and I carried on a keyboard conversation on that freq for about an hour -
did anyone copy us? (We were only running about 20 watts each).

Doug
KC7CO
```

---

312. SPRE initialization

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 10:41:42 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960112103608.25212B-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 11 Jan 1996, William Richarz wrote:

> Bob, just to be sure I've got it right, do we load the SPRE.BK?  I notice
> when I do, the W3EAX call & satellite appear on my screen, not sure I
> complety understand that part...probably a dumb question...just how far
> apart will the SPRE be from the Shuttle?

WB4APR REPLY COMMENT:

Yes, you must load SPRE.BK if you want to see the telemetry in true
engineering units.  Notice the difference between the alt-TELEMETRY page
when the file is loaded and not.  Actually the special TELEMETRY
equations are activated as long as W3EAX is the FIRST station on the
LATEST list.  That is all the SPRE.BK file does (I think) is to be sure
that W3EAX is the FIRST station heard.

Oh, that file may also contain the location of the SPRE on the day we
tested it in the clean room at Goddard.
```

---

313. Space mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 10:44:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960112104222.25212C-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 12 Jan 1996, Jamie R. Dean wrote:

> I was wondering what does the space mode do and in version 7.4e where do
> you even find it? Any info. would be appericated.

WB4APR REPLY COMMENT:

See README\SPACE.txt and activate it under alt-SETUP-MODES-SPACE.
It will assure you use the shortest packets and will schedule your
station for automatic operation with the SPRE while you sleep.
```

---

314. (no subject)

From: dwetzel@uswest.com
Date: Fri, 12 Jan 1996 08:54:41 -0600
Rendered body type: text/plain

```
Message-Id: <0f6795a0@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:5913] APRtrak and SPRE part III
To: aprssig@tapr.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Does anyone know the true STS-72 lift-off time?  I need to set my MET clock.

Thanks!

Doug
KC7CO
```

---

315. Re: [APRSSIG:5927] STS72

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 10:57:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960112105456.25212F-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 12 Jan 1996, William Nolle wrote:

> Can i use APRS in SPACE Mode instead of APRSTRACK ?. I'm asking since
> it looks like you need a registered version to participate in this.

WB4APR REPLY COMMENT:

APRtrak will do everything unregistered, but will be limited to one page
of calls and posits.  APRtrak tho WILL decode the telemtry and SPRE posit
APRS will not.

APRS SPACE mode will work just fine for the plotting of digipeated POSITS.
```

---

316. APRtrak ARMED mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 11:19:30 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960112105843.25212G-100000@greatlakes>
Rendered body type: text/plain

```
SPACE mode in either APRtrak or APRS "ARMS" your station to listen
for packets from the SPACE DIGIpeater.  Once it hears a packet from the
space digipeater callsign, THEN APRS will reset its POS/BCN timers back
as if you had just entered a new posit.  Your BCN/POS periods then decay
again as usual.  (Unitl the next such packet heard...)  In SPACE mode
your BCN and POS are the *same*.  They are simply your *brief* BCN with
the grid square in the TO address.

REPEAT:  THe triggering packet *must* come *from* the DIGIPEATER CALLSIGN,
not just be digipeated *via* that callsign in order to wake up your POSIT.

Since SPRE transmits its own telemetry once every 30 Secs, this should
easily trigger your station.  Again, a good way to test it is to set up
APRtrak/APRS with a local station, let your beacons decay out, then have
the other station transmit a packet.  For APRtrak/APRS to recognize this
packet, of course, the packet can have NO MORE THAN ONE digipeater in its
path.  Else the whole packet is ignored as a NON space packet.

If for some reason this is not working, then you can reset your BCN/POS
periods by simply updating your BEACON or your POSIT.  Using the alt-B
command and re-typing your *brief* BCN should do it...

On Fri, 12 Jan 1996,
someone wrote:

> ....  I tested APRtrak......  Everything seems fine
> except that APRtrak isn't *automatically* starting to transmit when the
> space digi comes in range even though it says it is ARMED.  The pos rate
> stays at >9 min even though it shows the satellite in range and I see other
> packets being digied by the satellite.  I can *manually* force a transmission,
> with X-P, and have gotten a "success" message that way.
> I have verified verified my packets look like: MYCALL>DM93CO,DIGI:25W Omni.
```

---

317. SPRE Mobiles!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 12:14:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960112112206.25212H@greatlakes>
Rendered body type: text/plain

```
Well, what the heck, we only get 5 passes, so lets show-off!

HIGH POWER MOBILES in the SOUTHERN states might consider going mobile
during a pass.  Do NOT set SPACE mode in the  mobile station,  just set
UNPROTO to W3EAX and pos rate between 35 top 10 secs.

0)  This is only worth doing if your VEHICLE symbol appears
1)  Vehicles in motion will show the CSE/SPEED leader line
2)  If you are stopped, then APRS may decay your POS rate
3)  Being in motion will be dangerous
4)  A Mobile posit is a LONG packet.
5)  Your driveway is ontop of your house at the 512 mile scale

CONCLUSION:  Seeing MOBILES on the map could be neat, but the drawbacks
are the LONG POSIT packets required and the lack of the automatic
SHUT-OFF on success built into the APRS SPACE mode.  The most effeceint
way to get the MOBILE posit transmitted is a MANUAL posit entry in your
MOBILE TNC BText.  As follows:
    WB4APR>APRS,W3EAX:/150602z3859.11N/07629.11W>340/030

The course and speed on the end are optional, but DO put in one of the
mobile symbol characters.  Set to once every 35 secs if unattended
and 10 secs if you have a means for stopping it once you are digipeated.
(Avoid 30 secs since that is the rate of SPRE itself)

You might consider offsetting the posit slightly from your HOME QTH so
they dont appear on top of each other.  But test the location of your
GIRD SQUARE report first.  Your Home QTH will NOT appear to everyone else
where it is on YOUR map.  To see where it is, have someone force your GRID
SQAURE packet on the air, and see where it falls.  Then force your mobile
to be a pleasant distance away...
```

318. Re: [APRSSIG:5932] Re: APRtrak and SPRE part III

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 12:15:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960112121435.25212J-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 12 Jan 1996 dwetzel@uswest.com wrote:

> Does anyone know the true STS-72 lift-off time?  I need to set my MET clock.

WB4APR REPLY COMMENT:

I think it was about 0448 EST on the 11th?
```

319. Re: [APRSSIG:5932] Re: APRtrak and SPRE part III

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 12 Jan 1996 11:37:49 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601121737.LAA09452@solar.cs.tamu.edu>
Rendered body type: text/plain

```
dwetzel@uswest.com sez:
>
> Does anyone know the true STS-72 lift-off time?  I need to set my MET clock.

Didn't get a precise hack.  I do know, however, that it was 23 minutes late
after a commo delay.  I suspect it was precisely 23 minutes late, placing the
launch at 10:41:00.00001 UTC.  Usually, when they pick up the count, the
Launch Director tries to make it go *ON* the second.

73, gerry
```

320. Re: [APRSSIG:5927] STS72

From: dwetzel@uswest.com
Date: Fri, 12 Jan 1996 10:31:13 -0600
To: aprssig@tapr.org
Message-ID: <0f68fb60@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Never mind - I found it on NASA's web site:

Endeavour
0441 EST
11 Jan 96

:-)

Doug
KC7CO
```

321. SPARTAN deploy elements (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 12 Jan 1996 13:01:40 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601121901.NAA10372@solar.cs.tamu.edu>
Rendered body type: text/plain

```
FYI:  Gil is the resident orbital mechanics expert for SAREX, at JSC:

Carman, Gilbert L. sez:
Date: Fri, 12 Jan 1996 12:46:23 -0600
Subject: SPARTAN deploy elements
```

These are my elements based on the best predicted vector now
(Jan 12) for the SPARTAN deploy on the morning of Jan 14, after
the orbit adjust burns.

```
SPARTAN
1 23763U 96001B   96014.50990802  .00025480  00000-0  75964-4 0  9501
2 23763  28.4507  71.4399 0006407 286.3915  73.6104 15.88242221   504

Satellite: SPARTAN
Catalog number: 23763
Epoch time:      96014.50990802    =    (14-Jan-96   12:14:16.05 UTC)
Element set:     950
Inclination:       28.4507 deg
RA of node:        71.4399 deg
Eccentricity:     .0006407               Keplerian element set JSC-950
Arg of perigee:   286.3915 deg          Predicted SPARTAN deploy vector
Mean anomaly:      73.6104 deg
Mean motion:   15.88242221 rev/day                Gil Carman
Decay rate:     2.5480e-04 rev/day^2       NASA Johnson Space Center
Epoch rev:              50
Checksum:              285
```

Gil Carman

73, Gerry N5JXS

---

322. STS72 time & date

From: Mike Jackson <potomacg@medifax.com>
Date: Fri, 12 Jan 1996 13:33:01 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960112193301.0035ff6c@mail.telalink.net>
Rendered body type: text/plain

Launch time 09:41:00.086 UTC 1/11/1996. Norad designation 23762.
International designation 1996 001A.
FYI...

```
-=**************************************=-
Mike T. Jackson                KD4KSQ
4819 Jeffery Drive    potomacg@medifax.com
Nashville, Tn 37211-4043    kd4ksq@aol.com
(615) 331-2706 Home (615) 832-3490 PC
      1-800-846-9035 (138) Work

Forget Windows 95... Windows NT RULES!
-=**************************************=-
```

---

323. RE: [APRSSIG:3721] APRsat

From: "Sadowski,P O4 USAF JCSAR/EDD" <sadowskp@jcsar.nellis.af.mil>
Date: Fri, 12 Jan 96 11:45:00 cst
To: aprssig <aprssig@tapr.org>
Message-ID: <30F6A004@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Out of curiosity, has there been any more activity on the below topic?
```
 ----------
From: aprssig
To: aprssig
Subject: [APRSSIG:3721] APRsat
Date: Friday, October 06, 1995 4:38PM
```

Today during a visit of a NASA VIP, I was not only offered but almost
commanded to put together a Payload for an upcomming March 96 launch.
The size can be as small as one of my PicoSATS or larger. It can be
a stick-on payload onto an existing package, or maybe a free-flyer...
No details at this point.

Alll I want to do is put up a 1 watt Picosat AX.25 FM 2 meter 1200
baud packet transponder for digipeating SHORT UI frames only.
(Position reports) The conventional FM is for maximum participation by
low budget schools and students... etc...

5 watts if it is a piggyback payload...

If I am going to do this in 6 months, I will need SERIOUS help. Does anyone have any closet space parts that they can spare? I am thinnking of a TNC, radio, and power supply only. Using a PacComm TNC, that gives me two on/off functions and 4 channels of analog telemetry, plus the digipeater, or course,. I want it simple.

---

324. new USA maps

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 12 Jan 1996 15:08:47 +0000
To: aprssig@tapr.org
Message-ID: <199601122010.PAA31010@hemisphere.neocomm.net>
Rendered body type: text/plain

I shure would like to have the new USA maps Bob made while snowed in. If someone has access to the BBS where they are would you please upload them to TAPR!! Or Bob if you would email them to me I will upload them to ftp.tapr.org . If you choose to email I find it is better to paste each individual map into an email message and send it rather than sending an attachment. Since the maps are already text, uuencoding is a waste for a couple of maps.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

325. IPHONE

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 12 Jan 1996 15:16:41 +0000
To: aprssig@tapr.org
Message-ID: <199601122018.PAA31195@hemisphere.neocomm.net>
Rendered body type: text/plain

I load Iphone most everytime I get on the internet. I stay joined to amateur radio only (APRS) and APRS ham radio only. I shure wish someone else would drop in for a QSO !! Also I join   aprs
this is a private channel it will not show up when you list topics. You must hit topics then type in   aprs   then hit the"join private" button.   Only people who know the topic is there can join. This helps keep down unwanted "nuts" only us sig nuts know abt it he he.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

326. 80 Meter HF APRS freq. ???

From: lorie <ldajz@epix.net>
Date: Fri, 12 Jan 1996 16:13:57 +0000
To: aprssig@tapr.org
Message-ID: <30F688C5.1619@epix.net>
Rendered body type: text/plain

Hi and thanks for reading...

Al, N3KAE here in Northeastern PA. I'd like to take a stab at 80 Meter APRS tonight and maybe over the course of this weekend.

Please give me the "proper" settings for ALIAS and UNPROTO.

I will be using my TS440S and a dipole;; running somewhere between 30 and 80 watts.

Any help will be greatly appreciated since the rig is already warming up!

TNX ES CU ON HF APRS... 73 DE AL, N3KAE ldajz@epix.net or via this

SIG.

---

327. NEWUSA.map

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 12 Jan 1996 14:59:12 -0700
To: aprssig@tapr.org
Message-ID: <199601122159.OAA03664@usr5.primenet.com>
Rendered body type: text/plain

Has any one seen Bob's new maps? I haven't seen them come up on TAPR yet,
and like most of you i"d like to update my APRS files.

Thanks & 73,

  Alan
Alan K. Unangst, WC7R
alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

328. Re: [APRSSIG:5941] RE: APRsat

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 17:13:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960112170926.26377B-100000@greatlakes>
Rendered body type: text/plain

On Fri, 12 Jan 1996, Sadowski,P O4 USAF JCSAR/EDD wrote:

> Out of curiosity, has there been any more activity on the below topic
> of the APRsat?

WB4APR REPLY COMMENT:

No, we have the data radios, but the launch opportunity vaporized. We
are now concentrating on the original BASEBALL size Picosat using the
very low power MIM module to transmit its telemetry once every 30 secs
for a year using a few Lithium batteries. No solar panels, since it wont
stay in orbit for a full year anyway if "tossed" from the shuttle.

---

329. Re: [APRSSIG:5929] 80m activity last night

From: n2czf@gate.net
Date: Fri, 12 Jan 1996 17:26:17 -0500
To: aprssig@tapr.org
Message-ID: <199601122226.RAA19062@osceola.gate.net>
Rendered body type: text/plain

Where are you located Doug ??
I THINK I have seen a BEACON from you in the past week but never a POSIT report.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

330. APRtrak foibles

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jan 1996 17:34:38 -0500 (EST)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960112171517.26377C-100000@greatlakes>
Rendered body type: text/plain

Erratta:

1) I just noticed a problem with the SPACE/ARMED mode in both APRS and
APRtrak when used with a dual port TNC. APRS is looking for a
match between the callsign of the Space digipeater and what you have in
your APRS unproto string in order to reset your POSIT/BCN timers from
the default 9 minute period. Since the dual port TNC's display a dual
UNPROTO string (ie: APRS via W3EAX/APRS via W3EAX) the comparison
always fails due to the concatenated "/APRS". This will prevent you from
being successful in unattended mode. When you see the shuttle/SPRE, you
may re-set your BCN/POS timers by re-entering your BCN and POSIT.

2) Since the AMSAT-NA office is closed there will be no further
registrations of APRtrak. You may use APRtrak unregistered for the
upcoming SPRE with the following considerations:

    Since only one page of contacts will be displayed, do a manual

FILE-SAVE when the Posits page fills up, then note the last call
and do an additional FILES-SAVE when that call gets bumped to the
top of the list. Repeat this process throughout the pass.

You can use a DOS editor after it is all over to merge your various

backup files and track history files together.

3) If you have two packet stations and two TNC's please use one as a
dumb station and capture EVERYTHING to disk. We have never seen SPRE
move (while it was in the clean room) so who knows what will happen
during these 5 brief passes when it is moving at 17,500 MPH...

---

331. Re: [APRSSIG:5926] Re: 80m gate activity last night

From: n2czf@gate.net
Date: Fri, 12 Jan 1996 17:36:14 -0500
To: aprssig@tapr.org
Message-ID: <199601122236.RAA04426@osceola.gate.net>
Rendered body type: text/plain

So far 80M has proved to be much more successful than we had thought before we
had started. Right now myself and KD4UYR are the only stations on 24hrs so I am
only becoming familiar with the West Palm Tampa path. Once others are on a
little more we can then assess the paths to other areas of the state.

Given that 40M is worthless during the night and 30M is out of FL Skip range and
the other bands when open would only be successful for DX ranges 80 seems like
our only hope.

Some well placed HIGH POWER 6M digi's may also help a LITTLE but unless we do it
on 80M I think that the statewide net will be difficult. I have some equipment
and am gathering more for 6M digi's but I am far far from anything formal for
that. If others can start THINKING about 6M with a minimum of 100W and a high
location (more than 100 or so feet) some good chunks of the state can be
covered. For now 80M will be the primary test bed and I will play on 6M with
some friends while I learn more about it. The ticket on 80M I think will be the
low height antennas (NVIS Techniques) and some research. 80M will not be easy
and will probably not be 100% but I think we can see a great improvement after
some tests and changes are made with antennas, this will not be a "plug and
play" scenario.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

332. Creaky old MFJ 1274 TNCs

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 12 Jan 1996 16:27:42 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <0263C30F6FC7E001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

---------------------------- Forwarded with Changes ---------------------------
From: MAILER-DAEMON@throm.jpl.nasa.gov at Internet
Date: 1/11/96 8:12PM
To: Jon T Adams at JPL-B161
*cc: Postmaster@jpl.nasa.gov at Internet
Subject: Undeliverable mail

[Attachment: ATTACH01.TXT; text/plain; 245 bytes]

---

333. Re: [APRSSIG:5926] Re: 80m gate activity last night

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 12 Jan 1996 16:27:41 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"gwyn@paccomm.com" <gwyn@paccomm.com> (Return requested)
Message-ID: <025A430F6FC7D00A*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Hey Gywn:

Pardon my ignorance but is PACTOR FEC like NAVTEX? Are they the same
thing? Seems like what you're doing for commercial fishing boats is
the same way things should be done on 80m APRS.

And while I'm on it, HF packet would work a lot better if everyone
shortened their packet lengths down to 40 char or less. Yeah, there's
a significant increase in overhead per bit of data, but the HF fade

won't bite so badly and more packets will get through and hence fewer
retries! I'll bet overall throughput will increase.

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5926] Re: 80m gate activity last night
Author: gwyn@paccomm.com at Internet
Date: 1/12/96 4:28 AM

On Thu, 11 Jan 1996 n2czf@gate.net wrote:

> Pactor would be interesting but in a APRS situation I do not know how that
> could
> be incorporated. I do know that Bob started to write a AMTOR mode a long time
> back but I do not think that ever took off, don't think PACTOR was ever even
> started.

You are right as a practical matter. I was just commenting on the
probable futility of successful 300 baud packet on 80 meters on a winter
evening. I never recommend HF packet to anyone.

APRS is probably the best application that exists for HF packet - UI frames
instead of connections, and an application which degrades gracefully if
data input is intermittent.

We are working on a pactor 'tracker' for fishing boats - your GPS
receiver with periodic lat/long strings sent out via pactor FEC. Not
applicable to what you are doing, of course.

Gwyn

---

334. [APRSSIG:5948] APRtrak foibles

From: Larry Griffin <largriff@onramp.net>
Date: Fri, 12 Jan 1996 20:00:07 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE128.A0DBA2C0@lub26.onramp.net>
Rendered body type: text/plain

That could certainly explain why I could'nt get it to work... I'm using a KAM.
I guess I'll hook up a KPC-3 for the passes.

Thanks for the feedback, Bob! Hope to see ya on the bird!

Thus spake Guru Bob:
>1) I just noticed a problem with the SPACE/ARMED mode in both APRS and
>APRtrak when used with a dual port TNC.

---

335. SPARTAN Sat track

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 13 Jan 1996 00:43:26 -0600
To: aprssig@tapr.org
Message-ID: <v02130502ad1d03cd26b4@[199.1.11.120]>
Rendered body type: text/plain

Using the latest SPAR deploy data here is a Sat track for Dallas Texas.
This will show an example of what information is in a a sat track list.

Note that even the best passes are only 8 Mins. and all are in the morning
unless it keeps going more than 48 Hrs.

The units are km for range and height and note the doppler shift as it is
going 7.7 km/s

All this can change so please just take this as an example and use your own
tracking program and latest data.

```
------------------------------------------------------------

OrbiTrack Track - 01/14/96
Station:    Dallas,TX            Time is CST NOT UTC
    32 50.771N   096 45.743W
```

```
Pass - From: SUN 01/14/96 05:00:00 AM CST
       To:   Tue 01/16/96 11:53:00 PM CST

SPARTAN
          Time CST            Az    El    Range   Frequency  Doppler   Height     Satellite
 DOW   MM/DD/YY HH:MM:SS      Deg   Deg     km       MHz        Hz       km      Visibility


 Sun   01/14/96  5:07:00 AM  260.1   0.9  1915.51  145.55315  3152.6    305.3     In shadow
 Sun   01/14/96  5:08:00 AM  254.2   5.0  1533.71  145.55300  3000.4    305.4     In shadow
 Sun   01/14/96  5:09:00 AM  244.4  10.2  1180.47  145.55266  2664.3    305.5     In shadow
 Sun   01/14/96  5:10:00 AM  226.6  16.6   892.73  145.55188  1876.3    305.5     In shadow
 Sun   01/14/96  5:11:00 AM  195.9  21.3   751.80  145.55026   263.1    305.6     In shadow
 Sun   01/14/96  5:12:00 AM  162.6  18.3   836.16  145.54847 -1530.9    305.7     In shadow
 Sun   01/14/96  5:13:00 AM  141.6  11.8  1094.65  145.54749 -2514.2    305.8     In shadow
 Sun   01/14/96  5:14:00 AM  130.2   6.2  1435.37  145.54707 -2934.7    305.9     In shadow
 Sun   01/14/96  5:15:00 AM  123.5   1.9  1811.50  145.54688 -3121.2    306.0   Illuminated

 --------  Deploy at 06:14:16 CST     1-14-98    or (12:14:16 UTC )

 Sun   01/14/96  6:44:00 AM  242.3   2.6  1743.94  145.55216  2160.6    305.9     In shadow
 Sun   01/14/96  6:45:00 AM  229.4   5.2  1512.65  145.55153  1532.3    306.0   Illuminated
 Sun   01/14/96  6:46:00 AM  212.8   7.0  1376.60  145.55062   623.6    306.1   Illuminated
 Sun   01/14/96  6:47:00 AM  194.3   7.1  1365.13  145.54956  -442.4    306.2   Illuminated
 Sun   01/14/96  6:48:00 AM  177.2   5.6  1481.12  145.54861 -1392.8    306.3   Illuminated
 Sun   01/14/96  6:49:00 AM  163.6   3.0  1698.20  145.54793 -2068.3    306.3   Illuminated
 Sun   01/14/96  6:50:00 AM  153.6   0.2  1982.64  145.54751 -2494.5    306.4   Illuminated

 Mon   01/15/96 12:31:00 AM  212.9   2.0  1791.51  145.55264  2644.6    303.8     In shadow
 Mon   01/15/96 12:32:00 AM  202.3   5.4  1488.49  145.55221  2211.4    303.8     In shadow
 Mon   01/15/96 12:33:00 AM  186.9   8.7  1257.58  145.55146  1455.8    303.9     In shadow
 Mon   01/15/96 12:34:00 AM  166.4  10.6  1144.61  145.55032   315.9    303.9     In shadow
 Mon   01/15/96 12:35:00 AM  144.5  10.0  1184.34  145.54906  -936.9    304.0     In shadow
 Mon   01/15/96 12:36:00 AM  126.4   7.1  1363.39  145.54811 -1889.7    304.1     In shadow
 Mon   01/15/96 12:37:00 AM  113.6   3.7  1636.07  145.54754 -2464.6    304.2     In shadow
 Mon   01/15/96 12:38:00 AM  104.9   0.4  1962.88  145.54721 -2787.3    304.2     In shadow

 Mon   01/15/96  2:06:00 AM  242.4   2.6  1732.44  145.55318  3177.1    304.0     In shadow
 Mon   01/15/96  2:07:00 AM  236.1   7.4  1348.28  145.55301  3009.4    304.1     In shadow
 Mon   01/15/96  2:08:00 AM  224.6  13.8   997.32  145.55260  2600.5    304.2     In shadow
 Mon   01/15/96  2:09:00 AM  201.4  22.0   731.59  145.55153  1528.7    304.2     In shadow
 Mon   01/15/96  2:10:00 AM  162.0  25.1   664.50  145.54946  -544.2    304.3     In shadow
 Mon   01/15/96  2:11:00 AM  129.6  18.0   845.01  145.54782 -2177.5    304.5     In shadow
 Mon   01/15/96  2:12:00 AM  113.3  10.5  1162.53  145.54715 -2847.6    304.6     In shadow
 Mon   01/15/96  2:13:00 AM  104.9   5.0  1533.33  145.54689 -3108.6    304.7     In shadow
 Mon   01/15/96  2:14:00 AM   99.9   0.8  1925.77  145.54678 -3220.5    304.8     In shadow

 Mon   01/15/96  3:41:00 AM  259.1   0.4  1968.53  145.55326  3260.0    304.4     In shadow
 Mon   01/15/96  3:42:00 AM  254.9   4.5  1569.69  145.55318  3175.8    304.5     In shadow
 Mon   01/15/96  3:43:00 AM  247.8  10.0  1187.40  145.55297  2974.0    304.6     In shadow
 Mon   01/15/96  3:44:00 AM  233.7  17.9   847.13  145.55243  2434.6    304.7     In shadow
 Mon   01/15/96  3:45:00 AM  202.7  27.3   624.51  145.55094   936.4    304.9     In shadow
 Mon   01/15/96  3:46:00 AM  157.8  25.7   654.56  145.54863 -1367.7    305.0     In shadow
 Mon   01/15/96  3:47:00 AM  131.4  16.0   912.56  145.54740 -2598.6    305.2     In shadow
 Mon   01/15/96  3:48:00 AM  119.4   8.7  1265.37  145.54697 -3032.3    305.3     In shadow
 Mon   01/15/96  3:49:00 AM  113.0   3.6  1652.37  145.54680 -3199.1    305.5     In shadow

 Mon   01/15/96  5:17:00 AM  258.0   0.6  1944.20  145.55297  2969.8    305.1     In shadow
 Mon   01/15/96  5:18:00 AM  250.5   4.3  1590.19  145.55273  2726.7    305.2     In shadow
 Mon   01/15/96  5:19:00 AM  238.7   8.5  1278.93  145.55225  2251.7    305.4     In shadow
 Mon   01/15/96  5:20:00 AM  220.3  12.7  1050.99  145.55134  1343.0    305.5     In shadow
 Mon   01/15/96  5:21:00 AM  195.1  14.5   968.33  145.54994   -64.6    305.7     In shadow
 Mon   01/15/96  5:22:00 AM  170.2  12.3  1065.62  145.54856 -1441.4    305.8     In shadow
 Mon   01/15/96  5:23:00 AM  152.5   8.1  1302.80  145.54770 -2304.5    306.0     In shadow
 Mon   01/15/96  5:24:00 AM  141.2   3.9  1618.76  145.54725 -2752.3    306.2   Illuminated
 Mon   01/15/96  5:25:00 AM  133.9   0.3  1975.04  145.54702 -2981.5    306.3   Illuminated

 Mon   01/15/96  6:54:00 AM  236.3   0.1  2000.62  145.55166  1659.1    306.1     In shadow
 Mon   01/15/96  6:55:00 AM  224.2   1.6  1832.63  145.55103  1028.0    306.2   Illuminated
 Mon   01/15/96  6:56:00 AM  210.5   2.4  1752.35  145.55025   252.1    306.4   Illuminated
 Mon   01/15/96  6:57:00 AM  196.2   2.2  1772.02  145.54943  -565.0    306.5   Illuminated
 Mon   01/15/96  6:58:00 AM  183.0   1.1  1888.36  145.54871 -1291.4    306.7   Illuminated

 Mon   01/15/96 11:06:00 PM  191.8   0.5  1932.59  145.55196  1962.5    302.7     In shadow
 Mon   01/15/96 11:07:00 PM  179.8   2.6  1724.53  145.55137  1365.2    302.8     In shadow
 Mon   01/15/96 11:08:00 PM  165.3   3.9  1603.29  145.55056   564.3    302.8     In shadow
 Mon   01/15/96 11:09:00 PM  149.5   4.1  1589.51  145.54965  -345.8    302.9     In shadow
 Mon   01/15/96 11:10:00 PM  134.5   3.1  1685.94  145.54881 -1187.8    302.9     In shadow
 Mon   01/15/96 11:11:00 PM  121.9   1.2  1875.34  145.54816 -1838.3    303.0     In shadow
 Tue   01/16/96 12:40:00 AM  230.6   0.7  1916.26  145.55305  3053.5    302.8     In shadow
 Tue   01/16/96 12:41:00 AM  223.6   4.6  1549.71  145.55285  2847.3    302.9     In shadow
 Tue   01/16/96 12:42:00 AM  212.4   9.3  1220.54  145.55242  2420.8    303.0     In shadow
 Tue   01/16/96 12:43:00 AM  193.7  14.3   969.71  145.55153  1530.1    303.1     In shadow
 Tue   01/16/96 12:44:00 AM  165.9  17.1   869.41  145.55001     7.3    303.2     In shadow
 Tue   01/16/96 12:45:00 AM  138.1  14.4   968.06  145.54848 -1519.7    303.3     In shadow
 Tue   01/16/96 12:46:00 AM  119.3   9.4  1217.94  145.54758 -2415.9    303.4     In shadow
 Tue   01/16/96 12:47:00 AM  108.0   4.7  1546.68  145.54715 -2845.5    303.5     In shadow
 Tue   01/16/96 12:48:00 AM  101.0   0.9  1913.06  145.54695 -3053.1    303.7     In shadow

 Tue   01/16/96  2:16:00 AM  249.9   3.6  1639.45  145.55321  3213.7    303.3     In shadow
 Tue   01/16/96  2:17:00 AM  243.7   8.9  1250.27  145.55305  3053.6    303.4     In shadow
 Tue   01/16/96  2:18:00 AM  231.8  16.4   894.29  145.55263  2628.4    303.6     In shadow
 Tue   01/16/96  2:19:00 AM  204.9  26.7   633.06  145.55138  1379.5    303.7     In shadow
 Tue   01/16/96  2:20:00 AM  158.1  28.3   606.53  145.54900 -1001.8    303.9     In shadow
 Tue   01/16/96  2:21:00 AM  126.9  18.2   837.40  145.54751 -2490.8    304.1     In shadow
 Tue   01/16/96  2:22:00 AM  113.2  10.1  1182.95  145.54699 -3005.1    304.2     In shadow
 Tue   01/16/96  2:23:00 AM  106.4   4.5  1568.19  145.54681 -3193.8    304.4     In shadow
 Tue   01/16/96  2:24:00 AM  102.4   0.4  1968.81  145.54673 -3271.2    304.6     In shadow

 Tue   01/16/96  3:51:00 AM  260.4   0.7  1933.74  145.55319  3186.2    303.9     In shadow
 Tue   01/16/96  3:52:00 AM  255.0   4.8  1546.61  145.55306  3055.1    304.1     In shadow
 Tue   01/16/96  3:53:00 AM  245.9  10.0  1184.36  145.55276  2759.8    304.3     In shadow
 Tue   01/16/96  3:54:00 AM  229.0  16.9   880.70  145.55204  2041.8    304.5     In shadow
 Tue   01/16/96  3:55:00 AM  198.1  22.7   716.55  145.55045   447.1    304.7     In shadow
 Tue   01/16/96  3:56:00 AM  162.2  19.9   785.64  145.54853 -1474.9    304.9     In shadow
 Tue   01/16/96  3:57:00 AM  139.9  12.8  1042.35  145.54747 -2525.6    305.1     In shadow
 Tue   01/16/96  3:58:00 AM  128.1   6.9  1385.34  145.54704 -2955.8    305.3     In shadow
 Tue   01/16/96  3:59:00 AM  121.4   2.3  1763.97  145.54686 -3140.1    305.5     In shadow

 Tue   01/16/96  5:28:00 AM  244.2   2.9  1709.09  145.55229  2293.7    305.2     In shadow
 Tue   01/16/96  5:29:00 AM  231.4   5.9  1459.57  145.55169  1691.0    305.4     In shadow
 Tue   01/16/96  5:30:00 AM  214.4   8.1  1303.99  145.55077   771.6    305.6     In shadow
 Tue   01/16/96  5:31:00 AM  194.7   8.4  1277.80  145.54964  -359.6    305.8     In shadow
 Tue   01/16/96  5:32:00 AM  176.3   6.8  1388.40  145.54862 -1384.7    306.1     In shadow
 Tue   01/16/96  5:33:00 AM  161.9   4.0  1607.36  145.54790 -2100.6    306.3   Illuminated
 Tue   01/16/96  5:34:00 AM  151.5   1.0  1896.72  145.54746 -2538.5    306.5   Illuminated

 Tue   01/16/96 11:15:00 PM  210.2   1.3  1850.34  145.55258  2583.3    301.8     In shadow
 Tue   01/16/96 11:16:00 PM  199.7   4.5  1555.36  145.55214  2144.7    301.9     In shadow
 Tue   01/16/96 11:17:00 PM  184.9   7.4  1331.90  145.55141  1408.9    301.9     In shadow
 Tue   01/16/96 11:18:00 PM  165.6   9.2  1221.10  145.55033   334.6    302.0     In shadow
 Tue   01/16/96 11:19:00 PM  145.0   8.7  1253.75  145.54915  -846.8    302.0     In shadow
 Tue   01/16/96 11:20:00 PM  127.6   6.3  1419.89  145.54822 -1780.2    302.1     In shadow
 Tue   01/16/96 11:21:00 PM  114.8   3.1  1679.84  145.54763 -2371.1    302.3     In shadow
 Tue   01/16/96 11:22:00 PM  105.8   0.0  1996.45  145.54728 -2715.6    302.4     In shadow
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

336. 80m traffic

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 12 Jan 1996 23:40:26 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <0611130F761EA001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

This evening at 0328z I received a position packet from KJ7HZ-1 somewhere around SLC (4031.48N,11150.55W). Freq was 3584.8kHz. Also got position packet from WB6NGC but he's only 6 miles away.

73 - Jon NW6H

---

337. Re: [APRSSIG:5811] SPRE guidance

From: Cap Pennell <cap@cruzio.com>
Date: Sat, 13 Jan 1996 02:17:01 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9601130013.aa15620@inside.cruzio.com>
Rendered body type: text/plain

At 11:08 PM 1/7/96 -0600, Bob WB4APR wrote:
 <snip>
>ANother big problem is that some TNC's monitor their OWN outgoing
>packets even if they are NOT digipeated. This will automatically give
>you the CONGRATULATINS message and cancel further transmitting EVERY
>time you transmit a single packet in SPACE mode. Be sure that MXMIT or

```
>whatever is the command on your TNC is OFF.  If your radio echos the XMT
>audio back in to the TNC, this problem will also occur.  If you cannot
>get rid of your own packets, then disable SPACE mode but be sure that
>GRID-TO is enabled.  I think this is on the CONTROLS menu somewhere.  You
>can still force your POSIT or BEACON to go out every now and then using
>the XMT-POSIT command.

Can anyone tell me what the command to stop displaying my own packets is
for a KPC-3 tnc?  I'd like to be able to use the SPACE mode, but can't
determine which command I need to change.  Thanks in advance! 73. Cap
----------------------------------------------------------------------
Cap Pennell           packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
Santa Cruz, CA, 95062-1002   email: cap@cruzio.com    3658.92N/12200.88W
```

338. Re: [APRSSIG:5947] Re: 80m activity last night

From: dwetzel@uswest.com
Date: Sat, 13 Jan 1996 07:10:58 -0600
To: aprssig@tapr.org
Message-ID: <0f7b41a0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
I'm in Salt Lake City,UT,  Rich.

     4031.49N
     11150.54W

     BTW for the rest of the group -

     Heard a couple of packets last night on 80, but wasn't able to copy a
     complete callsign.

     73
     Doug
     KC7CO


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5947] Re: 80m  activity last night
Author:  aprssig@tapr.org at Internet-Mail
Date:    1/12/96 4:39 PM


Where are you located Doug ??
I THINK I have seen a BEACON from you in the past week but never a POSIT report.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

339. Shuttle Tracking Display

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 13 Jan 1996 08:29:49 -0600
To: aprssig@tapr.org
Message-ID: <199601131425.IAA19297@sys1.tapr.org>
Rendered body type: text/plain

```
If you need to confirm your tracking software is properly showing the
shuttle postition and you have netscape; here's a nifty URL for you.

http://shuttle.nasa.gov/sts-72/demos/

This will automatically update the shuttle track and attitude if you set
your web browser to 0K of memory and 0K disk cache.
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

340. [APRSSIG:5957] Shuttle Tracking Display

From: n2czf@gate.net
Date: Sat, 13 Jan 1996 10:49:56 -0500
To: kc4hdk@gate.net
Cc: louisdevillon@emi.net
Message-ID: <199601131549.KAA37270@osceola.gate.net>
Rendered body type: text/plain

<---- Begin Forwarded Message ---->
Date: Sat, 13 Jan 1996 08:41:42 -0600 (CST)
Reply-To: aprssig@tapr.org
From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
To: aprssig@tapr.org
Subject: [APRSSIG:5957] Shuttle Tracking Display

If you need to confirm your tracking software is properly showing the
shuttle postition and you have netscape; here's a nifty URL for you.

http://shuttle.nasa.gov/sts-72/demos/

This will automatically update the shuttle track and attitude if you set
your web browser to 0K of memory and 0K disk cache.

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

<---- End Forwarded Message ---->

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

341. Re: SPRE guidance

From: Larry Griffin <largriff@onramp.net>
Date: Sat, 13 Jan 1996 08:40:45 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE19D.5A915920@lub06.onramp.net>
Rendered body type: text/plain

Someone wrote:
>Can anyone tell me what the command to stop displaying my own packets is
>for a KPC-3 tnc? I'd like to be able to use the SPACE mode, but can't
>determine which command I need to change. Thanks in advance! 73. Cap

----

MXmit Off   is the command.

That's assuming your KPC-3 has version 6.0 or later firmware. If its older than
that you don't need to worry about it because the older ones don't display their
own packets anyway.

Larry Griffin <largriff@onramp.net>

---

342. Re: [APRSSIG:5954] 80m traffic

From: calldrin@sierra.net (Chuck Alldrin)
Date: Sat, 13 Jan 1996 08:27:17 -0800
To: aprssig@tapr.org
Message-ID: <199601131627.AA20389@diamond.sierra.net>
Rendered body type: text/plain

I heard the following Fri. eve.:
Freq. 3585
NW6H
KJ7HZ-1

Hope this helps :-)
Chuck KN6JS

>
>This evening at 0328z I received a position packet from KJ7HZ-1 somewhere around
>SLC (4031.48N,11150.55W). Freq was 3584.8kHz. Also got position packet from
>WB6NGC but he's only 6 miles away.
>
>73 - Jon NW6H
>
>
>

---

343. Re: Shuttle Tracking Display

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 13 Jan 1996 11:21:02 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad1d99b65f3e@[199.1.11.120]>
Rendered body type: text/plain

>http://shuttle.nasa.gov/sts-72/demos/
>

Check that the UTC or GMT time is correct in the Frame.
Last night is was over 1 HR old and showed the same position.
(Stuck in Space)

I use the Cable TV's Nasa select .

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

344. SPRE Sunday Morning!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 13 Jan 1996 12:35:32 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960113115913.28093B-100000@greatlakes>
Rendered body type: text/plain

Ignore my previous predictions since the Shuttle is manuvering a lot.
Although in Wash DC, we will not see SPRE until SUN night because it is
deployed just after our last Morning pass, everyone in the south and west
may have from 1 to 3 passes SUNDAY MORNING after 0630 CST. So set up
SAT NIGHT on 145.55 if you are going to sleep in... See below from KC5EJK
for Dallas TX. IN CENTRAL STANDARD TIME.

```
           Time CST            Az    El (highest per pass)
 DAY   MM/DD/YY HH:MM:SS      Deg   Deg

 Sun   01/14/96  6:46:00 AM  212.8   7.0
 Sun   01/14/96  7:21:00 AM      *   *   Visible W. of TX. (    5:21 PST)
 Sun            11:00:00 *PM*    *   *   Visible E. of TX. (midnight EST)
 Mon   01/15/96 12:35:00 AM  144.5  10.0
 Mon   01/15/96  2:10:00 AM  162.0  25.1
 Mon   01/15/96  3:45:00 AM  202.7  27.3
 Mon   01/15/96  5:21:00 AM  195.1  14.5
 Mon   01/15/96  6:56:00 AM  210.5   2.4
 Mon             8:01:00 AM      *   *   Visible W. of TX. (    6:01 PST)
 Mon             9:34:00 *PM*    *   *   Visible E. of TX. (   10:34 EST)
 Mon   01/15/96 11:09:00 PM  149.5   4.1
 Tue   01/16/96 12:44:00 AM  165.9  17.1
 Tue   01/16/96  2:20:00 AM  158.1  28.3
 Tue   01/16/96  3:55:00 AM  198.1  22.7
 Tue   01/16/96  5:31:00 AM  194.7   8.4
```

Stations in FLorida may see an additional pass 1:35 mins earlier than
the earliest one shown per day and stations in So.Calif may see an
additional pass 1:35 mins after the last one shown per day.

---

345. APRtrak false alarm

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 13 Jan 1996 12:40:55 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@tapr.org
Message-ID: <Pine.SUN.3.91.960113123712.28093C-100000@greatlakes>
Rendered body type: text/plain

When you load the SPRE.BK file to show APRtrak that it is working the
W3EAX SPRE, you will also be loading historical data in your TELEMETRY

```
page and in your HEARD log.  Ignore this old data and carefully look at
the TIMES for any new data...

---------- Forwarded message ----------
Bob. APRTRAK snookered me.... ..  I had it on last night armed for the early
Shuttle passes knowing that SPRE wasn't scheduled yet.  I checked my
heard log and saw that I had 17 entries of w3eax.  I then checked the
logs and saw the telemetry.  I was about to save off the files when I
realized that the times didn't check out.  It was then I realized that
when I loaded that spre.bk file, it put w3eax in my log. hi  Good thing I
didn't go running out and tell everyone I worked the shuttle....
```

---

346. Re: [APRSSIG:5948] APRtrak foibles

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)
Date: Sat, 13 Jan 1996 12:51:57 EST
To: aprssig@tapr.org
Message-ID: <091.08578887.MBTD87A@prodigy.com>
Rendered body type: text/plain

```
-- [ From: Mike Heskett * EMC.Ver #2.10P ] --

Bob this is the problem I reported with the KPC-4 a couple of weeks
ago. I published the circumvention, but you may have missed it.

Use the "O" "D" to store the digipeater path that you want to use for
space mode. Store it without any slashes (just like it would look for a
single port model.

Then load that path and go into space mode and it should work properly,
it does for me.

Mike - WB5QLD
-------- REPLY, Original message follows --------

> Date: Friday, 12-Jan-96 07:01 PM
>
> From: Bob Bruninga             \ Internet:    (bruninga@nadn.navy.mil)

> Subject: [APRSSIG:5948] APRtrak foibles
>
> Erratta:
>
> 1)  I just noticed a problem with the SPACE/ARMED mode in both APRS
and
> APRtrak when used with a dual port TNC.  APRS is looking for a
> match between the callsign of the Space digipeater and what you have
in
> your APRS unproto string
>

-------- REPLY, End of original message --------
```

---

347. Re: [APRSSIG:5959] Re: SPRE guidance

From: quarry@q.continuum.net (Chip)
Date: Sat, 13 Jan 1996 13:08:33 -0500
To: aprssig@tapr.org
Message-ID: <v01530502ad1da3085ebb@[199.0.52.79]>
Rendered body type: text/plain

```
At 10:11 1/13/96, Larry Griffin wrote:

> That's assuming your KPC-3 has version 6.0 or later firmware.  If its
>older than
> that you don't need to worry about it because the older ones don't
>display their
> own packets anyway.

That is not correct.  I have v5.x firmware and that command is still in its
repitoire.


Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net  (alternate: emmet2@aol.com)
    -   FidoNet to: Chip@1:320/301.0 or .1
my home page:     http://q.continuum.net/~quarry/
TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

348. Dos err 68

From: Tony Flusche <76357.176@compuserve.com>
Date: 13 Jan 96 13:23:07 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <960113182306_76357.176_FHR42-1@CompuServe.COM>
Rendered body type: text/plain

```
Can anybody tell me what dos err 68 is. I acquired a TI3100 laptop that aprs &
aprtrack get this error on. It is a 286 640k with 10meg hard drive. This happens
only when running off the
hard drive. works fine off the floppy.
```

---

349. (no subject)

From: n2czf@gate.net
Date: (date unavailable)
Rendered body type: text/plain

```
Date: Sat, 13 Jan 1996 13:31:16 -0500
Message-Id: <199601131831.NAA70130@osceola.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Latest Keps ?
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

I have never been very much into the Sats but I have decided to try SPRE this
time at the last moment.

Where is the best place to get updated KEPS, I know that they change often so
I will like to stay as close as possible.

Also is there a location on Internet to lock on a standard time with your PC. At
one time I had a program that did this via modem but I have since lost the
software.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

350. Magnavox GPS Engine

From: w2g3zfj@unix.asb.com (bob)
Date: Sat, 13 Jan 1996 14:54:51 -0500
To: aprssig@tapr.org
Message-ID: <199601132012.PAA06828@UNiX.asb.com>
Rendered body type: text/plain

```
Hi There

Just got a Magnavox GPS Engine. Does anyone have any info on its
connections, power requirements and software configuration?

Any info appreciated, plan to use it as permenant car location tracker with
APRS.

73 de bob w2/g3zfj

EMail w2g3zfj@unix.asb.com
```

---

351. !!! BEST SATELLITE TRACKING PROG. !!!

From: jean@pubs17.si.com (Richard G. Jean Jr.)
Date: Sat, 13 Jan 96 14:24 EST
To: aprssig@tapr.org
Message-ID: <m0tbBZ5-0002qMC@pubs17.si.com>
Rendered body type: text/plain

```
Just a quick note:

For a GREAT satellite tracking program checkout ==> STSPLUS !!!
Can be found on Celestial BBS ==> 513-427-0674. I'm pretty
sure this number is correct... I will repost later if not
(I'm at work)..... That may be an old number.....

The files are labeled SOP95XX.ZIP; there should be two of them.

IT HAS THE BEST GRAPHICS OF ANY SATELLITE TRACKING PROGRAM I'VE SEEN !!!!!

Check it out and let me know what you think!!!
```

```
ENJOY !!!!

Rich

HM: rjean@dinfsvs.com
WK: jean@si.com
```

---

352. Re: [APRSSIG:5967] Latest Keps ?

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 13 Jan 1996 13:21:46 -0700
To: aprssig@tapr.org
Message-ID: <199601132021.NAA24257@usr5.primenet.com>
Rendered body type: text/plain

```
At 12:49 PM 1/13/96 -0600, you wrote:
>I have never been very much into the Sats but I have decided to try SPRE this
>time at the last moment.
>
>Where is the best place to get updated KEPS, I know that they change often so
>I will like to stay as close as possible.
>
>Also is there a location on Internet to lock on a standard time with your
PC. At
>one time I had a program that did this via modem but I have since lost the
>software.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
>
>Hope that this helps:

ftp://amsat.org/amsat/keps/sarex/sts-72.txt

73, Alan
Alan K. Unangst, WC7R
alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

353. Where to get most up-to-date STS-72 KEPS

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 13 Jan 1996 13:27:19 -0700
To: aprssig@tapr.org
Message-ID: <199601132027.NAA25034@usr5.primenet.com>
Rendered body type: text/plain

```
For the latest, almost minute by minute Keps updates for STS-72 on the net
go to:

ftp:\\amsat.org/amsat/keps/sarex/sts-tle.txt

I have found that you need to edit them by removing the extra spaces between
the header (STS-72) and the TLEs, also, between line 1 and lone 2. When
edited in this way you can update the keps into the APRtrak APR.orb file
automatically using the F   K    2 commands in the program.

Hope that tis information helps. I found out from an active AMSATer here in
Prescott, and have been updating my Keps that way for the last two (2) days.

73, and hope to see everyone on SPRE.

      Alan
Alan K. Unangst, WC7R
alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

354. Predictions for SE Florida

From: n2czf@gate.net
Date: Sat, 13 Jan 1996 15:34:03 -0500
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil, ke4qiz@theborg.mlb.fl.us
Message-ID: <199601132034.PAA42090@osceola.gate.net>
Rendered body type: text/plain

```
Message To: APRSIG and Various Others
```

This is the data that I have calculated based on WB4APR's latest Element set posted earlyer today on the APRS Sig for South Eastern Florida. For those not on the sig the frequency is 145.55 and this is for the SPRE payload.

```
STSORBIT PLUS Data Output to STSPLUS.LOG, Data = 19

Location:          Jupiter Farms
Prepared:          Saturday, 13 Jan 1996  20:22:05

Satellite Name:    STS-72
Catalog Number:    23762  96001A
TLE Filename:      ELEMENT2.TXT

   -----------AOS-----------  --MAX VISIBILITY--  ------LOS------
 #    EST Date & Time    Azm  EST Time Alt   Azm  EST Time    Azm Duration V
 1 13 JAN 96 23:04:07  185.0  23:06:10   2 155.2  23:08:10  123.9  0:04:03
 2 14 JAN 96 00:38:22  232.1  00:42:03  20 160.8  00:45:25   88.1  0:07:03
 3 14 JAN 96 02:14:24  264.2  02:17:59  54 348.2  02:21:24   75.6  0:07:00
 4 14 JAN 96 03:50:43  282.7  03:54:05  30   1.8  03:57:32   82.0  0:06:49
 5 14 JAN 96 05:26:40  282.0  05:30:08  76 195.8  05:33:53  106.2  0:07:13
 6 14 JAN 96 07:02:49  263.3  07:06:03  11 201.3  07:09:35  141.5  0:06:46
 7 14 JAN 96 23:17:09  213.6  23:20:42  10 158.0  23:23:55  100.2  0:06:46
 8 15 JAN 96 00:52:42  249.4  00:56:37  56 165.6  01:00:09   79.6  0:07:27
 9 15 JAN 96 02:29:06  275.2  02:32:40  33 355.9  02:36:03   76.2  0:06:57
10 15 JAN 96 04:05:21  284.7  04:08:45  43   7.3  04:12:14   91.9  0:06:53
11 15 JAN 96 05:41:21  274.6  05:44:42  25 198.6  05:48:19  123.0  0:06:58
12 15 JAN 96 07:18:18  242.3  07:20:33   3 204.5  07:22:55  167.8  0:04:37
13 15 JAN 96 21:56:26  192.4  21:59:15   4 155.3  22:01:55  116.4  0:05:29
14 15 JAN 96 23:31:02  233.4  23:35:13  23 160.9  23:38:54   87.0  0:07:52
15 16 JAN 96 01:07:14  263.4  01:11:12  59 349.5  01:14:45   75.8  0:07:31
16 16 JAN 96 02:43:44  282.0  02:47:18  31   1.2  02:50:41   81.6  0:06:57
17 16 JAN 96 04:19:55  282.1  04:23:21  77 196.8  04:26:50  105.9  0:06:55
18 16 JAN 96 05:56:14  261.7  05:59:12  10 202.3  06:02:19  143.9  0:06:05
19 16 JAN 96 22:09:36  216.3  22:13:42  12 158.2  22:17:24   97.1  0:07:48
20 16 JAN 96 23:45:17  249.4  23:49:43  59 165.0  23:53:32   79.4  0:08:15
21 17 JAN 96 01:21:50  274.0  01:25:47  37 355.1  01:29:19   76.5  0:07:29
22 17 JAN 96 02:58:17  284.3  03:01:55  44   7.9  03:05:19   91.5  0:07:02
23 17 JAN 96 04:34:30  274.9  04:37:51  24 199.2  04:41:12  123.4  0:06:42
24 17 JAN 96 06:11:46  238.0  06:13:36   2 205.8  06:15:28  174.2  0:03:42
```

NNN

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

355. APRS for Windows

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sat, 13 Jan 1996 17:05:48 +0000
To: aprssig@tapr.org
Message-ID: <199601132207.RAA19248@hemisphere.neocomm.net>
Rendered body type: text/plain

Hey beta testers, how about some comments from you guys testing
Mr. Sproul`s WinAPRS program. I would like to here your comments,
feedback on how you like the program. Give us aprssig win/users a
little input on what we have to look forward to.
lthank you Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

356. Re: [APRSSIG:5966] Dos err 68

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 13 Jan 1996 17:34:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960113173142.29086C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 13 Jan 1996, Tony Flusche wrote:

> Can anybody tell me what dos err 68 is. I acquired a TI3100 laptop that
> aprs & aprtrack get this error on. It is a 286 640k with 10meg hard drive.

WB4APR REPLY COMMENT:

DEVICE NOT AVAILABLE. Usually the COM port. My 486 laptop will ALWAYS error that way if I let it BOOT WINDOWS first. Windows does something to the COM ports. Boot straight to DOS and it should work. ALso be sure you are using the right COM port or at least one that exists.

---

357. Re: [APRSSIG:5956] Re: 80m activity last night

From: lorie <ldajz@epix.net>
Date: Sat, 13 Jan 1996 17:42:33 +0000
To: aprssig@tapr.org
Message-ID: <30F7EF09.16D0@epix.net>
Rendered body type: text/plain

AL, N3KAE here in EPA.

Tnx for the info on exact freq.. Using TS440S es a dipole from 1800Z Friday to 1400Z Saturday heard distant packets but the TNC heard nada.... Back to VHF and 30 Meters.

73 de N3KAE

---

358. Re: [APRSSIG:5973] APRS for Windows

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 13 Jan 1996 17:47:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960113174105.29086D-100000@greatlakes>
Rendered body type: text/plain

On Sat, 13 Jan 1996, someone wrote:

> Hey beta testers, how about some comments from you guys testing
> Mr. Sproul`s WinAPRS program. I would like to here your comments,

WB4APR REPLY COMMENT:

Although we are all excited and awaiting the latest news (I still dont have a beta test copy) it would be premature to start talking about it here, since that would generate lots of messages that Sproul Bros would feel compelled to answer, and they are VERY busy, hi hi...
So, lets all wait for the official BETA comming out in a few weeks...

---

359. Re: [APRSSIG:5964] Re: APRtrak foibles

From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)
Date: Sat, 13 Jan 1996 19:03:14 EST
To: aprssig@tapr.org
Message-ID: <091.08600794.MBTD87A@prodigy.com>
Rendered body type: text/plain

-- [From: Mike Heskett * EMC.Ver #2.10P] --

That is what the KPC-4 does IF you issue the UNPROTO command.

Did you try it?

It appears to me that APRS handles if differently when it comes from the saved list. As if it puts that path in the APRS save area for the path and does not issue the UNPROTO to see the path.

I am not sure why it works, but it does. Don't issue the UNPROTO or it will mess it up. Test it with a local station and I think you will see that it works. At least it does here and the KAM and KPC-4 are logically the same.

Mike - WB5QLD
-------- REPLY, Original message follows --------

> Date: Saturday, 13-Jan-96 05:30 PM
>
> From: Bob Bruninga \ Internet: (bruninga@nadn.navy.mil)

> Subject: Re: [APRSSIG:5964] Re: APRtrak foibles
>
> No matter how you store it, when you do an UNPROTO to the TNC, you
get
> back APRS VIA DIGI/XXXXX VIA DIGI2
>
> And APRS grabs that and then thinks the name of the digi is

```
DIGI/XXXXX
>
>
> Isnt that what the KPC-4 does?
>
>
>

-------- REPLY, End of original message --------
```

360. RE: [APRSSIG:5969] !!! BEST SATELLITE TRACKING PROG. !!!

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Sat, 13 Jan 1996 19:11:42 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960113191142.2040d8e0@exame2.dseg.ti.com>
Rendered body type: text/plain

```
Rich - evidently the number you posted for the Celestial BBS is obsolete.
When I tried calling it I got a voice answer. Got a more recent number?

   Regards, Claude
            K5DTN
```

361. [APRSSIG:5978] RE: !!! BEST SATELLITE TRACKING PROG. !!!

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Sat, 13 Jan 1996 19:58:00 -0600
To: aprssig@tapr.org
Message-ID: <59.50678.99@drig.com>
Rendered body type: text/plain

```
Reference the earlier note as to where to find the 'best tracking
program', there are several dozen good programs available.

The Shuttle Orbiter Program (SOP95XX.ZIP) in its latest release
may be found in File  Area 28  on the Dallas Remote Imaging Group
BBS at 214-492-7057   (telnet  bbs.drig.com)

See the listing in the Files section (area 28).

de n5itu


----------------------------------------------------------------------------
Internet: jeff.wallach@drig.com (Jeff Wallach)
This message was processed by NetXpress from Merlin Systems Inc.
----------------------------------------------------------------------------
```

362. SPRE Telemtery

From: KSwaggart@aol.com
Date: Sat, 13 Jan 1996 21:29:13 -0500
To: aprssig@tapr.org
Message-ID: <960113212912_115758503@emout05.mail.aol.com>
Rendered body type: text/plain

```
Where can I find the latest (correct) SPRE.BK to use to set up for the SPRE
telemetery? I'm using the one with APRTRK from ARN bbs - not sure if its the
most current. Doesn't show any TLM on APRS74f (beta), shows one line of TLM
on APRTRAK.

Tnx es 73
Ken W7KKE
kswaggart@aol.com
```

363. need help

From: KD4EMI@aol.com
Date: Sat, 13 Jan 1996 21:38:40 -0500
To: aprssig@tapr.org
Message-ID: <960113213840_40991756@mail04.mail.aol.com>
Rendered body type: text/plain

```
Hey folks...just found a kam version 2 (1987)

Picked it up for cheap...

Anyhow..no books though and I need some help.

(waiting on info about upgrading it to version 5 which a friend has
```

and doesnt need)

Anyhow here is the problem.
I can talk to the tnc no problem, except when I first start aprs.
Seems as though I get gibberish until I turn on-off the tnc.
Then everything seems to work ok, (except none of the initializing data
went to the tnc)
If I do it in the oct mode then it works fine, and generally aprs seems
to be working on it ok, just this start up bug..
Any suggestions...AND, anyone know abt these old versions of the KAM..?
Thanks in advance...MIke KD4EMI@AOl.COM

---

364. SPRE-APRS & Dual Ports

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 13 Jan 1996 21:40:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960113213255.29381A-100000@greatlakes>
Rendered body type: text/plain

MR MICHAEL R HESKETT <MBTD87A@prodigy.com> Mike - WB5QLD figured out a
work around for the problem of APRS not properly waking up in unattended
mode when using a dual port TNC because of the dual/port UNPROTO command
format which confuses APRS as to what SPACE-DIGI it is listening for...

His solution is to put W3EAX in the OPS-DIGI list and load it from
there. Apparently APRS then takes just the W3EAX without taking the
actual dual/port string echoed from the TNC. THis does NOT help APRtrak,
since it does not have the OPS-DIGI commands, but it will allow your
station (if placed in the alt-S-MODES-SPACE) to reset its BCN/POSIT
periods to minimum as soon as it hears W3EAX.

---

365. [APRSSIG:5978] RE: !!! BEST SATELLITE TRACKING PROG. !!!

From: jeff.wallach@drig.com (Jeff Wallach)
Date: Sat, 13 Jan 96 19:58:00 -0600
To: aprssig@tapr.org
Message-ID: <59.50678.99.0C38EE8E@drig.com>
Rendered body type: text/plain

Reference the earlier note as to where to find the 'best tracking
program', there are several dozen good programs available.

The Shuttle Orbiter Program (SOP95XX.ZIP) in its latest release
may be found in File Area 28 on the Dallas Remote Imaging Group
BBS at 214-492-7057 (telnet bbs.drig.com)

See the listing in the Files section (area 28).

de n5itu

---

366. Modes

From: ke4eer@ro.com (William Nolle)
Date: Sun, 14 Jan 1996 07:01:32
To: aprssig@tapr.org
Message-ID: <199601141309.HAA21599@sh1.ro.com>
Rendered body type: text/plain

How do i get APRS out of the ARMED! mode. Attempted to beacon SPRE but
didn't even hear it after deployment and making it's first pass. Did pick up
half a dozen Mir beacons including my own while APRS was running Hi.

Bill KE4EER
ke4eer@ro.com

---

367. SPRE deploy

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 14 Jan 1996 07:52:00 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad1eb6da2504@[199.1.11.125]>
Rendered body type: text/plain

>From Nasa Select TV
SPAR Deploy at 5:32 CST

Nothing on the pass.

I have been tracking using ALL the given Shuttle and SPAR keps
and it looked like the SPAR was between the SPAR-00 and SPARTAN keps
posted on the SIG for the 7:00 AM CST Sunday morning Dallas pass.

I guess it was not turned on for the First USA pass. Next pass for us
in Dallas is between 11:30 Sunday night and 12:30 AM Monday morning CST.

Mir was loud and strong about 20 min after SPAR pass and that triggered
a few local POS reports from APRTRAK users who still had software set
for MIR (R0MIR) and not SPAR (W3EAX)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

368. SPRE or MIR ????

From: n2czf@gate.net
Date: Sun, 14 Jan 1996 09:18:44 -0500
To: aprssig@tapr.org
Message-ID: <199601141418.JAA87212@osceola.gate.net>
Rendered body type: text/plain

Ok people....don't know about you but APRTrak seemed to work kind of, just no
SPRE! R0MIR was digi'ing a WHOLE BUNCH of stations and filled up my map, I know
that I copied much much more than just one page.

Can anyone please explain to me exactly how to do the Kep's part of APRTrak. I
read Bob's message but I guess I just do not understand it.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

369. Re: [APRSSIG:5980] SPRE Telemtery

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 09:50:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960114094908.53A-100000@greatlakes>
Rendered body type: text/plain

On Sat, 13 Jan 1996 KSwaggart@aol.com wrote:

> Where can I find the latest (correct) SPRE.BK to use to set up for the SPRE
> telemetery? I'm using the one with APRTRK from ARN bbs - not sure if its the
> most current. Doesn't show any TLM on APRS74f (beta), shows one line of TLM
> on APRTRAK.

WB4APR REPLY COMMENT:

There is only one SPRE.bk. And it is useless in APRS, since APRS cannot
decode the telemetry.

---

370. 80 Meter Activity

From: Truman Boerkoel <truxenia@erinet.com>
Date: Sun, 14 Jan 1996 09:57:18 -0500
To: aprssig@tapr.org
Message-ID: <199601141503.KAA02152@eri1.erinet.com>
Rendered body type: text/plain

I was able to hear N2FZ and N4YFV in Florida last night from Xenia, Ohio
I did send a message and get an ACK from N4YFV in Crestview, Fl.

Vry 73 de Tru K8JUG

---

371. Re: [APRSSIG:5984] Modes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 10:02:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960114100119.53E-100000@greatlakes>
Rendered body type: text/plain

On Sun, 14 Jan 1996, William Nolle wrote:

> How do i get APRS out of the ARMED! mode. Attempted to beacon SPRE but
> didn't even hear it after deployment and making it's first pass. Did pick up
> half a dozen Mir beacons including my own while APRS was running Hi.

WB4APR REPLY COMMENT:

Use the alt-SETUP-MODES-SPACE to toggle in and out or SPACE (ARMED) mode.

372. Re: [APRSSIG:5986] SPRE or MIR ????

From: Wb2ngz@aol.com
Date: Sun, 14 Jan 1996 10:29:43 -0500
To: aprssig@tapr.org
Message-ID: <960114102941_41310454@mail06.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-01-14 09:47:26 EST, you write:

>Can anyone please explain to me exactly how to do the Kep's part of APRTrak.
>I read Bob's message but I guess I just do not understand it.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida

Dear Rich:
I found the best way (for me) to configure the KEP'S in APRtrak was to delete all nine (9) satellites from the APR.ORB file and just copy in the KEP'S for STS-72 in AMSAT format. This eliminates a lot of clutter caused by the other, unneeded, satellites. You might also want to add MIR to the APR.ORB file. After the SPRE experiment is over you can put the original nine (9) satellites back in the APR.ORB file.

73..Bob, WB2NGZ
Ponce Inlet, Florida
Wb2ngz@AOL.com

---

373. SPRE

From: "JJ1WTK K.Sakamoto" <av6k-skmt@asahi-net.or.jp>
Date: Mon, 15 Jan 96 00:58:20 +0900
To: amsat-bb@amsat.org, aprssig@tapr.org, n3fzx@amsat.org
Message-ID: <19870.av6k-skmt@asahi-net.or.jp>
Rendered body type: text/plain

I heard packet signals might be of SPRE on 145.55MHz
on Jan. 14 from 15:29z to 15:33z.
Unfortunately, Not decoded. Thus, I couldn't confirm they are of SPRE.
No passes of Mir durting this time.
I'll try again on next pass.

The time meets with predicted time as follows keps.

```
SPARTAN
1 23763U 96001B   96014.50990802  .00025480  00000-0  75964-4 0  9501
2 23763  28.4507  71.4399 0006407 286.3915  73.6104 15.88242221   504

Satellite: SPARTAN
Catalog number: 23763
Epoch time:      96014.50990802    =    (14-Jan-96   12:14:16.05 UTC)
Element set:     950
Inclination:       28.4507 deg
RA of node:        71.4399 deg
Eccentricity:     .0006407               Keplerian element set JSC-950
Arg of perigee:   286.3915 deg          Predicted SPARTAN deploy vector
Mean anomaly:      73.6104 deg
Mean motion:   15.88242221 rev/day                Gil Carman
Decay rate:     2.5480e-04 rev/day^2       NASA Johnson Space Center
Epoch rev:              50
Checksum:              285
```

73, de Kazu Sakamoto,JJ1WTK <av6k-skmt@asahi-net.or.jp> <jj1wtk@amsat.org>
!

---

374. STS-72/SPRE pass over Hawaii

From: DDOBBINS@aol.com
Date: Sun, 14 Jan 1996 11:57:09 -0500
To: APRSSIG@tapr.org
Message-ID: <960114115708_116140010@mail06.mail.aol.com>
Rendered body type: text/plain

Copied the following sentence at 0136 Hawaii time (1136Z):
W3EAX>WORLD/V:GPS_LOCATION 01:36:427 44413000001003

Now for the rest of the story: I don't have DOS here at home. Mac did not log the station heard. The line above was posted at the bottom of my world.map I was viewing at the time. Not listed in history file either.

A few moments ago, just before sunrise, at 0625 Hawaii time (1625Z), I visually spotted what I'm sure was STS-72 on an ascending pass (SW to NE), nice and high in the sky. A moment later I observed another object cross the sky, possibly SPRE, but on a slightly different orbit, flatter than STS-72, and not quite as bright. Nothing heard from SPRE on this pass.

One of the schools here is a ground control station, and I'll report back if they got anything.

Aloha for now. Too early for the beach here, sun's not even up yet, so I'll just have a cup of Kona coffee. Dave.

---

375. SPRE is working

From: "JJ1WTK Kazu Sakamoto" <jj1wtk@os.gulf.or.jp>
Date: Mon, 15 Jan 96 01:59:09 +0900
To: amsat-bb@amsat.org, aprssig@tapr.org
Cc: bq5t-ogr@asahi-net.or.jp
Message-ID: <23176.jj1wtk@os.gulf.or.jp>
Rendered body type: text/plain

SPRE is working.
Tunetaka Oguro, JG1KOE captured SPRE packet frames at approx 15:30z of Jan.14.

Here's the frames he captured. Extracted.

```
----------
cmd:W3EAX>WORLD:REFLEX 01:17:35>AA5580000000000000000000000000000000000000000000
BV1AF>PL04VQ,W3EAX*:45 [DW into 13 [Ddb beam
W3EAX>WORLD:REFLEX 01:17:35>AA55800000000000000000000000000000000000000000000000
W3EAX>WORLD:REFLEX 01:17:35>AA55800000000000000000000000000000000000000000000000
W3EAX>WORLD:REFLEX 01:17:36>AA55800000000000000000000000000000000000000000000000
W3EAX>WORLD:REFLEX 01:17:36>AA55800000000000000000000000000000000000000000000000
W3EAX>WORLD:REFLEX 01:17:36>AA55800000000000000000000000000000000000000000000000
W3EAX>WORLD:SPRE_TELEM 01:17:57>00:8B 01:9A 02:00 03:9B 04:00 05:CF 06:00 07:ABC
W3EAX>WORLD:GPS_TIME 01:17:48>414759DF130344413000001003
W3EAX>WORLD:GPS_LOCATION 01:17:26>83414773605845C9D341551D31EC81FE6641404B83ED33
BV1AF>PL04VQ,W3EAX*:45 [DW into 13 [Ddb beam
W3EAX>WORLD:GPS_TIME 01:18:22>41475A001B0344413000001003
```

 73,de Kazu Sakamoto,JJ1WTK <jj1wtk@os.gulf.or.jp> <jj1wtk@amsat.org>

!

---

376. More SPRE-APRtrak/APRS notes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 12:09:28 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960114120649.722A-100000@greatlakes>
Rendered body type: text/plain

Here is an explaination of some details of APRtrak/APRS:

```
SPACE MODE:  Enables parsing of grid squares in the TO field. (GRID-IN-TO)
             Puts YOUR gridsquare in your TNC TO field.
             ARMS the program to reset its POSIT/BCN timers when it
                  hears a packet from the space DIGIpeater.
             Toggle it on and off with alt-S-MODES-SPACE command

ARMED:       Shows you that SPACE mode is set and awaiting a pass

SUCCESS:     In SPACE mode, shows that your XMTed packet was seen.
             Resets your POSIT/BCN timers to max (9 minutes)
             DISABLES ARMED mode for 9 minutes, then restores
                      ARMED mode after the pass is over
```

NOTE: APRtrak defaults to always monitor for GRID-IN-TO packets, but APRS does NOT. If you are NOT in SPACE mode in APRS, then you will NOT plot the position of packets, since it will ignore packet not sent *TO* APRS. To override this, in APRS, toggle on CONTROLS-FILTERS-GrdTO. This will let you receive GRID-IN-TO packets but your TNC will not be configured to XMT them.

```
GRID-IN-BCN:   This MODE places your gridsquare preceeded with an "@" and
               ending with a "]" in both your POSIT and your BEACON.
               ALL versions of APRS will always decode this packet, but
               it is not as SHORT as the GRID-IN-TO format.
```

```
Hope this helps...
```

---

377. STS-72 Rev 50 Orbital Data

```
From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 14 Jan 1996 11:31:13 -0600
To: aprssig@tapr.org
Message-ID: <199601141727.LAA01570@sys1.tapr.org>
Rendered body type: text/plain
```

```
>Date: 14 Jan 96 11:14:08 EST
>From: Ken Ernandes <70511.3107@compuserve.com>
>To: David Cottle <dcottle@ozemail.com.au>,
>        cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
>        Dave Ransom <rans7500@spacelink.msfc.nasa.gov>,
>        Mel Roman <ka2upd@amsat.org>, SAREX <sarex@amsat.org>,
>        Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>,
>        Flint Wild <wildfl@spacelink.msfc.nasa.gov>
>Subject: STS-72 Rev 50 Orbital Data
>
>
>         S T S - 7 2   O R B I T A L   D A T A
>
>Below is the rev 50 Earth-Fixed Greenwich (EFG) state vector for
>STS-72.  This vector data comes from NASA GSFC and was provided
>courtesy of the DOD C-Band Radar Network.
>
>Vector format = 7
>Satellite Name:         STS-72
>Catalog Number:         23762  96001A
>Epoch Date/Time:        96014.54270469900
>                        01/14/1996  13:01:29.685 UTC
>ECI X:                   -2757.0898589503 km
>    Y:                   -6081.9005485781 km
>    Z:                   354.639999999996 km
>    Xdot:                6.11287356559817 km/s
>    Ydot:                -2.9841279370328 km/s
>    Zdot:                -3.6591199999999 km/s
>ndot/2 (drag):              0.00002337064 rev/day^2
>nddt/6:                       0.00000E+00 rev/day^3
>Bstar:                        8.23705E-06 1/Earth Radii
>Elset #:                               21
>Rev @ Epoch:               50.48227029485
>
>Launch was 11-JAN-96 / 09:41:00.086 UTC
>
>The following Keplerian elements were computed by VEC2TLE from this
>vector using a 0.1 drag multiplier:
>
>STS-72
>1 23762U 96001A   96014.54270470  .00002337  00000-0  82371-5 0   212
>2 23762  28.4519  71.2427 0007211 297.6764 235.9368 15.87810532   507
>
>Satellite: STS-72
>Catalog number: 23762
>Epoch time:      96014.54270470
>Element set:      21
>Inclination:       28.4519 deg
>RA of node:        71.2427 deg
>Eccentricity:    0.0007211
>Arg of perigee:   297.6764 deg
>Mean anomaly:     235.9368 deg
>Mean motion:   15.87810532 rev/day
>Decay rate:    2.33706e-05 rev/day^2
>Epoch rev:              50
>Check sum:             296
>
>The next release of VEC2TLE will provide a feature to automatically
>update your TLE or AMSAT Keplerian element file(s).
>
>VEC2TLE may be downloaded from:
>ftp.amsat.org /amsat/software/PC/util
>
>Ken Ernandes
>n2wwd@amsat.org
>
>
>
---------------------------------------------------------------------
```

```
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

378. No Spre just MIR

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 14 Jan 1996 11:38:30 -0600
To: aprssig@tapr.org
Message-ID: <199601141734.LAA01920@sys1.tapr.org>
Rendered body type: text/plain

I'm a bit too far North for anything more than a few short (3-5 min) low angle passes of SPRE so far this is all I've received.

```
p,N6HNY     140729 >DM04RK,3426.1 N/11831.7 W?R0MIR*:
p,K5VR      140732 >EM35,R03543.5 N/09540.9 W?MIR*:NW Ark
p,AB5GE     140730 >DM93CO,3336.1 N/10148.0 W?R0MIR*:25W 4.5dBd Omni @ 65'
```

Have fun you low Latitude guy's

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

379. Re: [APRSSIG:5983] RE: !!! BEST SATELLITE TRACKING PROG. !!!

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sun, 14 Jan 1996 10:35:05 -0700
To: aprssig@tapr.org
Message-ID: <199601141734.KAA22869@usr5.primenet.com>
Rendered body type: text/plain

At 08:55 PM 1/13/96 -0600, you wrote:
>
>Reference the earlier note as to where to find the 'best tracking
>program', there are several dozen good programs available.
>
>The Shuttle Orbiter Program (SOP95XX.ZIP) in its latest release
>may be found in File Area 28 on the Dallas Remote Imaging Group
>BBS at 214-492-7057   (telnet bbs.drig.com)
>
>See the listing in the Files section (area 28).
>
>de n5itu
>
>Can it be found anywhere on the "net"???
Thanks, Alan
Alan K. Unangst, WC7R
alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

380. Earlier report not SPRE?

From: DDOBBINS@aol.com
Date: Sun, 14 Jan 1996 12:36:13 -0500
To: aprssig@tapr.org
Message-ID: <960114123612_41386825@mail02.mail.aol.com>
Rendered body type: text/plain

Been an hour since I posted msg ref SPRE/STS-72 visual sighting over Hawaii. Am wondering if what I observed one hour ago (vice 90 mins ago) was another space object (or two). I don't have a tracking program on my Mac. At 0725

```
(1725Z) just heard SPRE telemetry. Got several successful digis thru W3EAX,
so perhaps I'm logged on the system. What'll that get me? A free cup of Kona
coffee??? Signals only lasted about two mins. Will listen again about 0900.
Still no report from the school doing the ground station telemetry relay to
UofM over internet. Sun just came up here, going to be (another) lovely day
here. Aloha, Dave.
```

---

381. Re: [APRSSIG:5968] Magnavox GPS Engine

From: jra@ag9v.ampr.org
Date: Sun, 14 Jan 1996 13:18:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199601141818.NAA17358@ag9v.ampr.org>
Rendered body type: text/plain

```
Hate to be a "me too" but I just got a Magnavox 4200 unit as well (probably
from the same source as Bob).  The unit arrived, but the promised documentation
hasn't shown up yet.  Any pointers would be appreciated -- I understand the
Magnavox GPS line has been taken over by Leica, but I don't have any info on
how to reach them.

John  AG9V
---------
You (bob) write:
>
>Hi There
>
>Just got a Magnavox GPS Engine. Does anyone have any info on its
>connections, power requirements and software configuration?
>
>Any info appreciated, plan to use it as permenant car location tracker with
>APRS.
>
>73 de bob w2/g3zfj
>
>EMail w2g3zfj@unix.asb.com
>



--
John Ackermann   AG9V
Internet:  jra@ag9v.ampr.org
Packet:    AG9V@N8ACV.#DAY.OH.USA
```

---

382. 80 Activity

From: Jim Prentice WA2MZF QCWA 27911 <PRENTICE@scanva.canton.edu>
Date: Sun, 14 Jan 1996 13:40:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I003HRBZPE001B3Z@scanva.canton.edu>
Rendered body type: text/plain

```
I just set up on 80 meters last night. Running 850s and pk232
freq of 3.5855 and was able to get wd9abe at 132340z.

I am located in Canton New York, about 100 miles west of Montreal Canada

Possible Pa, New York and other areas might have a small network ?
```

---

383. Re: [APRSSIG:5998] Earlier report not SPRE?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 13:45:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960114133920.874C-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 14 Jan 1996 DDOBBINS@aol.com wrote:

> At 0725 (1725Z) just heard SPRE telemetry. Got several successful digis
> thru W3EAX,  so perhaps I'm logged on the system. What'll that get me?

WB4APR REPLY COMMENT:

A warm feeling.  Especially in hawaii.  SPRE keeps no record, so
everyone, save EVERY APRS packet and forward to me.  Actually, Im only
going to collect ONE posit per station, so all I need is the POSIT
beacon.   BUT, do add up some statistices and forward them also...
Save ALL SPRE data thoug, in case SPRE neede
s it.

What I would eventually like to put together is a SPRE-W.BK, SPRE-TX.bk
```

and a SPRE-E.bk. So someone in each of those areas could accumulate all posits recorded and send them in...

---

384. First APRtrak SPRE Posit!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 14:03:38 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960114135722.924A-100000@greatlakes>
Rendered body type: text/plain

JJ1WTK reports that JG1KOE copied APRS posit from BV1AF in grid square PL04VQ.

BUG! When I used the OPS-FIND-[PL04VQ command I found that the LAT was 4401.10 but the LONG was 21407.40W. Its in the right place, but it is beyond the date line and should actualy be plotted in EAST longitude.

So SUBTRACT the 21407.40W from 360 and you get 14552.60E and that puts him on the north coast of Saporro!

This bug is proabably in all versions of APRS too. Sorry to you EASTern hemisphere folks..

---

385. MAKE MAPS 100K v2

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 15:39:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960114153524.1243A-100000@greatlakes>
Rendered body type: text/plain

I just got the latest from KB4XF. His latest version of MKMAPHK2 I have renamed to MK100v20.zip to allow room for more version numbers. Again, it will not KERMIT to my FTP site, so I am posting it on 410 280-2503. First person that gets it an FTPS it, let us know. Here is what Jack says about this new version:

Make Map Hundred Kbyte CD Version 2.0   mk100v20.EXE   27 Dec 95

New features added in this version

- A default map data sub-directory name of c:\dlg has been created

- The code now handles either 82 byte blocked records from the CD or 80 byte unblocked records from the USGS ftp site. ('Blocked' means a carriage return and line feed are added to the end of each record or line of data or card image)

- The code now permits 1,4 or 9 maps centered about the user's input coordinates to be produced in a single session. Pauses in the code (Hit any key to continue) are eliminated when 4 or 9 maps are being produced.

- The user's map radius of 1, 2, 4, 8 etc nautical miles is automatically increased by five percent so that adjacent maps will overlap and APRS will use the map as soon as possible.

- Shore lines and river banks are decimated by writing to disk only every other point. This worked well with the 2 Mbyte maps as there are more points per inch in the hydrographic files than in the road files.

- The progress line at the top of the screen now shows what map is being made.

- An error message that is issued when no map file can be found for the desired map has been expanded to show the four corners of the last USGS map file examined and the user's map center coordinates and map radius.

Thoughts on any future Version 3

- The multi-map production feature could be expanded to include 16 or 25 maps at once. However, drawing little boxes on the input screen is tedious, boring and not much fun. Does anyone have any ideas on how to identify each map when making this many at a time?

- There are one or two bugs that cause a line segment to be missed now and then. If I transport this code to a faster machine (my wife's) I may be able to find and fix them.

- I am still wary of how this code will perform in regions with extensive shorelines such as tidewater Virginia or Lousiana bayous. I need user feedback on this.

- No Windows support is planned. Anyone skilled in Visual Basic or Visual C is more than welcome to take a crack at this.

- If there is an overwhelming need for railroads, canals, trails, etc, a switch could be added.

Jack Cavanagh, KB4XF
Falmouth, VA
kb4xf@kc4asf.va.usa

---

386. Re:

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 14 Jan 1996 13:10:29 -0800
To: "n2czf@gate.net" <n2czf@gate.net> (Return requested),
"aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <05BCF30F97145001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

I'm at 3411.5 by 11806.5 at 1500' amsl.

______________________________ Reply Separator _________________________________
Subject: Author: n2czf@gate.net at Internet
Date: 1/13/96 7:46 AM

But where are YOU Jon ??

Glad to see there is other activity but 80m on Friday night was ZIP, nada, nothin, nine, niet! Never seen it like that thought antenna had fallen, nothing Saturday morning either, moved the radio to 30M and I do hear activity while typing this so I guess the radio is still working!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

387. Space mode

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sun, 14 Jan 1996 16:25:23 +0000
To: aprssig@tapr.org
Message-ID: <199601142127.QAA04659@hemisphere.neocomm.net>
Rendered body type: text/plain

Ok I am giving APRS /Space mode a try tonight.
I did an <alt> S   and selected space mode.
My beacon is off
unproto is W3EAX
mxmit is off
I zeroed files
loaded MIR.bk
changed freq. to 145.55 on a low G6 hustler at rooftop level.

Did I forget anything?

Can I again hit files zero to get rid of the positions showing on my screen or perhaps delet them??? How much of the mir.bk file is really needed to arm the program. It would be nice to start with a clean positions menu and screen. thank you Charles
cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

388. Re: [APRSSIG:6005] Space mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 17:49:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960114174613.1580B-100000@greatlakes>
Rendered body type: text/plain

On Sun, 14 Jan 1996, Charles W. Davidson wrote:

> Ok I am giving APRS /Space mode a try tonight.
> I did an <alt> S and selected space mode.
> unproto is W3EAX
> mxmit is off
> loaded MIR.bk
> changed freq. to 145.55 on a low G6 hustler at rooftop level.

WB4APR REPLY COMMENT:

There is no reason to load MIR.BK. It was just an old sample file.
Only if you are running APRtrak do you load SPRE.BK. This is to tell
APRtrak to activate the special telemetry equations for SPRE's unique format.

Normal APRS does NOT know how to decode the unique SPRE telemetry.

389. Plotting SPRE posits

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 17:59:43 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960114175127.1580C-100000@greatlakes>
Rendered body type: text/plain

If you saved raw SPRE packets to a text file, there is no direct way to
plot them on the APRtrak/APRS maps. But it is relatively easy to put
them there yourself.

1) Do an OPS-FIND-[gggggg to have APRtrak/APRS move the cursor to that
   grid square
2) Next do an INPUT-ADD at that location and enter the station CALLSIGN

EASTERN HEMISPHERE: If step (1) puts you at a LONGITUDE greater than 180
degrees, then subtract the LONGITUDE from 360 and when you do step (2)
simply enter the DIFFERENCE as longitude EAST. Remember you are
subtracting degrees and minutes...

390. SPRE telemetry time

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 14 Jan 1996 17:05:06 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad1f39120bbd@[199.1.11.129]>
Rendered body type: text/plain

Is the time reported in the telemetry UTC (The GPS time) ?
I thought it was but the report from Hawaii has it in local time.

Did a APRtrak cause the logged time to be different ???

```
----------------
>> Copied the following sentence at 0136 Hawaii time (1136Z):
> >W3EAX>WORLD/V:GPS_LOCATION 01:36:427 44413000001003
-----------------
```

Was this an E-mail error or is the SPAR so smart it know
the local time under it :-)

Also is this the only Four telemetry formats ???

```
--------------- Data from earlier post -------------
W3EAX>WORLD:REFLEX 01:17:36>AA55800000000000000000000000000000000000000000000000
W3EAX>WORLD:SPRE_TELEM 01:17:57>00:8B 01:9A 02:00 03:9B 04:00 05:CF 06:00 07:ABC
W3EAX>WORLD:GPS_TIME 01:17:48>414759DF130344413000001003
W3EAX>WORLD:GPS_LOCATION 01:17:26>83414773605845C9D341551D31EC81FE6641404B83ED33
-----------------------------------------------------
```

The output data rate for each format seems different. ie time is each
frame is not greater than the last.

If we just sort the data from all over the world by telemetry time the
data set relation is lost.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

391. APRtrak/APRS Grid bug!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 14 Jan 1996 18:26:08 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org

Message-ID: <Pine.SUN.3.91.960114181348.1774B-100000@greatlakes>
Rendered body type: text/plain

```
I thought there was something fishy about a BV1AF being on the northern
coast of Hokaido.  When I moved my cursor to Hokaido  and used the
MAPS-PLOTS-GRIDSQ command I got a different GRID!  Then I  hunted with
the cursor and the MAPS-PLOTS-GRID command and located the CORRECT
position for PL04vq as being on the North East coast of Tiawan!

The MAPS-PLOTS-GRID command has always worked correctly.  Apparently
running through the same routine in reverse with the OPS-FIND command
DOES NOT WORK for EAST longitudes...  SOrry

So my last message that said simply subtract the long from 360 does NOT
give the right answer either...  Ill fix APRtrak tonight an post a
revised version by 1700z on the 15th.  In the mean time, for EAST
longitudes you will have to move the cursor and hit MAPS-PLOTS-GRID until
you find the location of the grid.
```

---

392. Re: [APRSSIG:5943] IPHONE

From: ndavis@spider.lloyd.com (Norman Davis)
Date: Sat, 13 Jan 1996 16:04:15 +0000
To: aprssig@tapr.org
Message-ID: <m0tbcQe-000TswC@spider.lloyd.com>
Rendered body type: text/plain

```
>  I load Iphone most everytime I get on the internet.

Where can I find IPHONE.

Norman Davis WB6SHI
Email ndavis@spider.lloyd.com
      72057,1722@compuserve.com
      I love Hot cars,Planes and
      Trains. Basicly anything that moves.
```

---

393. RE: [APRSSIG:5997] RE: !!! BEST SATELLITE TRACKING PROG. !!!

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Sun, 14 Jan 1996 20:03:45 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960114200345.2040ea92@exame2.dseg.ti.com>
Rendered body type: text/plain

```
I found the SOP95xx.ZIP files through the spacelink FTP site:

    spacelink.msfc.nasa.gov

you can find it on the WEB as http://spacelink.msfc.nasa.gov

The files are five levels deep in directories, as follows:

     Instructional.Materials
       Software
         IBM.PC
           Satellite.Tracking
             STSOrbit.Plus

You will need all the files in that last directory - If I remember right,
there are six of them. The most recent version of the STSPlus program is
9548.

The files are also obtainable from:

     RPV Astronomy BBS

     (310) 541-7299

     Regards, Claude
              K5DTN
```

---

394. Re: [APRSSIG:5994] More SPRE-APRtrak/APRS notes

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Sun, 14 Jan 1996 20:17:25 -0600
To: aprssig@tapr.org, ksproul@hardees.Rutgers.EDU
Message-ID: <9601142017.AA25556@oscar.telalink.net>
Rendered body type: text/plain

```
>  Here is an explaination of some details of APRtrak/APRS:
>
> SPACE MODE:  Enables parsing of grid squares in the TO field.
> (GRID-IN-TO)
>              Puts YOUR gridsquare in your TNC TO field. ARMS the
>              program to reset its POSIT/BCN timers when it
>                   hears a packet from the space DIGIpeater.
>              Toggle it on and off with alt-S-MODES-SPACE command
>
> ARMED:       Shows you that SPACE mode is set and awaiting a pass
>
> SUCCESS:     In SPACE mode, shows that your XMTed packet was seen.
>              Resets your POSIT/BCN timers to max (9 minutes)
>              DISABLES ARMED mode for 9 minutes, then restores
>                       ARMED mode after the pass is over
>
> NOTE:  APRtrak defaults to always monitor for GRID-IN-TO packets, but
> APRS does NOT.  If you are NOT in SPACE mode in APRS, then you will
> NOT plot the position of packets, since it will ignore packet not sent *
> TO* APRS.  To override this, in APRS, toggle on
> CONTROLS-FILTERS-GrdTO.  This will let you receive GRID-IN-TO packets
> but your TNC will not be configured to XMT them.
>
> GRID-IN-BCN:   This MODE places your gridsquare preceeded with an "@"
> and
>                ending with a "]" in both your POSIT and your BEACON.
>                ALL versions of APRS will always decode this packet, but
>                it is not as SHORT as the GRID-IN-TO format.
>
> Hope this helps...
>
>

Keith,

Will MacAPRS support these modes? I am not aware of it but thought that
because of the parallel developnet of APRS/MacAPRS/WinAPRS it probably should.

Just asking,

Bruce, KQ4TV
```

---

395. Re: SPRE telemetry time

From: "JJ1WTK Kazu Sakamoto" <jj1wtk@os.gulf.or.jp>
Date: Mon, 15 Jan 96 11:37:05 +0900
To: aprssig@tapr.org
Message-ID: <54748.jj1wtk@os.gulf.or.jp>
Rendered body type: text/plain

```
Bob, KC5EJK's question;

>Is the time reported in the telemetry UTC (The GPS time) ?
>I thought it was but the report from Hawaii  has it in local time.

>> Copied the following sentence at 0136 Hawaii time (1136Z):
> >W3EAX>WORLD/V:GPS_LOCATION 01:36:427 44413000001003

I think the time is SPRE Kernel Time.
Thus it's the time of after SPRE is initiated.

---
 73,de Kazu Sakamoto,JJ1WTK <jj1wtk@os.gulf.or.jp> <jj1wtk@amsat.org>
!
```

---

396. Re: [APRSSIG:6010] Re: IPHONE

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sun, 14 Jan 1996 21:49:09 +0000
To: aprssig@tapr.org
Cc: Iphone@hemisphere.neocomm.net
Message-ID: <199601150250.VAA09897@hemisphere.neocomm.net>
Rendered body type: text/plain

```
Vocaltech`s home page is
http://www.vocaltec.com
cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
```

WB4PAN@WB4QOJ.VA.USA.NOAM

397. Re: [APRSSIG:6008] SPRE telemetry time

From: DDOBBINS@aol.com
Date: Sun, 14 Jan 1996 22:00:22 -0500
To: aprssig@tapr.org
Message-ID: <960114220008_41851281@emout05.mail.aol.com>
Rendered body type: text/plain

Note: the time reported in my SPRE signal reception was local time, not gmt, and came off of MacAPRS, not APRTrak. I believe MacAPRS properly decoded the report to show me local time. Aloha, Dave.

398. Re: [APRSSIG:5969] !!! BEST SATELLITE TRACKING PROG. !!!

From: Barbara Fehner <fehner@cts.com>
Date: Sun, 14 Jan 1996 19:42:48 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960115034248.0067eb88@mail.cts.com>
Rendered body type: text/plain

Dave Ransom's superb satellite orbit simulator, STSORBIT PLUS, can be found on the net at:

http://spacelink.msfc.nasa.gov/Instructional.Materials/Software/IBM.PC/

The latest files are sop9548a.zip, sop9848b.zip, and earth3.zip. The current keps are at:

http://spacelink.msfc.nasa.gov/Instructional.Materials/Software/Tracking.Ele
ments/

The software is DOS based for a 386 or better processor with a math co-processor. It is fully functional and he only asks for a $10 donation. This program is the best example of graphics based DOS programing that I have ever seen and is very well behaved when run in a win3.1 or win95 full screen dos window. Compare this to some crippled shareware programs with registration fees of 2 to 4 times as much.

Dave's RPV ASTRONOMY BBS is at (310) 541-7299 @ 2400-14400 Baud.

Barbara KK6IB
E-Mail: fehner@cts.com

____
At 02:26 PM 1/13/96 -0600, you wrote:
>Just a quick note:
>
>For a GREAT satellite tracking program checkout ==> STSPLUS !!!
>Can be found on Celestial BBS ==> 513-427-0674. I'm pretty
>sure this number is correct... I will repost later if not
>(I'm at work)..... That may be an old number.....
>
>The files are labeled SOP95XX.ZIP; there should be two of them.
>
>IT HAS THE BEST GRAPHICS OF ANY SATELLITE TRACKING PROGRAM I'VE SEEN !!!!!
>
>Check it out and let me know what you think!!!
>
>ENJOY !!!!
>
>Rich
>
>HM: rjean@dinfsvs.com
>WK: jean@si.com
>
>
>

399. SPRE Results

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 14 Jan 1996 22:39:58 -0500
To: <aprssig@tapr.org>
Message-ID: <199601150339.WAA19319@brickell.bridge.net>
Rendered body type: text/plain

First pass over extreme South Florida showed surprisingly good results, despite low (4 degree) max elevation. Here is what I copied:

```
W3EAX>WORLD [01/14/96 22:28:38]:REFLEX
13:14:34>AA5580FFFF022900000000000000000001
W3EAX>WORLD [01/14/96 22:28:39]:REFLEX
13:14:34>AA5580FFFF01280000000000000000000F
W3EAX>WORLD [01/14/96 22:28:57]:SPRE would like to thank the following
for test:
Ben Schultz (KE30M), Jim Nichols  (N4ZTC), Andy Guenther (N3NRP)
KO4HD-2>EL95US,W3EAX* [01/14/96 22:29:46]:45 watts 6 db omni
KT4FI>EL96UD,W3EAX* [01/14/96 22:29:53]:APRS 0.5 on line.
KE4YGT>EL98QC,W3EAX* [01/14/96 22:30:08]:Mike/MelbourneFL
KA1VRF>EL97TO,W3EAX* [01/14/96 22:30:26]:wayne vero beach
W3EAX>WORLD [01/14/96 22:30:30]:REFLEX
13:16:33>AA55801005000200077FB39667000002
W3EAX>WORLD [01/14/96 22:30:31]:REFLEX
13:16:33>AA558011060000008E77AE9663000006
W3EAX>WORLD [01/14/96 22:30:32]:REFLEX
13:16:33>AA55801207000300EA709A9660000007
W3EAX>WORLD [01/14/96 22:30:33]:REFLEX
13:16:33>AA55801308000000F86AB1965D000001
W3EAX>WORLD [01/14/96 22:30:37]:REFLEX
13:16:33>AA558014000000009F65B6965A000002
W3EAX>WORLD [01/14/96 22:30:38]:REFLEX
13:16:34>AA55801600000000625CC59655000008
W3EAX>WORLD [01/14/96 22:30:39]:REFLEX
13:16:34>AA558017000004005E58A6965300000C
W3EAX>WORLD [01/14/96 22:30:40]:REFLEX
13:16:34>AA55801800000000AF54E19652000007
W3EAX>WORLD [01/14/96 22:30:52]:SPRE_TELEM 13:16:57>00:74 01:83 02:00
03:857
W3EAX>WORLD [01/14/96 22:30:52]:GPS_TIME
13:16:54>4147C0BC870344413000001003
KE4QIZ>EL97SS,W3EAX* [01/14/96 22:30:57]:25w at 30 ft.
W3EAX>WORLD [01/14/96 22:31:21]:GPS_TIME
13:17:26>4147C0CD0D0344413000001003
W3EAX>WORLD [01/14/96 22:31:22]:GPS_LOCATION
13:17:11>83C15519336EE6F8EBC14BD183
W3EAX>WORLD [01/14/96 22:31:31]:REFLEX
13:17:33>AA55801A000000002C4EB9964E000004
W3EAX>WORLD [01/14/96 22:31:31]:REFLEX
13:17:33>AA55801B00000000464B95964D000080
K3CEW>EL97QP,W3EAX* [01/14/96 22:31:43]:30 watts to vertical
W3EAX>WORLD [01/14/96 22:31:51]:GPS_TIME
13:17:44>4147C0D5B40344413000001003
```

Can't wait for next pass!

Steve KO4HD

---

400. Re: [APRSSIG:5954] 80m traffic

From: Dick Mead <mead@skat.usc.edu>
Date: Sun, 14 Jan 96 20:12:55 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.821679175.mead@sol.usc.edu>
Rendered body type: text/plain

>
> This evening at 0328z I received a position packet from KJ7HZ-1 somewhere around
> SLC (4031.48N,11150.55W). Freq was 3584.8kHz. Also got position packet from
> WB6NGC but he's only 6 miles away.
>
> 73 - Jon NW6H
>
>

Yeah, but I was only running 15 watts ;)

Dick WB6NGC

---

401. SPRE

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 15 Jan 1996 00:19:18 -0500
To: aprssig@tapr.org
Message-ID: <199601150519.VAA25182@ix12.ix.netcom.com>
Rendered body type: text/plain

My copy here in Charlotte, NC, wonder if anyone copied my station?

73 de Bill WA4VAF

402. Pass 2 results

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 15 Jan 1996 00:23:35 -0500
To: <aprssig@tapr.org>
Message-ID: <199601150523.AAA08606@brickell.bridge.net>
Rendered body type: text/plain

Even better reception on pass 2, lots of telemetry. These were the beacons I heard:

```
KD4RSX>APRS,W3EAX* [01/15/96
00:05:42]:@142304/3036.79N/08655.62W-PHG7430/RANDA1
KT4FI>EL96UD,W3EAX* [01/15/96 00:06:22]:Dennis Sunrise,FL 50w/8db
omni/30ft
KD4UYR>EL87OU,W3EAX* [01/15/96 00:06:25]:APRS 7.4e on line.
KD4SEV>EM60SJ,W3EAX* [01/15/96 00:07:08]:APRS 0.5 on line.
WA3RWP>FM18OV,W3EAX* [01/15/96 00:07:58]:160W INTO 6DB OMNI
```

Steve

---

403. SPRE results 1505005

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 00:38:44 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960115002658.2483A-100000@greatlakes>
Rendered body type: text/plain

It worked! But I forgot to load the SPRE.BK file, so I didnt decode any telemetry this first pass... Dont load it after you are into the pass unless you do a FILE-SAVE first or you will loose what you have. Here is the BACKUP file for this pass. One full page of contacts in the SOutheast...

Please, if you are going to post a BACKUP file like this one, edit out ALL LOCALS that were not VIA W3EAX and also all of the lines from the "a" page. Remember to edit the locals out of the "l","p" and "h" pages too.

```
-----------CUT HERE AND SAVE AS A BACKUP FILE -------------------------c,
26.69718 , 80.58118 , 1024
l,W3ADO     111220 @111220/APRS 0.5 on line.
l,WB4APR    142357 @142357/NewUser
l,W3EAX     150009 GPS_TIME 14:56:04>4147CC5F390344413000001003
l,WA4VAF    150006 >EM95RF,W3EAX* <UI C>:APRS 0.5 on line.
l,KT4FI     150006 >EL96UD,W3EAX* <UI>:Dennis Sunrise,FL 50w/8db omni/30ft
l,K3CEW     150006 >EL97RP,W3EAX* <UI R>:35 watts to ringo
l,WA6RTX    150006 Bill - Lakeland, Fl
l,KE4QIZ    150006 >EL97SS,W3EAX* <UI>:25 watts into 3 el Yagi
l,KO4HD-2   150006 >EL95US,W3EAX* <UI>:Steve 45W,6dBomni@20ft
l,KE4YGT    150006 >EL98QC,W3EAX* <UI>:50w into 5el 2m beam
l,KD4SEV    150006 >EM60SJ,W3EAX* <UI>:APRS 0.5 on line.
l,KE4LQF    150006 >EL98QA,W3EAX* <UI>:BREVARD CO. FL.
l,KD4RSX    150007 @142253/APRS 7.4 on line.
l,N4ZQ      150007 >EL87UX,W3EAX* <UI>:N4ZQ@aol.com
l,N3OBQ     150008 >FM19XN,W3EAX* <UI C>:HI WORLD!
l,N3EZD     150008 >FM19OF,W3EAX* <UI>:APRS 7.4e on line.
p,WB4APR    142357 @142357/3909.00N/07636.00W/NewUser
p,W3EAX     150008 @151455z2026.80N/03737.64ES Spartan SPRE/A=706851
p,WA4VAF    150006 >EM95RF,3514.1 N/08032.4 W?W3EAX* <UI C>:APRS 0.5 on line.
p,KT4FI     150006 >EL96UD,2609.3 N/08018.1 W?W3EAX* <UI>:50w/8d
p,K3CEW     150006 >EL97RP,2738.4 N/08032.4 W?W3EAX* <UI R>:35 watts to ringo
p,KE4QIZ    150006 >EL97SS,2746.4 N/08027.6 W?W3EAX* <UI>:25w 3 el Yagi
p,KO4HD-2   150006 >EL95US,2546.7 N/08018.0 W?W3EAX* <UI>:45W,6dB omni
p,KE4YGT    150006 >EL98QC,2806.4 N/08037.2 W?W3EAX* <UI>:50w 5el beam
p,KD4SEV    150006 >EM60SJ,3023.9 N/08627.5 W?W3EAX* <UI>:APRS 0.5 on line.
p,KE4LQF    150006 >EL98QA,2801.4 N/08037.9 W?W3EAX* <UI>:BREVARD CO. FL.
p,KD4RSX    150007 @142306/3036.79N/08655.62W-PHG7430/RANDALL, MAILBOX
p,N4ZQ      150007 >EL87UX,2758.6 N/08215.7 W?W3EAX* <UI>:N4ZQ@aol.com
p,N3OBQ     150008 >FM19XN,3933.5 N/07602.0 W?W3EAX* <UI C>:HI WORLD!
p,N3EZD     150008 >FM19OF,3913.5 N/07646.3 W?W3EAX* <UI>:APRS 7.4e on line.
h,TIME      , 23  0 , 999
h,WB4APR    , 2  0 , 999
h,W3EAX     , 0  55 , 999
h,WA4VAF    , 0  1 , 999
h,KT4FI     , 0  1 , 999
h,K3CEW     , 0  1 , 999
h,WA6RTX    , 0  1 , 999
h,KE4QIZ    , 0  1 , 999
h,KO4HD-2   , 0  2 , 999
```

```
h,KE4YGT    , 0  1 , 999
h,KD4SEV    , 0  1 , 999
h,KE4LQF    , 0  1 , 999
h,KD4RSX    , 0  2 , 999
h,N4ZQ      , 0  1 , 999
h,N3OBQ     , 0  2 , 999
h,N3EZD     , 0  1 , 999
```

---

404. SPR RESULT

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 15 Jan 1996 00:47:22 -0500
To: aprssig@tapr.org
Cc: wricharz@ix.netcom.com
Message-ID: <199601150547.VAA19969@ix4.ix.netcom.com>
Rendered body type: text/plain

```
Copied this at Charlotte, N.C. at 00:04 EST.  Anyone copy this station?
```

---

405. Bogging down APRS

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Sun, 14 Jan 1996 22:52:36 -0800
To: aprssig@tapr.org
Message-ID: <199601150652.WAA24381@aretha.llnl.gov>
Rendered body type: text/plain

```
> From: rwf <rwf@mindspring.com>
>
> >Maybe it would get people to slow down their beacons which currently bog down
> >APRS.
> >
>
> Please elaborate what you mean.  WX beacon reporting rate?  Over VHF, HF?
>
> Position reports from fixed stations (rate controlled by APRS program)
>
> or Mobile GPS reports?
>

I mean position reports from fixed stations, in the SF Bay area.  Most of the
traffic is beacons from fixed stations with periods of five minutes or less.
It may not be so bad as to actually "bog down" APRS in this area yet, but they
are the vast majority of packets, and set a bad example for new users.

It would be more interesting to see more incomming WX, HF, and mobile traffic.

Once in a while, I see a "mobile" GPS station which is parked
somewhere. Sending out the same position report once a minute to
WIDE,GATE,GATE,WIDE. I assume this is not helping anyone.

Perhaps the APRS program could detect that your position has not changed from
the last beacon, and reduce the reporting rate.  This would help for fixed and
"mobile" stations.

Chuck
```

---

406. SPRE pass 150139z

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 02:13:31 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960115020147.2718B-100000@greatlakes>
Rendered body type: text/plain

```
OK,  11 more stations on that pass for a total reported of 27 so far today.
Here is what it looked like from way up north (40 deg latitude) 7 deg pass.

DO NOT ATTEMPT TO CONNECT TO SPRE. PLEASE!  THAT REQUEST CAME FROM SPRE
CONTROL.

Here is the pass with the "a" page and locals edited out...
-------------------------cut here --------------------
c, 28.714 , 83.16202 , 1024
l,W3ADO     150141 @150141/25w 12 db beam
l,W3EAX     150144 >G3ZCZ <D C P>
l,WB4APR    150140 @150140/NewUser
l,N9AB      150140 >EN52XG,W3EAX* <UI>:
l,N8AAQ     150140 >EN81RJ,W3EAX* <UI>:APRS 0.5 on line.
l,WA3RWP    150153 >FM18OV,W3EAX <UI C>:160W INTO 6DB OMNI
l,KK2L      150141 >EL86WX,W3EAX* <C C P>
l,N3OBQ     150141 >FM19XN,W3EAX* <UI C>:HI WORLD!
```

```
l,KE4QJH    150142 >FM18CN,W3EAX* <UI>:APRS 0.5 on line.
l,W0QDP     150142 >FM18AG,W3EAX* <UI C>:73 from Orange, Va.
l,N2MSM-14  150142 @150149/T030/R.../P.../U-II(auto)
l,WA7ZZB    150142 >FM19SD,W3EAX* <UI C>:
l,N2NRD     150142 >FM29LQ,W3EAX* <UI C>:170W/13EL
l,WA6RTX    150143 Bill
l,WA4VAF    150143 >EM95RF,W3EAX* <UI C>:APRS 0.5 on line.
l,KC4NHB    150143 >EL97SN,W3EAX* <UI C>:@EL97sn] 25 Watts 5/8 Omni
l,KO4HD-2   150143 >EL95US,W3EAX* <UI>:Steve...45W-6dB omni@20ft
l,KA3DBK    150144 scout@cent.com
p,W3EAX     150143 @151630z2543.93N/03233.15ES Spartan SPRE/A=622498
p,WB4APR    150153 >FM19QD,3909.1 N/07638.4 W?W3EAX <UI R>:25w 6dB omni
p,N9AB      150140 >EN52XG,4216.2 N/08802.7 W?W3EAX* <UI>:
p,N8AAQ     150141 >EN81RJ,4123.6 N/08232.7 W?W3EAX* <UI>:McCormick Mid Schl
p,WA3RWP    150153 >FM18OV,3854.1 N/07647.6 W?W3EAX <UI C>:160W INTO 6DB OMNI
p,KK2L      150144 >EL86WX,2659.1 N/08207.9 W?W3EAX* <D C P>
p,N3OBQ     150141 >FM19XN,3933.5 N/07602.0 W?W3EAX* <UI C>:HI WORLD!
p,KE4QJH    150142 >FM18CN,3833.9 N/07747.6 W?W3EAX* <UI>:APRS 0.5 on line.
p,W0QDP     150142 >FM18AG,3816.2 N/07756.8 W?W3EAX* <UI C>:73 Orange, Va.
p,N2MSM-14  150142 @150149/Terrestrial Posit _202/000/T030/R.../P.../U-II(auto)
p,WA7ZZB    150142 >FM19SD,3909.1 N/07627.0 W?W3EAX* <UI C>:
p,N2NRD     150142 >FM29LQ,3941.0 N/07501.3 W?W3EAX* <UI C>:170W/13EL
p,WA4VAF    150143 >EM95RF,3514.1 N/08032.4 W?W3EAX* <UI C>:APRS 0.5 on line.
p,KC4NHB    150143 >EL97SN,2733.9 N/08027.7 W?W3EAX* <UI C>:25 5/8
p,KO4HD-2   150143 >EL95US,2546.7 N/08018.0 W?W3EAX* <UI>:Steve.45W-6dB omni
h,TIME      , 12  1 , 999
h,W3EAX     , 16  57 , 999
h,WB4APR    , 0  1 , 999
h,N9AB      , 0  1 , 999
h,N8AAQ     , 0  3 , 999
h,WA3RWP    , 0  1 , 999
h,KK2L      , 0  4 , 999
h,N3OBQ     , 0  1 , 999
h,KE4QJH    , 0  1 , 999
h,W0QDP     , 0  1 , 999
h,N2MSM-14  , 0  1 , 999
h,WA7ZZB    , 0  1 , 999
h,N2NRD     , 0  1 , 999
h,WA6RTX    , 0  1 , 999
h,WA4VAF    , 0  1 , 999
h,KC4NHB    , 0  1 , 999
h,KO4HD-2   , 0  1 , 999
h,KA3DBK    , 0  1 , 999
```

407. Dallas First Pass (WOW!)

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 15 Jan 1996 01:13:13 -0600
To: aprssig@tapr.org
Cc: sdimse@bridge.net
Message-ID: <v02130500ad1fac461e0d@[199.1.11.121]>
Rendered body type: text/plain

Here is RAW logged data from the TNC in " PASSALL ON" mode.
Monday Morning 12:35 AM CST - 11 Deg pass. using Omni. Strong signal !!
As the Passall was on there are a few data errors.
I think I editted out all the LOCAL packets.
Next pass I'll use APRTrak on my MAC

```
--------------------
W3EAX*>WORLD:GPP_TIMF 16:R2:13>414D680203444110001003
W3EAX*>WORLD:wPSAbltddtnj|hbhnLs`r`fhhk
W3EAX*>WORLD:REFLEX 16:23:33>AA558021002B0000973D7D9646000040400222002C0000C83B8
W3EAX*>WORLD:REFLEX 16:23:33>AA558022002C0000C83B7D96450000803F2223002D0000123A0
W3EAX*>WORLD:REFLEX 16:23:33>AA558023002D0000123A7D9644006000008E24002E000075381
W3EAX*>WORLD:REFLEX 16:2S:33>AA558024002E000075387D964300000000EA25002F0000EF36F
W3EAX*>WORLD:REFLEX 16:23:33>AA558026003000007D357D9642000020414E27003100001E342
W3EAX*>WORLD:REFLEX 16:23:33>Aq558027003100001E348496410000A841862800320000D032A
W3EAX*>WORLD:REFLEX 16:23:34>AA558028003200000D0327C96400000C0412E290033000093312
W3EAX*>WORLD:REFLEX 16:23:34>AA5580290033000093317F9640000064421E2A0034000065304
W3EAX*>WORLD:REFLEX 16:23:34>AA55802A00340000653080963F00009A422A2B00350000442F9
N5ITU>W3EAX*>EM13NA:Dallas Remote Imaging Group sysop@drig.com
N5ITU>W3EAX*>EM13NA:Dallas Remote Imaging Group sysop@drig.com
KD4SEV>W3EAX*>EM60SJ:APRS 0.5 on line.
W3EAX*>WORLD:GPS_TIME 16:23:51>4147D6B107034441300000l003
W3EAX*>WORLD:GPS_LOCATION 16:23:02>83C1584B40EB02F810C122A68BA28584E4413D6761ED3
KD4SEV>W3EAX*>EM60SJ:APRS 0.5 on line.
WA5SLG>W3EAX*>EM22IH:35w 6di vertical
KK2L>W3EAX*>E86WX [C]
KD4UYR>W3EAX*>EL87OU-3:APRS 7.4e on line.
```

```
N5ITU>W3EAX*>EM13NA:Dallas Remote Imaging Group sysop@drig.com
W3EAX*>WORLD:SPRE_TELEM 16:24:27>00:70 01:7F 02:00 03:81 04:00 05:CF 06:00 07:A3
W3EAX*>WORLD:GPS_TIME 16:24:24>4147D6C10B034441300001003
W3EAX*>WORLD:GPS_LOCATION 16:24:04>83C157DC391C7BC090C12F75818156D54841401C7B973
W3EAX*>WORLD:REFLEX 16:24:33>AA55802C00360800312E77963E00C8A5451E2D003700002B2DC
W3EAX*>WORLD:REFLEX 16:24:33>AA55802D003700002B2D78963E00982D4522211E000000FFFF9
W3EAX*>WORLD:REFLEX 16:24:33>AA5580211E000000FFFF779652000000019221F0000004FF97
W3EAX*>WORLD:REFLEX 16:24:33>AA5580221F0000004FF97E96510000803F0123200000002FF22
WB5QLD>W3EAX*>EM12JU:40W @ 25ft
W3EAX*>WORLD:REFLEX 16:24:33>AA558023200000002FF27D964F00000000019242100000075EBA
W3EAX*>WORLD:REFLEX 16:24:33>AA558024210000075EB78964E000000000525220000018E54
W3EAX*>WORLD:REFLEX 16:24:34>AA558025220000018E57A964D0000803F5D262300000011DF4
W3EAX*>WORLD:REFLEX 16:24:34>AA5580262300000011DF7E964C0000000D1272400000059D99
W3EAX*>WORLD:REFLEX 16:24:34>AA5580272400000059D977964B00000000912825000000EAD32
KB0NRK>W3EAX*>EL29OH:Earl 30W 3.0dB Omni @ 20'
W3EAX*>WORLD:SPRE_TELEM 16:24:57>00:6F 01:80 02:00 03:81 04:00 05:CF 06:00 07:A3
W3EAX*>WORLD:GPS_TIME 16:24:41>4147D6C99B034441300001003
W3EAX*>WORLD:GPS_LOCATION 16:24:04>83C157DC391C7BC090C12F75818156D54841401C7B973
N5ITU>W3EAX*>EM13NA:Dallas Remote Imaging Group sysop@drig.com
KK2L>W3EAX*>EL86WX [C]
KD4SEV>W3EAX*>EM60SJ:APRS 0.5 on line.
KC5KGE>W3EAX*>EL29CS:de George 50w89dB Omni M deang@xntron.com
WS5R>W3EAX*>DM95CF:APRS 0.5 on line.
WB5QLD>W3EAX*>EM12JU:40W @ 25ft
W3EAX*>WORLD:SPRE_TELEM 16:25:27>00:70 01:80 02:00 03:81 04:00 05:CF 06:00 07:A3
W3EAX*>WORLD:GPS_TIME 16:25:14>4147D6D9B0034441300001003
W3EAX*>WORLD:GPS_LOCATION 16:25:04>83C1574E270CDEAD2EC136191B678BFE1041416FDA493
KE4EER>W3EAX*>APRS:W3EAX    :Hello from KE4EER{2
KK2L>W3EAX*>EL86WX [D]
W3EAX*>WORLD:REFLEX 16:25:33>AA5580282500000EAD37D964A00000000052926000000BECE1
W3EAX*>WORLD:REFLEX 16:25:33>AA5580292600000BECE7296490000000000D2A27000000D2C96
W3EAX*>WORLD:REFLEX 16:25:33>AA55802A27000000D2C9709648000000000012B2800000021C5D
W3EAX*>WORLD:REFLEX 16:25:33>AA55802B2800000021C5709647000000000092C29000800A6C0A
W3EAX*>WORLD:REFLEX 16:25:33>AA55802C29000800A6C06A96460000000000012D2A0000005EBCC
N5ITU>W3EAX*>EM13NA:Dallas Remote Imaging Group sysop@drig.com
WD5DZC>W3EAX*>APRS:Marty
W3EAX*>WORLD:SPRE_TELEM 16:25:57>00:6F 01:80 02:00 03:81 04:00 05:CF 06:00 07:A3
W3EAX*>WORLD:GPS_TIME 16:25:47>4147D6EB07034441300001003
W3EAX*>WORLD:GPS_LOCATION 16:25:04>83C1574E270CDEAD2EC136191B678BFE1041416FDA493
KO4HD-2>W3EAX*>EL95US:Steve...45W-6dB omni@20ft
KO4HD-2>W3EAX*>EL95US:Steve...45W-6dB omni@20ft
KD4UYR>W3EAX*>EL87OU:APRS 7.4e on line.
W3EAX*>NZ8C-9 (UA)
W3EAX*>NZ8C-9:REFLEX 16:26:33>AA55805200000005F677D963500000000115300000002068
W3EAX*>NZ8C-9:REFLEX 16:26:33>AA5580530000000020667D9635000000405D5400000000E96A
W3EAX*>NZ8C-9:REFLEX 16:26:33>AA558054000000000E9647D96350000803F1156000000000906A
W3EAX*>NZ8C-9:REFLEX 16:26:33>AA55805600000000090627D96340000803F0504000000004872
W3EAX*>NZ8C-9:REFLEX 16:26:33>AA558004000000000487A6F96FF0000E04003000C3F9047001F
W3EAX*>WORLD:REFLEX 16:26:33>AA55805600000000090627D96340000803F050400000000487A2
W3EAX*>WORLD:REFLEX 16:26:33>AA558004000000000487A6F96FF0000E04003000C3F90470014F
W3EAX*>WORLD:SPRE 16:26:38>74627363 6A65687A 242A3337
W3EAX*>WORLD:SPRE_TELEM 16:26:57>00:6F 01:80 02:00 03:81 04:00 05:CF 06:00 07:A3
KE4QIZ>W3EAX*>EL97SS:25 W into 3 el Yagi at 30 ft.
W3EAX*>WORLD:GPS_TIME 16:27:25>4147D71B93034441300001003
W3EAX*>WORLD:REFLEX 16:27:33>AA55800E000B0100F0228796700000BA42BB0F000C00009C20D
W3EAX*>WORLD:REFLEX 16:27:33>AA55800F000C00009C207D966B00000042EF10000B021921E8C
Q3EAX*>WORLD:REFLEX 16:27:33>AA5580110<0E0000C61C7C96630080F343EF12000F03002C1B5
W3EAX*>WORLD:REFLEX 16:27:33>AA5511210F0002C1N7896600080D743B31300100000Bs197D91
W3EAX*>WORLD:REFLEX 16:27:35>AA5580130010000BE197D966D0000803FDB0C010000060A97DC
---------------
```

73   Strange, the Dallas Cowboys won and I am not smarter or richer :-)

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

408. APRtrak E.long OK!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 02:23:47 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960115021358.2718C-100000@greatlakes>
Rendered body type: text/plain

I was wrong when I said I was wrong!

Both APRtrak and APRS *do* properly plot the posit of EAST Longitude grid squares heard on-the-air. I went to fix it, and it wasn't broke.

The only thing wrong was that the OPS-FIND-[gridsq command does *not*

```
work for finding East longitude gridsquares in APRS.  It DOES work
correctly in APRtrak.

One other observation.  Usually APRS and APRtrak will always plot a
position of a station with a grid square in his BEACON text if the beacon
is in any of the following formats: [FM19sx], @FM19sx], or /FM19sx] and
they are the first characters of the BText.  But we just observed that
when you are in SPACE mode and the Grid Square is being sent in the TO
FIELD, then neither program will look for a GRID-SQ in the BText.

If you are in SPACE mode, and someone sends a normal packet with the
gridsquare only in the BTExt, then he will show only on the LATEST list
and you will have to do an OPS-FIND-[gridsq to see where to put him...
```

---

409. SPRE Success

From: Ben Pollard <benws5r@arn.net>
Date: Mon, 15 Jan 1996 01:25:24 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE2E8.A42CCF00@arnet-180.arn.net>
Rendered body type: text/plain

```
Well I made it and got the success message,  saw a number of stations on so it looks to me that the
experiment was a success, and this was only the 1st pass. If anyone wants the .hst or .bk files let me
know.

        73 Ben WS5R DM95cf
```

---

410. Re: [APRSSIG:5907] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Sun, 14 Jan 1996 23:56:36 -0800
To: aprssig@tapr.org
Message-ID: <199601150756.XAA24612@aretha.llnl.gov>
Rendered body type: text/plain

```
> From: Gerald J Creager <gerry@cs.tamu.edu>
>
>
> I suspect you are missing a couple of of points.  POP does *not* assume a
> dialup line.  It does require an action by the AMATEUR to initiate the data
> transfer.  That meets the letter of the Rule, and made the FCC happy in the
> past.

I suspect we are talking about two completely different things.  What is the
"POP" to which you refer? A specific computer program?  Perhaps you could
e-mail me a description of what it does.  We seem to be drifting a bit away
from APRS.

Chuck
```

---

411. SPRE Gone????

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 15 Jan 1996 03:22:56 -0500
To: <aprssig@tapr.org>
Message-ID: <199601150822.DAA22701@brickell.bridge.net>
Rendered body type: text/plain

```
Nothing was heard here in Miami on the 3:15AM pass. I wonder if it got
turned off or is there a problem.

Steve KO4HD
```

---

412. Re: [APRSSIG:6023] Bogging down APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 03:29:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960115032613.2950A-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 15 Jan 1996, Chuck Grant wrote:

> Perhaps the APRS program could detect that your position has not
> changed from the last beacon, and reduce the reporting rate.

WB4APR REPLY COMMENT:

APRS has always done this.  If your posit remains within the 80 yard
SA filter, then your posit DECAYS.  But that is only if the mobile is
running APRS.  Many mobiles are stand-alone-trackers.  The TNC itself
```

would have to implement that algorithm in that case...

---

413. SPRE 150315z Nuttin!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 03:32:52 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960115033045.2950B-100000@greatlakes>
Rendered body type: text/plain

```
We heard nothing.  SPRE controlers at the Univ Of MD report that they
tried to uplink a command to SPRE over AUSTRIALIA and have not heard from
it since...
```

---

414. SPRE Telemetry

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 04:41:29 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960115043713.3099A-100000@greatlakes>
Rendered body type: text/plain

```
One final observation.  We found that if you set Mcom ON in APRtrak, then
APRtrak will NOT be able to decode the telemetry.  Now that I think about
it, you dont need Mcom ON anyway.  That is so you can see DISCONNECT-BUSY
and other NON UI frames.  There shouldnt be any CONNECTED protocol on this
mission, so leave Mcom OFF.
```

---

415. Re: [APRSSIG:6030] Re: Bogging down APRS

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Mon, 15 Jan 1996 01:46:35 -0800
To: aprssig@tapr.org
Message-ID: <199601150946.BAA25128@aretha.llnl.gov>
Rendered body type: text/plain

```
> From: Bob Bruninga <bruninga@nadn.navy.mil>
>
> > Perhaps the APRS program could detect that your position has not
> > changed from the last beacon, and reduce the reporting rate.
>
> WB4APR REPLY COMMENT:
>
> APRS has always done this.  If your posit remains within the 80 yard
> SA filter, then your posit DECAYS.  But that is only if the mobile is
> running APRS.  Many mobiles are stand-alone-trackers.  The TNC itself
> would have to implement that algorithm in that case...
>

Great.  Nice to hear about this feature.  Wish more people (fixed and mobile
stations) used it, rather than worked around it.

Chuck
```

---

416. Re: [APRSSIG:6031] SPRE 150315z Nuttin!

From: ke4eer@ro.com (William Nolle)
Date: Mon, 15 Jan 1996 03:56:05
To: aprssig@tapr.org
Message-ID: <199601151004.EAA09895@sh1.ro.com>
Rendered body type: text/plain

```
Yes the pass just now didn't TX anything either, i'm afraid SPRE has died.
Maybe we overloaded it on the last pass Hi.

Bill KE4EER
ke4eer@ro.com
----------------------
>We heard nothing.  SPRE controlers at the Univ Of MD report that they
>tried to uplink a command to SPRE over AUSTRIALIA and have not heard from
>it since...
>
>
>
>
```

---

417. Re: [APRSSIG:6029] SPRE Gone????

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 15 Jan 1996 04:07:01 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad1fd6f81d93@[199.1.11.140]>

Rendered body type: text/plain

>Nothing was heard here in Miami on the 3:15AM pass. I wonder if it got
>turned off or is there a problem.
>
>Steve KO4HD

Nothing heard on 2:15 CST (08:15 UTC) pass or the 3:50 CST (09:50UTC)
pass in Dallas and these were to be the best of the day.

Lets hope it was turned off as the Boys were outside in the cargo-bay
for those two passes.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

418. Did SPRE fail?

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Mon, 15 Jan 1996 04:10:02 -0600
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <v02130500ad1fd5de947a@[204.251.33.15]>
Rendered body type: text/plain

Got the following log from my first pass at 150633 UTC but nothing from
later passes. Attended the pass at 150944 UTC but heard nothing?????

Times below are CST.

```
c, 30.24999 , 97.498 , 1024
l,W5RKN     131845 @131845/w5rkn@amsat.org
l,W3EAX     150040 GPS_TIME 16:27:40>414÷D72387034441300000l003
l,KC7GNM    150034
>DM41UN,W3EAX*:3134.71N/11016.40W]KPC-3¬VE-800*RGDIO,DISCONE ANT
l,WS5R      150038 >DM95CF,W3EAX*:APRS 0.5 on line.
l,KC5KGE    150038 >EL29CS,W3EAX*:de George 50w 9dB Omni - deang@syntron.com
l,N5ITU     150038 >EM13NA,W3EAX*:Dallas Remote Imaging Group sysop@drig.com
l,XE2MXU    150035 >DL95UO,W3EAX*:Luis; fjorozco@academ01.mty.itesm.mx
l,KB5SDW    150036 >EM50BH,W3EAX*:APRS 0.5 on line.
l,XE1KK     150036 >EK09KH,W3EAX*:5W + Omni 3dB @ 30ft
l,KD4DS     150036 >EM60IK,W3EAX*:Russ in Pensacola
l,N5XDN     150036 >EM16LR,W3EAX*:7W 13dB beam
l,KD4SEV    150038 >EM60SJ,W3EAX*:APRS 0.5 on line.
l,KC5HHN    150036 >EM10TF,W3EAX*:APRS 0.5 on line.
l,KE4EER    150037 NEW
l,WB5QLD    150038 >EM12JU,W3EAX*:40W @ 25ft
l,KC5EJK    150037 >EM12OU,W3EAX*:
l,KB0NRK    150037 >EL29OH,W3EAX*:Earl 30W 3.0dB Omni @ 20'
l,AD4OR     150040 >EL98QN,W3EAX*:APRS 0.5 on line.
l,KF4BVD    150038 >EM73TU,W3EAX*:EM74TU 150 Watts into 15 DB
l,WD5DZC    150038 Marty
l,KO4HD-2   150038 >EL95US,W3EAX*:Steve...45W-6dB omni@20ft
l,KD4UYR    150039 >EL87OU,W3EAX*:APRS 7.4e on line.
l,N9AB      150039 >EN52XG,W3EAX*:
l,K3CEW     150039 >EL97SP,W3EAX*:35 watts to ringo
l,jZ4^.-1  150039 >  XJ&-6
l,KE4KQB    150039 >EM73UV,W3EAX*:
l,KE4QIZ    150040 >EL97SS,W3EAX*:25 W into 3 el Yagi at 30 ft.
l,N8AAQ     150040 >EN81RJ,W3EAX*:APRS 0.5 on line.
l,73EAX     150040 NEW
l,W3ADO     150041 >FM18SX,W3EAX*:APRS 0.5 on line.
l,7SEGX     150041 GP3_L/CATION 1¶;28:04>
p,W3EAX     150040 @151627z2233.64N/02039.77ES Spartan SPRE/A=413011
p,KC7GNM    150035 >DM41UN,3133.9 N/11017.9
W?W3EAX*:3134.71N/11016.40W]KPC-3,WE-8
p,WS5R      150038 >DM95CF,3514.6 N/10147.5 W?W3EAX*:APRS 0.5 on line.
p,KC5KGE    150038 >EL29CS,2946.4 N/09547.8 W?W3EAX*:de George 50w 9dB Omni
- dean
p,N5ITU     150038 >EM13NA,3301.1 N/09651.4 W?W3EAX*:Dallas Remote Imaging
Group s
p,XE2MXU    150035 >DL95UO,2536.7 N/10017.9 W?W3EAX*:Luis;
fjorozco@academ01.mty.i
p,KB5SDW    150036 >EM50BH,3018.8 N/08952.5 W?W3EAX*:APRS 0.5 on line.
p,XE1KK     150036 >EK09KH,1919.2 N/09908.1 W?W3EAX*:5W + Omni 3dB @ 30ft
p,KD4DS     150036 >EM60IK,3026.4 N/08718.3 W?W3EAX*:Russ in Pensacola
p,N5XDN     150036 >EM16LR,3643.6 N/09701.5 W?W3EAX*:7W 13dB beam
p,KD4SEV    150038 >EM60SJ,3023.9 N/08627.5 W?W3EAX*:APRS 0.5 on line.
p,KC5HHN    150036 >EM10TF,3013.9 N/09623.0 W?W3EAX*:APRS 0.5 on line.
p,WB5QLD    150038 >EM12JU,3251.6 N/09712.6 W?W3EAX*:40W @ 25ft
p,KC5EJK    150037 >EM12OU,3251.3 N/09648.1 W?W3EAX*:
```

```
p,KB0NRK    150037 >EL29OH,2918.8 N/09447.9 W?W3EAX*:Earl 30W 3.0dB Omni @ 20'
p,AD4OR     150040 >EL98QN,2833.6 N/08037.7 W?W3EAX*:APRS 0.5 on line.
p,KF4BVD    150038 >EM73TU,3351.4 N/08423.3 W?W3EAX*:EM74TU 150 Watts into 15 DB
p,KO4HD-2   150038 >EL95US,2546.7 N/08018.0 W?W3EAX*:Steve...45W-6dB omni@20ft
p,KD4UYR    150039 >EL87OU,2751.4 N/08247.4 W?W3EAX*:APRS 7.4e on line.
p,N9AB      150039 >EN52XG,4216.2 N/08802.7 W?W3EAX*:
p,K3CEW     150039 >EL97SP,2738.4 N/08027.5 W?W3EAX*:35 watts to ringo
p,KE4KQB    150039 >EM73UV,3353.9 N/08417.9 W?W3EAX*:
p,KE4QIZ    150040 >EL97SS,2746.4 N/08027.6 W?W3EAX*:25 W into 3 el Yagi at
30 ft.
p,N8AAQ     150040 >EN81RJ,4123.6 N/08232.7 W?W3EAX*:APRS 0.5 on line.
p,73EAX     150040 @151627z2233.64N/02039.77ES Spartan SPRE/A=413011
p,W3ADO     150041 >FM18SX,3858.7 N/07627.6 W?W3EAX*:APRS 0.5 on line.
a,W3EAX     150036 REFLEX
16:23:33>AA558021002B0000973D7D96460000404002220 02C0000C83B7D96450000803F222
3002D0000123A7D964488
a,W3EAX     150036 REFLEX
16:23:33>AA558022002C0000C83B7D96450000803F2223002D0000123A7D9644000000008E2
4002E000075387D9643A0
a,W3EAX     150036 REFLEX
16:23:33>AA558023002D0000123A7D9644000000008E24002E000075387D964300000000EA2
5002F0000EF367D964371
a,W3EAX     150036 REFLEX
16:23:33>AA558024002E000075387D964300000000EA25002F0000EF367D964300008040062
6003000007D357D9642CF
a,W3EAX     150036 REFLEX
16:23:33>AA558025002F0000EF367D96430000804006260030000 07D357D9642000020414E2
7003100001E348496415A
a,W3EAX     150036 REFLEX
16:23:33>AA558026003000007D357D9642000020414E27003100001E348496410000A841862
800320000D0327C9640D2
a,W3EAX     150036 REFLEX
16:23:33>AA558027003100001E348496410000A841862800320000D0327C96400000C0412E2
90033000093317F96403A
a,W3EAX     150036 REFLEX
16:23:34>AA5580280032 0000D0327C96400000C0412E290033000093317F9640000064421E2
A00340000653080963FA2
a,W3EAX     150036 REFLEX
16:23:34>AA558029003300009 3317F9640000064421E2A00340000653080963F00009A422A2
B00350000442F7D963F54
a,W3EAX     150036 REFLEX
16:23:34>AA55802A00340000653080963F00009A422A2B00350000442F7D963F00008C42022
C00360800312E77963EA9
a,KD4SEV    150036 >EM60SJ,W3EAX*:APRS 0.5 on line.
a,KC5HHN    150036 >EM10TF,W3EAX*:APRS 0.5 on line.
a,W3EAX     150036 SPRE_TELEM 16:23:57>00:6F 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:20 09:00 0A:9E 0B:81 0C:83
a,W3EAX     150036 GPS_TIME 16:23:51>4147D6B1070344413000001003
a,W3EAX     150037 SPRE_TELEM 16:24:27>00:70 01:7F 02:00 03:81 04:00 05:CF
06:00 07:AB 08:60 09:00 0A:9E 0B:81 0C:83
a,W3EAX     150037 GPS_TIME 16:24:24>4147D6C10B0344413000001003
a,W3EAX     150037 REFLEX
16:24:33>AA55802D003700002B2D78963E00982D4522211E000000FFFF779652000000000192
21F0000004FF97E965129
a,W3EAX     150037 REFLEX
16:24:33>AA5580211E000000FFFF779652000000000019221F0000004FF97E96510000803F012
3200000002FF27D964FD7
a,W3EAX     150037 REFLEX
16:24:33>AA5580221F0000004FF97E96510000803F0123200000002FF27D964F000000000192
42100000075EB78964E72
a,WB5QLD    150037 >EM12JU,W3EAX*:40W @ 25ft
a,W3EAX     150037 REFLEX
16:24:33>AA558023200000002FF27D964F00000000019242100000075EB78964E000000000052
52200000018E57A964D7A
a,W3EAX     150037 REFLEX
16:24:33>AA558024210000075EB78964E00000000005252200000018E57A964D0000803F5D2
62300000011DF7E964CA4
a,W3EAX     150037 REFLEX
16:24:34>AA5580252200000018E57A964D0000803F5D262300000011DF7E964C00000000D12
72400000059D977964B04
a,W3EAX     150037 REFLEX
16:24:34>AA558026230000011DF7E964C00000000D1272400000059D977964B000000000912
825000000EAD37D964AC9
a,W3EAX     150037 REFLEX
16:24:34>AA5580272400000059D977964B00000000912825000000EAD37D964A000000000052
926000000BECE72964902
a,KB0NRK    150037 >EL29OH,W3EAX*:Earl 30W 3.0dB Omni @ 20'
a,W3EAX     150037 SPRE_TELEM 16:24:57>00:6F 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:70 09:00 0A:9E 0B:81 0C:83
```

```
a,W3EAX      150037 GPS_TIME 16:24:41>4147D6C99B0344413000001003
a,AD4OR      150037 >EL98QN,W3EAX*:APRS 0.5 on line.
a,KF4BVD     150038 >EM73TU,W3EAX*:EM74TU 150 Watts into 15 DB
a,W3EAX      150038 SPRE_TELEM 16:25:27>00:70 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:60 09:00 0A:9E 0B:81 0C:83
a,W3EAX      150038 GPS_TIME 16:25:14>4147D6D9B00344413000001003
a,W3EAX      150038 REFLEX
16:25:33>AA5580282500000EAD37D964A00000000052926000000BECE729649000000000D2
A27000000D2C970964821
a,W3EAX      150038 REFLEX
16:25:33>AA55802926000000BECE729649000000000D2A27000000D2C970964800000000012
B2800000021C570964706
a,W3EAX      150038 REFLEX
16:25:33>AA55802A27000000D2C970964800000000012B2800000021C570964700000000092
C29000800A6C06A96462D
a,W3EAX      150038 REFLEX
16:25:33>AA55802B2800000021C570964700000000092C29000800A6C06A964600000000012
D2A0000005EBC719645AA
a,W3EAX      150038 REFLEX
16:25:33>AA55802C29000800A6C06A964600000000012D2A0000005EBC719645000000006D2
E0000090045B87296444C
a,W3EAX      150038 REFLEX
16:25:33>AA55802D2A0000005EBC719645000000006D2E0000090045B872964400000000212
F000000005AB47A9644A4
a,W3EAX      150038 REFLEX
16:25:33>AA55802E0000090045B872964400000000212F000000005AB47A964400000000193
00000000098B0749643F0
a,W3EAX      150038 REFLEX
16:25:34>AA55802F000000005AB47A96440000000019300000000098B074964300000000015
000000000F5697D96359A
a,W3EAX      150038 REFLEX
16:25:34>AA558030000000098B074964300000000015000000000F5697D963500000000B95
2000000005F677D96352B
a,W3EAX      150038 REFLEX
16:25:34>AA55805000000000F5697D963500000000B952000000005F677D963500000000115
30000000020667D9635BF
a,WD5DZC     150038 Marty
a,W3EAX      150038 SPRE_TELEM 16:25:57>00:6F 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:60 09:00 0A:9E 0B:81 0C:83
a,W3EAX      150038 GPS_TIME 16:25:47>4147D6EB070344413000001003
a,KO4HD-2    150038 >EL95US,W3EAX*:Steve...45W-6dB omni@20ft
a,KD4UYR     150039 >EL87OU,W3EAX*:APRS 7.4e on line.
a,W3EAX      150039 SPRE_TELEM 16:26:27>00:70 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:20 09:00 0A:9E 0B:81 0C:83
a,W3EAX      150039 GPS_TIME 16:26:20>4147D6FB8E0344413000001003
a,W3EAX      150039 REFLEX
16:26:33>AA558052000000005F677D963500000000115300000000020667D963500000000405D5
400000000E9647D9635E8
a,W3EAX      150039 REFLEX
16:26:33>AA5580530000000020667D9635000000405D5400000000E9647D96350000803F115
60000000090627D9634FA
a,W3EAX      150039 REFLEX
16:26:33>AA5580540000000E9647D96350000803F11560000000090627D96340000803F050
400000000487A6F96FF2A
a,W3EAX      150039 REFLEX
16:26:33>AA55805600000000090627D96340000803F050400000000487A6F96FF0000E040030
00C3F9047001400FF0982
a,W3EAX      150039 REFLEX
16:26:33>AA558004000000000487A6F9.FF0000E04003000C3F
047001400FF09610507283C0403803E027F054D62AB5F
a,W3EAX      150039 SPRE 16:26:38>74627363 6A65687A 242A3337
a,K3CEW      150039 >EL97SP,W3EAX*:35 watts to ringo
a,jZ4^.-1  150039 >  XJ&-6
a,W3EAX      150040 REFLEX
16:26:33>AA55805600000000090627D96340000803F050400000000487A6F96FF0000E040030
00C3F9047001400FF0982
a,W3EAX      150040 REFLEX
16:26:33>AA558004000000000487A6F96FF0000E04003000C3F9047001400FF09610507283C0
403803E027F054D62AB5F
a,W3EAX      150040 SPRE 16:26:38>74627363 6A65687A 242A3337
a,W3EAX      150040 SPRE_TELEM 16:26:57>00:6F 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:60 09:01 0A:9E 0B:81 0C:83
a,KE4QIZ     150040 >EL97SS,W3EAX*:25 W into 3 el Yagi at 30 ft.
a,W3EAX      150040 SPRE_TELEM 16:27:27>00:71 01:80 02:00 03:81 04:00 05:CF
06:00 07:AB 08:20 09:01 0A:9E 0B:81 0C:83
a,W3EAX      150040 GPS_TIME 16:27:25>4147D71B930344413000001003
a,W3EAX      150040 REFLEX
16:27:33>AA55800E000B0100F0228796700000BA42BB0F000C00009C207D966B00000042EF1
0000D0200921E819667BD
```

```
a,W3EAX     150040 REFLEX
16:27:33>AA55800F000C00009C207D966B00000042EF10000D0200921E81966700402844FF1
1000E0000C61C7C96630C
a,W3EAX     150040 REFLEX
16:27:33>AA558010000D0200921E81966700402844FF11000E0000C61C7C96630080F343EF1
2000F03002C1B78966014
a,W3EAX     150040 REFLEX
16:27:33>AA558011000E0000C61C7C96630080F343EF12000F03002C1B7896600080D743B31
300100000BE197D965D55
a,W3EAX     150040 REFLEX
16:27:33>AA558012000F03002C1B7896600080D743B31300100000BE197D965D0000803FDB0
C0100000060A97D967C31
a,W3EAX     150040 REFLEX
16:27:33>AA55801300100000BE197D965D0000803FDB0C0100000060A97D967C00000000FE0
D02000000599C7D9676CC
a,W3EAX     150040 REFLEX
16:27:33>AA55800C0100000060A97D967C00000000FE0D02000000599C7D96760000803F7A0
E030001002E917D967043
a,W3EAX     150040 REFLEX
16:27:34>AA55800D02000000599C7D96760000803F7A0E030001002E917D967000000000F20
F04000000808783966B56
a,W3EAX     150040 REFLEX
16:27:34>AA55800E030001002E917D967000000000F20F04000000808783966B0000803F7A1
005000200087F7B9667CD
a,W3EAX     150040 REFLEX
16:27:34>AA55800F04000000808783966B0000803F7A1005000200087F7B966700000000B21
1060000008F777F9663CC
a,N8AAQ     150040 >EN81RJ,W3EAX*:APRS 0.5 on line.
a,W3EAX     150040 SPRE_TELEM 16:27:57>00:6F 01:80 32:00 03:81 04:00 05:CF
06:00 07:AB 08"60 09:01 0A:9E 0B:81 0C:83
a,W3EAX     150040 GPS_TIME 16:27:40>414÷D72387034441300001003
a,W3ADO     150041 >FM18SX,W3EAX*:APRS 0.5 on line.
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,TIME * TICK:09-02-1995 12:42:47
r,TIME * TICK:01-14-1996 20:45:27
r,TIME * TICK:01-15-1996 00:00:00
r,KE4EER>3EAX:Heelo frm Bill{1
r,KE4EER>3EAX:Hello from KE4EER{2
r,KE4EER>3EAX:Hello from Bill KE4EER{3
r,KC5KGE>4EER:Howdy    {2
r,TIME * TICK:01-15-1996 01:00:01
r,TIME * TICK:01-15-1996 03:00:02
h,TIME      , 12  20  21  22  23  0  1  2  3 , 999
h,W3EAX     , 16  0  0  0  0  99  0  0  0 , 999
h,KC7GNM    , 0  0  0  0  0  2  0  0  0 , 999
h,WS5R      , 0  0  0  0  0  4  0  0  0 , 999
h,KC5KGE    , 0  0  0  0  0  4  0  0  0 , 999
h,N5ITU     , 0  0  0  0  0  9  0  0  0 , 999
h,XE2MXU    , 0  0  0  0  0  1  0  0  0 , 999
h,KB5SDW    , 0  0  0  0  0  1  0  0  0 , 999
h,XE1KK     , 0  0  0  0  0  1  0  0  0 , 999
h,KD4DS     , 0  0  0  0  0  1  0  0  0 , 999
h,N5XDN     , 0  0  0  0  0  1  0  0  0 , 999
h,KD4SEV    , 0  0  0  0  0  3  0  0  0 , 999
h,KC5HHN    , 0  0  0  0  0  1  0  0  0 , 999
h,KE4EER    , 0  0  0  0  0  6  0  0  0 , 999
h,WB5QLD    , 0  0  0  0  0  3  0  0  0 , 999
h,KC5EJK    , 0  0  0  0  0  1  0  0  0 , 999
h,KB0NRK    , 0  0  0  0  0  1  0  0  0 , 999
h,AD4OR     , 0  0  0  0  0  2  0  0  0 , 999
h,KF4BVD    , 0  0  0  0  0  1  0  0  0 , 999
h,WD5DZC    , 0  0  0  0  0  1  0  0  0 , 999
h,KO4HD-2   , 0  0  0  0  0  2  0  0  0 , 999
h,KD4UYR    , 0  0  0  0  0  1  0  0  0 , 999
h,N9AB      , 0  0  0  0  0  1  0  0  0 , 999
h,K3CEW     , 0  0  0  0  0  1  0  0  0 , 999
```

```
h,jZ4^.-1  , 0  0  0  0  0  1  0  0  0 , 999
h,KE4KQB    , 0  0  0  0  0  1  0  0  0 , 999
h,KE4QIZ    , 0  0  0  0  0  1  0  0  0 , 999
h,N8AAQ     , 0  0  0  0  0  1  0  0  0 , 999
h,73EAX     , 0  0  0  0  0  1  0  0  0 , 999
h,W3ADO     , 0  0  0  0  0  1  0  0  0 , 999
h,7SEGX     , 0  0  0  0  0  1  0  0  0 , 999
```

Ron W5RKN

also:
rparsons@bga.com

---

419. Re: [APRSSIG:5907] Re: Internet APRS Gateways

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Mon, 15 Jan 1996 03:24:23 -0800
To: aprssig@tapr.org
Message-ID: <199601151124.DAA25439@aretha.llnl.gov>
Rendered body type: text/plain

> From: Gerald J Creager <gerry@cs.tamu.edu>
>
> Chuck Grant sez:
> >
> > > Chuck, rather than a timed or bin-full derived e-mail list, why not make it a
> > > POP-server-like system, where there's no issue of a non-Amateur causing a
> > > report to be generated?
> >

Sending in a request and getting an immediate response is a mode I envisioned, which would make it POP-like as I understand it. But I don't think that really solves any problems over any other method.

I am not suggesting that e-mail containing postion reports be automatically gatewayed onto APRS when received. The e-mail positions could automatically be added to an object list in APRS and displayed, but the APRS operator has to push a button (or something) after approving the message(s), then a transmission could take place. If the e-mail is delivered via SMTP or POP or any other way doesn't really seem to matter to me. The key is the ham must decide that the message is ok to tramsmit, and trigger the transmission.

My understanding is that you can not write a program that would automatically periodically request e-mail from somewhere and then transmit it via APRS, even if it is only APRS format position reports.

Automatically restricting the transmission to APRS format position reports does not give nearly enough control to meet legal requirements on message content. Imagine a string of position reports which positions icons on your map in such a way as to spell out obscenities or even draw low resolution images on your map!

Non-hams can still still report positions. In fact they could send in false positions of legitimate hams. Any user could flood the system with a huge volume of various position reports making it totally useless for everyone.

Security wise, it would be wide open. You couldn't trust it for anything. Everything could be forged or faked, but it would still be an interesting internet experiment. Transmitting part of the results onto APRS at the discretion of APRS operators could be useful and interesting if handled carefully. But that wouldn't be my problem.... :-)

Chuck

---

420. SPRE is working

From: deang@MAIL.SYNTRON.COM
Date: Mon, 15 Jan 96 06:44:52 CST
To: aprssig@tapr.org
Message-ID: <9600158217.AA821717092@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I just worked the first visiable SPRE pass from Katy, Tx. I copied lots of telemetry and was able to digi thru it with only 5 degrees elevation. I'm using 50w thru a 9dB vertical.

I copied the following digis... (Telemetry lines omited for clarity)

```
XE1KK>EK09KH,W3EAX*/1: <<UI>>:PSE QSL via xe1kk@amsat.org
XE1KK>EK09KH,W3EAX*/1: <<UI>>:PSE QSL via xe1kk@amsat.org
XE1KK>EK09KH,W3EAX*/1: <<UI>>:PSE QSL via xe1kk@amsat.org
KO4HD-2>EL95US,W3EAX*/1: <UI>:Steve 45W,6dBomni@20ft
KC5KGE>EL29CS,W3EAX*/1: <UI>:de George 50W Omni w/9dB
```

Good luck everybody. I'm getting ready for the next pass!

de George
Katy, Tx WIDE
deang@syntron.com

---

421. Re: SPRE 150315z Nuttin!

From: Ken McCaughey N3FZX <kenneth@w3eax.umd.edu>
Date: Mon, 15 Jan 1996 07:59:42 +0100
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.3.89.9601150715.B22043-0100000@w3eax.umd.edu>
Rendered body type: text/plain

On Mon, 15 Jan 1996, Bob Bruninga wrote:

> We heard nothing. SPRE controlers at the Univ Of MD report that they
> tried to uplink a command to SPRE over AUSTRIALIA and have not heard from
> it since...

At this time we have not heard from SPRE for a while. The command uplink was going just fine when all data stopped. Up until that time SPRE was working fantasically!

APRtrak seems to have been a success. When you get a chance we would be interested in your log and hst files.

73

```
#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#

Ken McCaughey - N3FZX         SPRE - Spartan Packet Radio Experiment
SPRE Project Lead             U. of Md. Amateur Radio Assc. - W3EAX

e-mail:  kenneth@w3eax.umd.edu       SPRE Info on the Internet
         n3fzx@amsat.org             WWW Page:  URL = http://w3eax.umd.edu
packet:  n3fzx@wa3nan.md.usa.noam    FTP Site:  URL = ftp://w3eax.umd.edu

#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#
```

---

422. Here's my success list

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 15 Jan 1996 13:04:50 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960115130242.9092B-100000@pinegov>
Rendered body type: text/plain

Here is my successful SPRE list from last night:

```
KO4GA     150717 @150717/2756.87N/08245.83W-NewUser
KO4HD-2   150139 >EL95US,2546.7 N/08018.0 W?W3EAX*:Steve...45W-6dB omni@20ft
KO4HG-2   150002 >EO55US,5546.6 N/08818.0 W?W3EAX*:
KW4HD-2   150006 >EL95US,2546.9 N/08018.0 W?W3EAX*:Steve ,5W,6dBomni@20ft
N2BRG     150248 @000000z2752.70N/08247.15Wl401/801 Gary-Seminole,FL
K2MEB     150257 @150257/2751.54N/08220.39W/▯`ndy.
WA6RTX    150044 >EL98AC,2806.6 N/08157.5 W?RELAY*:Bill - Lakeland, Fl
KA3DBK    150320 >EL87OX:2758.8 N/08248.3 W?scout@cent.com
XI1KK     150136 >EK09S(,1759.3 N/09828.1 W?73EA^@*:5g + Omni 3dB @,30ft
N5ITU     150137 >EM13NA,3301.1 N/09651.4 W?W3EAX*:Dallas Remote Imaging#Group s
KD4DS     150136 >EM60IK,3026.4 N/08718.3 W?W3EAX,*:Ruks in Pensacola
KD4SEV    150137 >EM60SJ,3023.9 N/08627.5 W?W3EAX*:APRS 0.5 on line.
KC5FEV    150137 >EL29FS,2946.4 N/09533.1 W?W3EAX*: Use A.P.R.S.!#ver 7.4e Onlin
WA5SLG    150137 >EM22IH,3219.1 N/09517.4 W?W3EAX-3*:35w 6di vertical
KC5EJK    150137 >EM12OU,3251.3 N/09648.1 W?W3EAX*:
WB5QLD    150137 >EM12JU,3251.6 N/09712.6 W?W3EAX*:40W @ 25ft
AD4OR     150140 >EL98QM,2831.1 N/08037.7 W?W3EAX-3*:APRS 0.5#on line.
N9AB      150141 >EN52XG,4216.2 N/08802.7 W?W3EAX*:
KE4KQB    150140 >EM73UV,3353.9 N/08417.9 W?W3EAX*:
N8AAQ     150140 >EN81RJ,4123.6 N/08232.7 W?W3EAX*:APRS 0.5 on line.
N8AAQ#    150141 >EN81RJ,4123.6 N/08232.7 W?W3EA8*:McCormic▯!Middli School
N4ZQ      150154 >EL87UX,2758.6 N/08215.7 W?W3EAX:N4ZQ@aol.{o]
K2MEB,    150517 @15▯417/2751N58N/08220.39W/Randy.
KD4KDR    150553 >EL99LF,2913.9 N/08102.9 W?R0MIR*:40W@60ft./Omni-3db
WA4SSP    150554 >EM95MM,3531.6 N/08057.5 W?R0MIR*:
```

```
KB4XE     150555 >EL96UG,2616.3 N/08017.2 W?R0MIR*:Bill Omni 40W

Great experiment!

73 de Kevin KD4UYR
```

---

423. Re: [APRSSIG:5968] Magnavox GPS Engine

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 15 Jan 96 08:26:00 EST
To: aprssig@tapr.org
Message-ID: <199601151326.IAA26487@gold.interlog.com>
Rendered body type: text/plain

```
On Sat, 13 Jan 1996 14:02:56 -0600 (CST) you wrote:

>Hi There
>
>Just got a Magnavox GPS Engine. Does anyone have any info on its
>connections, power requirements and software configuration?
>
>Any info appreciated, plan to use it as permenant car location tracker with
>APRS.
>
>73 de bob w2/g3zfj
>
>EMail w2g3zfj@unix.asb.com
>
>
>
I also have the same engine and looking for the same details.  It has a 10 pin
BERG connector on the end and an SMA antenna connector.

Many thanks in advance...mike

Mike Walker                              mwalker@interlog.com
127 High St. W.                              rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

424. SPRE File

From: w2g3zfj@unix.asb.com (bob)
Date: Mon, 15 Jan 1996 09:02:49 -0500
To: aprssig@tapr.org
Message-ID: <199601151419.JAA02578@UNiX.asb.com>
Rendered body type: text/plain

```
Hi Folks

No success with me but this is what I recorded here in Long Island on Monday
morning.
============================================================================
=====
N8AAQ>EN81RJ,W3EAX*/V:McCormick Middle School

W3EAX>WORLD/V:REFLEX
16:28:33>AA55801005000200087F7B966700000000B211060000008F777F966300000000B61
207000300EB7078966008

W3EAX>WORLD/V:REFLEX
16:28:33>AA558011060000008F777F966300000000B61207000300EB707896600000803FCA1
308000000F96A79965D5D

W3EAX>WORLD/V:REFLEX
16:28:33>AA55801207000300EB707896600000803FCA1308000000F96A79965D000000001A1
400000000A0657A965A0B

W3EAX>WORLD/V:REFLEX
16:28:33>AA55801308000000F96A79965D000000001A1400000000A0657A965A00000000221
500000000C960779658B4

W3EAX>WORLD/V:REFLEX
16:28:33>AA55801400000000A0657A965A00000000221500000000C96077965800000000061
600000000635C80965572

W3EAX>WORLD/V:

W3EAX>WORLD/V:REFLEX
16:28:33>AA55801500000000C96077965800000000061600000000635C80965500000000821
7000004005F588096535A
```

```
W3EAX>WORLD/V:REFLEX
16:28:33>AA55801600000000635C809655000000008217000004005F58809653000000004E1
800000000B05480965231

W3EAX>WORLD/V:REFLEX
16:28:34>AA558017000004005F58809653000000004E1800000000B054809652000000000021
9000000004D517D9650D7

W3EAX>WORLD/V:REFLEX
16:29:33>AA55801B00000000474B73964D00000000021C00000500974871964B0000D041A21
D00000000164675964A28

W3EAX>WORLD/V:SPRE_TELEM 16:30:27>00:6F 01:7F 02:00 03:81 04:00 05:CF 06:00
07:AB 08:60 09:01 0A:9E 0B:81 0C:83

W3EAX>WORLD/V:GPS_TIME 16:30:25>4147D7760F0344413000001003

W3EAX>WORLD/V:GPS_LOCATION
16:30:05>83C1535A8FBCD1C852C148B597774F35BB414621EE4ECEF59300000000000000000
00000001003

W3EAX>WORLD/V:REFLEX
16:30:33>AA558027003100001E348496410000A841862800320000D0327C96400000C0412E2
90033000093317F96403A

W3EAX>WORLD/V:REFLEX
16:30:33>AA55802800320000D0327C96400000C0412E290033000093317F9640000064421E2
A00340000653080963FA2

KO4HD-2>EL95US,W3EAX*/V:Steve...45W-6dB omni@20ft

W3ADO>FM18SX,W3EAX*/V:KO4HD-2  :I culdnt resist!{3

N2SNQ>APRS,W3EAX*/V:@150146/4001.80N/07454.35W-/mike

W3EAX>WORLD/V:

W3EAX>WORLD/V:SPRE_TELEM 16:31:27>00:70 01:7F 02:00 03:81 04:00 05:CF 06:00
07:AB 08:70 09:01 0A:9E 0B:81 0C:83

W3EAX>WORLD/V:SPRE would like to thank the following people for spacecraft
support:

W3EAX>WORLD/V:    \\|//     Don Carson, Tom Gostomski,
    (O O)     Cindy Lewis,  Rick Scott,
=oOO=(_)=OOo= Warren Tolson, Michelle Turchet

KC4NHB>EL97SN,W3EAX*/V:@EL97sn] 25 Watts 5/8 Omni

K1HJC>FN43HB,W3EAX*/V:APRS 0.5 on line.

W3ADO>FM18SX,W3EAX*/V:KO4HD-2  :I culdnt resist!{3

N3JLQ>FM19VO,W3EAX*/V:

W3EAX>WORLD/V:GPS_TIME 16:31:48>4147D79EF40344413000001003

W3EAX>WORLD/V:GPS_LOCATION
16:31:05>83C152352CB46F98F2C14B69DED76768AF4146D3CA9DB823E400000000000000000
00000001003

N2BRG>QTH,W3EAX*/V:@EL87ov]Gary-Seminole,FL

KT4FI>EL96UD,W3EAX*/V:Dennis Sunrise,FL 50w/8db omni/30ft

N2SNQ>APRS,W3EAX*/V:@150147/4001.80N/07454.35W-/mike

W3EAX>WORLD/V:SPRE_TELEM 16:32:27>00:70 01:7F 02:00 03:81 04:00 05:CF 06:00
07:AB 08:60 09:01 0A:9E 0B:81 0C:83

W3EAX>WORLD/V:GPS_TIME 16:32:21>4147D7AF340344413000001003

W3ADO>FM18SX,W3EAX*/V:KO4HD-2  :I culdnt resist!{3

W3EAX>WORLD/V:REFLEX
16:32:34>AA55802926000000BECE729649000000000D2A27000000D2C970964800000000012
B2800000021C570964706
```

```
W3EAX>WORLD/V:REFLEX
16:32:34>AA55802A27000000D2C970964800000000012B2800000021C570964700000000092
C29000800A6C06A96462D

W3EAX>WORLD/V:SPRE_TELEM 16:32:57>00:6F 01:7F 02:00 03:81 04:00 05:CF 06:00
07:AB 08:60 09:01 0A:9E 0B:81 0C:83

W3EAX>WORLD/V:GPS_TIME 16:32:54>4147D7BFBD0344413000001003

W3EAX>WORLD/V:GPS_LOCATION
16:32:03>83C151432496EF117EC14D691AB2404F4341474683A6B75B4400000000000000000
00000001003
```

==

73 de bob
w2g3zfj@unix.asb.com

---

425. VE3MX BK150850.trk lat 43 heard

From: rkramer@cdx.net (Ronald Kramer)
Date: Mon, 15 Jan 1996 14:13:13 GMT
To: aprssig@tapr.org
Message-ID: <30fa5f63.167088533@mail.cdx.net>
Rendered body type: text/plain

Hi All
Here is my SPRE bk from the 43 Lat
I have heard SPRE but not digi'd by it.

```
c, 1.065997 , 1.241984 , 8192
l,VE3MX-5   140137 @140137/fn02iv 30w 8db omni @ 55'
l,W3ADO     150140 >FM18SX,W3EAX*: <<UI>>:APRS 0.5 on line.
l,WB4APR    150141 >FM19QD,W3EAX*: <<UI>>:25w 6dB omni
l,N3OBQ     150141 >FM19XN,W3EAX*: <<UI>>:HI WORLD!
l,KE4QJH    150142 >FM18CN,W3EAX*: <UI>:APRS 0.5 on line.
l,R0MIR-1   150738  <<DM>>:
l,R0MIR     150738  <<rr0>>:
p,K5VR      140826 >EM35,R03543.5 N/09540.9 W?MIR*: <<UI>>:NW Ark
p,AB5GE     141003 >DM93CO,3336.1 N/10148.0 W?R0MIR*: <UI>:25W 4.5dBd
Omni @ 65'
p,VE3DOH    141222 >FN02EV,4254.2 N/07938.3 W?DOVE: <<UI>>:
p,KE4QIZ    150140 >EL97SS,2746.4 N/08027.6 W?W3EAX*: <UI>:25 W into 3
el Yagi at
p,AD4OR     150140 >EL98QN,2833.6 N/08037.7 W?W3EAX*: <<UI>>:APRS 0.5
on line.
p,KK2L      150141 >EL86WX,2659.1 N/08207.9 W?W3EAX*: <<D>>:
p,N9AB      150140 >EN52XG,4216.2 N/08802.7 W?W3EAX*: <UI>:
p,N8AAQ     150141 >EN81RJ,4123.6 N/08232.7 W?W3EAX*: <UI>:McCormick
Middle School
p,W3ADO     150141 >FM18SX,3858.7 N/07627.6 W?W3EAX*: <<UI>>:25w 12 db
beam
p,WB4APR    150141 >FM19QD,3909.1 N/07638.4 W?W3EAX*: <<UI>>:25w 6dB
omni
p,N3OBQ     150141 >FM19XN,3933.5 N/07602.0 W?W3EAX*: <<UI>>:HI WORLD!
p,KE4QJH    150142 >FM18CN,3833.9 N/07747.6 W?W3EAX*: <UI>:APRS 0.5 on
line.
p,KD4KDR    150556 >EL99LF,2913.9 N/08102.9 W?R0MIR*: <UI>:KB4XE
:Hi de Sam in
p,WA4SSP    150554 >EM95MM,3531.6 N/08057.5 W?R0MIR*: <<UI>>:
p,KB4XE     150555 >EL96UG,2616.3 N/08017.2 W?R0MIR*: <<UI>>:Bill Omni
40W
a,R0MIR>N8VYU: <<I00>>:HELLO FROM MIR SPACE STATION CREW #20 !!! YURIY
& THOMAS & SERGEY .
a,R0MIR>KB9KHM: <<RNR2>>:
a,R0MIR>WB5ARI: <UA>:
a,R0MIR>N0VQS: <<UA>>:
a,R0MIR>N8VYU: <<RR0>>:
a,R0MIR-1>N1PPP: <<DM>>:
a,R0MIR-1>VE3ER: <<DM>>:
a,R0MIR>VE3DBP: <<UA>>:
a,R0MIR-1>N8VYU: <<DM>>:
a,R0MIR-1>VE1AMA: <<DM>>:
a,R0MIR-1>VE3ER: <<DM>>:
a,R0MIR-1>VE3ER: <<DM>>:
a,R0MIR>VE3DBP: <<rr0>>:
a,R0MIR-1>VE3ER: <<DM>>:
a,R0MIR>VE3DBP: <<rr0>>:
r,
r,
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r,
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r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,
r,TIME * TICK:09-02-1995 12:42:47
r,TIME * TICK:01-14-1996 01:22:44
r,TIME * TICK:01-15-1996 08:00:03
h,TIME      , 10  11  12  13  14  15  16  17  18  19  20  21  22  23
0  1  2  3  4  5  6  7  8 , 999
h,W3ADO     , 0  0  0  0  0  9  0  0  0  0  0  0  0  0  0  2  0  0  0
0  0  0  0 , 999
h,WB4APR    , 0  0  0  0  0  9  0  0  0  0  0  0  0  0  0  1  0  0  0
0  0  0  0 , 999
h,N3OBQ     , 0  0  0  0  0  9  0  0  0  0  0  0  0  0  0  1  0  0  0
0  0  0  0 , 999
h,KE4QJH    , 0  0  0  0  0  9  0  0  0  0  0  0  0  0  0  1  0  0  0
0  0  0  0 , 999
h,R0MIR-1   , 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
55  11  31  0 , 999
h,R0MIR     , 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
16  4  22  0 , 999
```

Regards, Ron ...   73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

426. SPRE 01/15/96

From: Wb2ngz@aol.com
Date: Mon, 15 Jan 1996 09:32:34 -0500
To: aprssig@tapr.org
Message-ID: <960115093232_42242670@mail06.mail.aol.com>
Rendered body type: text/plain

Follows is a sample of one of my .TRK files from APRTRAK on 01/15/95. I chose this one because it includes data from WB4APR:

```
c, 29.08867 ,-13.27301 , 8192
l,WB2NGZ    142327 @EL99mc]40W 3dBd OMNI 30'
l,WB4LTF    150019  <<UI>>:conv
l,W0RAO     150143  <UI>:SOUTH SEMINOLE MIDDLE SCHOOL
l,KD4KDR    150142  <UI>:@EL99lf]40W@60ft./Omni-3db
l,W3EAX     150141  <<D>>:
l,KE4QIZ    150140 >EL97SS,W3EAX*/V: <UI>:25 W into 3 el Yagi at 30 ft.
l,AD4OR     150140 >EL98QN,W3EAX*/V: <<UI>>:APRS 0.5 on line.
l,KK2L      150140 >EL86WX,W3EAX*/V: <<D>>:
l,N9AB      150140 >EN52XG,W3EAX*/V: <UI>:
l,N8AAQ     150140 >EN81RJ,W3EAX*/V: <UI>:APRS 0.5 on line.
l,W3ADO     150141 >FM18SX,W3EAX*/V: <<UI>>:APRS 0.5 on line.
l,WB4APR    150141 >FM19QD,W3EAX*/V: <<UI>>:25w 6dB omni
l,N3OBQ     150141 >FM19XN,W3EAX*/V: <<UI>>:HI WORLD!
p,KE4QIZ    150140 >EL97SS,2746.4 N/08027.6 W?W3EAX*/V: <UI>:25 W into 3 el
Yagi a
p,AD4OR     150140 >EL98QN,2833.6 N/08037.7 W?W3EAX*/V: <<UI>>:APRS 0.5 on
line.
p,KK2L      150141 >EL86WX,2659.1 N/08207.9 W?W3EAX*/V: <<C>>:
p,N9AB      150140 >EN52XG,4216.2 N/08802.7 W?W3EAX*/V: <UI>:
p,N8AAQ     150141 >EN81RJ,4123.6 N/08232.7 W?W3EAX*/V: <UI>:McCormick Middle
Scho
p,W3ADO     150141 >FM18SX,3858.7 N/07627.6 W?W3EAX*/V: <<UI>>:APRS 0.5 on
line.
p,WB4APR    150141 >FM19QD,3909.1 N/07638.4 W?W3EAX*/V: <<UI>>:25w 6dB omni
p,N3OBQ     150141 >FM19XN,3933.5 N/07602.0 W?W3EAX*/V: <<UI>>:HI WORLD!
a,W3EAX>KC4YAU/V: <<I1>>:REFLEX
16:28:33>AA558011060000008F777F966300000000B61207000300EB707896600000803FCA130
```

```
8000000F96A79965D5D
a,W3EAX>KC4YAU/V: <<I2>>:REFLEX
16:28:33>AA55801207000300EB707896600000803FCA1308000000F96A79965D000000001A140
0000000A0657A965A0B
a,W3EAX>KC4YAU/V: <<I3>>:REFLEX
16:28:33>AA55801308000000F96A79965D000000001A1400000000A0657A965A0000000022150
0000000C960779658B4
a,W3EAX>KC4YAU/V: <<I4>>:REFLEX
16:28:33>AA55801400000000A0657A965A00000000221500000000C96077965800000000006160
0000000635C80965572
a,W3EAX>KC4YAU/V: <<D>>:
a,W3EAX>KC4YAU/V: <<D>>:
a,W3EAX>KC4YAU/V: <<D>>:
a,N3OBQ>FM19XN,W3EAX*/V: <<UI>>:HI WORLD!
a,W3EAX>KC4YAU/V: <<D>>:
a,W3EAX>KC4YAU/V: <<D>>:
a,W3EAX>KC4YAU/V: <<D>>:
a,W0RAO>APRS,W3EAX/V: <UI>:SOUTH SEMINOLE MIDDLE SCHOOL
a,W0RAO>APRS,W3EAX/V: <UI>:SOUTH SEMINOLE MIDDLE SCHOOL
a,KD4KDR>APRS,W3EAX/V: <UI>:@EL99lf]40W@60ft./Omni-3db
a,W0RAO>APRS,W3EAX/V: <UI>:SOUTH SEMINOLE MIDDLE SCHOOL
r,
r,
r,
r,
r,
r,
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r,
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r,
r,
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r,
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r,
r,
r,
r,
r,
r,
r,
r,
r,TIME * TICK:01-15-1996 01:00:01
h,TIME      , 1 , 999
h,WB4LTF    , 0 , 999
h,W0RAO     , 26 , 999
h,KD4KDR    , 4 , 999
h,W3EAX     , 33 , 999
h,KE4QIZ    , 1 , 999
h,AD4OR     , 1 , 999
h,KK2L      , 2 , 999
h,N9AB      , 2 , 999
h,N8AAQ     , 2 , 999
h,W3ADO     , 1 , 999
h,WB4APR    , 1 , 999
h,N3OBQ     , 1 , 999
```

---

427. Re: [APRSSIG:5973] APRS for Windows

From: JAgrelo@aol.com
Date: Mon, 15 Jan 1996 09:45:20 -0500
To: aprssig@tapr.org
Message-ID: <960115094519_42250725@emout06.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-01-13 17:37:42 EST, you write:

> Hey beta testers, how about some comments from you guys testing
>Mr. Sproul`s WinAPRS program. I would like to here your comments,
>feedback on how you like the program. Give us aprssig win/users a
>little input on what we have to look forward to.
>lthank you Charles

This is request is totaly up to Mark & Keith.

 73 de Joe N2OOC

```
-----------------------------------------------------------------------------
----------------
                                           Joe Agrelo/N2OOC
```

```
                                  Agrelo Engineering
                                   Ph (518)381-1057
                                   Fx (518)381-1058
                                E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                  and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
------------------------------------------------------------------------------
-----------------
```

---

428. SPRE is working

From: deang@MAIL.SYNTRON.COM
Date: Mon, 15 Jan 96 08:55:58 CST
To: aprssig@tapr.org
Cc: ALLER@MAIL.phoenix.net, willm@MAIL.phoenix.net
Message-ID: <9600158217.AA821724958@MAIL.SYNTRON.COM>
Rendered body type: text/plain

On the 2nd pass over Katy, Tx SPRE was working GREAT. It was nice watching all the stations popup on my screen as it flew overhead. I listened on the next pass and heard NOTHING. I knew then that it had died a horrible death. Bad news for those who were waiting until tomorrow!

Here is what I copied on the first two passes... (without telemetry)

```
     #1
     ----------------------------------------------------------------------
XE1KK>EK09KH,W3EAX*/1: <<UI>>:PSE QSL via xe1kk@amsat.org
XE1KK>EK09KH,W3EAX*/1: <<UI>>:PSE QSL via xe1kk@amsat.org
XE1KK>EK09KH,W3EAX*/1: <<UI>>:PSE QSL via xe1kk@amsat.org
KO4HD-2>EL95US,W3EAX*/1: <UI>:Steve 45W,6dBomni@20ft
KC5KGE>EL29CS,W3EAX*/1: <UI>:de George 50W Omni w/9dB

     #2
     ---------------------------------------------------------------------
WB6LLO>APRS,W3EAX*/1: <<UI>>:Ping! (test pkt VIA W3EAX)
KC7GNM>DM41UN,W3EAX*/1: <UI>:3134.71N/11016.40W]KPC-3,WE-800 RADIO,DISCONE ANT
KC7GNM>DM41UN,W3EAX*/1: <UI>:@142334/3134.71N/11016.40W]KPC-3 & WE-800 RADIO
WS5R>DM95CF,W3EAX*/1: <<UI>>:APRS 0.5 on line.
KC7GNM>DM41UN,W3EAX*/1: <UI>:3134.71N/11016.40W]KPC-3,WE-800 RADIO,DISCONE ANT
N5ITU>EM13NA,W3EAX*/1: <UI>:Dallas Remote Imaging Group sysop@drig.com
XE2MXU>DL95UO,W3EAX*/1: <<UI>>:Luis; fjorozco@academ01.mty.itesm.mx
N5ITU>EM13NA,W3EAX*/1: <UI>:Dallas Remote Imaging Group sysop@drig.com
N5ITU>EM13NA,W3EAX*/1: <UI>:Dallas Remote Imaging Group sysop@drig.com
KC5HHN>EM10TO,W3EAX*/1: <UI>:APRS 0.5 on line.
KD4SEV>EM60SJ,W3EAX*/1: <UI>:APRS 0.5 on line.
KC5FEV>EL29FS,W3EAX*/1: <<UI>>: Use A.P.R.S.! ver 7.4e Online!
WS5R>DM95CF,W3EAX*/1: <<UI>>:BLN      :Hello From Ben DM95cf{1
WA5SLG>EM22IH,W3EAX*/1: <<UI>>:35w 6di vertical
KK2L>E86WX,W3EAX*/1: <<C>>:
KD4UYR>EL87OU,W3EAX*/1: <UI>:APRS 7.4e on line.
N5ITU>EM13NA,W3EAX*/1: <UI>:Dallas Remote Imaging Group sysop@drig.com
KE4EER>APRS,W3EAX*/1: <UI>:W3EAX    :Heelo frm Bill{1
KC5EJK>EM12OU,W3EAX*/1: <<UI>>:
KE4EER>APRS,W3EAX*/1: <UI>:W3EAX    :Hello from KE4EER{2
KC5EJK>EM12OU,W3EAX*/1: <<UI>>:
KE4EER>APRS,W3EAX*/1: <UI>:W3EAX    :Hello from KE4EER{2
KK2L>EL86WX,W3EAX*/1: <<D>>:
WB5QLD>EM12JU,W3EAX*/1: <UI>:40W @ 25ft
N5ITU>EM13NA,W3EAX*/1: <UI>:Dallas Remote Imaging Group sysop@drig.com
WD5DZC>APRS,W3EAX*/1: <UI>:Marty
KO4HD-2>EL95US,W3EAX*/1: <UI>:Steve...45W-6dB omni@20ft
KD4UYR>EL87OU,W3EAX*/1: <UI>:APRS 7.4e on line.
KK2L>EL86WX,W3EAX*/1: <<C>>:
KC5KGE>EL29CS,W3EAX*/1: <UI>:KE4EER   :Howdy    {2
KE4EER>APRS,W3EAX*/1: <UI>:KC5KGE   :ack2
N9AB>EN52XG,W3EAX*/1: <UI>:
```

```
        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
```

429. Re: [APRSSIG:6018] Re: 80m traffic

From: dwetzel@uswest.com
Date: Mon, 15 Jan 1996 09:11:21 -0600
To: aprssig@tapr.org
Message-ID: <0fa726a0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
So were we! (15 watts)

Doug & Bruce

KC7CO
KJ7HZ
______________________________________________________________________________
Subject: [APRSSIG:6018] Re: 80m traffic
From:    aprssig@tapr.org at Internet-Mail
Date:    1/14/96  22:15

>
> This evening at 0328z I received a position packet from KJ7HZ-1 somewhere
aroun
d
> SLC (4031.48N,11150.55W).  Freq was 3584.8kHz.  Also got position packet from
> WB6NGC but he's only 6 miles away.
>
> 73 - Jon NW6H
>
>

Yeah, but I was only running 15 watts ;)

Dick WB6NGC
```

---

430. Maps

From: ke4eer@ro.com (William Nolle)
Date: Mon, 15 Jan 1996 11:36:25
To: aprssig@tapr.org
Message-ID: <199601151744.LAA26686@sh1.ro.com>
Rendered body type: text/plain

```
Sure wish someone would upload the new Map software tp Tapr!!

Bill KE4EER
ke4eer@ro.com
```

---

431. my j list

From: Jack Fetter <jackf@on-ramp.net>
Date: Mon, 15 Jan 1996 13:09:07 -0500
To: aprssig <aprssig@tapr.org>
Message-ID: <30FA9843.3F94@on-ramp.net>
Rendered body type: text/plain

```
I attached my J List from my TNC. I checked my clock and it seems to be
on time. These times do not agree with the times that aprtrak and
Instant Track showed. Just wondering if others had these times. I did
not have the APRTRAK program running, I went to bed and got up at 2 AM.
I evidently missed the first pass. I turned computer off and went to
bed. Should have left it run! de Jack KB8DP in Marion, oh
```

[Attachment: Spre0115.txt; text/plain; 662 bytes]

---

432. Fixing up SPRE history files

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Mon, 15 Jan 1996 12:42:19 -0600
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <v02130500ad204f7e27c1@[204.181.160.1]>
Rendered body type: text/plain

```
Since the SPRE GPS was not getting correct data for its positions, I hand
edited my history files so the satellite plots when the history file is
run.

For example:

W3EAX     150035 @151622z1526.90N/00235.60ES Spartan SPRE/A=765843

becomes:

W3EAX     150035 @150635z2038.40N/10301.20WS Spartan SPRE/A=765843
```

I changed the UTC time and the lat/long. My times were CST. That lat/long were calculated at hh:mm:30 as the transmissions seemed to be in the moddle of the minute. Close enuf.

Ron W5RKN

also:
rparsons@bga.com

433. SPRE Stuff

From: dwetzel@uswest.com
Date: Mon, 15 Jan 1996 12:22:58 -0600
To: aprssig@tapr.org
Message-ID: <0fa9fb40@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Is circular polarization recommended for SPRE, and if so, what sense?

Disappointing results from 40.31N last night. No frames of any kind copied.

Doug
KC7CO

434. More SPRE

From: dwetzel@uswest.com
Date: Mon, 15 Jan 1996 13:05:21 -0600
To: aprssig@tapr.org
Message-ID: <0faa9700@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Also, when is the SPARTAN payload going to be retrieved?

Doug
KC7CO

435. SPRE-APRtrak early results

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 15:31:50 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960115152001.6202B-100000@greatlakes>
Rendered body type: text/plain

The end of this message can be cut and loaded into APRtrak or APRS to see all of the POSITS reported via SPRE. THIS IS PRELIMINARY! It will not be reposted again until the FINAL report. Sorry for the bandwidth..

SPRE was activated at about 1312z on the 14th over the Pacific. The first POSIT (from Taiwan) was reported at 1530z in Japan. Packets were reported from Hawaii at 1725z but no other reports have been received from Asia over to Europe. Monday morning at 0330z, 6 POSITS were heard in Florida followed by 11 more at 0505z, and then 38 more at 0640z extending from Vermont to Arizona and Chicago. SPRE has not been heard since about 0730z after it received a command uplink from a station in Austrailia. SPRE was scheduled to remain on until about 1100z on the 16th. Keep listening...

If you have confirmed POSITS that were *known* to be digipeated by W3EAX send them to me and I will add to the following file. Please send the POSIT as it appears on the P-LIST. Thanks. Some BEACONS were edited to make them fit the 80 char line.

```
----------------cut here----------
c, 20, 1, 8192
l,W3EAX     150509 GPS_TIME 14:56:04>4147CC5F390344413000001003
l,BV1AF     141530 >PL04VQ,W3EAX* <UI>:45w 13dB beam
l,WH6YHC    141725 [awaiting data from Hawaii]
l,KO4HD-2   150329 >EL95US,W3EAX* <UI>:Steve 45W,6dBomni@20ft
l,KT4FI     150329 >EL96UD,W3EAX* <UI>:Dennis Sunrise,FL 50w/8db omni/30ft
l,KE4YGT    150330 >EL98QC,W3EAX* <UI>:50w into 5el 2m beam
l,KA1VRF    150330 >EL97TO,W3EAX* <UI>:wayne vero beach
l,KE4QIZ    150330 >EL97SS,W3EAX* <UI>:25 watts into 3 el Yagi
l,K3CEW     150331 >EL97RP,W3EAX* <UI R>:35 watts to ringo
l,WA4VAF    150506 >EM95RF,W3EAX* <UI C>:APRS 0.5 on line.
l,WA6RTX    150506 Bill - Lakeland, Fl
l,KD4SEV    150506 >EM60SJ,W3EAX* <UI>:APRS 0.5 on line.
l,KE4LQF    150506 >EL98QA,W3EAX* <UI>:BREVARD CO. FL.
l,KD4RSX    150507 @142253/APRS 7.4 on line.
```

```
l,N4ZQ      150507 >EL87UX,W3EAX* <UI>:N4ZQ@aol.com
l,KD4UYR    150507 >EL87OU,W3EAX* <UI>:
l,W3ADO-1   150507 @150141/25w 12 db beam
l,WA3RWP    150507 >FM18OV,W3EAX <UI C>:160W INTO 6DB OMNI
l,N3OBQ     150508 >FM19XN,W3EAX* <UI C>:HI WORLD!
l,N3EZD     150508 >FM19OF,W3EAX* <UI>:APRS 7.4e on line.
l,WB6LLO    150634 >APRS,W3EAX*<<UI>>:Ping! (test pkt via W3EAX)
l,KC7GNM    150634 >DM41UN,W3EAX*:KPC-3=ACVE-800*RGDIO,DISCONE ANT
l,XE2MXU    150635 >DL95UO,W3EAX*:Luis; fjorozco@academ01.mty.itesm.mx
l,KB5SDW    150636 >EM50BH,W3EAX*:APRS 0.5 on line.
l,XE1KK     150636 >EK09KH,W3EAX*:5W + Omni 3dB @ 30ft
l,KD4DS     150636 >EM60IK,W3EAX*:Russ in Pensacola
l,N5XDN     150636 >EM16LR,W3EAX*:7W 13dB beam
l,KC5HHN    150636 >EM10TF,W3EAX*:APRS 0.5 on line.
l,KC5EJK    150637 >EM12OU,W3EAX*:
l,AD4OR     150640 >EL98QN,W3EAX*:APRS 0.5 on line.
l,KF4BVD    150638 >EM73TU,W3EAX*:EM74TU 150 Watts into 15 DB
l,KE4KQB    150639 >EM73UV,W3EAX*:
l,KE4QIZ    150640 >EL97SS,W3EAX*:25 W into 3 el Yagi at 30 ft.
l,KC5FEV    150637 >EL29FS,W3EAX*: Use A.P.R.S.!#ver 7.4e
l,N5ITU     150636 >EM13NA,W3EAX* <UI>:Dallas Remote Imaging Group sysop@drig
l,WA5SLG    150636 >EM22IH,W3EAX* <UI>:35w 6di vert
l,WB5QLD    150636 >EM12JU,W3EAX* <UI>:40w @ 25ft
l,KB0NRK    150637 >EL29OH,W3EAX* <UI>:Earl 30w 3db omni
l,KC5GKE    150637 >EL29CS,W3EAX* <UI>:50w89db omni
l,WS5R      150638 >DM95CF,W3EAX* <UI>:APRS 0.5 on line
l,KE4EER    150638 >APRS <UI>:W3EAX    :Hello from KE4EER
l,WD5DZC    150638 >APRS <UI>:Marty
l,WB4APR    150640 >FM19QD,W3EAX* <UI>:25w 6dB omni
l,N9AB      150640 >EN52XG,W3EAX* <UI>:
l,N8AAQ     150640 >EN81RJ,W3EAX* <UI>:APRS 0.5 on line.
l,KK2L      150641 >EL86WX,W3EAX* <C C P>
l,KE4QJH    150642 >FM18CN,W3EAX* <UI>:APRS 0.5 on line.
l,W0QDP     150642 >FM18AG,W3EAX* <UI C>:73 from Orange, Va.
l,N2MSM-14  150642 @150149/T030/R.../P.../U-II(auto)
l,WA7ZZB    150642 >FM19SD,W3EAX* <UI C>:
l,N2NRD     150642 >FM29LQ,W3EAX* <UI C>:170W/13EL
l,KC4NHB    150643 >EL97SN,W3EAX* <UI C>:@EL97sn] 25 Watts 5/8 Omni
l,KA3DBK    150644 scout@cent.com
l,N2SNQ     150646 >APRS,W3EAX*/V:@150146/4001.80N/07454.35W-/mike
l,K1HJC     150646 >FN43HB,W3EAX*/V:APRS 0.5 on line.
l,N3JLQ     150647 >FM19VO,W3EAX*/V:
l,N2BRG     150648 >QTH,W3EAX*/V:@EL87ov]Gary-Seminole,FL
p,W3EAX     150508 @151455z2026.80N/03737.64ES Spartan SPRE/A=706851
p,BV1AF     141530 >PL04VQ,2441.1 N/12147.4 E?W3EAX* <UI>:45w 13dB beam
p,WH6YHC    141725 >BL01XH,2119.4 N/15801.7 W?unconfirmed report so far...
p,KO4HD-2   150329 >EL95US,2546.7 N/08018.0 W?W3EAX* <UI>:Steve 45W,6dB omni
p,KT4FI     150329 >EL96UD,2609.3 N/08018.1 W?W3EAX* <UI>:Dennis 50w/8dB
p,KE4YGT    150330 >EL98QC,2806.4 N/08037.2 W?W3EAX* <UI>:50w to 5el beam
p,KA1VRF    150330 >EL97TO,2736.1 N/08022.5 W?W3EAX* <UI>:wayne vero beach
p,KE4QIZ    150330 >EL97SS,2746.4 N/08027.6 W?W3EAX* <UI>:25w to 3 el Yagi
p,K3CEW     150331 >EL97RP,2738.4 N/08032.4 W?W3EAX* <UI R>:35 watts to ringo
p,WA4VAF    150506 >EM95RF,3514.1 N/08032.4 W?W3EAX* <UI C>:APRS 0.5 on line.
p,KD4SEV    150506 >EM60SJ,3023.9 N/08627.5 W?W3EAX* <UI>:APRS 0.5 on line.
p,KE4LQF    150506 >EL98QA,2801.4 N/08037.9 W?W3EAX* <UI>:BREVARD CO. FL.
p,KD4RSX    150507 @142306/3036.79N/08655.62W-PHG7430/RANDALL, MAILBOX-1
p,N4ZQ      150507 >EL87UX,2758.6 N/08215.7 W?W3EAX* <UI>:N4ZQ@aol.com
p,KD4UYR    150507 >EL87OU,2751.1 N/08247.5 W?W3EAX* <UI>:
p,W3ADO-1   150507 >FM18SX,3859.1 N/07629.1 W?W3EAX* <UI>:25w 13db Beam
p,WB4APR    150508 >FM19QD,3909.00N/07636.00W/NewUser
p,WA3RWP    150508 >FM18OV,3854.1 N/07647.6 W?W3EAX <UI C>:160W INTO 6DB OMNI
p,N3OBQ     150508 >FM19XN,3933.5 N/07602.0 W?W3EAX* <UI C>:HI WORLD!
p,N3EZD     150508 >FM19OF,3913.5 N/07646.3 W?W3EAX* <UI>:APRS 7.4e on line.
p,KC7GNM    150635 >DM41UN,3133.9 N/11017.9 W?W3EAX*:KPC-3,WE-8
p,XE2MXU    150635 >DL95UO,2536.7 N/10017.9 W?W3EAX*:fjorozco@academ01.mty.i
p,KB5SDW    150636 >EM50BH,3018.8 N/08952.5 W?W3EAX*:APRS 0.5 on line.
p,XE1KK     150636 >EK09KH,1919.2 N/09908.1 W?W3EAX*:5W + Omni 3dB @ 30ft
p,KD4DS     150636 >EM60IK,3026.4 N/08718.3 W?W3EAX*:Russ in Pensacola
p,N5XDN     150636 >EM16LR,3643.6 N/09701.5 W?W3EAX*:7W 13dB beam
p,KC5HHN    150636 >EM10TF,3013.9 N/09623.0 W?W3EAX*:APRS 0.5 on line.
p,KC5EJK    150637 >EM12OU,3251.3 N/09648.1 W?W3EAX*:
p,AD4OR     150640 >EL98QN,2833.6 N/08037.7 W?W3EAX*:APRS 0.5 on line.
p,KF4BVD    150638 >EM73TU,3351.4 N/08423.3 W?W3EAX*:EM74TU 150 W to 15 DB
p,KE4KQB    150639 >EM73UV,3353.9 N/08417.9 W?W3EAX*:
p,KE4QIZ    150640 >EL97SS,2746.4 N/08027.6 W?W3EAX*:25 W to 3 el Yagi @ 30'
p,KC5FEV    150637 >EL29FS,2946.4 N/09533.1 W?W3EAX*: Use A.P.R.S.!#ver 7.4e
p,N5ITU     150636 >EM13NA,3301.1 N/09652.5 W?W3EAX* <UI>:Dallas Remote Imag
p,WA5SLG    150636 >EM22IH,3218.6 N/09517.5 W?W3EAX* <UI>:35w 6di vert
p,WB5QLD    150636 >EM12JU,3251.1 N/09712.5 W?W3EAX* <UI>:40w @ 25 ft
```

```
p,KB0NRK    150637 >EL29OH,2919.0 N/09447.5 W?W3EAX* <UI>:Earl 30w 3dB omni
p,KC5GKE    150637 >EL29CS,2946.1 N/09547.5 W?W3EAX* <UI>:50w89dB omni
p,WS5R      150638 >DM95CF,3514.0 N/10147.5 W?W3EAX* <UI>:APRS 0.5 on line
p,N9AB      150640 >EN52XG,4216.2 N/08802.7 W?W3EAX* <UI>:
p,N8AAQ     150641 >EN81RJ,4123.6 N/08232.7 W?W3EAX* <UI>:McCormick Mdl Schl
p,KK2L      150644 >EL86WX,2659.1 N/08207.9 W?W3EAX* <D C P>
p,KE4QJH    150642 >FM18CN,3833.9 N/07747.6 W?W3EAX* <UI>:APRS 0.5 on line.
p,W0QDP     150642 >FM18AG,3816.2 N/07756.8 W?W3EAX* <UI C>:73 Orange, Va.
p,N2MSM-14  150642 @150149/Terrestrial Posit _202/000/T030/R.../U-II(auto)
p,WA7ZZB    150642 >FM19SD,3909.1 N/07627.0 W?W3EAX* <UI C>:
p,N2NRD     150642 >FM29LQ,3941.0 N/07501.3 W?W3EAX* <UI C>:170W/13EL
p,WA4VAF    150643 >EM95RF,3514.1 N/08032.4 W?W3EAX* <UI C>:APRS 0.5 on line.
p,KC4NHB    150643 >EL97SN,2733.9 N/08027.7 W?W3EAX* <UI C>:@EL97sn] 25W 5/8
p,N2SNQ     150646 @150146/4001.80N/07454.35W-/mike
p,K1HJC     150646 >FN43HB,4303.6 N/07122.5 W?W3EAX*/V:APRS 0.5 on line.
p,N3JLQ     150646 >FM19VO,3936.1 N/07612.5 W?W3EAX*/V:
p,N2BRG     150647 @EL87OV,2753.6 N/08247.5 W?W3EAX*/V:@EL87ov]Gary-Seminole
r,WS5R>BLN   :Hello From Ben DM95cf{1
r,W3ADO>BLN1 :Dont do this! Bulletins not fair, hi hi {2
r,W3ADO>4HD-2:I culdn't resist!{3
r,KE4EER>3EAX:Heelo frm Bill{1
r,KE4EER>3EAX:Hello from KE4EER{2
r,KE4EER>3EAX:Hello from KE4EER{2
r,KC5KGE>4EER:Howdy    {2
r,KE4EER>5KGE:ack2
h,TIME      , 15 17 0  3  5  6  7  8, 999
h,W3EAX     , 10 0  0  18 55 57 0  0, 999
h,BV1AF     , 2  0  0  0  0  0  0  0, 999
h,WH6YHC    , 0  2  0  0  0  0  0  0, 999
h,KO4HD-2   , 0  0  0  1  2  1  0  0, 999
h,KT4FI     , 0  0  0  1  1  0  0  0, 999
h,KE4YGT    , 0  0  0  1  1  0  0  0, 999
h,KA1VRF    , 0  0  0  1  0  0  0  0, 999
h,KE4QIZ    , 0  0  0  1  1  0  0  0, 999
h,K3CEW     , 0  0  0  1  1  0  0  0, 999
h,WA4VAF    , 0  0  0  0  1  1  0  0, 999
h,WA6RTX    , 0  0  0  0  1  0  0  0, 999
h,KD4SEV    , 0  0  0  0  1  0  0  0, 999
h,KE4LQF    , 0  0  0  0  1  0  0  0, 999
h,KD4RSX    , 0  0  0  0  2  0  0  0, 999
h,N4ZQ      , 0  0  0  0  1  0  0  0, 999
h,KD4UYR    , 0  0  0  0  1  2  0  0, 999
h,W3ADO-1   , 0  0  0  0  2  2  0  0, 999
h,WA3RWP    , 0  0  0  0  1  1  0  0, 999
h,N3OBQ     , 0  0  0  0  2  1  0  0, 999
h,N3EZD     , 0  0  0  0  1  0  0  0, 999
h,WB6LLO    , 0  0  0  0  0  1  0  0 , 999
h,KC7GNM    , 0  0  0  0  0  2  0  0 , 999
h,XE2MXU    , 0  0  0  0  0  1  0  0 , 999
h,KB5SDW    , 0  0  0  0  0  1  0  0 , 999
h,XE1KK     , 0  0  0  0  0  1  0  0 , 999
h,KD4DS     , 0  0  0  0  0  1  0  0 , 999
h,N5XDN     , 0  0  0  0  0  1  0  0 , 999
h,KC5HHN    , 0  0  0  0  0  1  0  0 , 999
h,KE4EER    , 0  0  0  0  0  6  0  0 , 999
h,KC5EJK    , 0  0  0  0  0  1  0  0 , 999
h,AD4OR     , 0  0  0  0  0  2  0  0 , 999
h,KF4BVD    , 0  0  0  0  0  1  0  0 , 999
h,KE4KQB    , 0  0  0  0  0  1  0  0 , 999
h,KE4QIZ    , 0  0  0  0  0  1  0  0 , 999
h,KC5FEV    , 0  0  0  0  0  1  0  0 , 999
h,N5ITU     , 0  0  0  0  0  5  0  0, 999
h,WA5SLG    , 0  0  0  0  0  1  0  0, 999
h,WB5QLD    , 0  0  0  0  0  2  0  0, 999
h,KB0NRK    , 0  0  0  0  0  1  0  0, 999
h,KC5GKE    , 0  0  0  0  0  1  0  0, 999
h,WS5R      , 0  0  0  0  0  1  0  0, 999
h,KE4EER    , 0  0  0  0  0  1  0  0, 999
h,WD5DZC    , 0  0  0  0  0  1  0  0, 999
h,WB4APR    , 0  0  0  0  0  1  0  0, 999
h,N9AB      , 0  0  0  0  0  1  0  0, 999
h,N8AAQ     , 0  0  0  0  0  3  0  0, 999
h,KK2L      , 0  0  0  0  0  4  0  0, 999
h,KE4QJH    , 0  0  0  0  0  1  0  0, 999
h,W0QDP     , 0  0  0  0  0  1  0  0, 999
h,N2MSM-14  , 0  0  0  0  0  1  0  0, 999
h,WA7ZZB    , 0  0  0  0  0  1  0  0, 999
h,N2NRD     , 0  0  0  0  0  1  0  0, 999
h,KC4NHB    , 0  0  0  0  0  1  0  0, 999
```

```
h,KA3DBK    , 0  0  0  0  0  1  0  0, 999
h,N2SNQ     , 0  0  0  0  0  1  0  0, 999
h,K1HJC     , 0  0  0  0  0  1  0  0, 999
h,N3JLQ     , 0  0  0  0  0  1  0  0, 999
h,N2BRG     , 0  0  0  0  0  1  0  0, 999
```

---

436. NO IL APRS Net (DOS)

From: jleonard@tbcnet.com (John B. Leonard)
Date: Mon, 15 Jan 1996 14:47:59 -0600
To: aprssig@tapr.org
Message-ID: <199601152047.OAA31130@tbc2.tbcnet.com>
Rendered body type: text/plain

The Web (DOS) page for activity within the Northern IL APRS Net has moved to

http://tbcnet.com/~jleonard/n9vjq.html

```
--------------------------------------------------------------------------
Get a second opinion...nobody's perfect.
--------------------------------------------------------------------------
J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

---

437. SPRE

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 15 Jan 1996 16:15:53 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE364.C39EA9E0@lub13.onramp.net>
Rendered body type: text/plain

I can't believe it...
I'm dumb...
I'm stupid...

I practiced all week with APRtrak...

I painstakingly setup APRtrak Sunday night and went to bed...

Got up Monday morning...

I had forgotten to turn the blasted radio on!   ARRRRGGGGHHHHH!!!

Larry Griffin <largriff@onramp.net> - BOWING FOR APPLAUSE

P.S. See, no matter how bad you think you have it, there's always
      someone else who is worse off! Today, I am that person!

---

438. Tech Project/Quiz for the Sig

From: n2czf@gate.net
Date: Mon, 15 Jan 1996 18:12:46 -0500
To: aprssig@tapr.org
Message-ID: <199601152312.SAA26278@osceola.gate.net>
Rendered body type: text/plain

Ok now with more and more areas interested in seting up multiple GATES I have a brain teaser for everyone to ponder and try. Post all messages to the sig and not just personal mail this way everyone can participate in a group.

Example : Station with SEPERATE radios for 80M, 40M, 20M, 30M, 17M, and 6M and one 2 meter. This station just "happens to own" 6 TNC's that can GATEWAY and is willing to dedicate all radios to APRS. Having gone bankrupt buying 6 GATE compatable TNC's and a "few more" HF radios to the project our friend "Joe" cannot afford to buy anymore 2M radios for 145.79. Joe can't even afford dinner tonight let alone 5 more 2M antennas to attach to the radios! How can Joe put all of his brand new equipment on the air as a GATEWAY with 1 VHF radio ??

We can probably get away with a bunch of connectors in a box with some good filtering techniques and diodes to prevent the PTT to "cross key" the HF radios. Also some more diodes and capacitors in the audio line to prevent the audio of one TNC going to all, but this can lead to many other different problems. We are now talking about 6!! different bands, if there is just a little activity on each and the normal ammount on 30M this would lead to A LOT of potential conflicts (traffic jam on RX and PTT).

Anyone have any ideas or food for thought ?? I myself have the problem with only

2 HF bands, some others are also in the same boat. Soon I can add 6M to the list and I am sure some soul out there will try for more bands as APRS grows. The idea of 3 antennas for 145.79 does not interest me and the idea of 2 more VHF radios, 1 to replace my HT on 30, one for 6M when it comes and my other one on 80M is not too appealing.

It sure would be nice if some of these node code writers would sit up and listen so standard TNC's could be used as in a NODE STACK, and only 1 radio would be needed per band with the TNC's connected in a diode matrix!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

439. SPRE telemetry

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 15 Jan 1996 17:28:50 -0600
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil
Message-ID: <v02130500ad209001969e@[199.1.11.102]>
Rendered body type: text/plain

Just a quick note to tell people posting the RAW SPRE data that the
transmitted data format is longer than 80 characters.
Several of the reports (Mine included) were truncated.
The GPS location will not plot during post processing and telemetry is also cut short.

Open your mail reader WIDE for this: About 116 positions should do it and use a mono-spaced font

```
---------------------------------------------------------------------------------------------------1----
-----1------
         1         2         3         4         5         6         7         8         9         0
         1
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
567890123456

W3EAX>WORLD:GPS_LOCATION
04:27:50>83415080872387E394414F4663244A8EA441470CA9A3E8DD59000000000000000000000000001003
W3EAX>WORLD:SPRE_TELEM 04:28:57>00:83 01:91 02:00 03:92 04:00 05:CF 06:00 07:AB 08:60 09:00 0A:9E 0B:92
0C:98
W3EAX>WORLD:GPS_TIME 04:29:12>4147830F8D0344413000001003
W3EAX>WORLD:GPS_LOCATION
04:28:57>83414E37CF6E79F2BF4150CE4CEC943DC741479349511E967A000000000000000000000000001003
W3EAX>WORLD:REFLEX
04:29:32>AA55802800320000D032FB964000A088442E29003300009231F79640004008451E2A003400006430F8963FE3
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

440. SPRE-APRtrak early results

From: deang@MAIL.SYNTRON.COM
Date: Mon, 15 Jan 96 17:29:26 CST
To: aprssig@tapr.org
Message-ID: <9600158217.AA821755766@MAIL.SYNTRON.COM>
Rendered body type: text/plain

> If you have confirmed POSITS that were *known* to be digipeated by
> W3EAX send them to me and I will add to the following file. Please
> send the POSIT as it appears on the P-LIST. Thanks. Some BEACONS
> were edited to make them fit the 80 char line.

I'm not sure who to send this to since the message requesting corrections did NOT have an e-mail address on it...but here goes :

Please edit my POSIT. For some reason, you have it listed as KC5GKE.

```
> l,KC5GKE    150637 >EL29CS,W3EAX* <UI>:50w89db omni
> p,KC5GKE    150637 >EL29CS,2946.1 N/09547.5 W?W3EAX* <UI>:50w89dB omni >
> h,KC5GKE    , 0  0  0  0  0  1  0  0, 999
```

From my log file ...

```
KC5KGE>EL29CS,W3EAX*/1: <UI>:de George 50W Omni w/9dB
KC5KGE>EL29CS,W3EAX*/1: <UI>:KE4EER   :Howdy    {2
```

From others on APRSSIG ... (email address removed to keep under 80 columns)
from W5RKN:

```
> l,KC5KGE    150038 >EL29CS,W3EAX*:de George 50w 9dB Omni
```

```
    > p,KC5KGE    150038 >EL29CS,2946.4 N/09547.8 W?W3EAX*:de George 50w 9dB
    > r,KC5KGE>4EER:Howdy    {2
    > h,KC5KGE    , 0  0  0  0  0  4  0  0  0 , 999

    from KC5EJK: (garbled copy)
    > KC5KGE>W3EAX*>EL29CS:de George 50w 9dB Omni M deang@xntron.com

       \\//
       (..)
   -ooO-(_)-Ooo-----------------------------------------------------
   | George Dean   KC5KGE    2946.13N 9545.72W    DEANG@syntron.com |
   -----------------------------------------------------------------
```

441. SPRE not heard from JAPAN on 15th.

From: "JJ1WTK Kazu Sakamoto" <jj1wtk@os.gulf.or.jp>
Date: Tue, 16 Jan 96 10:33:01 +0900
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <51243.jj1wtk@os.gulf.or.jp>
Rendered body type: text/plain

```
In JA, We had several passes of SPRE 1430z thru 2030z on 15th.
But nothing heard.

I'm very sorry, but I enjoyed it much on the birthday.
I had the many reception logs of SPRE from over 10 of JA hams.

BTW, is there ant next plan of SPRE onboard ?

de Kazu Sakamoto, JJ1WTK
---
 73,de Kazu Sakamoto,JJ1WTK <jj1wtk@os.gulf.or.jp> <jj1wtk@amsat.org>
!
```

442. Re: [APRSSIG:5978] RE: !!! BEST SATELLITE TRACKING PROG. !!!

From: RICKLUTZ@aol.com
Date: Mon, 15 Jan 1996 21:31:51 -0500
To: aprssig@tapr.org
Message-ID: <960115212113_42969926@mail06.mail.aol.com>
Rendered body type: text/plain

```
that program the latest issue is available from the amsat.org ftp.  I got it
a week ago and it is rather legnthly and in two files  sopXXXx.zip.   and for
those that don't have it it is the best one I have downloded yet although it
is a dos program.
```

443. garmin 45

From: marley@lu.lincoln.edu
Date: Mon, 15 Jan 1996 20:40:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601160240.UAA03066@sys1.tapr.org>
Rendered body type: text/plain

```
ONCE AGAIN I CAN'T GET MY COMPUTER TO TALK TO MY GARMIN45 GPS.
USING THE GARDOWN7 PROGRAM, IT WILL RECIEVE THE COMMANDS FROM THE COMPUTER,
BUT THE DATA IS NOT BEING RECIEVED BY THE COMPUTER.
ANY HELP WOULD BE APPRECIATED!  I WILL PRINT A COPY THIS TIME SO I WON'T
FORGET

                73  de N3OBQ
```

444. SAREX Mission STS-76 Fact Sheet

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Mon, 15 Jan 1996 21:13:34 -0600
To: aprssig@tapr.org
Message-ID: <199601160309.VAA03934@sys1.tapr.org>
Rendered body type: text/plain

```
>From: "Inderbitzen, Bob,  NQ1R" <rinderbitz@arrl.org>
>To: "Newkirk, Dave" <dnewkirk@arrl.org>,
>        "Lindquist, Rick, KX4V" <elindquist@arrl.org>,
>        "Swanson, Glenn,  KB1GW" <gswanson@arrl.org>,
>        "Hagy, Jennifer  N1TDY" <jhagy@arrl.org>,
>        "Mabey, Jay, NU0X" <jmabey@arrl.org>,
>        "Budnik, Peter,  KB1HY" <pbudnik@arrl.org>,
>        "White, Rosalie,  WA1STO" <rwhite@arrl.org>,
>        "Ford, Steve,  WB8IMY" <sford@arrl.org>
>To: "Mansfield, Steve,  N1MZA" <smansfield@arrl.org>,
>        "'Loftesness, Scott J - W3VS'" <76703.407@compuserve.com>,
>        "Gass, James - N3CJN" <james.gass@gsfc.nasa.gov>,
>        Spacenews <kd2bd@amsat.org>,
>        "'Bordelon, Matthew G.- KC5BTL'" <mbordel@phoenix.net>,
>        "Young, Michael" <michael@techimage.com>,
>        "'Nikolich, Mike - N9OVQ'" <mike@techimage.com>
>To: "'Mountjoy, Pam L.'" <pmountjoy@hr.hq.nasa.gov>,
>        "SAREX@AMSAT" <SAREX@amsat.org>,
>        Spacelink <slnews@spacelink.msfc.nasa.gov>,
>        "Stader, Terry - KA8SCP" <tstader@aol.com>,
>        Oscarreport <w1xt@amsat.org>,
>        "'McFadin, Louis W - W5DID'" <w5did@amsat.org>,
>        "'Nickel, John - WD5EEV'" <wd5eev@horizon.hit.net>
>Cc: "Quiat, M. (R. Mountain Dir)" <ag0x@arrl.org>,
>        "Comstock, Tom (West Gulf Dir)" <n5tc@arrl.org>,
>        "Mendelsohn, Steve (Hudson Dir)" <wa2dhf@arrl.org>
>Subject: SAREX Mission STS-76 Fact Sheet
>Date: Mon, 15 Jan 96 13:00:00 EST
>Encoding: 240 TEXT
>
>
>SAREX FACT SHEET - STS-76
>
>Media Contact:
>Jennifer Hagy
>Media Relations Assistant
>American Radio Relay League
>(860) 594-0328  (860) 594-0200
>
>Educational Contact:
>Bob Inderbitzen
>Educational Activities Department
>American Radio Relay League
>(860) 594-0213  (860) 594-0200
>
>SHUTTLE ASTRONAUTS TO SPEAK WITH STUDENTS
>VIA AMATEUR RADIO
>
>Amateur (or "ham") Radio operators from around the world will point their
>antennas at the sky during the upcoming shuttle mission, STS-76. Many of
>them hope to make radio contact with the astronauts aboard the Space
>Shuttle Atlantis. And, some of these amateurs have volunteered to assist
>student groups that have prepared questions to ask the astronauts via the
>ham radio airwaves. The project is called the Shuttle Amateur Radio
>EXperiment, or SAREX.
>
>The astronauts will use a radio aboard the shuttle, on frequencies used by
>ham radio operators, to talk directly with large groups of students.
>They'll demonstrate to young people, teachers, parents and communities how
>Amateur Radio energizes students about science, technology, and learning.
>
>To operate Amateur Radio from the space shuttle, one or more of the
>astronauts needs to have an Amateur Radio license. Astronaut Richard A.
>Searfoss will serve as the shuttle's Pilot, and has Amateur Radio call sign
>KC5CKM. Searfoss last operated SAREX from the Space Shuttle Columbia during
>mission STS-58 in October/November 1993. This will be his second shuttle
>flight. Linda M. Godwin is N5RAX, and will serve as a Mission Specialist.
>Her third shuttle flight, Godwin used ham radio aboard the shuttle Atlantis
>during STS-37 in April 1991, and from aboard Endeavour during STS-59 in
>April 1994. Ronald M. Sega is KC5ETH, and is also a Mission Specialist.
>Sega used SAREX from Discovery during the first joint US/Russian shuttle
>mission, STS-60, in February 1994. The remaining crew members include
>Commander Kevin P. Chilton, and Mission Specialists Shannon W. Lucid and
>Michael R. Clifford.
>
>During the mission, the shuttle will rendezvous and dock with the Russian
>Space Station Mir. Later, the shuttle will return to Earth, leaving Shannon
>Lucid with Mir for a 5 month stay aboard the Russian complex.
>
>Amateur Radio has been flying aboard the shuttles since 1983.
>
>WHEN: Launch is scheduled for March 21, 1996 at 0834 UTC (3:34 AM EST) from
>the Kennedy Space Center, Cape Canaveral, Florida. Landing is scheduled for
>March 30, 1995 at 1707 UTC (12:07 AM EST) at the Kennedy Space Center,
>Florida. 9 day mission.
>
>WHERE: The launch will place the shuttle into Earth orbit at an altitude of
>196-245 statute miles (315-394 km) and an inclination of 51.6 degrees.
>
>WHY: NASA's intent in making astronauts available for SAREX operations is
```

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>to involve the largest possible numbers of people, particularly students,
>in technology and the US space program with the help of Amateur Radio.
>
>During SAREX missions, the astronauts will typically make the following
>types of Amateur Radio contacts:
>     Scheduled radio contacts with schools.
>     Random radio contacts with the Amateur Radio community.
>     Personal contacts with the astronauts' families.
>
>CREW MEMBERS (and Amateur Radio call signs):
>     Kevin P. Chilton, Commander
>     Richard A. Searfoss, Pilot, KC5CKM
>     Shannon W. Lucid, Mission Specialist, call sign To Be Determined
>     Linda M. Godwin, Mission Specialist, N5RAX
>     Michael R. Clifford, Mission Specialist
>     Ronald M. Sega, Mission Specialist, KC5ETH
>
>PAYLOAD: Primary Payload--
>During the STS-76 mission, the Space Shuttle Atlantis makes its third trip
>to the Russian Space Station Mir. This is the third of seven shuttle
>flights to Mir, an effort known as Phase 1--the precursor to building the
>International Space Station.
>
>Additional STS-76 mission information can be obtained from NASA:
>     * NASA Spacelink computer information system (look under
>Spacelink.Hot.Topics)
>          BBS: (205) 895-0028 [VT-100, 8-N-1]
>          Telnet, FTP, and Gopher: spacelink.msfc.nasa.gov
>          World Wide Web: http://spacelink.msfc.nasa.gov
>          Internet TCP/IP address: 192.149.89.61
>     * NASA Shuttle World Wide Web Home Page: http://shuttle.nasa.gov
>
>SAREX SPONSORS: The Shuttle Amateur Radio EXperiment (SAREX) is sponsored
>by the American Radio Relay League (ARRL), The Radio Amateur Satellite
>Corporation (AMSAT) and The National Aeronautics and Space Administration
>(NASA). SAREX is supported by the Federal Communications Commission (FCC).
>
>PARTICIPATING SCHOOLS: A handful of schools are selected from around the
>world to make contact with the shuttle during most SAREX missions. These
>contacts are prearranged, giving the schools a greater chance at making a
>successful contact. Two or more students at each of the selected schools
>ask questions of the astronauts during the contact. The nature of these
>contacts embodies the primary goal of SAREX--to excite students' interest
>in learning.
>
>The following schools have been selected by the SAREX Working Group for a
>scheduled radio contact during this mission:
>
>Artesia Public Schools
>Artesia, NM
>
>Troy Middle School
>Troy, TX
>
>S.J. Davis Middle School
>San Antonio, TX
>
>Bethlehem Central Senior High School
>Delmar, NY
>
>University of Colorado
>(College of Engineering and Applied Science)
>Colorado Springs, CO
>
>
>ADDITIONAL INFORMATION FOR AMATEUR RADIO OPERATORS-
>
>SAREX RADIO FREQUENCIES: During most SAREX missions, many of the crew
>members will make random contacts with earth-bound hams. They make these
>contacts during their breaks, before and after meal time, and during their
>pre-sleep time. In fact, over the past years the astronauts have contacted
>thousands of amateurs around the world.
>
>Since this flight is a shuttle-Mir docking mission, and SAREX and Mir
>Amateur Radio stations usually share the same downlink frequency (145.55
>MHz), the SAREX Working Group has decided to use the following frequencies
>during this mission.
>
>The crew will use separate receive and transmit frequencies. PLEASE do not
```

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>transmit on the shuttle's DOWNLINK frequency. The DOWNLINK is your
>receiving frequency. The UPLINK is your transmitting frequency.
>
>     FM Voice Downlink: 145.84 MHz
>     FM Voice Uplink: 144.45, 144.47 MHz
>
>The crew will not favor either uplink frequency, so your ability to
>communicate with SAREX will be the "luck of the draw." Transmit only when
>the shuttle is within range of your station, and when the shuttle's station
>is on-the-air.
>
>CALL SIGNS: FM voice call signs--KC5CKM, N5RAX, KC5ETH
>
>QSL VIA: Send reports and QSLs to ARRL EAD, STS-76 QSL, 225 Main Street,
>Newington, CT 06111-1494, USA. Include the following information in your
>QSL or report: STS-76, date, time in UTC, frequency and mode. In addition,
>you must also include a SASE using a large, business-sized envelope if you
>wish to receive a card. The Nashoba Valley Amateur Radio Club in
>Massachusetts has generously volunteered to manage the cards for this
>mission.
>
>SHUTTLE TRACKING: Current Keplerian elements to track the shuttle are
>available from the following sources:
>     * NASA Spacelink computer information system
>          BBS: (205) 895-0028 [VT-100, 8-N-1]
>          Telnet, FTP, and Gopher: spacelink.msfc.nasa.gov
>          World Wide Web: http://spacelink.msfc.nasa.gov
>          Internet TCP/IP address: 192.149.89.61
>     * NASA SAREX WWW Home Page:
>          http://www.nasa.gov/sarex/sarex_mainpage.html
>     * ARRL
>          W1AW news bulletins (frequencies and times listed under "FOR
>FURTHER INFORMATION")
>          BBS: (860) 594-0306
>          World Wide Web: http://www.arrl.org/
>     * AMSAT
>          World Wide Web: http://www.amsat.org
>     * Johnson Space Center Amateur Radio Club
>          BBS: (713) 244-5625
>     * Goddard Amateur Radio Club
>          BBS: (301) 286-4137
>          World Wide Web: http://garc.gsfc.nasa.gov/www/garc-home-page.html
>          Packet: WA3NAN on 145.090 MHz in DC area
>
>CONFIGURATION: During STS-76, the SAREX hardware will be flown in
>configuration M. Configuration M uses the shuttle/Mir VHF radio for FM
>voice radio contacts.
>
>During final approaches to the Mir Space Station, a VHF radio is used by
>the shuttle Commander to radio the Mir crew by ship-to-ship communications,
>providing shuttle status and keeping them informed of major events from
>that point on, including confirmation of contact, capture and conclusion of
>damping. This same VHF radio is used by the crew for SAREX activities
>during shuttle/Mir docking missions.
>
>SAREX ELECTRONIC MAILING LIST:
>The Radio Amateur Satellite Corporation in North America (AMSAT-NA)
>operates the Internet host AMSAT.ORG to provide for efficient
>communications between people interested in the amateur satellite program.
>Periodic mailings to the SAREX list include information and press releases
>pertaining to SAREX missions. This mailing list is very active during SAREX
>missions, and can be fairly quiet in between missions. To subscribe to the
>SAREX mailing list, send a message with your request to listserv@amsat.org.
>Be sure to include your call sign (if any), your correct email address, and
>the proper name of the mailing list you wish to receive (SAREX). Your
>request will be processed manually for now, so the format of your request
>is not important. To unsubscribe from the mailing list, send another
>message with your request to listserv@amsat.org.
>
>FOR FURTHER INFORMATION:
>Contact the American Radio Relay League
>Educational Activities Department
>225 Main Street, Newington CT 06111-1494 USA
>Telephone (860) 594-0301, FAX (860) 594-0259, ARRL BBS (860) 594-0306
>Internet sarex@arrl.org
>World Wide Web http://www.arrl.org/
>CompuServe 70007,3373
>Prodigy PTYS02A
>America Online HQARRL1
```

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>
>ARRL's (Newington, CT) Amateur Radio station (call sign W1AW) transmits
>news bulletins (9:45 PM, 12:45 AM EST) on HF bands at 1.855, 3.99, 7.29,
>14.29, 18.16, 21.39, 28.59 megahertz (MHz) and in the Connecticut-area on
>VHF at 147.555 MHz. W1AW bulletins are also forwarded on packet.
>
>Members of the Goddard Amateur Radio Club (Greenbelt, MD) re-transmit live,
>shuttle air-to-ground audio over the amateur frequencies from their club
>station, WA3NAN. To listen-in, tune to Amateur Radio high frequency (HF)
>bands at 3.86, 7.185, 14.295, 21.395, and 28.65 megahertz (MHz) and in the
>Maryland/DC area on a very high frequency (VHF) band at 147.45 MHz.
>
>
>The "SAREX Bulletin" contains additional general information on SAREX. This
>document may be obtained electronically from many of the popular on-line
>electronic services (look for SAREXFAQ.TXT).
>
>The American Radio Relay League, Newington Conn. USA
>
>STS76FCT.TXT
>RJI 1/15/96
>eof
>
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

445. Re: SPRE not heard from JAPAN on 15th.

From: Ken McCaughey N3FZX <kenneth@w3eax.umd.edu>
Date: Mon, 15 Jan 1996 22:21:30 +0100
To: JJ1WTK Kazu Sakamoto <jj1wtk@os.gulf.or.jp>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.3.89.9601152249.E24430-0100000@w3eax.umd.edu>
Rendered body type: text/plain

```
On Tue, 16 Jan 1996, JJ1WTK Kazu Sakamoto wrote:

> In JA, We had several passes of SPRE 1430z thru 2030z on 15th.
> But nothing heard.

It seems that SPRE went off the air while we were comminicating with it.
Not sure why.  It was working perfectly until is just stopped.  It
happend over one of our control stations, so we have performance data
when it occured.

>
> I'm very sorry, but I enjoyed it much on the birthday.

HAPPY BIRTHDAT!!!!  :)

> I had the many reception logs of SPRE from over 10 of JA hams.

We really appreciared the e-mail with the data!  It was very timely.  Job
well done!


> BTW, is there ant next plan of SPRE onboard ?

It is uncertain at this point.  It currently is not scheduled, however,
there has been some talk about it.  We will certainly let you know.

> de Kazu Sakamoto, JJ1WTK
> ---
>  73,de Kazu Sakamoto,JJ1WTK <jj1wtk@os.gulf.or.jp> <jj1wtk@amsat.org>
> !
>
>

#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#
```

```
Ken McCaughey - N3FZX         SPRE - Spartan Packet Radio Experiment
SPRE Project Lead             U. of Md. Amateur Radio Assc. - W3EAX

e-mail:  kenneth@w3eax.umd.edu       SPRE Info on the Internet
         n3fzx@amsat.org             WWW Page:  URL = http://w3eax.umd.edu
packet:  n3fzx@wa3nan.md.usa.noam    FTP Site:  URL = ftp://w3eax.umd.edu

#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#==#
```

446. STS-72 element set JSC-952 (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 15 Jan 1996 21:36:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601160336.VAA16604@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Gil Carman sez:
> To: gerry@cs.tamu.edu
> Subject: STS-72 element set JSC-952
>
>
> STS-72
> 1 23762U 96001A   96015.70608013  .00050355  00000-0  16503-3 0  9527
> 2 23762  28.4474  62.5741 0006406 315.1073  44.9136 15.88556069   697
>
> Satellite: STS-72
> Catalog number: 23762
> Epoch time:      96015.70608013    =    (15-Jan-96   16:56:45.32 UTC)
> Element set:     952
> Inclination:       28.4474 deg
> RA of node:        62.5741 deg            Space Shuttle Flight STS-72
> Eccentricity:     .0006406               Keplerian element set JSC-952
> Arg of perigee:   315.1073 deg           from NASA flight Day  5 vector
> Mean anomaly:      44.9136 deg
> Mean motion:   15.88556069 rev/day                Gil Carman
> Decay rate:     5.0355e-04 rev/day^2       NASA Johnson Space Center
> Epoch rev:             69
> Checksum:             302
>
>



--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

447. SPRE Statistics needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 15 Jan 1996 23:18:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960115230228.8593D@greatlakes>
Rendered body type: text/plain

We need some more data before we call it quits on the APRtrak project...

1) We need to know approximately the success rate. In other words, how many other locals showed up on your P-LIST that were *properly* configured, but that did *not* get digipeated? Do not count any *human* errors, and aw-shucks attempts. To avoid duplication, send me privately the callsigns of anyone who "should" have been digipeated and their POWER/ANT info. Without knowing their power, it doesnt tell us much... Also be sure to include your LATITUDE so we know the slant range to the shuttle orbit. I think everyone I heard locally here made it. And we are at 40 lat...

2) Did ANYONE see a GPS posit from SPRE that was other than the Red Sea location that I captured? ALso, dont count the Wash DC posit for W3EAX which is always loaded with the SPRE.BK file...

Send to bruninga@nadn.navy.mil

448. SPRE STATIONS HEARD LOG FROM DALLAS, TX

From: jlawyer@airmail.net (Jim Lawyer)
Date: Mon, 15 Jan 1996 23:05:29 -0600
To: aprssig@tapr.org

Message-ID: <199601160505.XAA32687@server.iadfw.net>
Rendered body type: text/plain

SPARTAN RADIO EXPERIMENT (SPRE)
JANUARY 15, 1996 EDITED LIST OF STATIONS RECEIVED
BY AA5QX , JIM 3300.0 N/09637.5 W

The following is a listing of stations heard on 145.55 from 0001 hrs CST Jan 15, 1996.

```
KC5EJK    150029 >EM12OU:3251.3 N/09648.1 W?
W3EAX     150034 @151621z1339.57N/00108.32WS Spartan SPRE/A=497877
KC7GNM    150034 >DM41UN:3133.9 N/11017.9 W?3134.71N/11016.40W]KPC-3,WE-800 RADI
W5RKN     150034 >EM10DI:3021.3 N/09741.4 W?w5rkn@amsat.org
WS5R      150034 >DM95CF:3514.6 N/10147.5 W?APRS 0.5 on line.
KC5KGE    150034 >EL29CS:2946.4 N/09547.8 W?de George 50w 9dB Omni - deang@syntr
W3EAX     150035 @151622z1526.90N/00235.60ES Spartan SPRE/A=765843
N5ITU     150035 >EM13NA:3301.1 N/09651.4 W?Dallas Remote Imaging Group sysop@dr
KC7GNM    150035 >DM41UN:3133.9 N/11017.9 W?3134.71N/11016.40W]KPC-3,WE-800 RADI
XE2MXU    150035 >DL95UO:2536.7 N/10017.9 W?Luis; fjorozco@academ01.mty.itesm.mx
KB5SDW    150035 >EM50BH:3018.8 N/08952.5 W?APRS 0.5 on line.
XE1KK     150035 >EK09KH:1919.2 N/09908.1 W?5W + Omni 3dB @ 30ft
KD4DS     150035 >EM60IK:3026.4 N/08718.3 W?Russ in Pensacola
W3EAX     150035 @151622z1526.90N/00235.60ES Spartan SPRE/A=765843
WS5R      150035 >DM95CF:3514.6 N/10147.5 W?APRS 0.5 on line.
XE2MXU    150035 >DL95UO:2536.7 N/10017.9 W?Luis; fjorozco@academ01.mty.itesm.mx
KB5SDW    150035 >EM50BH:3018.8 N/08952.5 W?APRS 0.5 on line.
XE1KK     150035 >EK09KH:1919.2 N/09908.1 W?5W + Omni 3dB @ 30ft
KD4DS     150035 >EM60IK:3026.4 N/08718.3 W?Russ in Pensacola
KC7GNM    150035 >DM41UN:3133.9 N/11017.9 W?3134.71N/11016.40W]KPC-3,WE-800 RADI
W3EAX     150036 @151623z1645.73N/00528.88ES Spartan SPRE/A=733833
KC5KGE    150036 >EL29CS:2946.4 N/09547.8 W?de George 50w 9dB Omni - deang@syntr
N5XDN     150036 >EM16LR:3643.6 N/09701.5 W?7W 13dB beam
KD4SEV    150036 >EM60SJ:3023.9 N/08627.5 W?APRS 0.5 on line.
KC5HHN    150036 >EM10TO:3036.4 N/09623.0 W?APRS 0.5 on line.
KC5FEV    150036 >EL29FS:2946.4 N/09533.1 W? Use A.P.R.S.! ver 7.4e Online!
WA5SLG    150036 >EM22IH:3219.1 N/09517.4 W?35w 6di vertical
KD4UYR    150036 >EL87OU:2751.4 N/08247.4 W?APRS 7.4e on line.
KC5KGE    150036 >EL29CS:2946.4 N/09547.8 W?de George 50w 9dB Omni - deang@syntr
N5ITU     150036 >EM13NA:3301.1 N/09651.4 W?Dallas Remote Imaging Group sysop@dr
XE2MXU    150035 >DL95UO:2536.7 N/10017.9 W?Luis; fjorozco@academ01.mty.itesm.mx
KB5SDW    150035 >EM50BH:3018.8 N/08952.5 W?APRS 0.5 on line.
XE1KK     150035 >EK09KH:1919.2 N/09908.1 W?5W + Omni 3dB @ 30ft
KD4DS     150035 >EM60IK:3026.4 N/08718.3 W?Russ in Pensacola
N5XDN     150036 >EM16LR:3643.6 N/09701.5 W?7W 13dB beam
KD4SEV    150036 >EM60SJ:3023.9 N/08627.5 W?APRS 0.5 on line.
KC5HHN    150036 >EM10TO:3036.4 N/09623.0 W?APRS 0.5 on line.
KC5FEV    150036 >EL29FS:2946.4 N/09533.1 W? Use A.P.R.S.! ver 7.4e Online!
WA5SLG    150036 >EM22IH:3219.1 N/09517.4 W?35w 6di vertical
KD4UYR    150036 >EL87OU:2751.4 N/08247.4 W?APRS 7.4e on line.
KC5HHN    150036 >EM10TO:3036.4 N/09623.0 W?APRS 0.5 on line.
KC5FEV    150036 >EL29FS:2946.4 N/09533.1 W? Use A.P.R.S.! ver 7.4e Online!
WA5SLG    150036 >EM22IH:3219.1 N/09517.4 W?35w 6di vertical
KD4UYR    150036 >EL87OU:2751.4 N/08247.4 W?APRS 7.4e on line.
W3EAX     150037 @151624z1825.44N/00921.52ES Spartan SPRE/A=707974
KC5EJK    150037 >EM12OU:3251.3 N/09648.1 W?
WB5QLD    150037 >EM12JU:3251.6 N/09712.6 W?40W @ 25ft
KB0NRK    150037 >EL29OH:2918.8 N/09447.9 W?Earl 30W 3.0dB Omni @ 20'
AD4OR     150037 >EL98QN:2833.6 N/08037.7 W?APRS 0.5 on line.
KC5KGE    150037 >EL29CS:2946.4 N/09547.8 W?de George 50w 9dB Omni - deang@syntr
KF4BVD    150037 >EM73TU:3351.4 N/08423.3 W?EM74TU 150 Watts into 15 DB
KB0NRK    150037 >EL29OH:2918.8 N/09447.9 W?Earl 30W 3.0dB Omni @ 20'
AD4OR     150037 >EL98QN:2833.6 N/08037.7 W?APRS 0.5 on line.
KC5KGE    150037 >EL29CS:2946.4 N/09547.8 W?de George 50w 9dB Omni - deang@syntr
KF4BVD    150037 >EM73TU:3351.4 N/08423.3 W?EM74TU 150 Watts into 15 DB
N5ITU     150038 >EM13NA:3301.1 N/09651.4 W?Dallas Remote Imaging Group sysop@dr
WS5R      150038 >DM95CF:3514.6 N/10147.5 W?APRS 0.5 on line.
W3EAX     150038 @151625z2000.12N/01320.14ES Spartan SPRE/A=208578
WB5QLD    150038 >EM12JU:3251.6 N/09712.6 W?40W @ 25ft
N9AB      150039 >EN52XG:4216.2 N/08802.7 W?
K3CEW     150039 >EL97SP:2738.4 N/08027.5 W?35 watts to ringo
W3EAX     150039 @151626z2110.83N/01632.98ES Spartan SPRE/A=110666
N9AB      150039 >EN52XG:4216.2 N/08802.7 W?
K3CEW     150039 >EL97SP:2738.4 N/08027.5 W?35 watts to ringo
W3EAX     150039 @151626z2110.83N/01632.98ES Spartan SPRE/A=110666
KC5EJK    150041 >EM12OU:3251.3 N/09648.1 W?
KD4KDR    150452 >EL99LF:2913.9 N/08102.9 W?40W@60ft./Omni-3db
KC5EJK    150826 >EM12OU:3251.3 N/09648.1 W?25w-5db
W5NFC     151438 >EM10CG:3016.3 N/09746.8 W?Austin, TX w5nfc@amsat.org
WD2Z      151439 >EL87UV:2754.2 N/08217.2 W?APRS 0.5 on line.
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```
KC5AOY    151439 >EL49IQ:2941.4 N/09118.3 W?
W5NFC     151439 >EM10CG:3016.3 N/09746.8 W?Austin, TX w5nfc@amsat.org
WD2Z      151439 >EL87UV:2754.2 N/08217.2 W?APRS 0.5 on line.
KC5AOY    151439 >EL49IQ:2941.4 N/09118.3 W?
```

---

449. NIAN Web Page

From: davidc@tbcnet.com (David Chesser)
Date: Mon, 15 Jan 1996 23:39:05 -0600
To: aprssig@tapr.org
Message-ID: <199601160539.XAA01547@tbc2.tbcnet.com>
Rendered body type: text/plain

The NIAN DOS Web page hasn't moved. NIAN's DOS page is still accessible through NIAN's main URL http://tbcnet.com/~davidc/aprs.html A MacAPRS and soon WinAPRS page are also accessible there. Any other announcement contrary is incorrect.

---

450. Decode SPRE GPS position

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 16 Jan 1996 00:24:05 -0600
To: aprssig@tapr.org
Message-ID: <v02130502ad20f26c8ed1@[199.1.11.104]>
Rendered body type: text/plain

Check the SPRE site for decode.c if you want to decode raw position
Data yourself.

 WWW Page: URL = http://w3eax.umd.edu
 FTP Site: URL = ftp://w3eax.umd.edu

```
/* -------------------------------------------------------------------- */
/*  decode.c  -- Decode SPRE messages
/*               See  SN_DecodeMessage below...
/* -------------------------------------------------------------------- */
/* -------------------------------------------------------------------- */
/* ProcessPosition -- Process the GPS position packet                   */
/* -------------------------------------------------------------------- */
/* -------------------------------------------------------------------- */
/* ProcessTelemetry -- Process the SPRE telemetry values
/*     5V = telem_value * (Vhi/256) * 1.5     (1.5/256 == 0.005859375)
/*    12V = telem_value * (Vhi/256) * 3.0     (3.0/256 == 0.01171875)
/* -------------------------------------------------------------------- */
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

451. MAPMAKING

From: ke4eer@ro.com (William Nolle)
Date: Tue, 16 Jan 1996 01:12:33
To: aprssig@tapr.org
Message-ID: <199601160721.BAA00070@sh1.ro.com>
Rendered body type: text/plain

Bob or anyone, where can i find the new mapmaking software for the 100K maps. I forgot the name of it. I don't see it on Tapr anyplace.

Bill KE4EER

---

452. Re: [APRSSIG:6056] Tech Project/Quiz for the Sig

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 16 Jan 1996 03:07:13 -0500
To: <aprssig@tapr.org>
Message-ID: <199601160807.DAA01871@brickell.bridge.net>
Rendered body type: text/plain

>It sure would be nice if some of these node code writers would sit up and
>listen
>so standard TNC's could be used as in a NODE STACK, and only 1 radio would
>be
>needed per band with the TNC's connected in a diode matrix!
I may be wrong, but I think the diode matrix would work fine here. The matrix is a passive system, not one controlled by the TNC's.

Steve KO4HD

453. PK-232MBX problem

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Tue, 16 Jan 1996 01:22:16 -0800
To: aprssig@tapr.org
Message-ID: <30FB6E48.265B@ecst.csuchico.edu>
Rendered body type: text/plain

Well I have a good one here. I have used my PK232MBX in that past without any problems on APRS, but just resently it stopped reading the digi. The the best part is that I can copy my neighbor across town directly. I can see the DIGI transmitting info but the APRS programs is not printing it to the location, position or any other part of the aprs program. The signals are great full scale from the digi. I have never had this problem before. My neighbor across town reads the digi just fine. Any suggestions.

Thanks in advance

Brad

---

454. Re: Magnavox GPS Engines

From: dgibbs@ix.netcom.com (Paul D. Gibbs (Doug))
Date: Tue, 16 Jan 1996 05:56:06 -0800
To: aprssig@tapr.org
Message-ID: <199601161356.FAA21700@ix12.ix.netcom.com>
Rendered body type: text/plain

In reply to the sig participants that have Magnavox GPS Engines, I have an old Magnavox MX4200, 6 Channel Receiver. It is about a 1990 vintage box. I don't know if it is the same or even similar to the Engines you all are talking about, but I have been using it as a mobile APRS GPS sensor for a couple of years now. It was one of the first mobile GPS's to be used for APRS here in the Central Ohio area. It has the B035 version of firmware and I have the PC-CDU software version 2.25 that permits observing and controlling the unit from a PC if desired. I also have the Technical Reference Manual, the PC Controller Users Guide and the Receiver Programmer's Guide. I would be happy to help, within the constraints of my available time, if this unit and information is applicable to what you have.

Doug
W8NFT

```
---------------------------------------------------------------
Doug Gibbs                      dgibbs@ix.netcom.com
W8NFT@W8CQK.#CMH.OH.USA         70010,245@compuserve.com

--
Doug Gibbs                      dgibbs@ix.netcom.com
W8NFT@W8CQK.#CMH.OH.USA         70010,245@compuserve.com
```

---

455. More space experiments

From: dwetzel@uswest.com
Date: Tue, 16 Jan 1996 07:41:27 -0600
To: aprssig@tapr.org
Message-ID: <0fbc0dd0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Now that SPRE is over, anyone interested in trying to get 300 bps APRS through RS10 or RS15?

Contact me via email!

Doug
KC7CO
dwetzel@uswest.com

---

456. R0MIR

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 16 Jan 1996 13:21:05 +0000
To: aprssig@tapr.org
Message-ID: <199601161823.NAA17732@hemisphere.neocomm.net>
Rendered body type: text/plain

I am enjoying running APRS in Space mode. I should have read the
sig mail closer when this was discussed but,. Do I have it correct that
MIR does not want any one to beacon (fm06dp) there position via
R0MIR) ? I have enjoyed watching others connect to the pbbs, R0MIR-1.
I saw w3eax on a few passes! I shure wish R0MIR had a gps beacon, all
the time.
(I anin`t to dumb to ask)....73   charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

457. Virginia maps

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 16 Jan 1996 13:21:05 +0000
To: aprssig@tapr.org
Message-ID: <199601161822.NAA17729@hemisphere.neocomm.net>
Rendered body type: text/plain

The latest Virginia maps are at ftp.tapr.org. File name is
vamaps04.zip 630k. These maps are still under construction.
Unzip all new map.zips with pkunzip -d -n
enjoy ...Charles
cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

458. Re: [APRSSIG:5674] additional help

From: schiers@ibm.net (hasan schiers)
Date: Thu, 04 Jan 96 23:59:10 EST
To: aprssig@tapr.org
Message-ID: <199601051252.MAA37384@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

The U-2000 breaks any version of APRS. Bob is working on the fix.
It doesn't break it completely on all pc's, but the vast majority. Your
symptoms are jut like mine...so just be patient. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

---

459. Re: [APRSSIG:6055] SPRE

From: rkramer@cdx.net (Ronald Kramer)
Date: Tue, 16 Jan 1996 21:58:38 GMT
To: aprssig@tapr.org
Message-ID: <30fc1ecc.782109@mail.cdx.net>
Rendered body type: text/plain

On Mon, 15 Jan 1996 16:18:58 -0600 (CST), you wrote:

>P.S. See, no matter how bad you think you have it, there's always
>   someone else who is worse off! Today, I am that person!

Yup there shure is... I had the radio on and rxing ok
even managed to put mxit off, not only that
but trying to do that I did the big one and never got
digipeated try
"XMITOK OFF"
boy those first two letters can be confusing
even with a call sign of VE3 M X

Regards, Ron ...   73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

460. Mapmaking

From: ke4eer@ro.com (William Nolle)
Date: Tue, 16 Jan 1996 16:08:41
To: aprssig@tapr.org
Message-ID: <199601162217.QAA03686@sh1.ro.com>

Rendered body type: text/plain

I downloaded the new MK100v20.ZIP from the Annapolis BBS, I can't hardly believe there was nobody that D/L'ed that file that could have uploaded it to Tapr so all can get to use it!. Anyway i will be uploading it to tapr sometime tonight. I did the 9 map grid of the center of Huntsville Alabama and it took only 10 minutes to produce the grid of maps,BUT the most exact center of the city map was all messed up when viewed. The program doesn't show you this when the map is being made of course. So whatever you do DON'T delete the *.DAT file untill you have viewed the result of each map. I did and had to undelete that map.dat file. The worst problem again is that the map ended up being 3205 points wich means you have to use the Scrunch funtion in Mapfix. This pesents another problem since it screwes up some of the roads by moving some points to a 45 degree angle. I have found over the many maps i have made not to use the scrunch function at all but rather delete some points outside the map area to bring the points down. Also on the last map of the 9 map grid the program crashed, but only at the point when the map was just completed, so it did save it. It would be great now if the Author would increase the grid option to more then 9 maps, or at least give the Lot/Lan center for the next 9 map grid. He did a great job and want to thank him again for making this software available for us crazy mapmakers Hi.

Bill KE4EER (The Crazy Alabama Mapmaker)
ke4eer@ro.com

---

461. Re: [APRSSIG:6070] Re: Tech Project/Quiz for the Sig

From: n2czf@gate.net
Date: Tue, 16 Jan 1996 17:17:59 -0500
To: aprssig@tapr.org
Message-ID: <199601162217.RAA52662@osceola.gate.net>
Rendered body type: text/plain

Yep, I agree the diode matrix will work as is right now as far as I can see. The cheap (inexpensive) MFJ-1274B can be used for HF with other TAPR-2 clones on the VHF side. Without the proper code I do not think the firmware would work considering we are using UI frames and not X1J or ROSE code in a connected state that knows where to send what packets along the serial "daisy chain". We are back to the part about I sure wish some of the node code writers would spend some time supporting APRS useage.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

462. Re: SPRE STATIONS HEARD LOG FROM DALLAS, TX

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Tue, 16 Jan 1996 16:34:46 -0600
To: aprssig@tapr.org
Cc: jlawyer@airmail.net (Jim Lawyer)
Message-ID: <v02130500ad21d7a5474e@[204.251.33.66]>
Rendered body type: text/plain

The history log from AA5QZ contains a few non-SPRE stations:

```
KD4KDR    150452 >EL99LF:2913.9 N/08102.9 W?40W@60ft./Omni-3db
KC5EJK    150826 >EM12OU:3251.3 N/09648.1 W?25w-5db
W5NFC     151438 >EM10CG:3016.3 N/09746.8 W?Austin, TX w5nfc@amsat.org
WD2Z      151439 >EL87UV:2754.2 N/08217.2 W?APRS 0.5 on line.
KC5AOY    151439 >EL49IQ:2941.4 N/09118.3 W?
W5NFC     151439 >EM10CG:3016.3 N/09746.8 W?Austin, TX w5nfc@amsat.org
WD2Z      151439 >EL87UV:2754.2 N/08217.2 W?APRS 0.5 on line.
KC5AOY    151439 >EL49IQ:2941.4 N/09118.3 W?
```

Except for the 150826 entry, these correspond to MIR passes, not SPRE.

I'm glad someone heard me :-)

Ron W5RKN

also:
rparsons@bga.com

---

463. Re: [APRSSIG:5969] !!! BEST SATELLITE TRACKING PROG. !!!

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 16 Jan 1996 14:51:30 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960116225130.006aa0b0@mail.cts.com>
Rendered body type: text/plain

Forgot to mention for those who are using STS+ for tracking and haven't had the time to read the docs to use the switch /clk after the program name when opening the program. This will put it into a 43 or 60 line mode similiar to f7 on APRS. Also make a seperate icon and use the switch /clk /r after the program name to reenter the program at the same point as when you closed it. ie:

```
c:\path\stsplus.exe /clk   for initial setup.
c:\path\stsplus.exe /clk /r   for returning to the program on the same mission.
```

73's
Barbara KK6IB
E-Mail: fehner@cts.com

---

464. Mapmaking

From: ke4eer@ro.com (William Nolle)
Date: Tue, 16 Jan 1996 17:19:36
To: aprssig@tapr.org
Message-ID: <199601162328.RAA07867@sh1.ro.com>
Rendered body type: text/plain

I just posted the new mapmaking software (MK100v20.ZIP) to Tapr. Still has many bugs that crash the program in densly populated areas, but it's a step forward.

Bill KE4EER
ke4eer@ro.com

---

465. Re: [APRSSIG:6056] Tech Project/Quiz for the Sig

From: KD4EMI@aol.com
Date: Tue, 16 Jan 1996 18:19:47 -0500
To: aprssig@tapr.org
Message-ID: <960116181633_62730028@emout05.mail.aol.com>
Rendered body type: text/plain

I think its great but frown on 1 guy having all the fun..

I think redundancy should be in the system, and to let 1 guy have all of that responsibity isnt smart. Encourage others to participate.

I agree though, I diode matrix, simple and easy to make, works great.

Mike KD4EMI@AOL.COM

---

466. Six meter freqs?

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 16 Jan 1996 20:20:29 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <027AC30FC790D001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

I've been seeing some noise about going onto 6m with this stuff. I've got two 6m micors? mitreks? something and the elements for them. I need a frequency. Maybe I will finally get motivated enough to get something going and point a 3ele yagi east and up at a 30 deg angle to intercept some meteor scatter. Any interest in AZ? Northern CA? UT? Heck, southern CA, even?

73 - Jon NW6H/4
(in St Pete, Fla this week)

---

467. Bob's New Email Address

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 16 Jan 1996 23:00:08 -0600
To: aprssig@tapr.org
Message-ID: <199601170455.WAA28617@sys1.tapr.org>
Rendered body type: text/plain

```
> bruninga@nadn.navy.mil
>
Gee no more great lakes jokes!!
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
```

```
    _( )_
  _(     )_
 (_________)
   \  \  \
     \  \
```

468. [APRSSIG:5761] APRS MIMS AVAILA

From: mike.manes@filebank.com
Date: Wed, 17 Jan 96 01:31:15
To: aprssig@tapr.org
Message-ID: <9601170131.024WX01@filebank.com>
Rendered body type: text/plain

Hi Bob,
Please advise via e-mail when you're ready to take orders and
how. This li'l gem sounds like just the ticket for some of
our student experiemts with EOSS.
73, Mike

---

469. Re: [APRSSIG:6079] Re: Tech Project/Quiz for the Sig (fwd)

From: "Tom Moulton" <tmoulton@ram.net>
Date: Wed, 17 Jan 96 08:51:33 EST
To: aprssig@tapr.org
Message-ID: <15021573.21f7@ram.net>
Rendered body type: text/plain

```
>Date: Tue, 16 Jan 1996 16:28:49 -0600 (CST)
>From: n2czf@gate.net
>To: aprssig@tapr.org
>Subject: [APRSSIG:6079] Re: Tech Project/Quiz for the Sig
>
>Yep, I agree the diode matrix will work as is right now as far as I can see.
> The
>cheap (inexpensive) MFJ-1274B can be used for HF with other TAPR-2 clones on
> the
>VHF side. Without the proper code I do not think the firmware would work
>considering we are using UI frames and not X1J or ROSE code in a connected s
```

The most recent version of ROSE does support UI frames!

I have added myself to this list, let's discuss what you are trying to do
and see how well ROSE fits!

```
***********************
Thomas A. Moulton, W2VY
w2vy@ram.net
```

---

470. Re: !!! BEST SATELLITE TRACKING PROG. !!!

From: deang@MAIL.SYNTRON.COM
Date: Wed, 17 Jan 96 09:06:36 CST
To: aprssig@tapr.org
Message-ID: <9600178218.AA821898396@MAIL.SYNTRON.COM>
Rendered body type: text/plain

I used to use STS+ until I came across LogSat Professional for Windows. After working SPRE, I now swear by LogSat! You can open multiple windows with different projections. I had one orthographic projection showing the OAST position real-time, and another with a mercator projection running time accelerated displaying future passes.

LogSat uses the Windows multimedia features nicely. I would be sleeping on the couch and LogSat would wake me up with "3 minute warning ...". Then 3 minutes later it was "We have an acquired inbound satellite, bearing ... degrees." As soon as LogSat spoke these words, I was hearing SPRE! ..well, at least on the first two passes. Hi Hi

LogSat is a really nice tracking program and I look forward to running it along with the new WinAPRS. I believe a demo copy of LogSat can be found in the Ham forum on Compuserve.

```
    \\//
    (..)
-ooO-(_)-Ooo-----------------------------------------------------
| George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
-----------------------------------------------------------------
```

---

471. WA3NAN Resumes Retransmissions

From: pat_kilroy@ccmail.gsfc.nasa.gov
Date: Tue, 16 Jan 96 11:47:18 EST
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org, ka3pvs@wa3nan.gsfc.nasa.gov,
shuttle@wa3nan.gsfc.nasa.gov,
Robert_DiRosario_at_FS570@cscgt.gsfc.nasa.gov, w1aw@arrl.org,
ead@arrl.org, n3nzf@amsat.org, ka3hdo@amsat.org,
pat.kilroy@gsfc.nasa.gov, garc-bb@garc.gsfc.nasa.gov,
n3dci@wa3nan.gsfc.nasa.gov
Message-ID: <9600178218.AA821896960@ccmail.gsfc.nasa.gov>
Rendered body type: text/plain

TUESDAY, JANUARY 16, 1996. According to Vikki Gigante-Hueber, KA3PVS, Goddard ARC Space Shuttle Retransmissions Director, station WA3NAN resumed retransmitting space shuttle air-to-ground NASCOM audio today at about 1330 UTC.

Over the weekend snowplows cleared enough of the club grounds to make station access possible. This was the first time that the WA3NAN retransmission effort was down due to winter weather for so long. Vikki and the GARC volunteer control operators express appreciation to listeners for their patience during the period.

Vikki reminds listeners to tune in *only* during space shuttle crew awake periods, currently approximately 0030-1630 UTC during STS-72. The frequencies are 3860 kHz, 7185 kHz, 14.295 MHz, 21.395 MHz SSB (+/- QRM), and in the Washington, D.C./Maryland/northern Virginia/southeastern Pennsylvania area on 147.450 MHz FM. [QTH WA3NAN 38.9988N, -76.8469E, 50 meters AMSL.]

Further retransmission and other information can be obtained via telnet at wa3nan.gsfc.nasa.gov as well as via packet radio wormhole to the WA3NAN BBS through the JPL node and other nodes. Reports can be sent to Vikki at ka3pvs@wa3nan.gsfc.nasa.gov or to the WA3NAN callbook address.

73 DE Pat WD8LAQ   Greenbelt, Maryland USA   wd8laq@amsat.org

---

472. Re: [APRSSIG:6088] Re: !!! BEST SATELLITE TRACKING PROG. !!!

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Wed, 17 Jan 1996 17:55:29 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9601171655.AA03030@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

deang@MAIL.SYNTRON.COM writes:
>
>   I used to use STS+ until I came across LogSat Professional for
>   Windows. After working SPRE, I now swear by LogSat! You can open
...

If you're a Linux/UNIX user running X11, check out SatTrack:

http://www.primenet.com/~bester/sattrack.html

A freeware version (3.1) is available. It has all the usual graphics and some really nice features, including the ability to control your radios for doppler shift, control your tracking antennas, etc. All source code is provided. The program had so much commercial interest that the author decided to enhance it even more and sell it, but the 3.1 freeware version is still available, source and all. It can also alert you (with beeps, not with a voice) just before a satellite is about to come into or go out of range. VERY handy.

--Shannon, DL6SEU

---

473. Questions re: Tech Project....

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Wed, 17 Jan 96 10:59:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <30FD2B9E@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

I've obviously missed something relative to Rich's (N2CZF) Tech Project.
Can someone explain WHY you'd want to gateway 5 HF bands plus 6m onto the 2m APRS channel ? I don't see what can be done by this other than to clog the 2m channel.

1) Assume 2m is 1200 baud, w/25% utilization (Yeah, we can argue about the utilization number)

```
2)  Assume 6m is 1200 baud, w/25% util
3)  Assume all HF bands (5) are 300 baud, w/20% util  (makes the numbers
easier to work)
4)  Five HF bands plus 6m gateway into 2m
5) Therefore, 2m TOTAL utilization is:
     2m util + 6m util + 5*(HF util) =
     300 bauds + 300 bauds + 5*(300*0.2) =

     900 bauds  or 75% of total channel capacity.
```

This load may be OK (not advisable, but OK) for unproto info (which APRS is, of course), BUT....

As soon as you try to use the channel for CONNECTED protocol (i.e., station to station messages), you have a 3 out of 4 chance that you'll get a collision, which causes a retransmit, which increases utilization, which increases the chance of a collision, which causes MORE retransmits, which FURTHER increases utilization, which ....

The net result is that the channel cascades into unusablility. BTW, a "good" rule of thumb for this type of channel (Carrier Sense Multiple Access w/Collision detection) is to maintain loading to less than about 50%.
  Everything works well upto 40%, and then starts to fall off. Much beyond 60%, nothing works well because of all the re-transmits.

Thats what I don't understand. It seems to me that the Project will simply make any VHF net it's connected to unusable. So why do it ? THATS what I don't understand.

Thanks for the help.
Donn
WA2VOI EN35ja

---

474. RE: [APRSSIG:6088] Re: !!! BEST SATELLITE TRACKING PROG. !!!

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 17 Jan 1996 11:30:53 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960117113053.2040ff12@exame2.dseg.ti.com>
Rendered body type: text/plain

```
You wrote:
>        \\//
>        (..)
>    -ooO-(_)-Ooo------------------------------------------------------
>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>    ------------------------------------------------------------------
>...
>     I used to use STS+ until I came across LogSat Professional for
>     Windows....
>...
>     I believe a demo copy of LogSat can be found in the Ham forum on
>     Compuserve.
```

Any idea where else a demo copy can be located for those of us who don't have access to Compuserve?

   73 Claude
      K5DTN
      chead@exame2.dseg.ti.com

---

475. Scientific American GPS Article

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 17 Jan 1996 11:36:39 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960117113639.2040ff12@exame2.dseg.ti.com>
Rendered body type: text/plain

There is a nice article in the February 1996 issue of Scientific American on the US GPS system. The cover has a nice picture of one of the GPS satellites. Among other things, the article asks some rather pointed questions about why DOD is still bothering with Selective Availability when it is so easy to defeat! Recommended reading. The Russian GPS system is also mentioned, although briefly. The article points out that the Russian system does not use SA - just good position data!

  73 Claude
     chead@exame2.dseg.ti.com

---

476. Re: Tech Project/Quiz for the Sig

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 17 Jan 1996 14:16:08 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE4E6.6054EF60@lub02.onramp.net>
Rendered body type: text/plain

```
>>From: n2czf@gate.net
>>... Without the proper code I do not think the firmware would work
>>considering we are using UI frames and not X1J or ROSE code in a connected...

>From: Tom Moulton <w2vy@ramp.net>
>The most recent version of ROSE does support UI frames!
>
>I have added myself to this list, let's discuss what you are trying to do
>and see how well ROSE fits!

Tom.  Glad to see you here!

Most APRS beacons are meant to be seen by all stations between
the source and "destination", even if the beacon is digipeated several times.
The trouble with ROSE's UI implementation is that APRS can only
decode what comes out of the final switch.  If an APRS user wants to
communicate directly with another user at a specific switch using UI frames
ROSE's implementation *is* better because of the switch to switch acking
as compared to "long distance acking".

But for general APRS beacons, ROSE would work fine if just didn't have
the "one-hop digipeating" limit.

We used to have ROSE here in West Texas.  We converted 7 ROSE switches
back to TheNet simply because they couldn't digipeat more than one hop,
which cripples APRS.  There are a lot of people here who would like to
see ROSE back though.

If you could just make ROSE support multi-hop digipeating, like
TheNet/Netrom, we could make everybody happy (well most everybody)!

Even better, if you could make the "simple digi" function so that it
*only* digis unconnected frames, that avoids people making "digied
connections" i.e.. not ROSE, while still allowing multi-hop digied beacons, and
eliminating the "long distance ack" problem inherent in "digied connections".

P.S.  Should you decide to do this, we would ideally want to have up to
3 digi-only aliases which we could assign as CALL-SSID, WIDE, RELAY or
whatever.  It would also be nice if we could add a periodic beacon from the
switches themselves.

Larry Griffin <largriff@onramp.net>
```

---

477. MK100v20.EXE map making

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 17 Jan 1996 15:35:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960117153217.12435F-100000@greatlakes>
Rendered body type: text/plain

```
Just got a call from KE4XF that he found a bug in his multi-mapmaking
program MK100v20.EXE.  The OUTPUT file name MUST be 8 characters or it
will try to write a file with ....'s in it to fill the extra spaces, and
that will crash the prgram with an illegal file name...


This program extracts 1, 4 or 9 maps automatically from the 100K CD ROM
data all at once.

Also in the ZIP file is a HPPLOT or MAPPLOT (I forgot the name) which
will PLOT an APRS map on any HP compatible printer...
```

---

478. Re: [APRSSIG:6084] Six meter freqs?

From: n2czf@gate.net
Date: Wed, 17 Jan 1996 18:14:09 -0500
To: aprssig@tapr.org
Message-ID: <199601172314.SAA18562@osceola.gate.net>
Rendered body type: text/plain

```
50.62 has been talked about. I have it programed in my EPROM, a 120W Uniden
commercial radio with 36 channels. Once we figure how to do a wide band
```

modification to the radio my co-worker and I will have about 3 of these together and will start playing.

For now I cannot participate since I really want the radio to do the high band cut for other things but once we figure out the modification we will be on.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

479. finally on sig

From: "Tom Moulton" <tmoulton@ram.net>
Date: Wed, 17 Jan 96 18:28:24 EST
To: aprssig@tapr.org (aprs sig)
Message-ID: <15021573.21fe@ram.net>
Rendered body type: text/plain

I finally got it right...

****
Thomas A. Moulton, W2VY
w2vy@ram.net

---

480. [APRSSIG:6091] Questions re: Tech Project....

From: n2czf@gate.net
Date: Wed, 17 Jan 1996 18:44:41 -0500
To: aprssig@tapr.org
Message-ID: <199601172344.SAA57998@osceola.gate.net>
Rendered body type: text/plain

\>>This load may be OK (not advisable, but OK) for unproto info (which APRS is,
\>>of course), BUT....

\>>As soon as you try to use the channel for CONNECTED protocol (i.e., station
\>>to station messages), you have a 3 out of 4 chance that you'll get a
\>>collision, which causes a retransmit, which increases utilization, which
\>>increases the chance of a collision, which causes MORE retransmits, which
\>>FURTHER increases utilization, which ....

\>>Thanks for the help.
\>>Donn
\>>WA2VOI EN35ja

I do not know about in your area Donn but here in SFL I see very little if any connected traffic appearing on our APRS frequency. If you are sharing another frequency with connected traffic yes it would be a problem, if you have a lot of locals that connect to each other regularly then again yes you would have a problem.

APRS uses UI frames for all of it's transmissions so we do not need to worry about APRS causing problems with connects.

Why so many bands ?? Well different bands can serve different purposes for APRS. 80M seems to be doing well for Statewide communications, 40M would probably do better but QRM is bad. 30M has served well for 50% coverage of the country, anything past CO. from the East is just a occasional thing and the same from the West Coast. 20 or 17 M would do quite well for National and International coverage with 17M a primo choice for South and Central America. I have been told that there ARE stations on 17M packet that have APRS capability from South America, this was in the past week. Finally 6M is for curiosity, I think 6M would be GREAT as a propagation indicator as long as the stations were on continiously. The most important possibility for 6M is some long range links for WIDE digi's on 145.79. With 2 good locations and plenty of power 50 MHz is ideal for point to point communications, that is why paging companies used 72 MHz for quite a while from site to site. With several digi's on 2M linked via 6M all the digi's can hear the 1 wide packet and retransmit it in another area. Many will say well go WIDE,WIDE or WIDE,WIDE,WIDE ... this is not a good idea 2X WIDE OK and 3X WIDE is a no-no. If all of this can be done with plain ol' WIDE so much the better.
Here in FL we lack 2 things, Snow, no big deal, and MOUNTIANS! Mountians are a big deal if you are a ham, our flat terrain and overcrowded commercial tower systems give us very few good locations for free and when we do get one RF noise is so bad that it usually is not worth while. This is why we need a better system and are doing things a bit differently. We are lucky if we can get 40 miles from one digi to another let alone cover that area well for MOBILE APRS use.

73's Rich N2CZF
n2czf@gate.net

481. ROSE-UI-and APRS

From: n2czf@gate.net
Date: Wed, 17 Jan 1996 19:06:34 -0500
To: aprssig@tapr.org
Message-ID: <199601180006.TAA16816@osceola.gate.net>
Rendered body type: text/plain

```
Last time we spoke Tom UI was incorporated in a beta version of the ROSE code
and we left of with the addressing of the UI frames in APRS and about having the
NODE able to send out a occasional beacon.

I forwarded some raw APRS data and some explanation on what the addresses were
trying to accomplish. Was any thought given to the address being a more verbose
format than the area code/exchange format? I am sure you do not want to
re-invent the wheel with ROSE code and I am sure that Bob/Keith/Marc do not want
to do the same with the APRS format so what are the limitations at this time
with what is at hand?

Simply a packet going to APRS VIA WIDE would need to be digi'ed out via the NODE
that hears the original packet AND have the ability to go out another TNC in the
stack on a different frequency (RE: 440 or 6M). Once heard by other stacks on
the "backbone" frequency it should be routed out their other TNC set to the
local APRS frequency.

I know that ROSE was created to reduce the amount of transmissions on packet so
BEACONS are not sent by the NODE, but in APRS we need that so we can plot the
digi. I am also sure that 1 transmission on frequency "A" causing a digi on freq
"A" and a signal on freq "B" that creates MORE transmissions on freq "A" at
other VARIOUS distant locations is not exactly what ROSE was created to do and
possibly somewhat against "RATS" views on packet, but that is what APRS really
needs to expand a network. I think that code like this will also reduce the urge
for stations to digi for example APRS VIA WIDE,WIDE,WIDE which is even worse
and being done now. APRS VIA WIDE would accomplish the same thing with less
packets on 1 frequency and better coverage. This can also possibly allow us to
switch to 9600 baud on 440 for the backbone operations.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

482. Pro CD Street maps ??

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 17 Jan 1996 19:09:25 +0000
To: aprssig@tapr.org
Message-ID: <199601180011.TAA16372@hemisphere.neocomm.net>
Rendered body type: text/plain

```
Hello aprssig users:

      I recently saw an add for a CD with Street Maps of the USA,
from "PRO CD". I liked the adverrtisments claim that they have no
restrictions on the use of the maps. If you are familiar with Delorme
Streets USA, you know you have to shut one eye when you use there
product so as not to break the law. he he Well they are heavely
restricted anyway. Pro Cd sells for abt $99. If you have used this
product I would be interested in hearing from you. I wrote Pro CD`s
customer service for information on GPS use with the CD. Hear is my
letter and there reply.

>To: cservice.2@procd.com (Customer Service (Internet))
>------ Forwarded Message Follows -------
>Organization:  Pro CD, Inc.
>Date:          Tue, 16 Jan 1996 18:05:30 -0500
>Subject:       Street Map ??

>    Hello Pro CD
>
>      I would like to know if your map program supports GPS nmea data
> input? Do your maps show longitude and latitude.
>
REPLY

To: Charles Davidson

I spoke with a technical support rep and said that this was referring to
what formats you can import from.  In talking with her, this is the answer
we came up with:
 -To import your data, you must have a comma-separated text file (ASCII
```

format) containing either of two sets of information:
1. Latitude, Longitude, and Name
    -Latitude and longitude coordinates must be in decimal degree format,
not degrees, minutes, & seconds.

2. Name, address, city, state, and 9-digit zip code (in that order)
    -The software will ignore those records that do not include 9-digit zip
codes.

I hope this will answer your question, if you need further assistance feel
free to contact us here in Customer Service or our Technical Supprt Dept at
technical.support@procd.com.

Thanks for time!
Nancy
Pro CD Customer Support

 From: cservice.2@procd.com (Customer Service (Internet))

..

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

483. Re: [APRSSIG:6095] MK100v20.EXE map making

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Wed, 17 Jan 1996 22:34:25 -0600
To: aprssig@tapr.org
Message-ID: <199601180431.WAA19209@sys1.tapr.org>
Rendered body type: text/plain

At 02:41 PM 96-1-17 -0600, you wrote:
>Just got a call from KE4XF that he found a bug in his multi-mapmaking
>program MK100v20.EXE. The OUTPUT file name MUST be 8 characters or it
>will try to write a file with ....'s in it to fill the extra spaces, and
>that will crash the prgram with an illegal file name...
>
>This program extracts 1, 4 or 9 maps automatically from the 100K CD ROM
>data all at once.
 Thank's Bob for that timely advice; I just thought I had bad karma:-) I
won't use test for my mapname I'll use test1234   :-)

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

484. Re: [APRSSIG:6099] ROSE-UI-and APRS

From: "Tom Moulton" <tmoulton@ram.net>
Date: Wed, 17 Jan 96 23:19:10 EST
To: aprssig@tapr.org
Message-ID: <15021573.21ff@ram.net>
Rendered body type: text/plain

>Last time we spoke Tom UI was incorporated in a beta version of the ROSE cod
>e
>and we left of with the addressing of the UI frames in APRS and about having
> the
>NODE able to send out a occasional beacon.

Yes, I remember. Well... UI frames through ROSE works fine.

SWITCHes do not send beacons, yet. They could, but for now I am more interested in supporting the USERS as a primary point of interest.

>trying to accomplish. Was any thought given to the address being a more verb
>ose
>format than the area code/exchange format? I am sure you do not want to

I do not know what changing the addressing format could do to help.
ROSE is more a vehicle to pass the data between points.

>Simply a packet going to APRS VIA WIDE would need to be digi'ed out via the
>NODE
>that hears the original packet AND have the ability to go out another TNC in
> the
>stack on a different frequency (RE: 440 or 6M). Once heard by other stacks o
>n
>the "backbone" frequency it should be routed out their other TNC set to the
>local APRS frequency.

Let's not worry about HOW the frame gets passed through the backbone.

So If the switch RX's a frame to APRS you want to to be TX'ed Locally and
forwarded to the other APRS channels.

The UI feature is going to be expanded to support multi-casting.
>
>I know that ROSE was created to reduce the amount of transmissions on packet
...
>other VARIOUS distant locations is not exactly what ROSE was created to do a
>nd
>possibly somewhat against "RATS" views on packet, but that is what APRS real

ROSE was created to provide full AX.25 features to User stations on a wide
scale basis.

I do believe that some simple changes can be made to make it work well with
APRS.

****
Thomas A. Moulton, W2VY
w2vy@ram.net

---

485. MK100v20

From: ke4eer@ro.com (William Nolle)
Date: Thu, 18 Jan 1996 02:47:16
To: aprssig@tapr.org
Message-ID: <199601180854.CAA10013@sh1.ro.com>
Rendered body type: text/plain

Bob someone told you there was an error or bug in the new software that it
must have 8 characters, i found that is not the case for me anyway!. But i did
find that in all cases the last map in the grid will crash the software and thus
to use the last map you have to use the DAT file. I also noticed that for many
maps (Altough only 1600 points) would mess up the whole map, so you would
also have to use the DAT file on these also. The only situation i found that
did not work with less then 8 characters was when using the -1 mile size it
would crash the software even tough there where only a couple of streets.
There's something realy flaky about this version but have not been able to
put my finger on it. In almost all cases when doing +1 mile maps it is useless
to use the new version, because if there's 1 map in that grid that has even
close to 3000 points it will crash. I also do not notice a change between
using the +1 or the 1 range detail. Also no railroads or streams where in any
of my maps. I think i will stick with the old version for a while, Gosh i have
to D/L it again now Hi.

By the way i did make a complete grid of 9 using only HUNT as a file name!,
don't forget the software adds 2 characters NW,NE,SE,SW etc if your doing
a grid of maps.

Bill KE4EER
ke4eer@ro.com

---

486. MK100v20

From: ke4eer@ro.com (William Nolle)
Date: Thu, 18 Jan 1996 03:13:19
To: aprssig@tapr.org
Message-ID: <199601180920.DAA10945@sh1.ro.com>
Rendered body type: text/plain

```
As a followup to my last message on the bugs in the new mapmaking software
i went back to MKMAPKKE and did the exact same maps over using it without
any problem even tough the map came out at 3014 points and it also had the
streams in it. Many times i like to do my maps without the streams and add
them later if the points allow. With MK100v20 you CANNOT make hydrography
maps only!!. I am used to having two directories, one for Roads etc, and one
for Lakes and Streams only, i tryid this with the new version and all it tells
you that no information for that area was found. I suggest that users try using
both MKMAPKKE then MK100v20 for the same highly populated area and see
which one will work the best, because for the City of Huntsville MK100v20
would not even work when choosing +.5 scale. (1/2 mile maps)

Bill KE4EER
ke4eer@ro.com
```

---

487. Re: [APRSSIG:6094] Re: Tech Project/Quiz for the Sig

From: rwf <rwf@mindspring.com>
Date: Thu, 18 Jan 1996 07:26:37 -0500
To: aprssig@tapr.org
Message-ID: <199601181226.HAA14975@borg.mindspring.com>
Rendered body type: text/plain

```
Larry Griffin wrote some stuff about Rose.



While we are rewriting digi code, consider this:

The digi should respond to the APRS query  ?APRS?  with its beacon text, or
other text containing its position.  Then the digis wouldn't have to
broadcast their positions as often.

I'd like to see this in *all* TNCs- not just nodes/switches


ralph







Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor

rwf@mindspring.com  rwf@cokecce.com                   Atlanta, GA USA
Web:    http://www.mindspring.com/~rwf     for ATV, Balloon, and Ham info
FTP:     ftp.mindspring.com/users/rwf            for ATV, GPS, APRS info
```

---

488. was Tech Project....is 10m APRS!

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 18 Jan 1996 06:08:35 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"n2czf@gate.net" <n2czf@gate.net> (Return requested)
Message-ID: <0487230FE5463008*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Six meters is used in the Cal/Nev/Ariz area for packet backbone.  I
     think the frequency is 51.12MHz at 4800 baud.  There's a machine at
     Big Bear, one at Potosi Mtn nr Las Vegas, one on Hualapai Mtn nr
     Kingman, one at Mingus Mtn nr Prescott, then I think another in the LA
     and PHX areas.  Appears to work pretty well.  I can't hear any of the
     links from my house, though, so I don't know the traffic levels.

     10m is heavily used by latin/south american hams for a packet bbs
     forwarding system.  The freq that I hear a lot of traffic on (during the
     day only, of course) is 28.180LSB, and I regularly hear Argentina,
     Columbia, Brazil, a few Mexicans and others.  All 1200 baud.  I've even
     connected to a few of the LUs with 10w and a dipole up 20 feet.  I have
     done some very minor experiments with 10m and have had little luck, but
     then I haven't used much for tx power or antenna.

     I'd be very interested in running some experiments on 28.185MHz LSB.  I
     have a Uniden and a 1200 baud TNC just sitting there.  When I get back home
     I will put it back on the air and let it brap out an APRS beacon.  The
     antenna will be a dipole oriented n-s (beam e-w).  If there's some interest
     generated, I'll even consider a 3-ele beam and more power.

     10m is interesting because a year or so ago a few of us experimented with
     meteor scatter on 10m and were VERY impressed with the preliminary results.
```

```
      We found that there were a significant amount of paths that stayed alive
     for many seconds.  This was all cw, however, and we didn't try running
     packet or any form of data.

     73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6098] Questions re: Tech Project....
Author:  n2czf@gate.net at Internet
Date:    1/17/96 4:02 PM
```

---

489. Re: [APRSSIG:6105] Re: Tech Project/Quiz for the Sig

From: "Tom Moulton" <tmoulton@ram.net>
Date: Thu, 18 Jan 96 09:34:51 EST
To: aprssig@tapr.org
Message-ID: <15021573.2204@ram.net>
Rendered body type: text/plain

```
>The digi should respond to the APRS query  ?APRS?  with its beacon text, or
>other text containing its position.  Then the digis wouldn't have to
>broadcast their positions as often.
>
>I'd like to see this in *all* TNCs- not just nodes/switches

Where can I find documentation that describes the various actions that
tnc's, digi's, etc CAN, MUST and Should NOT perform?

I would like to help support APRS on specific User Channels.

(I state it this way because it is very reasonable to have a wide area ROSE
 Network that has many different uses. The backbone just passed data with
 no regard as to which application created it...)

(I do see a switch stack that could have APRS Channel, BBS Forwarding
Channel, IP Channel and a couple of backbone channels...)

***********************
Thomas A. Moulton, W2VY
w2vy@ram.net
```

---

490. Re: [APRSSIG:6106] was Tech Project....is 10m APRS!

From: 2J2AH-Alexander Broadcast Engineering <jalexan@cyberhighway.net>
Date: Thu, 18 Jan 1996 09:06:10 -0700
To: aprssig@tapr.org
Message-ID: <199601181606.AA00313@cyberhighway.net>
Rendered body type: text/plain

```
At 08:15 AM 1/18/96 -0600, you wrote:
>
>     Six meters is used in the Cal/Nev/Ariz area for packet backbone.  I
>     think the frequency is 51.12MHz at 4800 baud.  There's a machine at
>     Big Bear, one at Potosi Mtn nr Las Vegas, one on Hualapai Mtn nr
>     Kingman, one at Mingus Mtn nr Prescott, then I think another in the LA
>     and PHX areas.  Appears to work pretty well.  I can't hear any of the
>     links from my house, though, so I don't know the traffic levels.
>
>     10m is heavily used by latin/south american hams for a packet bbs
>     forwarding system.  The freq that I hear a lot of traffic on (during the
>     day only, of course) is 28.180LSB, and I regularly hear Argentina,
>     Columbia, Brazil, a few Mexicans and others.  All 1200 baud.  I've even
>     connected to a few of the LUs with 10w and a dipole up 20 feet.  I have
>     done some very minor experiments with 10m and have had little luck, but
>     then I haven't used much for tx power or antenna.
>
>     I'd be very interested in running some experiments on 28.185MHz LSB.  I
>     have a Uniden and a 1200 baud TNC just sitting there.  When I get back
home
>     I will put it back on the air and let it brap out an APRS beacon.  The
>     antenna will be a dipole oriented n-s (beam e-w).  If there's some
interest
>     generated, I'll even consider a 3-ele beam and more power.
>
>     10m is interesting because a year or so ago a few of us experimented with
>     meteor scatter on 10m and were VERY impressed with the preliminary
results.
>      We found that there were a significant amount of paths that stayed alive
>     for many seconds.  This was all cw, however, and we didn't try running
>     packet or any form of data.
>
```

>   73 - Jon NW6H
>
>________________________________ Reply Separator
____
>Subject: [APRSSIG:6098] Questions re: Tech Project....
>Author: n2czf@gate.net at Internet
>Date: 1/17/96 4:02 PM
>
>
>I have been running packet on 10 and found it to be more reliable at dx
than just stateside. Comming this next fall though, we will be installing a
solar digipeater on six. It will be in DN-13, Council mtn., ID. To prepare
for use of this device, monitor my beacon there now @ 50.061. "de n7tyq dn13"

73 Jeremy n7tyq

491. No Messages from SIG

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 18 Jan 1996 16:39:59 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested) (Receipt notification requested)
Message-ID: <0197E30FE77DF002*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

Hello,
I am wondering why I have not received any messages from this SIG
since 1/9/96. Has something changed? Do I need to re-subscribe? As far
as I know nothing has been changed on my end.

I would appreciate any help in fixing the problem, I miss my dailey
APRS fix! Please e-mail me direct...

Thanks,
Card Smith, N4FOR

492. Repost: Welcome Tom Moulton

From: Larry Griffin <largriff@onramp.net>
Date: Thu, 18 Jan 1996 11:57:34 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAE59C.2E59B5C0@lub08.onramp.net>
Rendered body type: text/plain

>>From: n2czf@gate.net
>>... Without the proper code I do not think the firmware would work
>>considering we are using UI frames and not X1J or ROSE code in a connected...

>From: Tom Moulton <w2vy@ramp.net>
>The most recent version of ROSE does support UI frames!
>
>I have added myself to this list, let's discuss what you are trying to do
>and see how well ROSE fits!

Tom. Glad to see you here!

Most APRS beacons are meant to be seen by all stations between
the source and "destination", even if the beacon is digipeated several times.
The trouble with ROSE's UI implementation is that APRS can only
decode what comes out of the final switch. If an APRS user wants to
communicate directly with another user at a specific switch using UI frames
ROSE's implementation *is* better because of the switch to switch acking
as compared to "long distance acking".

But for general APRS beacons, ROSE would work fine if it just didn't have
the "one-hop digipeating" limit.

We used to have ROSE here in West Texas. We converted 7 ROSE switches
back to TheNet simply because they couldn't digipeat more than one hop,
which cripples APRS. There are a lot of people here who would like to
see ROSE back though.

If you could just make ROSE support multi-hop digipeating, like
TheNet/Netrom, we could make everybody happy (well most everybody)!

Even better, if you could make the "simple digi" function so that it
only digis unconnected frames, that avoids people making "digied
connections" i.e.. not ROSE, while still allowing multi-hop digied beacons, and
eliminating the "long distance ack" problem inherent in "digied connections".

P.S. Should you decide to do this, we would ideally want to have up to

3 digi-only aliases which we could assign as CALL-SSID, WIDE, RELAY or whatever. It would also be nice if we could add a periodic beacon from the switches themselves.

Larry Griffin <largriff@onramp.net>

493. Re: [APRSSIG:6107] Re: Tech Project/Quiz for the Sig

From: rwf <rwf@mindspring.com>
Date: Thu, 18 Jan 1996 13:54:16 -0500
To: aprssig@tapr.org
Message-ID: <199601181854.NAA09655@borg.mindspring.com>
Rendered body type: text/plain

I'm sure Bob Bruniniga WB4APR will respond to this one, as he knows the protocol best of anyone. I wish all TNC's would respond to the APRS Query, even if they arent nodes/switches/whatever. The AEA PK 12 doe it when in GPS mode, but I think that's the only one that does. Gwyn? Kantronics? Any response?

At 08:52 AM 1/18/96 -0600, Tom Moulton wrote:

>Where can I find documentation that describes the various actions that
>tnc's, digi's, etc CAN, MUST and Should NOT perform?
>
>I would like to help support APRS on specific User Channels.
>
>(I state it this way because it is very reasonable to have a wide area ROSE
> Network that has many different uses. The backbone just passed data with
> no regard as to which application created it...)
>
>(I do see a switch stack that could have APRS Channel, BBS Forwarding
>Channel, IP Channel and a couple of backbone channels...)

```
Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor

rwf@mindspring.com  rwf@cokecce.com                   Atlanta, GA USA
Web:    http://www.mindspring.com/~rwf     for ATV, Balloon, and Ham info
FTP:     ftp.mindspring.com/users/rwf            for ATV, GPS, APRS info
```

494. Re: [APRSSIG:6111] Re: Tech Project/Quiz for the Sig

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 18 Jan 1996 19:16:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960118190818.10610B-100000@paccomm>
Rendered body type: text/plain

On Thu, 18 Jan 1996, rwf wrote:

```
> I'm sure Bob Bruniniga WB4APR will respond to this one, as he knows the
> protocol best of anyone.  I wish all TNC's would respond to the APRS Query,
> even if they arent nodes/switches/whatever.  The AEA PK 12 doe it when in
> GPS mode, but I think that's the only one that does.   Gwyn?  Kantronics?
> Any response?
>
> Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor
>
> rwf@mindspring.com  rwf@cokecce.com                 Atlanta, GA USA
> Web:    http://www.mindspring.com/~rwf     for ATV, Balloon, and Ham info
> FTP:     ftp.mindspring.com/users/rwf            for ATV, GPS, APRS info
>
```

I've already started looking at this. PacComm TNCs may have one or both of the following features already which are quite similar to what is proposed.

UIBEACON ON|OFF When on and the TNC hears a UI frame with its MYCALL in the 'to' field, it will send a one time beacon of BTEXT via the UNPROTO path.

UILOCATION ON|OFF When on and the TNC hears a UI frame with its MYCALL in the 'to' field, it will send a one time LOCATION beacon of the contents of LTEXT via LPATH. Partially implemented in the PicoPacket are three additional buffer fields, L1TEXT, L2TEXT, and L3TEXT. If any of these fields are non-blank, they will also be send just as was LTEXT. (What I mean by partially implemented is that these three additional fields cannot yet be automatically filled with GPS strings.)

It appears that all is needed is to have a command UIAPRS which would work just like UILOCATION, but would be triggered when the letters APRS are seen. Danger here, if someone else sets up a regular transmission with the frame addressed to APRS, this TNC will react each time.

Hope I'm missing something about the APRS query that was mentioned.

Anyway, it should be fairly easy to do, but no promises yet.

Gwyn Reedy, W1BEL   gwyn@paccomm.com   W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.   +(813) 874-2980 Fax:+(813) 872-8696
4413 N. Hesperides St.   BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA   info@paccomm.com http://www.paccomm.com

---

495. STS-72 entry data

From: gcarman@GP804.jsc.nasa.gov (Carman, Gilbert L.)
Date: Thu, 18 Jan 1996 12:15:01 -0600
To: gerry@cs.tamu.edu (N5JXS), mseveran@gp808.jsc.nasa.gov (N5XWF),
       sbienven@life.jsc.nasa.gov (NB5F), w5iu@amsat.org (W5IU)
Message-ID: <1996Jan18.121200.1425.56916@jsc-ems-hub02.jsc.nasa.gov>
Rendered body type: text/plain

Launch: 11-Jan-96 09:41:00.000 UTC

STS-72 Nominal EOM KSC Entry (orbit 142) Jan 20, 1996

```
         CITY                TIME          ELEV          ELSUN     BOOM
 1.  Los Angeles, CA      07:20:37 UTC      4.9  S       -72.4    29:58
 2.  San Diego, CA        07:20:50 UTC      8.5  S       -74.0    21:22
 3.  Socorro, NM          07:23:24 UTC      7.3  S       -75.3    22:14
 4.  El Paso, TX          07:23:27 UTC     23.3  S       -77.6     8:44
 5.  Albuquerque, NM      07:23:32 UTC      5.1  S       -74.4    27:12
 6.  Tucumcari, NM        07:24:17 UTC      5.3  S       -73.7    26:36
 7.  Alpine, TX           07:24:09 UTC     57.5  N       -78.2     4:05
 8.  Midland, TX          07:24:39 UTC     27.6  S       -76.1     7:17
 9.  Lubbock, TX          07:24:46 UTC     11.0  S       -74.6    16:01
10.  Amarillo, TX         07:24:49 UTC      5.5  S       -73.1    25:28
11.  San Angelo, TX       07:25:05 UTC     58.3  S       -75.8     3:58
12.  Clinton, OK          07:25:34 UTC      5.5  S       -71.7    25:23
13.  Wichita Falls, TX    07:25:41 UTC     11.0  S       -72.8    15:47
14.  San Antonio, TX      07:25:33 UTC     15.8  N       -76.1    11:44
15.  Austin, TX           07:25:50 UTC     26.5  N       -75.1     7:21
16.  Oklahoma City, OK    07:25:56 UTC      5.7  S       -71.0    24:37
17.  Fort Worth, TX       07:26:00 UTC     22.0  S       -73.0     8:36
18.  Waco, TX             07:26:02 UTC     75.0  S       -73.8     3:25
19.  Gainesville, TX      07:26:03 UTC     12.8  S       -72.2    13:41
20.  Denton, TX           07:26:03 UTC     16.1  S       -72.6    11:19
21.  Irving, TX           07:26:06 UTC     20.7  S       -72.7     9:00
22.  Waxahachie, TX       07:26:08 UTC     29.0  S       -73.0     6:40
23.  Dallas, TX           07:26:09 UTC     21.2  S       -72.7     8:49
24.  College Stn, TX      07:26:16 UTC     33.5  N       -73.8     5:50
25.  Paris, TX            07:26:28 UTC     12.4  S       -71.3    13:44
26.  Conroe, TX           07:26:34 UTC     24.9  N       -73.4     7:25
27.  Houston, TX          07:26:36 UTC     16.9  N       -73.6    10:30
28.  Tyler, TX            07:26:36 UTC     29.7  S       -72.0     6:20
29.  Friendswood, TX      07:26:40 UTC     14.7  N       -73.6    11:47
30.  JSC                  07:26:41 UTC     15.0  N       -73.5    11:33
31.  Shreveport, LA       07:27:05 UTC     23.9  S       -70.8     7:27
32.  Many, LA             07:27:13 UTC     67.1  S       -71.2     3:19
33.  Ringgold, LA         07:27:15 UTC     26.9  S       -70.6     6:38
34.  Kisatchie, LA        07:27:20 UTC     80.0  S       -71.0     3:05
35.  Natchitoches, LA     07:27:21 UTC     49.0  S       -70.8     4:01
36.  Jonesboro, LA        07:27:26 UTC     27.5  S       -70.2     6:27
37.  Winnfield, LA        07:27:29 UTC     37.5  S       -70.3     4:54
38.  Alexandria, LA       07:27:35 UTC     82.6  S       -70.5     3:01
39.  Columbia, LA         07:27:40 UTC     28.7  S       -69.8     6:07
40.  Baton Rouge, LA      07:28:08 UTC     40.4  N       -69.9     4:27
41.  New Orleans, LA      07:28:38 UTC     30.4  NNE     -69.2     5:34
42.  Gulfport, MS         07:29:01 UTC     74.8  NNE     -68.1     2:53
43.  Biloxi, MS           07:29:05 UTC     85.6  N       -67.9     2:47
44.  Mobile, AL           07:29:23 UTC     41.2  SSW     -67.1     4:07
```

Landing: 20-Jan-96 07:41:36 UTC

Note: These times and elevations are at the point of closest approach (peak elevation) for each city. ELSUN is the Sun's elevation for that city at that time. BOOM is the estimated length of time (MIN:SEC) after closest approach when the sonic boom may be heard. However, it is unlikely that the boom can be heard if peak elevation is less than about 20 deg.

Gil Carman

---

496. Re: [APRSSIG:6112] Re: Tech Project/Quiz for the Sig

From: Dick Mead <mead@skat.usc.edu>
Date: Thu, 18 Jan 96 18:17:29 GMT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.822017849.mead@hamal.usc.edu>
Rendered body type: text/plain

Instead of hard coding one trigger and one response, why not make 1 or
2 generic commands that allows 1-6 chars user picked as a trigger and
a variable field with a variable path. Saves having to do it again when
someone else with their own "special" use asks for the same thing.
The variable text field could be manually filled by the user, or a
special code could be defined to look for GPS or WX data from some
source. Seems more flexible to me. my $.03.

Dick WB6NGC

---

497. Re: [APRSSIG:6112] Re: Tech Project/Quiz for the Sig

From: rwf <rwf@mindspring.com>
Date: Thu, 18 Jan 1996 22:38:45 -0500
To: aprssig@tapr.org
Message-ID: <199601190338.WAA09503@borg.mindspring.com>
Rendered body type: text/plain

Gwyn said-

>
>Hope I'm missing something about the APRS query that was mentioned.
>
>Anyway, it should be fairly easy to do, but no promises yet.
>

WOW. I didn't remember seeing that stuff. What a good start.   I *think*
the APRS query has the format: ?APRS?. there is a lat/long and a radius
sent too. Can't remember who the addressee is, probably "APRS".

This is what triggers a pc running APRS to respond with its BTEXT (I think)
sometime in the next 2 minutes if it is within the distance range of the
station issuing the query.

If the ?APRS? query is addressed to a particular station insterd, then only
that station answers, sending its position (BTEXT).

I hope Bob will elaborate on this.

>

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical Advisor

rwf@mindspring.com rwf@cokecce.com   Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for ATV, Balloon, and Ham info
FTP: ftp.mindspring.com/users/rwf   for ATV, GPS, APRS info

---

498. RE: [APRSSIG:6096] Re: Six meter freqs?

From: Bob Sayers <bsayers@implex.co.uk>
Date: Thu, 18 Jan 96 11:08:35 GMT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.960118111052.bsayers@westmids.epline.implex.co.uk>
Rendered body type: text/plain

>50.62 has been talked about.
>

```
I'm keen to see 50MHz frequency identified for UK/European use. Do any SIG
readers on this side of the pond have any comments?

Regards,

Bob

-------------------------------------
Name: Bob Sayers, G8IYK
E-mail: bsayers@epline.implex.co.uk
Emergency Planning Unit
West Midlands Fire Service
Birmingham, UK
Date: 10/13/95
Time: 11:17:27

This message was sent by Chameleon
-------------------------------------
```

---

499. Satellite Tracking Program - LOGSAT

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Fri, 19 Jan 1996 11:04:48 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960119110448.20408c79@exame2.dseg.ti.com>
Rendered body type: text/plain

```
In response to my query about the location of the LOGSAT program other than
on COMPUSERV, George Dean - KC5KGE, supplied the following information:

>       I found a copy of LogSat at the following site ...
>
>     Host:      sunsite.doc.ic.ac.uk  (ip address 193.63.255.1)
>
>     Location: /computing/systems/ibmpc/windows3/misc
>
>     File:     logsat51.exe           (size= 1214137 bytes)
>
>     I have not tried it myself since I already have a registered copy.
>     Good luck.
>
>     73's.
>        \\//
>        (..)
>    -ooO-(_)-Ooo------------------------------------------------------
>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>    ------------------------------------------------------------------

The information in the parentheses I added. I pulled the prgram using FTP
from SUNSITE... (in England) as mentioned above. It is a self extracting
program and did its thing quickly and with no problems. It is a pretty
impressive prgram, and having the voice announcements is a nice touch.

Pulling the program from England is pretty slow. It took about 45 minutes
last night. I do have it here now and would be happy to repost it to the SIG
or wherever. However, I'm not sure what the proper destination directory
would be. If someone will supply that information, I'll post LOGSAT51.EXE to
it. Thanks.

   73 Claude
      K5DTN
```

---

500. Bandpass Filter

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 19 Jan 1996 13:05:16 -0600
To: aprssig@tapr.org
Message-ID: <199601191905.NAA13219@tbc2.tbcnet.com>
Rendered body type: text/plain

```
"Can't be any good...didn't cost enuf!" - anonymous bureaucrat (describing
ham radio and APRS)


I just got my DCI 146-4H bandpass filter back from the shop.  I wanted to
have it swept to find out how good this $89 marvel was.

Here's what the technician said:

-3dB (half power) points:  Low 143.49, High 148.44
```

Insertion Loss: Negligible
Ripple: less than 3dB over passband

Get a second opinion...nobody's perfect.

J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

---

501. ROSE and APRS - Current and Future Abilities

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 19 Jan 96 15:10:58 EST
To: aprssig@tapr.org (aprs sig)
Message-ID: <15021573.2214@ram.net>
Rendered body type: text/plain

I have had a few discussions with some people on the list and
will now show what can be done with ROSE now.

Right now if you were to set your LPATH to

APRS via Switch_Call, ROSE_Address

As long as you can be heard by Switch your UI's would be routed
to the Point in the network that had the address 'ROSE_Address'

So this means if I were to take a trip I would have to change the
Path as I drove out of range of a switch.

Not very usefull...

I will add support for the switch to accept UI's via WIDE

APRS Via WIDE,201338

Now if I take a trip, as long as a ROSE switch hears me it will accept
the UI and pass it to my Home QTH's local ROSE Switch (Address 201338)

There was a request to open up the digi function, I can do that. Maybe
as a configuration option.

I will also enhance the UI's so the switch can be configured to append
a WIDE digi to the frames the switch sends.

ex:

W2VY>APRS,908602,W2VY-3*,WIDE <UI>:aprs data

This should help a bit...

Now for the longer term support (APRS and other applications)

Be able to send a frame into the switch that will get delivered to many
user channels using many special addresses. Local, Regional, National
and maybe Global.

The UI's would be routed via backbones used for other packet networks or
applications. Imagine a packet backbone cloud with sets of APRS User
Channels and Sets of DX Cluster Channels and BBS and etc...

A Shared backbone.

Yes it will need a lot of bandwidth... the more people that can help fund
it the better!

****
Thomas A. Moulton, W2VY
w2vy@ram.net

---

502. [APRSSIG:6102] Re: ROSE-UI-and APRS

From: n2czf@gate.net
Date: Fri, 19 Jan 1996 16:34:59 -0500
To: aprssig@tapr.org
Cc: tmoulton@ram.net
Message-ID: <199601192134.QAA30042@osceola.gate.net>

Rendered body type: text/plain

```
>><---- Begin Forwarded Message ---->
>>Date: Wed, 17 Jan 1996 23:05:38 -0600 (CST)
>>Reply-To: aprssig@tapr.org
>>From: "Tom Moulton" <tmoulton@ram.net>
>>To: aprssig@tapr.org
>>Subject: [APRSSIG:6102] Re: ROSE-UI-and APRS

>>So If the switch RX's a frame to APRS you want to to be TX'ed Locally and
>>forwarded to the other APRS channels.
>>I do believe that some simple changes can be made to make it work well with
>>APRS.

>>Thomas A. Moulton, W2VY
>>w2vy@ram.net

<----  End Forwarded Message  ---->


YES, in one word, that will do it!

As far as addressing I guess that can be taken at a later date. Reason for that
is so standard APRS addresses can be used all over the world. Not every area
uses or even has experience with ROSE, this will allow us to integrate non ROSE
areas with ROSE areas. Due to the HF gateways we have large groups of people
interacting with each other from all over, hence the need to be flexible with
address formats.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

503. Re: [APRSSIG:6118] Bandpass Filter

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 19 Jan 1996 16:59:32 -0600
To: aprssig@tapr.org
Message-ID: <199601192259.QAA16478@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Bob and SIG,
My apologies for what appears to be a very ambiguous message.

First, the signature of "get a 2nd opinion" refers to my second Internet
preoccupation, a mailing list for brain tumor patients, of which I had one.
And the 2nd opinion applies to medical opinions.  Sorry!  It's fixed.

Secondly, I made a typo in the ripple specs...it was 0.3 dB.

And thirdly, I am very pleased with the bandpass filter, ESPECIALLY since I
got it for so little $.

73's
Barry.



>On Fri, 19 Jan 1996, John B. Leonard wrote:
>
>> -3dB (half power) points:  Low 143.49, High 148.44
>> Insertion Loss:  Negligible
>> Ripple:  less than 3dB over passband
>>
>> ----------------------------------------------------------------------------
>> Get a second opinion...nobody's perfect.
>> ----------------------------------------------------------------------------
>
>I assume you are very happy with the results?  The less than 3db ripple
>was more like negligible also on my tests.  So saying it is less than
>a nominal 3 dB is not as fair as saying it is also less than 1 db ripple
>across the pass band...  which in my case was less than 0.5.
>
>It is hard to determine the meaning of your message.  Whether you think a
>second opinion is needed because you are *not* happy with the results, or
>because your *are*. hi hi
>
>
>
>
---------------------------------------------------------------------------
```

N9VJQ's Home Page at
http://tbcnet.com/~jleonard/n9vjq.htm

J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

504. Re: [APRSSIG:6102] Re: ROSE-UI-and APRS

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 19 Jan 96 18:27:51 EST
To: n2czf@gate.net
Cc: aprssig@tapr.org
Message-ID: <15021573.2217@ram.net>
Rendered body type: text/plain

>As far as addressing I guess that can be taken at a later date. Reason for t
>hat
>is so standard APRS addresses can be used all over the world. Not every area
>uses or even has experience with ROSE, this will allow us to integrate non R
>OSE
>areas with ROSE areas. Due to the HF gateways we have large groups of people
>interacting with each other from all over, hence the need to be flexible wit
>h
>address formats.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
The ROSE addresses are just in the digipeater field, it's a local thing...

But it IS based upon an International Standards (as is the rest of ROSE)
The ROSE addressing is X.121 and can address the entire world.

ROSE itself is CCITT X.25 on top of ARRL AX25.

****
Thomas A. Moulton, W2VY
w2vy@ram.net

505. APRS REGISTRATION

From: "Alfred E. Abbott, Jr." <73142.523@compuserve.com>
Date: 19 Jan 96 19:35:37 EST
To: Bob Bruninga <aprssig@tapr.org>
Message-ID: <960120003536_73142.523_EHJ143-1@CompuServe.COM>
Rendered body type: text/plain

Dear Bob,
On I mailed you an order blank to register my copy of APRS and requesting a disk with a copy of the latest version. With the registration I enclosed a check for $33.00 to cover the cost of registration and the disk. I received a post card with my validation # which worked fine. I did not; however, receive a disk. Do you plan to send that when the next version comes out? If not, I would like the $9.00 back. My address is

Alfred E. Abbott, Jr.
2906 Canyon Creek Dr.
San Angelo, Tx. 76904

Thank you,

Fred Abbott, KN4JS

506. 1:2,000,000 CD Map Questions

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 19 Jan 1996 18:48:01 -0600
To: aprssig@tapr.org
Message-ID: <9601200049.AA10895@ELWOOD.pionet.net>
Rendered body type: text/plain

Recently, I saw a post that said the 1:2,000,000 CD format had changed such that MakeMap1 would no longer work. Is this correct and if it is, has there been a work around. Thanks--Dave

507. [APRSSIG:6119] ROSE and APRS - Current and Future Abilities

From: n2czf@gate.net
Date: Fri, 19 Jan 1996 20:51:47 -0500
To: aprssig@tapr.org
Message-ID: <199601200151.UAA21104@osceola.gate.net>
Rendered body type: text/plain

```
Oh boy oh boy! Christmas in January!!

<---- Begin Forwarded Message ---->
Date: Fri, 19 Jan 1996 14:20:51 -0600 (CST)
Reply-To: aprssig@tapr.org
From: "Tom Moulton" <tmoulton@ram.net>
To: aprssig@tapr.org
Subject: [APRSSIG:6119] ROSE and APRS - Current and Future Abilities

Now for the longer term support (APRS and other applications)

Be able to send a frame into the switch that will get delivered to many
user channels using many special addresses. Local, Regional, National
and maybe Global.

The UI's would be routed via backbones used for other packet networks or
applications. Imagine a packet backbone cloud with sets of APRS User
Channels and Sets of DX Cluster Channels and BBS and etc...

A Shared backbone.

Yes it will need a lot of bandwidth... the more people that can help fund
it the better!

***********************
Thomas A. Moulton, W2VY
w2vy@ram.net



<----  End Forwarded Message  ---->

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

508. Satellite Tracking Program LOGSAT

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Fri, 19 Jan 1996 23:02:57 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960119230257.2041465f@exame2.dseg.ti.com>
Rendered body type: text/plain

```
I uploaded the LOGSAT51.EXE file to the TAPR upload directory earlier this
evening. It's definitely worth taking a look at it.

Get to it by:

      ftp.tapr.org

directory:

      /tapr/SIG/aprssig/upload

file:
       logsat51.exe

With a 28.8K modem, it took about 6 minutes to upload it this evening. With
the same modem it took over 45 minutes to download it from England last
night, but most of that time was spent waiting for something to happen!

Enjoy!

    73  Claude
        K5DTN
```

---

509. Exended Mobile APRS trip GA / FL

From: rwf <rwf@mindspring.com>
Date: Sat, 20 Jan 1996 08:38:56 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960120084607.0b97f366@mindspring.com>
Rendered body type: text/plain

This is addressed to those in Florida, mostly. Sorry for the bandwidth everybody else.

Here's another moving target for y'all.

I'm leaving Monday the 22nd for an extended business trip to Florida. I'll drive down I-75 and then go to many of or local Offices for several days at a time. All the while, I'll run APRS in full computer mode with GPS and at least VHF. Haven't got HF antennas on new Van yet.

I'll try to GATE occasionally but will mostly be on whatever local VHF nets there are.

If any one has any maps of Florida other than what is already in SEMAPS07.ZIP, please let me know.

My trip will cover the following towns: Brooksville, Tampa, Orlando, Cocoa, St Petersburg, Sarasota, Punta Gorda, Sebring, Ft Myers.

I am planning to attend the Miami and Orlando Hamfests as well.

If any of the local Hams/APRSers/ATVers want to get together for lunch or dinner bunches, please let me know- it gets boring on the road.

Along this same note- My Company doesn't pay for weekends. If anyone near Orlando and Miami wands a nice houseguest for the Friday/Saturday nites of the Hamfest , please let me know. I don't take up much room and dinner would be on me.

Thanks-

                 Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

510. RS10 Experiments

From: dwetzel@uswest.com
Date: Sat, 20 Jan 1996 07:38:12 -0600
To: aprssig@tapr.org
Message-ID: <100f45f0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

For those of you who are interested, I'm going to experiment with APRS on RS10 this weekend. Look for me around a downlink freq of 29.370 + or - doppler. I'll be using Grid in TO mode (if I can figure it out!) on passes beginning at 1447 Z on the 20th.

If you want to try also and are not familiar with RS-10 operation, the uplink frequency for this downlink is 145.8715. You CANNOT use FM on the uplink. It must be FSK or AFSK in SSB (just like hf), so you need a multimode to try this. I will be using 300 bps.

I will not be available for keyboard/keyboard during the pass at 1626, but should be here for all others.

See you all on RS-10!

Doug
KC7CO
dwetzel@uswest.com

---

511. APRS/AEA HELP

From: WB4LTF@aol.com
Date: Sat, 20 Jan 1996 09:49:34 -0500
To: aprssig@tapr.org
Message-ID: <960120094816_201900897@emout05.mail.aol.com>
Rendered body type: text/plain

I am using APRS v7.4e (registered) and an AEA PK-232 (OLD Model. firmware dtd. 6/87).
I have two problems.
 1. (This seems to relate to ver 7.4e as it never happened till I installed

this ver.) When I start the program (which I have and re saved a number of times) sometimes (more often than not) the program comes up with my path set to RELAY, even though ,using the tab key tells me it is set to something else. The only way I can get out of RELAY is to do a "U" none and then "O" , "D" and the saved path. Sometimes this doesn't even work and I have to change paths to some other stored path and then back to the one I want. Although this is not catastrophic it is an annoyance, and I end up transmitting a bunch of unwanted signals.

2. (This I believe to be a problem with the AEA TNC) When trying to change into SPACE mode, everything seems to go as advertised UNTIL I transmits the first time, then, I See my own sig.(ie: My: WB4LTF*>W3EAX> ect.ect.) and the alarms go off and Success is set. I have ECHO set to off and use the standard configurations as set in INITAEA.TNC.

Is there a work around for either of these problems, keeping in mind that the PK-232 is the old model (before mailbox)..

Thanks for any suggestions.
Bud
wb4ltf@aol.com

---

512. Re: [APRSSIG:6119] ROSE and APRS - Current and Future Abilities

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Sat, 20 Jan 1996 12:20:19 EST
To: <aprssig@tapr.org>
Message-ID: <20JAN96.13325963.0248.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

this shared back-bone could be on 56k 220 yes?
this could be a great place for it!
just my $0.05 worth

---

513. GPS recievers...Which one?

From: n8yel@k8daa.ampr.org (Peter)
Date: Sat, 20 Jan 96 17:23:14 EST
To: aprssig@tapr.org
Message-ID: <2059@k8daa.ampr.org>
Rendered body type: text/plain

I like the APRS software and have enjoyed using it alot...Now my thought are turning to mobile operation of APRS. I have not seen alot of documentation on GPS recievers operate best with APRS or which ones are more accurate over others....So, I am seeking advice from others on which reciever to purchase...your thoughts are appreciated!

Many thanks,

Peter Venlet
E-mail: n8yel@k8daa.ampr.org

Peter Venlet
n8yel@k8daa.ampr.org

---

514. Re: [APRSSIG:6129] APRS/AEA HELP

From: n2czf@gate.net
Date: Sat, 20 Jan 1996 18:14:04 -0500
To: aprssig@tapr.org
Message-ID: <199601202314.SAA30828@osceola.gate.net>
Rendered body type: text/plain

Problem # 1 I do not know, I have the same problem here now, you do seem to have a point.

Problem # 2 Try seting the command MXMIT off, you probably have it on.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

515. RE: [APRSSIG:6131] GPS recievers...Which one?

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Sat, 20 Jan 1996 17:44:24 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960120174424.204136d8@exame2.dseg.ti.com>
Rendered body type: text/plain

Well, Peter, a number of the guys here in the Dallas/Ft. Worth area are using the Garmin GPS 45. I'v had mine since last summer and have been pleased with it. Got it from West Marine for about $300. I've also got the mounting bracket and the Garmin power/data cable (about $35 each additional). However, these save a lot of hassle in getting it mounted and hooked up.

One thing to consider in mounting the unit is how good a look at the sky the antenna will have. After mounting the original GARMIN antenna on a window mounting bracket and connecting to the receiver with about a 6 foot length of cable (Radio Shack mounting bracket) and using that for a while, I decided to get a remote, amplified magmount antenna (Motorola ONCORE). This antenna is now mounted in the center of the dashboard right next to the windshield and has a pretty good look at the sky. The amplifier makes up for the feed cable loss. The window mount worked, but the amplified antenna works much better.

Garmin also has a remote amplified antenna, but I like the form factor of the Motorola a little better. The Motorola is like a hockey puck, the Garmin is about 6-8 inches tall and about an inch in diameter.

FYI - hope this helps.

73, Claude
K5DTN

---

516. Re: [APRSSIG:6129] APRS/AEA HELP

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Sat, 20 Jan 1996 18:38:17 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601210038.SAA16332@uxa.ecn.bgu.edu>
Rendered body type: text/plain

on 1/20, WB4LTF wrote:

>I am using APRS v7.4e (registered) and an AEA PK-232 (OLD Model. firmware
>dtd. 6/87).
>I have two problems.
> 1. (This seems to relate to ver 7.4e as it never happened till I installed
>this ver.) When I start the program (which I have and re saved a number of
>times) sometimes (more often than not) the program comes up with my path set
>to RELAY, even though ,using the tab key tells me it is set to something
>else. The only way I can get out of RELAY is to do a "U" none and then "O" ,
>"D" and the saved path. Sometimes this doesn't even work and I have to
>change paths to some other stored path and then back to the one I want.
>Although this is not catastrophic it is an annoyance, and I end up
>transmitting a bunch of unwanted signals.
>

I have had the same bug in mine as well. I am using an updated pk-232mbx with the APRS 7.4e program. Not only does it default to RELAY but it seems the program sets the tnc to converse mode and then tries to set some parameters which consequently end up going over the air as unproto packets.

73, Jay.

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

---

517. Re: [APRSSIG:6129] APRS/AEA HELP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 20 Jan 1996 20:00:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960120195837.22188C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 20 Jan 1996 WB4LTF@aol.com wrote:

> 1. (This seems to relate to ver 7.4e as it never happened till I installed
> this ver.) When I start the program (which I have and re saved a number of
> times) sometimes (more often than not) the program comes up with my path set
> to RELAY, even though ,using the tab key tells me it is set to something

WB4APR REPLY COMMENT:

Are you switchihng back and forth between HF and VHF? When ever you do this, APRS always forces RELAY on VHF and NONE on HF. COuld this be it?

518. No converse

From: ndavis@spider.lloyd.com (Norman Davis)
Date: Fri, 19 Jan 1996 17:03:36 +0000
To: aprssig@tapr.org
Message-ID: <m0tdoC2-000TurC@spider.lloyd.com>
Rendered body type: text/plain

```
Ever since I loaded 73d when I start up the TNC does not go into converse.
If I co ops-com-tnc then escape it goes to converse.

 Any Ideas?

Norman Davis WB6SHI
Email ndavis@spider.lloyd.com
      72057,1722@compuserve.com
      I love Hot cars,Planes and
      Trains. Basicly anything that moves.
```

---

519. South Africa on SPRE.....

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 20 Jan 96 22:17:19 EST
To: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960121031718_102413.375_BHA67-1@CompuServe.COM>
Rendered body type: text/plain

```
Whilst looking for the LOGSAT program on Compuserve last night, I discovered
several files pertaining to SPRE reception in South Africa!  I haven't
completely
unzipped them yet, but the descriptions and readme file look pretty interesting!
Has anyone else seen these? (read APR Bob>?????)

If anyone has an interest in them, let me know and I'll upload them to the TAPR
FTP later this weekend!

73 de Jim, KU0G
```

---

520. Re: [APRSSIG:6136] No converse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 20 Jan 1996 22:39:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960120223842.22319A-100000@greatlakes>
Rendered body type: text/plain

```
What kind of TNC are you using when you see this problem.?
```

---

521. Re: [APRSSIG:6130] Re: ROSE and APRS - Current and Future Abilities

From: "Tom Moulton" <tmoulton@ram.net>
Date: Sat, 20 Jan 96 23:56:41 EST
To: aprssig@tapr.org
Message-ID: <15021573.2219@ram.net>
Rendered body type: text/plain

```
>this shared back-bone could be on 56k 220 yes?
>this could be a great place for it!
>just my $0.05 worth
>
Sure... bits are bits...

But sorry to say that is costs a bit more than that...

The point is that is the BBS users, DX Clusters, APRS Users and IP Users
fund it we could do a lot...

(Yes it is a bit idealoical but we've got to start somewhere!)

***********************
Thomas A. Moulton, W2VY
w2vy@ram.net
```

---

522. HAM RADIO and more

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Jan 1996 00:16:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960121001353.22319I-100000@greatlakes>
Rendered body type: text/plain

```
If all goes according to plan, I may be interviewed on the talk show "HAM
RADIO AND MORE" which airs on SUnday evening at 1800 Eastern time.  My
```

understanding is that this is a talk show, and phone ins are welcome. I
do NOT know what stations carry this show...

---

523. Re: [APRSSIG:6137] South Africa on SPRE.....

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Jan 1996 00:18:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960121001807.22319J-100000@greatlakes>
Rendered body type: text/plain

On Sat, 20 Jan 1996, James R. Duncan wrote:

> Whilst looking for the LOGSAT program on Compuserve last night, I discovered
> several files pertaining to SPRE reception in South Africa! I haven't
> completely unzipped them yet, but the descriptions and readme file
look pretty interesting!
> Has anyone else seen these? (read APR Bob>?????)

WB4APR REPLY COMMENT:

I got em. Lots of SPRE, but only 2 stations used APRS down there...

---

524. Re: [APRSSIG:6140] HAM RADIO and more

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 21 Jan 96 02:32:28 EST
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960121073227_102413.375_BHA75-1@CompuServe.COM>
Rendered body type: text/plain

HAM RADIO AND MORE can be found on the audio subcarrier of WTBS on
Satellite G5, Transponder 6. If you have a satellite receiver, hit the Channel
button, scroll down to AUDIO MODE and switch from SCRAMBLED to
NORMAL and away you'll go!

I plan on listening in and just MIGHT call in and give good ol' Bob a nice
pat on the back!

73 de Jim, KU0G

---

525. subscribe

From: Ian Tickle <ian@tickly.demon.co.uk>
Date: Fri, 19 Jan 1996 21:33:41 GMT
To: aprssig@tapr.org
Message-ID: <8@tickly.demon.co.uk>
Rendered body type: text/plain

Hi there! I'd like to join the mail-list please.
my location in England is Bridport, West Dorset.
73 Ian G4ZJH.
--

```
----------------------------------------------------------------------------
| Ian Tickle    EMail ian@tickly.demon.co.uk                               |
|               Alternative Email: g4zjh@radshack.demon.co.uk             |
----------------------------------------------------------------------------
```

---

526. SPRE QuickTime Movie

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sun, 21 Jan 1996 07:52:47 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad27f1d49dc8@[204.251.33.17]>
Rendered body type: text/plain

I have created a QuickTime movie of a SPRE pass using APRtrak. The file was
re-created using the history file and consists of screen images stitched
together into a real-time re-creation.

The movie lasts about eight minutes. It is viewable on either Windows or
Macintosh with the appropriate free viewer.

Do you need a QuickTime Player ? Try: http://quicktime.apple.com/

Viewers are available for both Windows and Macintosh.

The presentation is a recreation of the Spartan Packet Radio
Experiment(SPRE) pass over Austin, Texas on January 15, 1996 between 12:30
am and 12:40 am CST. These screen images are derived from the APRtrak
History file. This was the only pass of SPRE over Austin after being

deployed by the Shuttle Endeavour (STS-72) and before the package failed
over Australia later in the same orbit. The presentation begins before the
first signal is heard from SPRE. Only the ground station W5RKN in Austin is
displayed on the map. As signals are heard from other ground stations,
their location and call sign are displayed on the map. Their location is
derived from the Grid Square contained in the digipeated packet. The
contents of this packet is shown on the bottom of the screen. The location
of the SPRE package (call sign W3EAX) was recreated from tracking data as
the GPS data from the satellite was incorrect.

The file SPRE-NS.MOV has been uploaded to

ftp://ftp.tapr.org/tapr/SIG/aprssig/upload

Ron W5RKN

also:
rparsons@bga.com

---

527. Re: [APRSSIG:6128] RS10 Experiments

From: dwetzel@uswest.com
Date: Sun, 21 Jan 1996 08:29:23 -0600
To: aprssig@tapr.org
Message-ID: <10251eb0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

1515Z Pass, Sunday Jan 21.

Heard several packets through RS-10, but due to low elevations, was
unable to completely copy anyone.

Next pass is 80+ degrees and should afford much better opportunities
here. Next pass is at 1656Z.

73!

Doug
KC7CO
dwetzel@uswest.com

---

528. SPRE Posits List

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Jan 1996 14:15:34 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960121140704.23589A-100000@greatlakes>
Rendered body type: text/plain

The following list of 60 callsigns is everyone that I have been able to
determine that successfully digipeated a packet via SPRE. If anyone has
any other stations not shown that they *know* were digipeated via W3EAX,
please send me the appropriate packet. Do NOT send me any more log
files, unless you cut out only any missing calls. The only non USA logs
I received were from Japan, Taiwan, South Africa, and Honduras.

de WB4APR....

```
AD4OR     150640 >EL98QN,W3EAX*:APRS 0.5 on line.
BV1AF     141530 >PL04VQ,W3EAX* <UI>:45w 13dB beam
JR5CLV    141530 >APRS,W3EAX* <UI>:
K1HJC     150646 >FN43HB,W3EAX*/V:APRS 0.5 on line.
K3CEW     150331 >EL97RP,W3EAX* <UI R>:35 watts to ringo
KA1VRF    150330 >EL97TO,W3EAX* <UI>:wayne vero beach
KA3DBK    150644 scout@cent.com
KB0NRK    150637 >EL29OH,W3EAX* <UI>:Earl 30w 3db omni
KB5SDW    150636 >EM50BH,W3EAX*:APRS 0.5 on line.
KC4NHB    150643 >EL97SN,W3EAX* <UI C>:@EL97sn] 25 Watts 5/8 Omni
KC5EJK    150637 >EM12OU,W3EAX*:
KC5FEV    150637 >EL29FS,W3EAX*: Use A.P.R.S.!#ver 7.4e
KC5HHN    150636 >EM10TF,W3EAX*:APRS 0.5 on line.
KC5KGE    150637 >EL29CS,W3EAX* <UI>:50w89db omni
KC7GNM    150634
>DM41UN,W3EAX*:3134.71N/11016.40W]KPC-3=ACVE-800*RGDIO,DISCONE ANT
KD4DS     150636 >EM60IK,W3EAX*:Russ in Pensacola
KD4RSX    150507 @142253/APRS 7.4 on line.
KD4SEV    150506 >EM60SJ,W3EAX* <UI>:APRS 0.5 on line.
KD4UYR    150507 >EL87OU,W3EAX* <UI>:
KE4EER    150638 >APRS <UI>:W3EAX    :Hello from KE4EER
KE4KQB    150639 >EM73UV,W3EAX*:
```

```
KE4LQF    150506 >EL98QA,W3EAX* <UI>:BREVARD CO. FL.
KE4QIZ    150330 >EL97SS,W3EAX* <UI>:25 watts into 3 el Yagi
KE4QIZ    150640 >EL97SS,W3EAX*:25 W into 3 el Yagi at 30 ft.
KE4QJH    150642 >FM18CN,W3EAX* <UI>:APRS 0.5 on line.
KE4YGT    150330 >EL98QC,W3EAX* <UI>:50w into 5el 2m beam
KF4BVD    150638 >EM73TU,W3EAX*:EM74TU 150 Watts into 15 DB
KK2L      150641 >EL86WX,W3EAX* <C C P>
KO4HD-2   150329 >EL95US,W3EAX* <UI>:Steve 45W,6dBomni@20ft
KT4FI     150329 >EL96UD,W3EAX* <UI>:Dennis Sunrise,FL 50w/8db omni/30ft
N2BRG     150648 >QTH,W3EAX*/V:@EL87ov]Gary-Seminole,FL
N2MSM-14  150642 @150149/T030/R.../P.../U-II(auto)
N2NRD     150642 >FM29LQ,W3EAX* <UI C>:170W/13EL
N2SNQ     150646 >APRS,W3EAX*/V:@150146/4001.80N/07454.35W-/mike
N3EZD     150508 >FM19OF,W3EAX* <UI>:APRS 7.4e on line.
N3JLQ     150647 >FM19VO,W3EAX*/V:
N3OBQ     150508 >FM19XN,W3EAX* <UI C>:HI WORLD!
N4ZQ      150507 >EL87UX,W3EAX* <UI>:N4ZQ@aol.com
N5ITU     150636 >EM13NA,W3EAX* <UI>:Dallas Remote Imaging Group sysop@drig
N5XDN     150636 >EM16LR,W3EAX*:7W 13dB beam
N8AAQ     150640 >EN81RJ,W3EAX* <UI>:APRS 0.5 on line.
N9AB      150640 >EN52XG,W3EAX* <UI>:
W0QDP     150642 >FM18AG,W3EAX* <UI C>:73 from Orange, Va.
W0RAO     150640 >APRS,W3EAX* <UI>:SOUTH SEMINOLE MIDDLE SCHOOL
W3ADO-1   150507 @150141/25w 12 db beam
W3EAX     150509 GPS_TIME 14:56:04>4147CC5F390344413000001003
WA3RWP    150507 >FM18OV,W3EAX <UI C>:160W INTO 6DB OMNI
WA4VAF    150506 >EM95RF,W3EAX* <UI C>:APRS 0.5 on line.
WA5SLG    150636 >EM22IH,W3EAX* <UI>:35w 6di vert
WA6RTX    150506 Bill - Lakeland, Fl
WA7ZZB    150642 >FM19SD,W3EAX* <UI C>:
WB4APR    150640 >FM19QD,W3EAX* <UI>:25w 6dB omni
WB5QLD    150636 >EM12JU,W3EAX* <UI>:40w @ 25ft
WB6LLO    150634 >APRS,W3EAX*<<UI>>:Ping! (test pkt via W3EAX)
WD5DZC    150638 >APRS <UI>:Marty
WH6YHC    141725 [awaiting data from Hawaii]
WS5R      150638 >DM95CF,W3EAX* <UI>:APRS 0.5 on line
XE1KK     150636 >EK09KH,W3EAX*:5W + Omni 3dB @ 30ft
XE2MXU    150635 >DL95UO,W3EAX*:Luis; fjorozco@academ01.mty.itesm.mx
ZS6BMN    141504 >KG44CE,W3EAX* <UI R>:
ZS6HQ     141635 >KG44DF,W3EAX* <UI R>:APRS 0.5 on line.
```

If you submit any additional calls, I need to know the NUMBER of packets he digipeated... THanks.

---

529. WinAPRS Release

From: davidc@tbcnet.com (David Chesser)
Date: Sun, 21 Jan 1996 14:43:23 -0600
To: aprssig@tapr.org
Message-ID: <199601212043.OAA15257@tbc2.tbcnet.com>
Rendered body type: text/plain

****
*****

NOTICE NOTICE NOTICE

NIAN (Northern Illinois APRS Network) will have Keith and Mark Sproul, Mac/WinAPRS authors, as their special guests for the Jan 27th meeting in Aurora, Illinois.
They will be demonstrating and distributing, to those in attendance , the much awaited public BETA release of WinAPRS. This will be followed up by the general release the following day.
If there are other APRSSIG members who would like to talk with NIAN, Keith or Mark on the 27th here is an idea.
I will run WebPhone with APRS in the Company name search field, setup the hardware for our members to hear (external speakers and remote mike) and field some calls.
If you want to join us please do the following,

Use your call in last name field and APRSSIG as your company...

Try and get a group of users together a one location, we would prefer to speak to groups as opposed to single callers....

Connect at 28800, a 14400 connection on WebPhone is to hard to work.....

Try and call about 1100 CST.....

Remember we can only to talk to one caller at a time so please have your
questions or comments ready, be brief and don't be offended if your get
placed on hold, cut off or it takes us a while to answer your call.....

remember, IT'S A HOBBY, IT'S SUPPOSED TO BE FUN.......

a beta version of Webphone can be downloaded off net, use search word
webphone from your browser.....

I know that there are other phone/voice products out there but Webphone
seems to work the best for us, would be nice to have Conference call ability
for multi connects however....

hope to talk to some of you next weekend...

73
Ed
N9LCI

---

530. WinAPRS Release

From: davidc@tbcnet.com (David Chesser)
Date: Sun, 21 Jan 1996 15:14:27 -0600
To: aprssig@tapr.org
Message-ID: <199601212114.PAA15618@tbc2.tbcnet.com>
Rendered body type: text/plain

Mark Sproul (KB2ICI) and Keith Sproul (WU2Z) the authors of
MacAPRS and noted speakers will be guests of (NIAN) Northern
Illinois APRS Network's second annual midwinter APRS
conference held at the Wheaton Hamfest Sunday, January
28th 11AM at the Odium Exposition Center in Villa Pk,IL.
Mark and Keith will be conducting a seminar covering both
Mac and PC platforms. This will be the first public demonstration and beta
release of WinAPRS, the new Windows version of MacAPRS. Don't miss
this opportunity as you discover what WinAPRS has to offer
the amateur radio community.

73's KA9NHL

---

531. WinAPRS Release (Wheaton Hamfest)

From: davidc@tbcnet.com (David Chesser)
Date: Sun, 21 Jan 1996 15:16:15 -0600
To: aprssig@tapr.org
Message-ID: <199601212116.PAA15664@tbc2.tbcnet.com>
Rendered body type: text/plain

Mark Sproul (KB2ICI) and Keith Sproul (WU2Z) the authors of
MacAPRS and noted speakers will be guests of (NIAN) Northern
Illinois APRS Network's second annual midwinter APRS
conference held at the Wheaton Hamfest Sunday, January
28th 11AM at the Odium Exposition Center in Villa Pk,IL.
Mark and Keith will be conducting a seminar covering both
Mac and PC platforms. This will be the first public demonstration and beta
release of WinAPRS, the new Windows version of MacAPRS. Don't miss
this opportunity as you discover what WinAPRS has to offer
the amateur radio community.

73's KA9NHL

---

532. (no subject)

From: (unknown sender)
Date: Sun, 21 Jan 1996 15:23:26 -0600 (CST)
Message-ID: <199601212123.PAA03689@uxa.ecn.bgu.edu>
Rendered body type: text/plain

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Subject: Re: [APRSSIG:6135] Re: APRS/AEA HELP
X-Mailer: <Windows Eudora Version 1.4.2b16>

```
>On Sat, 20 Jan 1996 WB4LTF@aol.com wrote:
>
>>  1. (This seems to relate to ver 7.4e as it never happened till I installed
>> this ver.)  When I start the program (which I have  and re saved a number of
>> times) sometimes (more often than not) the program comes up with my path set
>> to RELAY, even though ,using the tab key tells me it is set to something
>
>WB4APR REPLY COMMENT:
>
>Are you switchihng back and forth between HF and VHF?  When ever you do this,
>APRS always forces RELAY on VHF and NONE on HF.  COuld this be it?
>
In my case, this is happening whenever I turn the pk-232 on and start the
program even though I have a path saved in the cfig file.

73, Jay.

Jay Hainline  KA9CFD  EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu
```

---

533. Re: [APRSSIG:6144] SPRE QuickTime Movie

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sun, 21 Jan 1996 15:34:16 -0600
To: kc5ejk@onramp.net (Robert Winingham)
Cc: aprssig@tapr.org
Message-ID: <v02130500ad285e0b0a68@[204.251.33.66]>
Rendered body type: text/plain

```
>>I have created a QuickTime movie of a SPRE pass using APRtrak. The file was
>>
>
>I got was a 56K text that worked great with MoviePlayer but
>I had to use the open file menu on the MAC.
>
>You might get some problem reports as it won't double click start.

That is because I wanted ONE file that would work on both Mac and Windows.
Should have pointed this out.

>
>Thanks for doing this IT look GREAT.
>
>We needed a audio track with you going   "WOW  WOW   WOW "

Unfortunately, I have such a file, but it is about 6Mb with the sounds. A
quirk of QuickTime movies with both video and sound. If someone has a
solution, let me know.


Ron W5RKN

also:
rparsons@bga.com
```

---

534. Help!

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Sun, 21 Jan 1996 15:44:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601212144.PAA07828@uxa.ecn.bgu.edu>
Rendered body type: text/plain

```
Help!

I am having a problem in not seeing a local digipeater appear on my screen.
I am using a pk-232mbx and APRS ver. 7.4e. The local digipeater is a
Heathkit HK-232 with the following BTEXT and UNPROTO programmed in:
BTEXT !4027.92N/09041.17W_ Macomb Radar
UNPROTO APRS via WIDE
MYCALL WB9TEA-10

The digipeater beacons every half hour. However when it does, it shows
up on my aprs program as this:
No>: WB9TEA-10*>WIDE>APRS:!4027.92N/09041.17W_ Macomb Radar

A couple of the locals that are using an older version of APRS claim they
are seeing the digipeater with no problem as a blue weather dot.
I cannot see it however I can see everyone else with no problem!
```

```
When pressing the TAB key, the following parameters appear on my screen:
VAL|TNC|4800|15|gfl|junk|30/540|dgps|MYA RELAY|   |IL|BEEPS
XMT|log|UP|DR|cw|PFL|other|VHF|FADE|VIA WB9TEA-10, WIDE
```

Can someone tell me if I have something set wrong with the info given or
is there something quirky about the most recent version?

73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

---

535. Re: [APRSSIG:6138] Re: No converse

From: ndavis@spider.lloyd.com (Norman Davis)
Date: Sat, 20 Jan 1996 15:10:40 +0000
To: aprssig@tapr.org
Message-ID: <m0te8uU-000TsyC@spider.lloyd.com>
Rendered body type: text/plain

>What kind of TNC are you using when you see this problem.?

PK232mbx

Norman Davis WB6SHI
Email ndavis@spider.lloyd.com
72057,1722@compuserve.com
I love Hot cars,Planes and
Trains. Basicly anything that moves.

---

536. WinAPRS Announcement

From: davidc@tbcnet.com (David Chesser)
Date: Sun, 21 Jan 1996 17:30:30 -0600
To: aprssig@tapr.org
Message-ID: <199601212330.RAA16923@tbc2.tbcnet.com>
Rendered body type: text/plain

Come see the NIAN web page for the WinAPRS Announcement at
http://tbcnet.com/~davidc/aprs.html

73's KA9NHL

---

537. APRS74E + 16550 UART

From: "Eugene F. Kremzier" <gene@buffnet.net>
Date: Sun, 21 Jan 1996 19:11:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SCO.3.91.960121190556.517A-100000@buffnet3.buffnet.net>
Rendered body type: text/plain

Thanks to all who responded to my problem trying to get my pk232
to communicate with aprs74e. I found out there appears to be a problem
with aprs74e and my p5-90 with the fast uart chip. I was only able to
get it to work by installing another serial card without the fast uart chip.
Has anyone else had this problem and does any know if this will be fixed
in the nex version.

Thanks   gene@buffnet.net

---

538. Talk Show

From: ke4eer@ro.com (William Nolle)
Date: Sun, 21 Jan 1996 18:13:17
To: aprssig@tapr.org
Message-ID: <199601220021.SAA08903@sh1.ro.com>
Rendered body type: text/plain

Great show Bob. By the way i listened on my satellite dish not on G5-6 as
someone stated on the sig but on S3-9 again that was great listening.

Bill KE4EER
ke4eer@ro.com

---

539. WinAPRS NIAN and Webphone

From: Ed Rogers <edwardwr@inil.com>
Date: Sun, 21 Jan 1996 20:10:21 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601220210.UAA15775@sys1.tapr.org>
Rendered body type: text/plain

```
>             NOTICE NOTICE NOTICE
>
>NIAN (Northern Illinois APRS Network) will have  Keith and Mark Sproul,
Mac/WinAPRS authors, as their special guests for the Jan 27th meeting in
Aurora, Illinois.
>They will be demonstrating and distributing, to those in attendance , the
much awaited public BETA release of WinAPRS. This will be followed up by the
general release the following day.
>If there are other APRSSIG members who would like to talk with NIAN, Keith
or Mark on the 27th here is an idea.
>I will run WebPhone with APRS in the Company name search field, setup the
hardware for our members to hear (external speakers and remote mike) and
field some calls.
>If you want to join us please do the following,
>
>Use your call in last name field and APRSSIG as your company...
>
>Try and get a group of users together a one location, we would prefer to
speak to groups as opposed to single callers....
>
>Connect at 28800, a 14400 connection on WebPhone is to hard to work.....
>
>Try and call about 1100 CST.....
>
>Remember we can only to talk to one caller at a time so please have your
questions or comments ready, be brief and don't be offended if your get
placed on hold, cut off or it takes us a while to answer your call.....
>
>remember, IT'S A HOBBY, IT'S SUPPOSED TO BE FUN.......
>
>a beta version of Webphone can be downloaded off net, use search word
webphone from your browser.....
>
>I know that there are other phone/voice products out there but Webphone
seems to work the best for us, would be nice to have Conference call ability
for multi connects however....
>
>hope to talk to some of you next weekend...
>
>73
>Ed
>N9LCI
>
>
>
```

---

540. Re: [APRSSIG:6155] APRS74E + 16550 UART

From: n2czf@gate.net
Date: Sun, 21 Jan 1996 21:10:29 -0500
To: aprssig@tapr.org
Message-ID: <199601220210.VAA43786@osceola.gate.net>
Rendered body type: text/plain

THis brings up a good question, I do not believe I have a 16550 UART on my card but I do seem to have a occasional problem with my serial card. I will get the PC to send to the TNC a command at times and all of the sudden the program will lock up. Usually happens when I am not looking at the screen or at work and when I do return I see "Sending to TNC" in the upper right. All I can do is abort the program and restart it losing any information that was on the screen.

This has been going on for a few years now with a previous PC (286) and both under WINDOWS and DOS. I am now on a 486/66 and nothing has changed. I allways thought that I NEEDED a 16550 to resolve the problem, now I see a 16550 can also cause it! What is one to do ??

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

541. Boston Maps

From: Tom_McGee@bmugbos.org (Tom McGee)
Date: Sun, 21 Jan 96 20:58:19 EST
To: aprssig@tapr.org
Message-ID: <001EEBF1.fc@bmugbos.org>
Rendered body type: text/plain

Where can I get more detailed APRS maps for Boston than the ones that come in the archive?

73, ka1tox

---

542. Re: [APRSSIG:6135] Re: APRS/AEA HELP

From: Jess Girard <girard@panix.com>
Date: Sun, 21 Jan 1996 21:56:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960121215210.4063A-100000@panix.com>
Rendered body type: text/plain

```
Hi Bob (Bruninga):

I thought you knew...this does appear to be a bug with v7.4e. Two friends
agreed they have the same problem, namely, that you have to manually
reset the Unproto path using OU. None of us had been jumping back and
forth between HF and VHF although I confess I recently tried HF for the
first time... of course it had the problem before that.

Jess Girard ND1L
```

---

543. Re: [APRSSIG:6133] RE: GPS recievers...Which one?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 21 Jan 1996 22:03:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960121220229.350A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sat, 20 Jan 1996, Claude 995-5040 pager 4541 wrote:

(snip)
> Garmin also has a remote amplified antenna, but I like the form factor of
> the Motorola a little better. The Motorola is like a hockey puck, the
> Garmin is about 6-8 inches tall and about an inch in diameter.

How much is the Motorola, and where is it available?

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

544. Re: [APRSSIG:6155] APRS74E + 16550 UART

From: ke4eer@ro.com (William Nolle)
Date: Sun, 21 Jan 1996 21:17:28
To: aprssig@tapr.org
Message-ID: <199601220326.VAA18997@sh1.ro.com>
Rendered body type: text/plain

```
Well Gene the problem you speak of below must not be an APRS7.4e
problem since i have been runing it without any problem on my P5-90 ever
since it came out. I also have the fast as you call them uart chips. Just
to let everyone know. I think it's in the TNC!.

Bill KE4EER
-----------------
>
>       Thanks to all who responded to my problem trying to get my pk232
>to communicate with aprs74e.  I found out there appears to be a problem
>with aprs74e and my p5-90 with the fast uart chip.  I was only able to
>get it to work by installing another serial card without the fast uart chip.
>Has anyone else had this problem and does any know if this will be fixed
>in the nex version.
>
>Thanks   gene@buffnet.net
>
```

---

545. Re: [APRSSIG:6159] Boston Maps

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 21 Jan 1996 22:38:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960121223704.964E-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 21 Jan 1996, Tom McGee wrote:

>
> Where can I get more detailed APRS maps for Boston than the ones that come in
> the archive?
>
> 73, ka1tox
```

```
W1KRU's maps are available at the tapr ftp site (ftp tapr.org). The
latest version has just been uploaded as mamaps03.zip (I think that's the
correct name)

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

546. RE: [APRSSIG:6161] RE: GPS recievers...Which one?

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Sun, 21 Jan 1996 22:04:37 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960121220437.2041202b@exame2.dseg.ti.com>
Rendered body type: text/plain

```
Hi, Richard: Well, I got the Motorola antenna as a somewhat special case.
Ralph Fowler, N4NEQ, rwf@mindspring.com, a frequent contributor to the
APRSSIG, happened to mention last summer that he had negotiated a group
purchase plan for a number of the antennas (maybe some other things too,
don't know) and had an extra one. I asked if I could buy it from him - the
answer was yes, and that's how I got it. Cost ~ $100. I really don't know if
he has any others or not, or even if Motorola is still making them. Even if
Ralph does not have any more now, though, he ought to be able to point you
to the Motorola contact point. 'Fraid that's the best I can do for you now.
Let me know how it works out. I hope you can find one of those antennas -
they work like gangbusters!

     73, Claude
         K5DTN
```

547. Re: [APRSSIG:6150] Re: APRS/AEA HELP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Jan 1996 23:15:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960121231135.24942D-100000@greatlakes>
Rendered body type: text/plain

```
> >On Sat, 20 Jan 1996 WB4LTF@aol.com wrote and OTHERS are agreeing:
>
> ... sometimes (more often than not) the program comes up with my path set
> >> to RELAY, even though ,using the tab key tells me it is set to something

WB4APR REPLY COMMENT:

In the version BETA2000.zip which attempted to fix the U-2000 interface, I
also took a crack at fixing the INIT process to PREVENT some of the TNC
commands from being sent over the air.  That fix may also fix this AEA
problem.   WOuld those of you having this problem download the BETA2000.zip
and see if it helps?  The EXE will identify itself as 74f, but other than
this test, do *not* encourage people to get 74f since it is just a test.
```

548. Re: [APRSSIG:6152] Help!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Jan 1996 23:23:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960121231806.24942E-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 21 Jan 1996, jay timothy hainline wrote:

> I am having a problem in not seeing a local digipeater appear on my screen.
> I am using a pk-232mbx and APRS ver. 7.4e.
> The digipeater beacons every half hour. However when it does, it shows
> No>: WB9TEA-10*>WIDE>APRS:!4027.92N/09041.17W_ Macomb Radar

WB4APR REPLY COMMENT:

Good detective work, and Darn those AEA TNC's! hi hi
I bet the WB9TEA-10*> is being rejected by APRS because that Darn *
before the > makes it look like a 10 character Callsign which is
impossible.  SO APRS says that the > symbol is too far into the packet.

1) You WILL see it, however, after it is digipeated

2) Shortening the call to -9 or less will also fix it.

3) Ill try to reemember to fix it in the next version of APRS, (if I have
room)...
```

Pse confirm that this is the problem. Have a CLOSE friend temprarily set
his ALIAS to WIDE so that you hear the packet DIGIPEated. If you then
seee it, then that is the problem, and let me know....

---

549. Re: [APRSSIG:6158] Re: APRS74E + 16550 UART

From: rwf <rwf@mindspring.com>
Date: Mon, 22 Jan 1996 00:10:21 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960122001738.0b9f88f4@mindspring.com>
Rendered body type: text/plain

I have heard that all the 16550s in the world will do you no good unless the programmer enables the fifo buffer. I have no idea what the steps are to do this- but this may need to be looked at in the APRS code.

                 Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

>

---

550. Re: [APRSSIG:6162] Re: APRS74E + 16550 UART

From: Cap Pennell <cap@cruzio.com>
Date: Mon, 22 Jan 1996 00:07:32 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9601212208.aa03209@inside.cruzio.com>
Rendered body type: text/plain

I'm with you, Bill. No problem here with my p5-90,16550 UART,APRS 7.4e,KPC-3.
73. Cap

At 09:19 PM 1/21/96 -0600, you wrote:

> Well Gene the problem you speak of below must not be an APRS7.4e
> problem since i have been runing it without any problem on my P5-90 ever
> since it came out. I also have the fast as you call them uart chips. Just
> to let everyone know. I think it's in the TNC!.
>
> Bill KE4EER
> -----------------
>>
>>   Thanks to all who responded to my problem trying to get my pk232
>> to communicate with aprs74e. I found out there appears to be a problem
>> with aprs74e and my p5-90 with the fast uart chip. I was only able to
>> get it to work by installing another serial card without the fast uart chip.
>> Has anyone else had this problem and does any know if this will be fixed
>> in the nex version.
>>
>> Thanks   gene@buffnet.net
>>
>
>
> .-
>
>

--
Cap Pennell   packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
Santa Cruz, CA, 95062-1002   email: cap@cruzio.com   3658.92N/12200.88W

---

551. re: [APRSSIG:6135] Re: APRS/AEA HELP

From: "John Vaughn" <jvaughn@TTIADMIN.tamu.edu>
Date: Mon, 22 Jan 96 8:07:04 CST
To: <aprssig@tapr.org>
Message-ID: <vines.ITY7+bht+lb@TTIADMIN.tamu.edu>
Rendered body type: text/plain

Bob, I have a PK-232MBX and it has consistently done the same thing.
In addition, if I Alt-S, T, it returns it from RELAY to WIDE,WIDE.

I've also found it to XMIT my AEAINIT.TNC (or wherever the commands come from upon start-up) file when first starting the program...via RELAY, of course. Alt-S, T will return it to proper operation.

```
        TNX & 73 - John, Houston - KC5FEV

 p.s.  you know, I'd REALLY like to be able to save F-7,m too.
```

---

552. "Bandswitch" and A log

From: pmarkham@sun.lssu.edu (Peter C. Markham)
Date: Mon, 22 Jan 1996 09:58:04 -0500
To: aprssig@tapr.org
Message-ID: <199601221456.JAA11221@sun.lssu.edu>
Rendered body type: text/plain

```
I have had need of the C, B and V or H functions to channel data to either
the vhf port or the hf port of my KAM. I am using 74e. My KAM 4.0 switches from
the hf to the vhf port ok. It will not switch from the vhf to hf port. Is the
SYSTEM initialzation file used in the bandswitching operation? Just the stream
switch? Maybe a basic configuration command error? My KAM 7.0 had the same
problem.

   I also perceive a malfunctioning? A list/log. It just saves my rxd and
txd message lines. I have tried most/all? variations of filter commands
in hope of saving ALL rxd packets, without success. An A list/log like it works
in APRTRAK would be handy for terrestrial use, as well as space operations. I
seem to remember that back in the dawn of time, when APRS was in relative
infancy, the A list/log did save ALL packets heard.

   Any help, (no WAGs), would be appreciated.


                                        TIA,
                                             Pete
```

---

553. Re: [APRSSIG:6160] Re: APRS/AEA HELP

From: dwetzel@uswest.com
Date: Mon, 22 Jan 1996 08:15:27 -0600
To: aprssig@tapr.org
Message-ID: <1039fb90@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Bob B. -

I have a pk232, and also have the "reset Unproto to RELAY" problem with 7.4e.

Doug
KC7CO
```

---

554. Re: A Strong Argument for the Eagle AccuNav Sport

From: Doug Woodruff <102256.1216@compuserve.com>
Date: 22 Jan 96 10:30:53 EST
To: Peter <n8yel@k8daa.ampr.org>
Cc: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <960122153052_102256.1216_BHB96-2@CompuServe.COM>
Rendered body type: text/plain

```
Peter,

I use an Eagle AccuNav Sport and love it.  Though many use and love the Garmin
45's I chose the Eagle for three reasons.....

1)      The Eagle employs true multi-channel reception (five actual channels for
reception), tracking five satellites simultaneously.  The Garmin has only one
channel and so must sample each satellite in turn (Don't be fooled by the
"multitrak" language in their literature).  The practical implications for
mobile operation are:
        a)      more stable tracking when going under trees and other "minor"
obstructions.
        b)      quicker reaquisition of "lock" after having been totally blocked
from the satellites and losing lock.

2)      The Eagle does not need the expensive amplified antennas in order to work
well in a vehicle.  LEI Inc. (Loran/Eagle) makes an
extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allows
you to mount your antenna in the windshield.  This works extremely well.  The
only trouble I have ever had with that was encountered when going up steep
mountain roads which hug the mountain and go around it........thus hiding 1/2 of
the sky at a time and then showing you the other half.......effectually
completely changing your visible satellites!  In those situations the Eagle
reaquires lock within 5 seconds at the most.
```

3) The Eagle employs a much more rebust design in their antenna attachment than the Garmin. Garmin's design is more convenient (ony a bnc conn. holds it on) but the Eagle, with its double-screw attachment, won't create intermittant signals (a common complaint with the Garmin 45).

Both the Garmin and the Eagle are compatible with APRS. What you need to look for on that level is "NMEA 0183" compatibility. Any unit using that data standard is compatible.

Price is comparable but the Eagle is more expensive for the unit itself ($384.00 at BassPro Shops when I purchased mine). NOTE, however, that by the time you buy an expensive amplified antenna($100.00 if you're lucky) that you will end up with more money in the Garmin than you would have spent on the Eagle with its extension kit!

Good Luck!
Hope to "see" you soon!

Doug, KM4HY
Athens, GA

---

555. 1:2,000,000 CD Rom

From: Dave Kaplan <dkaplan@pionet.net>
Date: Mon, 22 Jan 1996 10:24:57 -0600
To: APRSSIG@tapr.org
Message-ID: <9601221624.AA18819@ELWOOD.pionet.net>
Rendered body type: text/plain

I finally got around to ordering my 1:2,000,000 CD ROM from the USGS. I specified that I wanted the "Optional" format at was given part number 01-DLG-02M-0 at a cost of $32.00 plus $3.50 for S&H. The agent did tell me that they ar running 4,000 orders behind because of the shutdown and will fall further behind if the goverment shuts down again this week. Estimated shipping time is 2 weeks.

Dave

---

556. WinAPRS Release (Wheaton Hamfest)

From: davidc@tbcnet.com (David Chesser)
Date: Mon, 22 Jan 1996 12:11:01 -0600
To: aprssig@tapr.org
Message-ID: <199601221811.MAA25697@tbc2.tbcnet.com>
Rendered body type: text/plain

Mark Sproul (KB2ICI) and Keith Sproul (WU2Z) the authors of MacAPRS and noted speakers will be guests of (NIAN) Northern Illinois APRS Network's second annual midwinter APRS conference held at the Wheaton Hamfest Sunday, January 28th 11AM at the Odium Exposition Center in Villa Pk,IL. Mark and Keith will be conducting a seminar covering both Mac and PC platforms. This will be the first public demonstration and beta release of WinAPRS, the new Windows version of MacAPRS. Don't miss this opportunity as you discover what WinAPRS has to offer the amateur radio community.

73's KA9NHL

---

557. WinAPRS Announcement

From: davidc@tbcnet.com (David Chesser)
Date: Mon, 22 Jan 1996 12:11:29 -0600
To: aprssig@tapr.org
Message-ID: <199601221811.MAA25701@tbc2.tbcnet.com>
Rendered body type: text/plain

Come see the NIAN web page for the WinAPRS Announcement at
http://tbcnet.com/~davidc/aprs.html

73's KA9NHL

---

558. RS-10 Experiments

From: dwetzel@uswest.com
Date: Mon, 22 Jan 1996 12:31:18 -0600
To: aprssig@tapr.org
Message-ID: <103dbb90@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Due to an intense interest on the part of my xyl to have me do things other than
watch orbit passes, my RS-10 experience was less than optimal.

I did hear packets on every pass from somebody, and my own in most cases.
Signal levels were very low, and it was difficult to tune (between the doppler
shift and qrm from my wife!).

I do have a couple of observations:

1. Signals are not usable at elevations below 10 degrees at my qth (mountains
in the way).

2. The grid-square format probably won't work well for RS-10. It appears that
the packets are just too short in that format for reliable tuning.

3. The APRS AMTOR mode might be more suited for these experiments.

4. I need to send my xyl on an extended trip.

5. Uplinking with an omni antenna is going to require more than 10 watts.

6. RS-11 might be a better vehicle to try this, as we can uplink on 15 meters,
with much less doppler to worry about.

After a couple of weeks of regroup time and independent experimentation, I would
like to try this again if anyone is willing to do so.

Thanks to those who did get packets through the bird.

73,

Doug
KC7CO
dwetzel@uswest.com

---

559. Re: [APRSSIG:6172] Re: A Strong Argument for the Eagle AccuNav Sport

From: ke4eer@ro.com (William Nolle)
Date: Mon, 22 Jan 1996 14:17:52
To: aprssig@tapr.org
Message-ID: <199601222026.OAA05374@sh1.ro.com>
Rendered body type: text/plain

There is NO GPS receiver made that will work as well inside a vehicle as it
does with an external antenna, and to state that it does not need one is totally wrong!.
If you just purchased this GPS receiver then how do you know. It doesn't
make sence since it cannot see all the satellites from inside a vehicle. I have
a Magellan NAV5000DX and believe me it works much better with an external
antenna, altough it will work inside the vehicle also. I see one of local users
all the time that has his mounted inside the vehicle and leaves it running all
day long. When zooming in on his position at his work QTH you will see a
huge circle of position reports because of that same reason that he doesn't
have an external antenna.

Bill KE4EER

>2)   The Eagle does not need the expensive amplified antennas in order to work
>well in a vehicle. LEI Inc. (Loran/Eagle) makes an
>extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allows
>you to mount your antenna in the windshield. This works extremely well. The
>only trouble I have ever had with that was encountered when going up steep
>mountain roads which hug the mountain and go around it........thus hiding 1/2 of
>the sky at a time and then showing you the other half.......effectually
>completely changing your visible satellites! In those situations the Eagle
>reaquires lock within 5 seconds at the most.

>Doug, KM4HY
>Athens, GA
>

---

560. SPRE movie with sound

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Mon, 22 Jan 1996 14:49:48 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad29a6ff9410@[204.181.160.12]>
Rendered body type: text/plain

I have created a QuickTime movie of a SPRE pass using APRtrak. The file was
re-created using the history file and consists of screen images stitched
together into a real-time re-creation. I have added a sound track in this

version. There is a voice-over at the beginning and end, packet "burps", and a couple zoom frames at the end.

In order to make the file size more reasonable, the sound was down-sampled to 11k samples/sec and 8 bit data. The .ZIP file is about 1Mb and it expands to about 5.5 Mb.

The movie lasts about eight minutes. It is viewable on either Windows or Macintosh with the appropriate free viewer.

Note to Mac users: since the Mac specific attributes were removed from the file to provide cross-platform capability, the movie file is not double-clickable. Launch MoviePlayer and use the File/Open menu to open it.

Do you need a QuickTime Player ? Try: http://quicktime.apple.com/

Viewers are available for both Windows and Macintosh.

The presentation is a recreation of the Spartan Packet Radio Experiment(SPRE) pass over Austin, Texas on January 15, 1996 between 12:30 am and 12:40 am CST. These screen images are derived from the APRtrak History file. This was the only pass of SPRE over Austin after being deployed by the Shuttle Endeavour (STS-72) and before the package failed over Australia later in the same orbit. The presentation begins before the first signal is heard from SPRE. Only the ground station W5RKN in Austin is displayed on the map. As signals are heard from other ground stations, their location and call sign are displayed on the map. Their location is derived from the Grid Square contained in the digipeated packet. The contents of this packet is shown on the bottom of the screen. The location of the SPRE package (call sign W3EAX) was recreated from tracking data as the GPS data from the satellite was incorrect.

The file SPRE-S.MOV has been uploaded to

ftp://ftp.tapr.org/tapr/SIG/aprssig/upload/SPRE-S.ZIP

Ron W5RKN

also:
rparsons@bga.com

---

561. Re: [APRSSIG:6169] Re: APRS/AEA HELP

From: zabel@aps.anl.gov (Randall Zabel)
Date: Mon, 22 Jan 1996 15:15:27 -0600
To: aprssig@tapr.org
Message-ID: <9601222115.AA00943@oxygen>
Rendered body type: text/plain

[Empty message body]

---

562. Re: [APRSSIG:6170] "Bandswitch" and A log

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jan 1996 16:25:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960122162226.8955C-100000@greatlakes>
Rendered body type: text/plain

On Mon, 22 Jan 1996, Peter C. Markham wrote:

> I also perceive a malfunctioning? A list/log. It just saves my rxd and
> txd message lines. I have tried most/all? variations of filter commands
> in hope of saving ALL rxd packets, without success.

WB4APR REPLY COMMENT:

The A list *only* saves BEACONS that are *different* than the previous beacon from the same station. In otherwords, only "new" beacons. Could this be what you are experiencing? Or are you not even capturing "new" beacons...?

---

563. Re: [APRSSIG:6176] RS-10 Experiments

From: dwetzel@uswest.com
Date: Mon, 22 Jan 1996 14:26:19 -0600
To: aprssig@tapr.org

Message-ID: <103f6c90@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
>6.  RS-11 might be a better vehicle to try this, as we can uplink on 15 meters,
>    with much less doppler to worry about.

I really did mean to say RS-12 here......


73,

Doug
KC7CO
dwetzel@uswest.com
```

---

564. help aeapk232

From: LMGQ30A@prodigy.com (MR HOWARD S LAWRENCE)
Date: Mon, 22 Jan 1996 17:58:46 EST
To: aprssig@tapr.org
Message-ID: <013.09273738.LMGQ30A@prodigy.com>
Rendered body type: text/plain

```
hello all iam new to aprs,just only what i hear about it and from
manufactures
iam interested in knowing some more about it.iam into packet on vhf
for about 1.5 yrs.
i own a pk232 ,can it use in aprs monitoring.if iam going to get a
receiver used what should i look
for.in general i would like to enjoy some of this technolgy and what
are the boundries
iam  not looking to spend too much money.where should i start in this
hobby.
       thanks for ur time
   n2ygz.....howard
```

---

565. Re: [APRSSIG:6177] Re: A Strong Argument for the Eagle AccuNav Sport

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 22 Jan 1996 18:32:08 EST
To: <aprssig@tapr.org>
Message-ID: <22JAN96.20018665.0138.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
>There is NO GPS receiver made that will work as well inside a vehicle as it
>does with an external antenna, and to state that it does not need one is totall
> wrong!.

bill i have had personal experence with dougs set up and it works great!
his ant is located in the rear window of his car. granted the
window has quite a bit of slope to it i think that the point was
the 5 channel system will in some ways compnesat for the problems
of using a gps inside a car.

>If you just purchased this GPS receiver then how do you know. It doesn't

doug has been using this set up for a few months and it does apper to
work well


>make sence since it cannot see all the satellites from inside a vehicle. I have
>a Magellan NAV5000DX and believe me it works much better with an external
>antenna, altough it will work inside the vehicle also. I see one of local users
>all the time that has his mounted inside the vehicle and leaves it running all
>day long. When zooming in on his position at his work QTH you will see a
>huge circle of position reports because of that same reason that he doesn't
>have an external antenna.
>
>Bill KE4EER
i can say that when doug leaves his tracker on at his house his
"circle" ofpositions is just as big as mine.
i am using a motorla encore w/ external ant
i have used both the Eagle and a garmin and they are both good units
i am still biased that my mot works beter than eather of them for
aprs but bill his set up does work well not to say that an external moun
would not improve his reception but if it has a good "lock" inside
the car "if it's not broke dont fix it"

one side not about the Eagle for all to know it does do some thing
funny when it loses lock it presents its lat long as XXX.XXX XXX.XXX
aprs places this in the p list. as an aside when doug does lose lock
```

```
we know it and it dose not give false post data.
>-----------------

>>2)    The Eagle does not need the expensive amplified antennas in order to work
>>well in a vehicle.  LEI Inc. (Loran/Eagle) makes an
>>extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allow
>>you to mount your antenna in the windshield.  This works extremely well.  The
>>only trouble I have ever had with that was encountered when going up steep
>>mountain roads which hug the mountain and go around it........thus hiding 1/2
>f
>>the sky at a time and then showing you the other half.......effectually
>>completely changing your visible satellites!  In those situations the Eagle
>>reaquires lock within 5 seconds at the most.
>
>>Doug, KM4HY
>>Athens, GA
>>
>
>
Just call me the fire hose put-n out the flames
Lynn -N4YCI
ps pls excues the spelling and gramer errors my server at uga
does not allow pre word procesing of the document and i am
computer dependent and time short hi hi
ps ps i dont know any thing about the magnovox gps ie type of rx
so dont hold it against me bill
ps ps ps thanks for the alex city maps bill they look great!!!
```

---

566. Re: [APRSSIG:6183] Re: A Strong Argument for the Eagle AccuNav Sport

From: Jack Anderson <n4uls@ix.netcom.com>
Date: Mon, 22 Jan 1996 18:09:45 -0800
To: aprssig@tapr.org
Message-ID: <199601230209.SAA16792@ix5.ix.netcom.com>
Rendered body type: text/plain

```
At 05:35 PM 1/22/96 -0600, you wrote:
>>There is NO GPS receiver made that will work as well inside a vehicle as it
>>does with an external antenna, and to state that it does not need one is
totall
>> wrong!.
>
>bill i have had personal experence with dougs set up and it works great!
>his ant is located in the rear window of his car. granted the
>window has quite a bit of slope to it i think that the point was
>the 5 channel system will in some ways compnesat for the problems
>of using a gps inside a car.

I have also had good results, using a Garmin 45 sitting on the dash with the
stock antenna attached to the unit.  The external Garmin mag-mount does work
better but I've found the dash location to work quite well.  I may see up to
200' more estimated error with the weaker signal though but for mobile
operation it's still adequate.  I've never seen it lose it's lock.

Jack
```

---

567. Re: [APRSSIG:6180] Re: "Bandswitch" and A log

From: pmarkham@sun.lssu.edu (Peter C. Markham)
Date: Mon, 22 Jan 1996 21:35:37 -0500
To: aprssig@tapr.org
Message-ID: <199601230234.VAA13684@sun.lssu.edu>
Rendered body type: text/plain

```
>On Mon, 22 Jan 1996, Peter C. Markham wrote:
>
>>    I also perceive a malfunctioning? A list/log. It just saves my rxd and
>> txd message lines. I have tried most/all? variations of filter commands
>> in hope of saving ALL rxd packets, without success.
>
>WB4APR REPLY COMMENT:
>
>The A list *only* saves BEACONS that are *different* than the previous
>beacon from the same station.  In otherwords, only "new" beacons.  Could
>this be what you are experiencing?  Or are you not even capturing "new"
>beacons...?

  APRS has been up for 8 hours on hf today. I have 3 1/2 pages of P, L,and D
entries but 0, Zero, ZIP, Nada, etc. entries in my A list. The filters gfl,
junk,
and other show in lower case letters, and PFL in upper case, in my status lines.
```

  The file help.txt, date 12/05/95, indicates in the description of the
DISPLAY screens,
that the A - ALL screen shows all packets received. If that is not so, maybe
a minor
text change would help keep out of trouble, those that RTFM.   :-)

I hope this info helps.

Pete, wa4hei

---

568. Re: [APRSSIG:6166] Re: Help!

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Mon, 22 Jan 1996 21:05:20 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601230305.VAA12880@uxa.ecn.bgu.edu>
Rendered body type: text/plain

```
>> I am having a problem in not seeing a local digipeater appear on my screen.
>> I am using a pk-232mbx and APRS ver. 7.4e.
>> The digipeater beacons every half hour. However when it does, it shows
>> No>: WB9TEA-10*>WIDE>APRS:!4027.92N/09041.17W_ Macomb Radar
>
>WB4APR REPLY COMMENT:
>
>Good detective work, and Darn those AEA TNC's! hi hi
>I bet the WB9TEA-10*> is being rejected by APRS because that Darn *
>before the > makes it look like a 10 character Callsign which is
>impossible.  SO APRS says that the > symbol is too far into the packet.
>
>1) You WILL see it, however, after it is digipeated
>
>2) Shortening the call to -9 or less will also fix it.
>
>3) Ill try to reemember to fix it in the next version of APRS, (if I have
>room)...
>
>Pse confirm that this is the problem.  Have a CLOSE friend temprarily set
>his ALIAS to WIDE so that you hear the packet DIGIPEated.  If you then
>seee it, then that is the problem, and let me know....
>
Yes Bob, that appears to be the problem. Had a friend set his myalias to
WIDE and lo and behold, WB9TEA-10 popped up on the screen! We will be
changing the call from -10 to WB9TEA-2 and hopefully we wont be running
into this problem from now on. Thanks for your help!
73, Jay...

Jay Hainline  KA9CFD  EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu
```

---

569. Re: [APRSSIG:6129] APRS/AEA HELP

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Mon, 22 Jan 1996 21:09:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601230309.VAA13756@uxa.ecn.bgu.edu>
Rendered body type: text/plain

Reference to problem with aprs using the default of RELAY instead of the
saved digpeater path. I did download the beta2000.zip file and tried
the program. It did seem to solve the problem and load the saved path
from my cfig file.
Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

---

570. Re: [APRSSIG:6129] APRS/AEA HELP

From: msjth@uxa.ecn.bgu.edu (jay timothy hainline)
Date: Mon, 22 Jan 1996 21:27:22 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601230327.VAA17059@uxa.ecn.bgu.edu>
Rendered body type: text/plain

Reference to problem with aprs using the default of RELAY instead of the
saved digpeater path. I did download the beta2000.zip file and tried
the program. It did seem to solve the problem and load the saved path
from my cfig file.
73, Jay.

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

---

571. GPS Extenal Antenna's

From: baded@nacs.net (Doug Bade)
Date: Mon, 22 Jan 1996 22:45:33 -0500
To: aprssig@tapr.org
Message-ID: <199601230348.WAA07796@nacs.net>
Rendered body type: text/plain

Hello from Cleveland, the home of the Baltimore Browns !!!!!   Please, no
hate mail.... :)   I have been able to locate a very reasonable source of
External GPS antennae, in several amplified and unamplified versions.
        The vendor is MA-Com a (divison /parent co. ?) of Advanced
Receiver Research. or ARR (as in preamps) for short. Delivery was slightly
long lead but the products are execellent. I do not know if they are
consumer direct but I will check. If not I may be able to arrange distribution
as my Co. is able to purchase. Several models incl. preamped for
$100-$150.00 US. Puck style, as well as several coax /mount /shape
arrangements.
    All were surface mount that I received literature on. I have one
currently siliconed to the fiberglass roof of my Bronco and it works better
than the
Garmin provided helix ant. on my Garmin 45 and 65. 4 in. in dia. and under 1
in. thick. with tnc mounted out of bottom. Several also operated in
military as well as commercial band.. I will post addt'l info in the future,
after I look up data at office on tues.
                                                                73.   Doug
Bade

KB8GVQ

---

572. Re: [APRSSIG:6172] Re: A Strong Argument for the Eagle AccuNav Sport

From: leeb@hargray.com (Lee Bradley)
Date: Mon, 22 Jan 1996 23:03:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199601230403.XAA26178@fern.hargray.com>
Rendered body type: text/plain

>
>   The Eagle does not need the expensive amplified antennas in order to work
>well in a vehicle. LEI Inc. (Loran/Eagle) makes an
>extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allows
>you to mount your antenna in the windshield.
>
>3)   The Eagle employs a much more rebust design in their antenna attachment
>than the Garmin. Garmin's design is more convenient (ony a bnc conn. holds it
>on) but the Eagle, with its double-screw attachment, won't create intermittant
>signals (a common complaint with the Garmin 45).

>
>Doug, KM4HY
>Athens, GA
>
>
I use a Garmin on the boat and the car. I mount the antenna on the roof of
the car and pilot
house of the boat, with a suction cup mount found at Radio Shack. It is has
a 6 foot cable with
the appropriate BNC connectors on each end. It makes a great window mount
for ht rubberducks
and works well for the gps.

I recently got an antenna from LRF Designs that is riding around on the dash
next to the
windshield. It seems to work as well as the roof mount, however, it can't
see 360 deg., more like
180 deg.. Will be trying it on the boat in a few weeks when it is ready to
back into the water.
This is a commercial version of the one on page 44 in the October issue of QST.

Lee, W1WXS
Beaufort, SC
Lee Bradley   W1WXS @ KD4FJ.SC.USA.NOAM
Email   leeb@hargray.com

573. Re: [APRSSIG)Re: A Strong Argument for the Eagle AccuNav

From: ke4eer@ro.com (William Nolle)
Date: Mon, 22 Jan 1996 21:56:49
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199601230405.WAA09419@sh1.ro.com>
Rendered body type: text/plain

```
As you can see below i did not state that it wouldn't work!!!. I said AS WELL.
Try driving trough downtown Atlanta with the internall antenna to plot points
for a map. Then go back and do it with a good external antenna and see what
you get. All i'm saying is that to flatly make a remark that the Eagle Accunav
does not require an external antenna is not right since this information may be
used by a new user to aprs in buying a GPS receiver, then finding out it's not
as good as with an external antenna. Sure they work that way i knpw there
are many people that use them that way. Just like many people use 1W HT's
to try to hit a repeater from within their car and sound scratchy and wonder
why they don't sound so great. So read the message again IT WON'T WORK
AS WELL...Hi Hi....

Bill KE4EER
-----------------

>>>There is NO GPS receiver made that will work as well inside a vehicle as it
>>>does with an external antenna, and to state that it does not need one is
>totall
>>> wrong!.
>>
>>bill i have had personal experence with dougs set up and it works great!
>>his ant is located in the rear window of his car. granted the
>>window has quite a bit of slope to it i think that the point was
>>the 5 channel system will in some ways compnesat for the problems
>>of using a gps inside a car.
>
>I have also had good results, using a Garmin 45 sitting on the dash with the
>stock antenna attached to the unit.  The external Garmin mag-mount does work
>better but I've found the dash location to work quite well.  I may see up to
>200' more estimated error with the weaker signal though but for mobile
>operation it's still adequate.  I've never seen it lose it's lock.
>
>Jack
>
```

---

574. GPS Units

From: Doug Woodruff <102256.1216@compuserve.com>
Date: 23 Jan 96 02:34:16 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <960123073415_102256.1216_BHB68-1@CompuServe.COM>
Rendered body type: text/plain

```
I have just a quick question for Bill.......have you ever watched your own track
as your vehicle was stationary?  If I'm not badly mistaken (which is entirely
possible!!) the "circles" you cite as an argument for outside antennas has
nothing to do with the unit's accuracy and everything to do with the
intentionally induced errors in the signals coming from the satellites.  Unless
I miss my guess, your vehicle will also track circles as it sits there.  (If it
doesn't, save a track history and send it to me as it would be the first
stand-alone consumer-grade unit I will have ever seen which doesn't do that
without at least some differential correction!)  In other words, the "great
circle" is not a valid argument against an inside antenna, Bill.

That said...Bill is of course correct that an outside antenna is better than one
could ever be that is partially shielded from the sky as is one in any window in
a vehicle.

That said as well.....my argument for the Eagle stands.  For the money, and
given the success I have personally had with the unit (after using Garmins and
Motorolas), I still unequivocally recommend the Eagle Accunav Sport as a great
general purpose unit.  Given the advantages in its receiver it gets my vote.

Bill, I hope you don't think I am trying to flame you.  I'm not.  (No "all caps"
anywhere)  I am just trying to respond intelligently to the points you raised in
your response to my original posting.

Ya'll take care and have fun with whatever GPS unit you have!

Doug, KM4HY
Athens, GA
```

575. Re: [APRSSIG:6167] Re: APRS74E + 16550 UART

From: kc4nhb@iu.net
Date: Tue, 23 Jan 1996 03:40:09 -0500
To: aprssig@tapr.org
Cc: rwf@mindspring.com
Message-ID: <199601230840.DAA03025@bb.iu.net>
Rendered body type: text/plain

```
On Sun, 21 Jan 1996, rwf <rwf@mindspring.com> wrote:

>I have heard that all the 16550s in the world will do you no good unless the
>programmer enables the fifo buffer.  I have no idea what the steps are to do
>this- but  this may need to be looked at in the APRS code.

To enable the FIFO buffer under Windows 3.1 edit the Windows\SYSTEM.INI
file and add the following line:

[386Enh]
COMnFIFO=1

where n is the number of the COM port.

if your 16550 is installed on COM 1 then

[386Enh]
COM1FIFO=1

Using Windows 95?

Click MY COMPUTER
click CONTROL PANEL
click SYSTEM
click DEVICE MANAGER
click on the desired COM port
click PORT SETTING
click ADVANCED
click the box marked USE FIFO BUFFER
click OK

73 de Roger Snyder, KC4NHB
Internet: kc4nhb@iu.net
AX.25 packet: KC4NHB @ N4XEO.#FTP.FL.USA.NOAM
Satellite: KC4NHB @ KO-23 or KO-25
```

---

576. Re: [APRSSIG:6172] Re: A Strong Argument for the Eagle AccuNav Sport

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Tue, 23 Jan 1996 03:31:05 -0500
To: aprssig@tapr.org
Message-ID: <199601230829.DAA14300@sun.lssu.edu>
Rendered body type: text/plain

```
>2)     The Eagle does not need the expensive amplified antennas in order to work
>well in a vehicle.  LEI Inc. (Loran/Eagle) makes an
>extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allows
>you to mount your antenna in the windshield.  This works extremely well.  The
>only trouble I have ever had with that was encountered when going up steep
>mountain roads which hug the mountain and go around it........thus hiding
1/2 of
>the sky at a time and then showing you the other half.......effectually
>completely changing your visible satellites!  In those situations the Eagle
>reaquires lock within 5 seconds at the most.

  Thanks for your comments concerning your experience with the Eagle Accunav. I
have yet to purchase a gps and your information has prompted me to include
that unit along with the Garmin 45 as a likely candidate for my unit. What
hardware
or software problems have you experienced integrating that unit with a
tnc/laptop?

  I failed to find your claim that your unit worked better inside your
vehicle than
it did with an external antenna. I apologize for my poor comprehension skills.
I am sure that others, elsewhere in the country, know what works well for
you and
will be sure to consider the big city environment you failed to mention. I
notice
you  also failed to let others know if it worked well in a submarine. Please
include
a more comprehensive analysis of your unit's performance, next time.  :-)
```

Pete, wa4hei

---

577. Re: [APRSSIG:6190] Re: A Strong Argument for the Eagle AccuNav Sport - as an aside (Garmin)

From: heavy@texas.net (Jim Weiler)
Date: Tue, 23 Jan 1996 02:49:37 -0600
To: aprssig@tapr.org
Message-ID: <v02130505ad2a4ab3d001@[204.214.207.88]>
Rendered body type: text/plain

```
The Garmin antenna that you describe I believe is the one made for the
GPS40. That one, I've been told, is an "active" antenna, and as such, the
length of the cable can be extended a great deal, even more so than the
antenna for the GPS45 can be, because (I've been told) the GPS45's antenna
is not "active." I do know though that common, and cheap, TV cable (59U)
can be utilised to extend the GPS45's antenna with very little signal loss.

>I use a Garmin on the boat and the car. I mount the antenna on the roof of
>the car and pilot
>house of the boat, with a suction cup mount found at Radio Shack. It is has
>a 6 foot cable with
>the appropriate BNC connectors on each end. It makes a great window mount
>for ht rubberducks
>and works well for the gps.
>
>I recently got an antenna from LRF Designs that is riding around on the dash
>next to the
>windshield. It seems to work as well as the roof mount, however, it can't
>see 360 deg., more like
>180 deg.. Will be trying it on the boat in a few weeks when it is ready to
>back into the water.
>This is a commercial version of the one on page 44 in the October issue of QST.
>
>
>
>Lee, W1WXS
>Beaufort, SC
>Lee Bradley                                    W1WXS @ KD4FJ.SC.USA.NOAM
>Email                                          leeb@hargray.com
```

---

578. Re: [APRSSIG:6172] Re: A Strong Argument for the Eagle AccuNav Sport

From: rwf <rwf@mindspring.com>
Date: Tue, 23 Jan 1996 09:09:37 -0500
To: aprssig@tapr.org
Message-ID: <199601231409.JAA13321@borg.mindspring.com>
Rendered body type: text/plain

```
Doug- KM4HY:  I am not criticizing your work here (or flaming you)  just
presenting an opposing viewpoint   :)




At 09:58 AM 1/22/96 -0600, Doug from Athens  wrote:
>Peter,
>
>I use an Eagle AccuNav Sport and love it.  Though many use and love the Garmin
>45's I chose the Eagle for three reasons.....
>
>1)     The Eagle employs true multi-channel reception (five actual channels for
>reception), tracking five satellites simultaneously.  The Garmin has only one
>channel and so must sample each satellite in turn (Don't be fooled by the
>"multitrak" language in their literature).


I am for multi-channel parallel tracking GPSs too,( Like my Motorolas), but
I always heard the Garmin was 2 channel.  One channel is processing data
while the second is locking on to the next bird.





The practical implications for
>mobile operation are:
>       a)      more stable tracking when going under trees and other "minor"
```

>obstructions.
>   b)   quicker reaquisition of "lock" after having been totally blocked
>from the satellites and losing lock.
>

Yes. All parallel units do this.

>2)   The Eagle does not need the expensive amplified antennas in order to work
>well in a vehicle. LEI Inc. (Loran/Eagle) makes an
>extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allows
>you to mount your antenna in the windshield. This works extremely well. The
>only trouble I have ever had with that was encountered when going up steep
>mountain roads which hug the mountain and go around it........thus hiding
1/2 of
>the sky at a time and then showing you the other half.......effectually
>completely changing your visible satellites! In those situations the Eagle
>reaquires lock within 5 seconds at the most.

The reason for the external antenna is to give it unobstructed view. The amp
compensates for the cable loss... Something your extension cord will not
do. 1.6 GHz signals are *very* weak. Come do 1.2 GHz ATV with us sometime.

>
>3)   The Eagle employs a much more rebust design in their antenna attachment
>than the Garmin. Garmin's design is more convenient (ony a bnc conn. holds it
>on) but the Eagle, with its double-screw attachment, won't create intermittant
>signals (a common complaint with the Garmin 45).

Haven't seen the eagle attachment, I hope it has a bnc on it somewhere,
though. And this is strange- I have never heard a complaint about
intermittent connection on Garmin (or Magellan) antennas.

>
>Both the Garmin and the Eagle are compatible with APRS. What you need to look
>for on that level is "NMEA 0183" compatibility. Any unit using that data
>standard is compatible.

The Garmin *is* rather chatty on the serial I/O. 90% of the sentences are
useless to us. I like the Motorola, since we can program which sentences
come out.

>
>Price is comparable but the Eagle is more expensive for the unit itself
($384.00

You got that right!

>at BassPro Shops when I purchased mine). NOTE, however, that by the time you
>buy an expensive amplified antenna($100.00 if you're lucky) that you will
end up
>with more money in the Garmin than you would have spent on the Eagle with its
>extension kit!
>

And zero compensation for cable length.

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical Advisor

rwf@mindspring.com rwf@cokecce.com   Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for ATV, Balloon, and Ham info
FTP: ftp.mindspring.com/users/rwf   for ATV, GPS, APRS info

My hobby is tracking moving things with APRS, GPS and Packet. Ask me how.

---

579. Re: [APRSSIG:6191] Re: [APRSSIG)Re: A Strong Argument for the Eagle AccuNav

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jan 1996 09:45:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960123094127.15416D-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 22 Jan 1996, William Nolle wrote:

> As you can see below i did not state that it wouldn't work!!!. I said
> it wouldn't work AS WELL.

WB4APR REPLY COMMENT:

Reminds me of my high school track team.  When the 2nd runner of our 4
man relay race fell slightly behind, one of our members said not to
worry, because Joe, the anchor man would make up for "lost time".  TO
which the coach blew up and said "You can NEVER make up for lost time,
and dont you ever forget that!"  And I havent.... hi hi
```

---

580. GPS antennas

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jan 1996 09:55:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960123094623.15416E-100000@greatlakes>
Rendered body type: text/plain

```
Considering all of the recent traffic about mounting your GPS antenna
inside the vehicle:

I received a very nice commercial version of the passive GPS antenna
shown in the November QST.  This Antenna is manufactured by LRF designs
(one of the HAMS here on this SIG).  It is about a 5 inch square of
black aluminum with the approximate 3 inch square patch antenna mounted
1/4 inch above it.  It even has rubber feet on the bottom.

The construction appears professional and it seems to work well,
especially where a low profile antenna is needed.  It is very useful on
the dash board, since it can be placed well forward under the glass,
while permitting the GPS unit itself to be conveniently located closer
to the driver.  It is available from:

LRF designs
3575 Highway 68
Ottawa, KS 66067
```

---

581. Re: [APRSSIG:6196] Re: A Strong Argument for the Eagle AccuNav

From: ke4eer@ro.com (William Nolle)
Date: Tue, 23 Jan 1996 09:54:47
To: aprssig@tapr.org
Message-ID: <199601231604.KAA16541@sh1.ro.com>
Rendered body type: text/plain

```
That expensive antenna as you call it, that i don't need Hi Hi allows me to use
50 feet of coax (Like to see you do that with your Eagle Doug..

Bill KE4EER
-----------------

>>at BassPro Shops when I purchased mine).  NOTE, however, that by the time you
>>buy an expensive amplified antenna($100.00 if you're lucky) that you will
>end up
>>with more money in the Garmin than you would have spent on the Eagle with its
>>extension kit!
>>
>
>And zero compensation for cable length.
>
>
>
>
>Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor
>
>rwf@mindspring.com  rwf@cokecce.com                  Atlanta, GA USA
>Web:    http://www.mindspring.com/~rwf     for ATV, Balloon, and Ham info
>FTP:     ftp.mindspring.com/users/rwf            for ATV, GPS, APRS info
```

>
> My hobby is tracking moving things with APRS, GPS and Packet. Ask me how.
>
>
>
>

582. Re: [APRSSIG:6198] GPS antennas

From: Michael Walker <mwalker@gold.interlog.com>
Date: Tue, 23 Jan 1996 11:11:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9601231140.A2559-0100000@gold.interlog.com>
Rendered body type: text/plain

I also make the same patch antenna with 10ft of feedline and magnets for
roof mounting. We've improved the low level satellite view also.

I've had great success with it on the roof.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Tue, 23 Jan 1996, Bob Bruninga wrote:

> Considering all of the recent traffic about mounting your GPS antenna
> inside the vehicle:
>
> I received a very nice commercial version of the passive GPS antenna
> shown in the November QST. This Antenna is manufactured by LRF designs
> (one of the HAMS here on this SIG). It is about a 5 inch square of
> black aluminum with the approximate 3 inch square patch antenna mounted
> 1/4 inch above it. It even has rubber feet on the bottom.
>
> The construction appears professional and it seems to work well,
> especially where a low profile antenna is needed. It is very useful on
> the dash board, since it can be placed well forward under the glass,
> while permitting the GPS unit itself to be conveniently located closer
> to the driver. It is available from:
>
> LRF designs
> 3575 Highway 68
> Ottawa, KS 66067
>
>
>

583. Orlando Maps

From: jkandel@ix.netcom.com (Joel I. Kandel)
Date: Tue, 23 Jan 1996 09:01:25 -0800
To: aprssig@tapr.org.Is.there.anyone.out.there.who.can.supply.me.with.maps.of.the.Orlando
Message-ID: <199601231701.JAA06087@ix3.ix.netcom.com>
Rendered body type: text/plain

FL area for a demo I need to put on?

Thanks,

Joel, KI4T
jkandel@ix.netcom.com

584. Re: [APRSSIG:6189] GPS Extenal Antenna's

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 23 Jan 1996 11:02:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601231702.LAA19422@solar.cs.tamu.edu>
Rendered body type: text/plain

Doug Bade sez:
>
> hate mail.... :) I have been able to locate a very reasonable source of
> External GPS antennae, in several amplified and unamplified versions.
> The vendor is MA-Com a (division /parent co. ?) of Advanced
> Receiver Research. or ARR (as in preamps) for short. Delivery was slightly
> long lead but the products are execellent. I do not know if they are

```
> consumer direct but I will check. If not I may be able to arrange distribution
> as my Co. is able to purchase.  Several models incl. preamped for
> $100-$150.00 US.  Puck style, as well as several coax /mount /shape
> arrangements.

I've been using the passive M/A-Com antenna on my cows and they work real
well.  The preamp'd versions should also work well, based on conversations
I've had with M/A-Com.  Their specs are reasonable, and based ontheir
real-world reputation, I have no doubt they perform.  If the prices you can
get are acceptable, and they really should be <$100 for those antennas if I
remember correctly, they are great!

73, gerry
```

---

585. WINAPRS Maps

From: Dave Kaplan <dkaplan@pionet.net>
Date: Tue, 23 Jan 1996 11:15:01 -0600
To: aprssig@tapr.org
Message-ID: <9601231715.AA12165@ELWOOD.pionet.net>
Rendered body type: text/plain

```
Now that we are looking at moving to Winaprs, what do we need to know about
making maps?  Will the maps we made for Dos APRS work with Winaprs.  Can we
do better (ie more points) etc...

Dave
```

---

586. Re: [APRSSIG:6172] Re: A Strong Argument for the Eagle AccuNav Sport

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Tue, 23 Jan 1996 10:47:31 -0800
To: aprssig@tapr.org
Message-ID: <31052D43.419E@ecst.csuchico.edu>
Rendered body type: text/plain

```
Doug Woodruff wrote:
>
> Peter,
>
> I use an Eagle AccuNav Sport and love it.  Though many use and love the Garmin
> 45's I chose the Eagle for three reasons.....
>
> 1)      The Eagle employs true multi-channel reception (five actual channels for
> reception), tracking five satellites simultaneously.  The Garmin has only one
> channel and so must sample each satellite in turn (Don't be fooled by the
> "multitrak" language in their literature).  The practical implications for
> mobile operation are:
>         a)      more stable tracking when going under trees and other "minor"
> obstructions.
>         b)      quicker reaquisition of "lock" after having been totally blocked
> from the satellites and losing lock.
>
> 2)      The Eagle does not need the expensive amplified antennas in order to work
> well in a vehicle.  LEI Inc. (Loran/Eagle) makes an
> extension-cord/suction-cup-mounting-kit accessory for about $25.00 which allows
> you to mount your antenna in the windshield.  This works extremely well.  The
> only trouble I have ever had with that was encountered when going up steep
> mountain roads which hug the mountain and go around it........thus hiding 1/2 of
> the sky at a time and then showing you the other half.......effectually
> completely changing your visible satellites!  In those situations the Eagle
> reaquires lock within 5 seconds at the most.
>
> 3)      The Eagle employs a much more rebust design in their antenna attachment
> than the Garmin.  Garmin's design is more convenient (ony a bnc conn. holds it
> on) but the Eagle, with its double-screw attachment, won't create intermittant
> signals (a common complaint with the Garmin 45).
>
> Both the Garmin and the Eagle are compatible with APRS.  What you need to look
> for on that level is "NMEA 0183" compatibility.  Any unit using that data
> standard is compatible.
>
> Price is comparable but the Eagle is more expensive for the unit itself ($384.00
> at BassPro Shops when I purchased mine).  NOTE, however, that by the time you
> buy an expensive amplified antenna($100.00 if you're lucky) that you will end up
> with more money in the Garmin than you would have spent on the Eagle with its
> extension kit!
>
> Good Luck!
> Hope to "see" you soon!
>
```

> Doug, KM4HY
> Athens, GA

I must agree with everything Doug says, I was lucky enough to receive
an Eagle Accusport as a Christmas present this past season. All I can
say is it seems to be far superior to the Garmin's and Magellan's. I
love it and have had no problems at all. 73

Brad

---

587. Re: [APRSSIG:6191] Re: [APRSSIG)Re: A Strong Argument for the Eagle AccuNav

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Tue, 23 Jan 1996 10:55:38 -0800
To: aprssig@tapr.org
Message-ID: <31052F2A.5374@ecst.csuchico.edu>
Rendered body type: text/plain

William Nolle wrote:
>
> As you can see below i did not state that it wouldn't work!!!. I said AS WELL.
> Try driving trough downtown Atlanta with the internall antenna to plot points
> for a map. Then go back and do it with a good external antenna and see what
> you get. All i'm saying is that to flatly make a remark that the Eagle Accunav
> does not require an external antenna is not right since this information may be
> used by a new user to aprs in buying a GPS receiver, then finding out it's not
> as good as with an external antenna. Sure they work that way i knpw there
> are many people that use them that way. Just like many people use 1W HT's
> to try to hit a repeater from within their car and sound scratchy and wonder
> why they don't sound so great. So read the message again IT WON'T WORK
> AS WELL...Hi Hi....
>
> Bill KE4EER
> -----------------
>
> >>>There is NO GPS receiver made that will work as well inside a vehicle as it
> >>>does with an external antenna, and to state that it does not need one is
> >totall
> >>> wrong!.
> >>
> >>bill i have had personal experence with dougs set up and it works great!
> >>his ant is located in the rear window of his car. granted the
> >>window has quite a bit of slope to it i think that the point was
> >>the 5 channel system will in some ways compnesat for the problems
> >>of using a gps inside a car.
> >
> >I have also had good results, using a Garmin 45 sitting on the dash with the
> >stock antenna attached to the unit. The external Garmin mag-mount does work
> >better but I've found the dash location to work quite well. I may see up to
> >200' more estimated error with the weaker signal though but for mobile
> >operation it's still adequate. I've never seen it lose it's lock.
> >
> >Jack
> >

I do think everyone who is negatively answering Doug's post has miss
read what he said. He did not say it does not need an external
antenna but infact his statement was it does not need the expensive
amplified antenna. Big difference, we must read the post correctly
to make accurate statements. 73 and all enjoy whatever GPS unit
we have. I am sure we are all interested in hearing about different
units and how they perform.

Brad

---

588. GPS Units (Inside vs. outside ant.)

From: Doug Woodruff <102256.1216@compuserve.com>
Date: 23 Jan 96 13:52:57 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <960123185257_102256.1216_BHB106-1@CompuServe.COM>
Rendered body type: text/plain

Let me summarize my points for the record ....

"The following represent the personal opinions of the writer and are given
without any express or implied warranty....other than that the writer reserves
the right of defending those opinions." Hi Hi

Now.....

1.) If you drive anywhere with any unit and then drive the exact same path at the exact same speed and try to reproduce the same track (exactly) you will fail every time. The DOD is very proud of their ability to create errors for us (great circles...). When you can travel at up to 2.5 mph when merely sitting still (and this was on the top of a mountain with the unit lying on top of a vehicle ---- qualifying as unobstructed, I believe) then you can do the very same thing in a relative sense even when you are actually moving. Depending on which way the vectors would add up (your actual direction & speed creating one vector and the induced error's direction and and speed creating the other) you might be drifting laterally or merely having your displayed speed made less accurate or some combination of the two.

Thus, if you are within a couple of hundred yards of accurate when moving then that's great. If accuracy is that important in a mobile tracker then you would need to transmit MUCH more often than we can in most areas. Just think of how many thousands of yards you can travel in the five minute interval (or even a one minute interval)----thus making your last transmitted position on the map inaccurate.

2.) My personal opinion of Garmins is not good. Other people may have good luck with them but my personal experiences were not good. That is the reason I went to the Eagle. The specific problem I had was a loosening of the BNC connector on the unit itself. After finding a forum on the Internet which was for Garmin users I found out this is a common problem with the Garmin 45.

The Eagle employs a double screw-in hinge arrangement--not as convenient but very durable.

3.) The Eagle has a better receiver than the Garmin 45. (Garmin does make true parallel multi-channel receivers but the ones I found were out of my price range---don't you hate it when money get's in the way of Ham Radio!!)

4.) When I have Dilution of Precision numbers in the 1.25 to 1.5 range even when I am moving with an inside antenna then I can unequivocally state that the unit works like that. I never said that it worked better than an outside antenna......only that it works great......I still stand by that opinion.

5.) For the $400.00+ dollars you will have tied up in a Garmin by the time you get an amplified antenna you could have an Eagle with its better receiver and get the extension kit and have a working unit without the need for another hole in your vehicle or another coax run under the seats.......(I don't have any idea how Garmins work with passive antennas like the one from LRF Designs------I do know that Garmins have voltage on the connector....probably put there for a reason.).

One other thing I failed to mention is that the Eagle has a very large LCD display.....much larger than the Garmin. Handy when you're mobiling along and want a quick look at your position (I did this quite frequently this weekend as a rover in the VHF contest......had to make sure where the grid-square lines are!)

That all said, maybe what the SIG needs is a side-by-side comparison of several units which various members own. I'm sure that with some logistical planning that several of us could get together and put all our units to the test under very similar conditions. There would need to be some fairly careful analysis of the outcomes since even two identical units can give different readings sitting together at the same time (they might be seeing different sats.)

Good APRSing all,

Doug, KM4HY
Athens, GA

---

589. AEA/APRS HELP//THANKS

From: WB4LTF@aol.com
Date: Tue, 23 Jan 1996 12:24:24 -0500
To: aprssig@tapr.org
Message-ID: <960123122423_204601394@mail02.mail.aol.com>
Rendered body type: text/plain

I would like to thank EVERYONE who responded to my call for help and this seems like the best way.

THANKS EVERYONE!!!

It seems I'm not the only with the default to relay and have also heard fro others that it is not only an AEA problem.

I will download the BETA2000 ant try it as I see others who say it fixes the problem.

```
As for my problem with SPACE and the  Echo of my outgoing sig;
  The OLD AEA's did not have a MXMIT command so that will not help.
I'm still looking.

Lastly;

A HEARTY WELL DONE to Bob (APR) for a GREAT program and an equally fine job
of responding (very diplomatically) to most Questions...

Bud
wb4ltf@aol.com
```

---

590. 6mtrs

From: steve@muskoka.com (Steve Dubois)
Date: Tue, 23 Jan 1996 14:51:52 -0500
To: aprssig@tapr.org
Message-ID: <199601232004.PAA03516@gold.muskoka.com>
Rendered body type: text/plain

```
Greetings,

Is there anyone in our group that is running aprs on 6mtrs. I have my 6mtr
setup on 50.620. As I am new to aprs how should my unproto be set up. I use
two configs at present as I am not sure which I should be set up on. I use
relay as one and the other is wide,wide.

Any help would be greatly appreciated. I would like to see six meter aprs
used as well.If there is any other freq. that others are using I would
appreciate hearing from you.

Thanks in advance.
73...to all de Steve  VA3HOI
```

---

591. Re: [APRSSIG:6203] WINAPRS Maps

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Tue, 23 Jan 96 15:15:51 EST
To: aprssig@tapr.org
Cc: dkaplan@pionet.net
Message-ID: <CMM-RU.1.4.822428151.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

```
> Now that we are looking at moving to Winaprs, what do we need to know about
> making maps?  Will the maps we made for Dos APRS work with Winaprs.  Can we
> do better (ie more points) etc...
>


MacAPRS and WinAPRS use the EXACT same format for the map files.

This format is a BINARY format, and although not proprietary or secret,
is not something that you can make maps for by hand..


MacAPRS and WinAPRS will read the PC/DOS APRS map files DIRECTLY,
NO CONVERSION NEEDED!

As far as point limitation. We  LITERALLY made a map that was 12 MILLION points
and tried it just simply to test the program, and it worked JUST FINE. (It
was a little slower than most people would want to put up with, :-> )

Typically, I use maps that are in the 15,000 to 50,000 points on a REGULAR
basis. (the SMALLEST map I normally use is over 10,000 points)

Also, we have added some new stuff to the map drawing capabilities of MacAPRS
and these features are, of course, spilling over into WinAPRS..


We will have a CD full of maps available at DAYTON this year. This CD will
be CLEAR FULL of maps.. (This was announced awhile back).. We will not
only have ALL of the PC maps we can get our hands on, but it will be
clear full of all of the high-res maps that the Macintosh people have
been used to for the last year or so..

Also, As I announced here recently, I am now using a data base that contains
Map data for the ENTIRE world at a 1:1,000,000 scale.  Unfortunately, I have
found out that this CD set is currently not available, and that an UPDATE to
it SHOULD be available by the end of the year.  In the mean time, I will
be distributing maps from it..
```

```
If you want to look at some of the new maps take a look at:


        http://www-ns.rutgers.edu/~ksproul/APRS/Maps.html


Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

592. aprs for windows 95

From: Russ Collins <nfn05151@naples.net>
Date: Tue, 23 Jan 1996 15:35:04 -0500
To: aprssig@tapr.org
Message-ID: <199601232035.PAA12382@gator.naples.net>
Rendered body type: text/plain

```
Hi Bob....I have here a copy of aprs72b.zip that doesn't want to work in my
PC, packard bell pentium 75 mghz and windows 95. I would like to get a
registered version that will run right if available. Info from you will be
greatly appriciated. My e-mail address is nfn05151@naples.net and my call
sign is N8TUD.

                        THANK YOU 73 de Russ in Naples Florida
```

---

593. Re: [APRSSIG:6204] Re: A Strong Argument for the Eagle AccuNav Sport

From: ke4eer@ro.com (William Nolle)
Date: Tue, 23 Jan 1996 14:50:17
To: aprssig@tapr.org
Message-ID: <199601232059.OAA13979@sh1.ro.com>
Rendered body type: text/plain

```
Again i see a WILD statement. Now Brad don't tell me that i'm seing things that
are not their. You are saying the Eagle is better then the Garmin's and
Magellan's. That of course is gross misleading. Are you telling me that your
eagle is far superior to a Magellan NAV5000 costing double the price of the
Eagle, i would hardly think so.

Bill KE4EER
----------------
>I must agree with everything Doug says, I was lucky enough to receive
>an Eagle Accusport as a Christmas present this past season. All I can
>say is it seems to be far superior to the Garmin's and Magellan's. I
>love it and have had no problems at all. 73
>
>Brad
>
```

---

594. (no subject)

From: Simon Quellen Field <sfield@wpo.borland.com>
Date: Tue, 23 Jan 1996 14:10:59 -0800
To: aprssig@tapr.org
Message-ID: <s104eac7.051@wpo.borland.com>
Rendered body type: text/plain

```
>>> Gerald J Creager <gerry@cs.tamu.edu> 01/23/96 09:12am >>>
>>> I've been using the passive M/A-Com antenna on my cows and they work real well.

I'm glad someone else is using APRS to track livestock.  I have been using it for some time
on my chickens, and have these observations to share:

1. Mag mount and suction cup mounted antennas seem to have adhesion problems.  Three
    inch lag screws seem to work better, but can get a bit messy.

2. Sears Die-Hard 60 amp batteries give lasting performance, but I don't yet have any long
    distance data.  The chickens so equipped seem to stay near home much more than the
    chickens with the lighter weight batteries.

3. Ducks equipped with APRS equipment tend to spend much more time at the bottom of the
    pond.

AB6NY
```

---

595. Eagle AccuNav

From: "Tony Flusche" <Tony_Flusche@compuware.com>
Date: Tue, 23 Jan 96 15:00:47 EDT
To: aprssig@tapr.org
Message-ID: <199601232205.AA14774@stargate.compuware.com>
Rendered body type: text/plain

```
Does the Eagle AccuNav function at speeds greater than 100(think
     aircraft here)? Also what is its altitude ceiling(thinking balloons
     here)? 73 AB6BR Tony
```

---

596. DIGITIZERS ...

From: deang@MAIL.SYNTRON.COM
Date: Tue, 23 Jan 96 16:13:59 CST
To: aprssig@tapr.org
Message-ID: <9600238224.AA822442439@MAIL.SYNTRON.COM>
Rendered body type: text/plain

```
What kind of digitizers have people been using with the MAPFIX
     program(s)?  I have a Summagraphics SummaSketch III digitizer which I
     can't seem to interface with MAPFIX.

     Also, if a map has been compressed, can it be UNcompressed so that it
     can be edited?  If not, how do I find out who holds the original map
     so that I may obtain it?

        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
```

---

597. Re: [APRSSIG:6198] GPS antennas

From: Ed Rogers <edwardwr@inil.com>
Date: Tue, 23 Jan 1996 16:27:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601232227.QAA11527@sys1.tapr.org>
Rendered body type: text/plain

```
At 09:02 AM 1/23/96 -0600, Bob wrote:
>Considering all of the recent traffic about mounting your GPS antenna
>inside the vehicle:
>
>I received a very nice commercial version of the passive GPS antenna
>shown in the November QST.  This Antenna is manufactured by LRF designs
>(one of the HAMS here on this SIG).  It is about a 5 inch square of
>black aluminum with the approximate 3 inch square patch antenna mounted
>1/4 inch above it.  It even has rubber feet on the bottom.
>
>The construction appears professional and it seems to work well,
>especially where a low profile antenna is needed.  It is very useful on
>the dash board, since it can be placed well forward under the glass,
>while permitting the GPS unit itself to be conveniently located closer
>to the driver.  It is available from:
>
>LRF designs
>3575 Highway 68
>Ottawa, KS 66067
>

Thanks Bob.
I saw an ad on page 123 of the Jan '96 issue of Sport Aviation (EAA)and was
about to ask if anyone had used one yet.
I take it will work with Motorola cards?

Ed
N9LCI
```

---

598. KPC-3/APRS no P-List

From: jleonard@tbcnet.com (John B. Leonard)
Date: Tue, 23 Jan 1996 17:29:14 -0600
To: aprssig@tapr.org
Message-ID: <199601232329.RAA07816@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Hi, and gotta problem.  Hope you can help.
A fellow in Rockford, IL had some friends buy some brand new KPC-3's for use
with APRS (ver 7.2d+).  The problem they all had was, while the program
worked fine on a KAM, it wouldn't work on the KPC-3.
```

```
The program came up, drew maps of the area, and logged stations in the
H-list, and the A-list, but didn't record on the P-list, or plot on the maps.

The TNC's worked ok on terminal programs, and the MON was set to on.

I was under the impression that the KPC-3 worked fine out of the box.

Can anybody think of a reason they won't show on P-list or maps?

Thanks and 73
---------------------------------------------------------------------------
N9VJQ/jbleonard's Home Page (just getting started...be patient) at
http://tbcnet.com/~jleonard/n9vjq.htm
---------------------------------------------------------------------------
J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

---

599. Re: [APRSSIG:6174] WinAPRS Release (Wheaton Hamfest)

From: ASZ@aol.com
Date: Tue, 23 Jan 1996 20:13:34 -0500
To: aprssig@tapr.org
Message-ID: <960123201001_302847868@mail02.mail.aol.com>
Rendered body type: text/plain

```
I am seriously interested in anxiously awaiting WinAPRS, but I must I have
received six messages on this sig about the Wheaton hamfest plans. In all due
respect, ladies and gentlemen, can we all make an effort to be mindful of
such repetition? It would be very helpful.

Thanks.
```

---

600. M/A-COM GPS Antennas

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 23 Jan 1996 14:56:14 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <064243105678E002*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Just got the fax from Carl Weisman of M/A-COM re the two amplified
     M/A-COM antennas designed for external mount on a vehicle.

     ANP-C-110:  white hockey puck 3.0 " dia, 0.66" high, <100 grams, TNCf
     or SMAf or pigtail, mounting can be magnetic or bolt-down, intenal LNA
     has 16dB gain, requires 5V at 25mA on the antenna coax for operation.
     Price: $69 in 1-49 quantity

     ANP-C-114:  white hockey puck 3.0 " dia, 0.66" high, <100 grams, TNCf
     or SMAf or pigtail, mounting can be magnetic or bolt-down, intenal LNA
     has 26dB gain, requires 5V at 35mA on the antenna coax for operation.
     Price: $79 in 1-49 quantity

     Both antennas have a o-ring grommet on the back side for sealing.

     Carl indicated on the FAX that there may be a minimum buy required to
     get these prices, which seems a bit peculiar.

     73 - Jon NW6H
```

---

601. Re: [APRSSIG:6208] 6mtrs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jan 1996 21:27:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960123212646.27169A-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 23 Jan 1996, Steve Dubois wrote:

> Is there anyone in our group that is running aprs on 6mtrs. I have my 6mtr
> setup on 50.620. As I am new to aprs how should my unproto be set up. I use
> two configs at present as I am not sure which I should be set up on. I use
> relay as one and the other is wide,wide.

WB4APR REPLY COMMENT:

I know of no WIDE digipeaters on 6 meters yet.  Until you see a WIDE, it
```

would be best to use RELAY.

---

602. Re: [APRSSIG:6214] DIGITIZERS ...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jan 1996 21:43:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960123213655.27169D-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 23 Jan 1996 deang@MAIL.SYNTRON.COM wrote:

>       What kind of digitizers have people been using with the MAPFIX
>       program(s)?  I have a Summagraphics SummaSketch III digitizer which I
>       can't seem to interface with MAPFIX.
>
>       Also, if a map has been compressed, can it be UNcompressed so that it
>       can be edited?  If not, how do I find out who holds the original map
>       so that I may obtain it?

WB4APR REPLY COMMENT:

Any digitizer which outputs XXXXX,YYYYY,z each time your press the mouse
or PEN will work with MAPFIX.  Get it to work with PROCOMM first.

It doesnt matter whether a map is compressed or uncompressed.  Once it is
loaded into MAPFIX it is in the same internal format.  The difference is
when you SAVE it.  If you save it in compressed format, it does NOT save
the name you assigned to the particular feature.  This name is NOT used
by APRS, but is sometimes useful when using a TEXT eDITOR to look through
the file.  Since hardly any maps are made by hand anymore, these labels
have little or no value.

Before you save a map in COMPRESSED format, be SURE that all points are
within the YELLOW BOX  which means they have a value between 0 and 1024
in the Y axis and 0 and 2048 in the X axis.
```

---

603. Re: [APRSSIG:6216] KPC-3/APRS no P-List

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jan 1996 21:48:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960123214758.27169F-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 23 Jan 1996, John B. Leonard wrote:

> Hi, and gotta problem.  Hope you can help.
> A fellow in Rockford, IL had some friends buy some brand new KPC-3's for use
> with APRS (ver 7.2d+).  The problem they all had was, while the program
> worked fine on a KAM, it wouldn't work on the KPC-3.

WB4APR REPLY COMMENT:

Look carefully at the monitored packets.  Is the KPC-3 adding anything to
the displayed packets?
```

---

604. Re: [APRSSIG:6216] KPC-3/APRS no P-List

From: Ed Rogers <edwardwr@inil.com>
Date: Tue, 23 Jan 1996 21:05:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601240305.VAA22801@sys1.tapr.org>
Rendered body type: text/plain

```
At 05:44 PM 1/23/96 -0600, you wrote:
>Hi, and gotta problem.  Hope you can help.
>A fellow in Rockford, IL had some friends buy some brand new KPC-3's for use
>with APRS (ver 7.2d+).  The problem they all had was, while the program
>worked fine on a KAM, it wouldn't work on the KPC-3.
>
>The program came up, drew maps of the area, and logged stations in the
>H-list, and the A-list, but didn't record on the P-list, or plot on the maps.
>
>The TNC's worked ok on terminal programs, and the MON was set to on.
>
>I was under the impression that the KPC-3 worked fine out of the box.
>
>Can anybody think of a reason they won't show on P-list or maps?
>
>Thanks and 73
```

```
>---------------------------------------------------------------------------
>N9VJQ/jbleonard's Home Page (just getting started...be patient) at
>http://tbcnet.com/~jleonard/n9vjq.htm
>---------------------------------------------------------------------------
>J Barry Leonard
>Amateur Radio Call N9VJQ
>Subependymoma 1990
>DeKalb IL
>E-MAIL:  jleonard@tbcnet.com
>
>
Hi Barry,
Make sure INT TERMINAL is set, KPC3s come setup as NEWUSER or some such,
bring them and the TNC on saturdays NIAN meeting and Ill set them up.
Ed
N9LCI
```

---

605. Garmin 45 Rationale for selection

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 23 Jan 1996 14:51:04 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <05F3E3105665800C*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
I own a Garmin 45.  It fulfills nearly all of my needs for a very
     reasonable price.  I looked at about 25 different ones, from handhelds
     (Trimble, Magellan, Motorola, Garmin, Sony, Icom, Panasonic, Eagle,
     etc...) to fixed mounted ones (Garmin, Lowrance, Apelco, Eagle,
     Micrologic, Raytheon, Magellan).  My rationale for selection was based
     upon the following:


     Cost:      1) As little as practical, preferably $500 or less.  Only
                   wanna buy one.

     Uses:      1) Handheld for backpacking, hiking, biking.
                2) Able to be used in vehicle and ported to vehicle
                   computer or TNC.

     Graphics:  Ability to plot course on display to aid in dead-reckoning.

     Display:   1) Backlit (full-time if desired).
                2) Characters large enough to be read in mobile
                   environment.

     Size:      1) Small enough that I won't make an excuse to not carry
     it.

     Weight:    Small enough that I won't make an excuse to not carry it.

     Water
     Resistance:1) Needs to be immune to minor incursions con agua:
                   dunking, rain, soda, beer, etc...

     Power:     1) Gotta run for many hours (10-20) on little batteries or
                   on external power.

     Other
     Features:  1) Any cool gadgets that improve the odds that I'll carry
                   it around with me.
                2) Ability to remote the antenna.  Didn't want to get stuck
                   with one of these that have a built-in antenna.
                3) Decent mounting bracket for the truck.
                4) Not too big so that I can mount it in the truck.
                5) Quick portability from truck to pedestrian mode.
                6) Simple data/power connection using standard connector.
                7) NMEA 0183 support.
                8) Uploadability / Downloadability of waypoints, etc...
                   from my computer.


     There may be some other things, but these were the main desirements.
     The Garmin fit most of these.  What do I not like about it?

     1) It does not have a display suitable for reading at 75 mph on I40 at
     midnight, especially when tired.

     2) Weird, proprietary connector for power/data.
```

3) The mag-mount external, amplified antenna, while improving the performance of the machine immensely, can get knocked off by large shrubbery or car washes. This dings up the truck. (Of course, so do the large shrubberys.)

4) Switcher noise and computer noise generated internally cause interference to my truck AM BCB radio, noticeable even with a local strong station like KNX.

5) Receiver (or LNA in antenna) can get swamped by HF transmitter, VHF transmitter, UHF and SHF transmitters. Can't transmit too long (20-30 sec continuous) on 2m (45W) or 7 or 14 MHz (100W max) without losing satellites. GPS antenna is hood of truck (Suburban), right side, forward of windshield abt 8", all VHF/UHF/SHF antennas on roof, HF antenna at rear left bumper of truck.

6) Not really a problem for me, but a gripe: won't work at speeds in excess of 99.9 knots (115.3 mph). Apparently the software is designed to stop working at that speed. (The rumor has it that it is so aviator-type folks wouldn't use these in lieu of Garmin's more expensive units). Have only achieved speed of 108 mph (not recommended) so this is only a nit.

What do I like about it?

1) Small! Tiny! Light-weight!

2) Nice back-lit display!

3) Many cool functions!
   Sunrise/sunset calculator
   Great circle distance calculator
   Map plotter
   Satellite position and signal strength display
   Nice battery indicator

4) No need to send a command string on RS232 to get it to start outputing data sentences.

5) Runs on +7 to +30 Vdc...

6) Works really well in canyons (I'm talking Grand Canyon, at the river), under heavy foliage. Obviously the former is dependent upon satellite position, but the latter is a real problem due to absorption.

7) Heavily supported by a large group of owners. Has a discussion group on internet. Much software written specifically for Garmin available on Internet, especially from Peter Bennett's site.

8) Weird proprietary connector now being manufactured and distributed for free by a guy on the net. This is part of the reason why 7) is important.

9) 250 waypoints, of which I've used only 82 in eight months of ownership.

10) Simple, quickly-learned controls that can be found by feel.

11) Decent little bracket that holds it captive on my center console. Fairly easy to remove and install unit into bracket.

12) Rubberized in various places to improve grippability.

13) Supplied antenna is easily attached and detached from unit, but not too easy. Have never seen any instance of poor performance due to intermittent antenna connection. Antenna folds down along side the body of the receiver when not in use.

Notice that nowhere in here do I say anything about multichannel receivers, fast lockup, etc. The first used to be important to me. This is also my second GPS unit, a 4-channel parallel Sony being my first. After using the GPS45, for a few weeks under a tremendous variety of conditions, I can say that for my purposes the multichannel receiver is not high on the list of requirements. If I was in an aircraft or racecar it might again become important. If I needed to worry about internal clock jitter affecting the position estimate (and SA were off) it might become important.

Speed of lockup varies tremendously. I generally leave it on 24 hours per day, 7 days a week in the truck. In tough situations, under heavy foliage in a deep canyon in a torrential thunderstorm and driving through a tunnel it still seems to lock up fairly quickly (good enough) once it sees the sky. When I take it across the country or to another continent, I use the Skysearch mode and that can take up to 30 min or so to lock up. I could improve that by inputting the estimated position but I'm lazy. Normal lockup is about 40 sec from power on if the satellites are visible and the position hasn't changed by more than a couple hundred miles or so.

After the eight months of service from this unit, I can say that I'd buy it again. For any GPS receiver used in the mobile, use an external antenna. You wouldn't outfit your 2m mobile with an internal antenna if you wanted good performance, so don't handicap your GPS unit. You need full sky coverage.
You gotta choose what fits your requirements best.

73 - Jon NW6H

---

606. [APRSSIG:6145] Re: RS10 Experiments

From: "dwetzel%uswest.com@1":2619/211.9@tapr.org (dwetzel@uswest.com%1:2619/211.9)
Date: 21 Jan 96 10:32:43 -0500
To: aprssig@tapr.org
Message-ID: <f8a_9601230615@woodybbs.com>
Rendered body type: text/plain

To: dwetzel@uswest.com%1:2619/211.9%12:320/100.666
From: dwetzel@uswest.com
Subject: [APRSSIG:6145] Re: RS10 Experiments

1515Z Pass, Sunday Jan 21.

Heard several packets through RS-10, but due to low elevations, was unable to completely copy anyone.

Next pass is 80+ degrees and should afford much better opportunities here. Next pass is at 1656Z.

73!

Doug
KC7CO
dwetzel@uswest.com

# Origin: WoodyWare Software, Inc. <-> Internet Gateway (1:2619/211.9)

# Origin: Gateway ARNet <-> HamNet by HB9EBW (12:320/100.666)
--
|Fidonet: dwetzel@uswest.com%1:2619/211.9 2:301/249.666
|Internet: dwetzel@uswest.com%1:2619/211.9
|
| Standard disclaimer: The views of this user are strictly his own.

---

607. Re: [APRSSIG:6204] Re: A Strong Argument for the Eagle AccuNav Sport

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Tue, 23 Jan 1996 23:40:03 -0500
To: aprssig@tapr.org
Message-ID: <199601240438.XAA16569@sun.lssu.edu>
Rendered body type: text/plain

>I must agree with everything Doug says, I was lucky enough to receive
>an Eagle Accusport as a Christmas present this past season. All I can
>say is it seems to be far superior to the Garmin's and Magellan's. I
>love it and have had no problems at all. 73
>
>Brad

Thanks for your input Brad. I appreciate your personal opinion concerning your impression of the Eagle AccuNav unit. With luck, all readers will not perceive lab specifications in your comments. With a little more input, I may find the courage to purchase something other than a Garmin 45 with an outside antenna. Keep the technical stuff/opinions coming.

Feel intimidated, yet?

Pete, wa4hei

---

608. [APRSSIG:6213] Eagle AccuNav

From: Doug Woodruff <102256.1216@compuserve.com>
Date: 24 Jan 96 00:14:34 EST
To: TAPR E-mail Forum <aprssig@tapr.org>
Message-ID: <960124051433_102256.1216_BHB30-1@CompuServe.COM>
Rendered body type: text/plain

```
>
>     Does the Eagle AccuNav function at speeds greater than 100(think
>     aircraft here)? Also what is its altitude ceiling(thinking balloons
>     here)? 73 AB6BR Tony
>
The information I have received indicates that the Eagle does indeed function at
speeds in excess of 99 mph.  Since I am no longer a police officer, however, I
have not had the opportunity to test this myself!!! Hi Hi.

I have no information on the altitude ceiling of the Eagle.

I'll pass along any information I get on those topics.

Doug, KM4HY
Athens, GA
```

---

609. 1) GPS Receiver selection.. 2) APRS Satellite?

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 24 Jan 96 00:46:50 EST
To: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960124054649_102413.375_BHA96-1@CompuServe.COM>
Rendered body type: text/plain

```
First, here's something to get KE4EER going:

I'M BUYING AN EAGLE GPS!!!!!  (note shouting i.e. highest mountain top
therefrom)

After reading all of the info on the SIG and from what other have told me from
experience, I believe that's the way to go!  So, read it and weep!  Now all I've
got
to do is come up with the $$$!!!

Second, with regard to the LRF Designs GPS external antenna:  I don't know very
much about the antenna itself, but I can vouch for Paul!  Paul came out of an
early
retirement to work for Garmin here in Kansas City for the past two years.  I
believe
that he's now officially retired but is doing some contract work for them, at
least if
his stand-alone tracker is any indication (he still plots the same path every
single
day and we all wish he had a laptop in the car!).  Paul undoubtedly has the
background
from the Garmin experience and, if memory serves, from many years with King
Electronics (aircraft radios etc.) to produce a quality, well-tested and useful
product.  Anyone wishing to contact Paul can leave mail to him via me.  I'll
pass it
along via local packet!

Now, on to other things....

Here's a thought sure to kindle the fires down South....

Bob mentioned some two weeks ago of having been approached by NASA or somesuch
to develop a hand-launchable satellite which would fly in a shuttle mission in
March '96.
He's already told me that the launch window has fallen through, but is working
on a package
using the MIM module.

Now here's my idea:

If we're going to fly an APRS Satellite, we'd better look at channel utilization
(oh, GAWD, not again!).
Obviously the package couldn't serve as a simple space digipeater on 145.79.  It
would simply be
overloaded!  My suggestion is to develop a package that would transmit on
445.925 MHz (the APRS
UHF frequency) and serve as a store-and-forward system.
```

```
One station in each APRS LAN would be the designated space gateway for his/her
area.  The
satellite would be programmed to send a standard APRS query to one station at a
time and then
wait for a data dump from the uplink station which would include the latest
position of all stations
in that particular LAN.  The satellite would then retransmit the data on its
downlink and proceed to
query the next station in its pre-programmed list.  Of course the space-gate
should only uplink
the locations of stations within its own LAN, not those received from HF gates!

Of course, this would mean a considerable amount of pre-launch planning and
cooperation to set
up the space-gates and it would also mean that the satellite would HAVE to have
the ability to have
its data tables updated by one of the ground controllers to update the database
as space-gates open,
close or change.

Could one-liner messages be included?  Possibly, but if the primary purpose is
tracking
and data relay, my suggestion would be to limit the bird to that type of traffic
only.

OK, fellers, chew on this one and let's see just what ol' Jim can stir up!

73's all!
de Jim, KU0G
APRS--Kansas City
```

---

610. APRS Tropical Storm plotting

From: KSwaggart@aol.com
Date: Wed, 24 Jan 1996 01:33:40 -0500
To: aprssig@tapr.org
Message-ID: <960123225028_125355618@mail06.mail.aol.com>
Rendered body type: text/plain

```
Hi APRSers,

  Last summer I was trying to get some software working which would extract
data from the National Hurricane Center's marine tropical storm warnings.
About the time I got it to work, the neat feature of max wind radius was
added to the APRS tropical storm plot capability and I never got around to
adding this data to my extraction code.

 I would like to get this software tool working this winter, and need some
examples of tropical storm warnings from last years hurricane season. If you
still have some squirrled away on your hard drive, please zip up a few and
send them to me (not the SIG!) as an attached file. I need examples of
hurricanes, tropical storms, and tropical depressions, in the message format
the NHS uses for maritime interests which has a very predictable stucture.

 When completed, this software tool should read the NHS messages, which you
download from the Internet, and create an APRS .BK file which you can load or
append with the F command. The current storm center will be plotted, with the
appropriate maximum wind radius,  and the projected track displayed as listed
in the warning.

73 es TNX,
Ken, W7KKE
kswaggart@aol.com
```

---

611. Re: [APRSSIG:6227] 1) GPS Receiver selection.. 2) APRS Satellite?

From: ke4eer@ro.com (William Nolle)
Date: Wed, 24 Jan 1996 03:18:16
To: aprssig@tapr.org
Message-ID: <199601240927.DAA29171@sh1.ro.com>
Rendered body type: text/plain

```
Why would it bother me that you are buying a Eagle, good for you and i hope
your very happy with it because it sounds like an excellent GPS receiver. Why
does everyone read something out of my messages that is not there. Do todays
shools turn out student's that just can't grasp what is written in a simple
message. Jim wake up and start reading the messages with your eyes and not
your feelings. I still stand by what i wrote that to make a statement to people
that with the Eagle you don't need to but the external antenna is the wrong
way to put the message. On the other part of your message i hate to bust your
```

bubble don't realy care what plans you have, but be aware that that frequency
has been alocated in many area's of the country for other things!.

Bill KE4EER

>First, here's something to get KE4EER going:
>
>I'M BUYING AN EAGLE GPS!!!!! (note shouting i.e. highest mountain top
>therefrom)
>
>After reading all of the info on the SIG and from what other have told me from
>experience, I believe that's the way to go! So, read it and weep! Now all I've
>got
>to do is come up with the $$$!!!
>
>Second, with regard to the LRF Designs GPS external antenna: I don't know very
>much about the antenna itself, but I can vouch for Paul! Paul came out of an
>early
>retirement to work for Garmin here in Kansas City for the past two years. I
>believe
>that he's now officially retired but is doing some contract work for them, at
>least if
>his stand-alone tracker is any indication (he still plots the same path every
>single
>day and we all wish he had a laptop in the car!). Paul undoubtedly has the
>background
>from the Garmin experience and, if memory serves, from many years with King
>Electronics (aircraft radios etc.) to produce a quality, well-tested and useful
>product. Anyone wishing to contact Paul can leave mail to him via me. I'll
>pass it
>along via local packet!
>
>Now, on to other things....
>
>Here's a thought sure to kindle the fires down South....
>
>Bob mentioned some two weeks ago of having been approached by NASA or somesuch
>to develop a hand-launchable satellite which would fly in a shuttle mission in
>March '96.
>He's already told me that the launch window has fallen through, but is working
>on a package
>using the MIM module.
>
>Now here's my idea:
>
>If we're going to fly an APRS Satellite, we'd better look at channel utilization
>(oh, GAWD, not again!).
>Obviously the package couldn't serve as a simple space digipeater on 145.79. It
>would simply be
>overloaded! My suggestion is to develop a package that would transmit on
>445.925 MHz (the APRS
>UHF frequency) and serve as a store-and-forward system.
>
>One station in each APRS LAN would be the designated space gateway for his/her
>area. The
>satellite would be programmed to send a standard APRS query to one station at a
>time and then
>wait for a data dump from the uplink station which would include the latest
>position of all stations
>in that particular LAN. The satellite would then retransmit the data on its
>downlink and proceed to
>query the next station in its pre-programmed list. Of course the space-gate
>should only uplink
>the locations of stations within its own LAN, not those received from HF gates!
>
>Of course, this would mean a considerable amount of pre-launch planning and
>cooperation to set
>up the space-gates and it would also mean that the satellite would HAVE to have
>the ability to have
>its data tables updated by one of the ground controllers to update the database
>as space-gates open,
>close or change.
>
>Could one-liner messages be included? Possibly, but if the primary purpose is
>tracking
>and data relay, my suggestion would be to limit the bird to that type of traffic
>only.

```
>
>OK, fellers, chew on this one and let's see just what ol' Jim can stir up!
>
>73's all!
>de Jim, KU0G
>APRS--Kansas City
>
```

---

612. APRS 7.4e Find Gridsquare problem

From: Mike Tyrrell <100321.1327@compuserve.com>
Date: 23 Jan 96 17:15:02 EST
To: "'aprs sig'" <aprssig@tapr.org>
Message-ID: <960123221501_100321.1327_JHF58-3@CompuServe.COM>
Rendered body type: text/plain

```
Hi,
I'm using APRS7.4e and was trying out the Operations, Find command. If I enter
the find string as my gridsquare  [IO83rg then the map cursor ends up at
gridsquare HM81lc off the west coast of Africa instead of in the UK!

Is this bug or have I misunderstood the way it should be used?

73
Mike    G6GAK
```

---

613. Altitude

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 24 Jan 96 08:37:02 EST
To: aprssig@tapr.org
Message-ID: <199601241337.IAA27950@gold.interlog.com>
Rendered body type: text/plain

```
Hello All,
I was playing with the 3D window, and noticed that occasionaly I would get
altitude, and that the 3 mobiles I was watching out there were only very
occasionally sending altitude.

My question is, what sentance do I look for with my KPC3 so I send altitude all
the time, and that users could watch me go up and down hills?

I also noticed a couple of clitches in 74E.  I occasionally go away for the
weekend and leave the computer up in APRS (under os/2).  If someone sends be a
personal message, or the log file is saved, APRS will not beacon my posit
anymore until someone is around to hit the space bar.  There for, my computer
can sit idle all weekend, while we are driving around.

While in the Y screen, I will decrease the altitude to a max of 2000 ft (with
the F3 key).  If I redraw the screen with the space bar, the altitude scale
will reset to its original scale, and I have to move it down again with the F3
key.

Many thanks in advance...

cheers...mike

Mike Walker                                 mwalker@interlog.com
127 High St. W.                                 rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

614. Re: [APRSSIG:6215] Re: GPS antennas

From: rwf <rwf@mindspring.com>
Date: Wed, 24 Jan 1996 09:51:23 -0500
To: aprssig@tapr.org
Message-ID: <199601241451.JAA17751@borg.mindspring.com>
Rendered body type: text/plain

```
At 04:32 PM 1/23/96 -0600, LCI wrote:


>Thanks Bob.
>I saw an ad on page 123 of the Jan '96 issue of Sport Aviation (EAA)and was
>about to ask if anyone had used one yet.
>I take it will work with Motorola cards?
>
>Ed
>N9LCI
```

```
Ed-  Most of the Motorolas I have used require a preamped antenna.  We tried
one with a passive antenna (one of the helixes off a Garmin 45) and the
signals were pretty much useless.  It did receive, but never locked.

I recall that there was a version of the Moto that does have the first stage
onboard, but I have never seen one- especially surplus.



Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor

rwf@mindspring.com  rwf@cokecce.com                   Atlanta, GA USA
Web:    http://www.mindspring.com/~rwf     for ATV, Balloon, and Ham info
FTP:     ftp.mindspring.com/users/rwf            for ATV, GPS, APRS info

 My hobby is tracking moving things with APRS, GPS and Packet. Ask me how.
```

---

615. Re: [APRSSIG:6216] KPC-3/APRS no P-List

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 24 Jan 1996 09:06:42 -0600
To: aprssig@tapr.org
Message-ID: <199601241506.JAA03901@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Thanks for all the responses to my request for help re: KPC-3's.  They have
been forwarded to WA9FFL, along with the recommendations for attaching GPS
antennas using lag screws.

--------------------------------------------------------------------------
N9VJQ/jbleonard's Home Page (just getting started...be patient) at
http://tbcnet.com/~jleonard/n9vjq.htm
--------------------------------------------------------------------------
J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

---

616. APRS Satellite?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 24 Jan 1996 12:01:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960124115432.6916D-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 24 Jan 1996, someone wrote:

> If we're going to fly an APRS Satellite, we'd better look at channel loading
> Obviously the package couldn't serve as a simple space digipeater on 145.79.
> My suggestion is to develop a package that would transmit on 445.925 MHz...

WB4APR REPLY COMMENT:

Remember that the UHF satellite band is 435-438 MHz.  There would be a
world wide REVOLT if you used 445.925.  Remember, everytime you mention
445.925 MHz you are stirring up a hornets nest.  The only way to refer to
that frequency is *locally* and to use it only if it is available and can
get coordinated for APRS.  hi hi
```

---

617. Re: [APRSSIG:6229] Re: Why does everyone...

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Wed, 24 Jan 1996 12:01:27 -0500
To: aprssig@tapr.org
Message-ID: <199601241700.MAA17605@sun.lssu.edu>
Rendered body type: text/plain

```
. Why
>does everyone read something out of my messages that is not there. Do todays
>shools turn out student's that just can't grasp what is written in a simple
>message. Jim wake up and start reading the messages with your eyes and not
>your feelings.
>Bill KE4EER
>------------------

   Hello, William.

   At the risk of being pilloried for answering your questions, rhetorical
```

or implied, I will answer them. You asked them in this public forum. The following is what I "read ... out" of many of you messages. I qualify the following as personal opinion, from one who is far from perfect.

I have followed your writing for approximately a year? and have noticed a disturbing trend that you associate with others. You ascribe to others your own weaknesses! e.g. intolerance of others perceptions, (objective or subjective), strident and aggressive language, poor reading comprehension skills, flaming offered suggestions, etc.

As a reader of the SIG for some time, I get the distinct impression that your aggressive and intimidating style of expression would stifle contributions from the meeker among us.

I write this with some regret, for I appreciate your apparent creative accomplishments I read about in this SIG. You have appeared to have done more than most of us, and whatever my perceptions stated or otherwise, they do not
diminish your achievements in any way.

Your question, " Why does EVERYONE reads something out of my messages that is not there?" should suggest to you there may be something amiss, at home.

I know you are entitled to your opinions, your share of the rf spectrum, the fruits of your labor, and right to remind me that I can do other things if I do not like it, but, whatever your accomplishments, they do not justify your boorish behaviour.

Does a HI HI really impart humor to a broadside?

I will read your response, but for me the topic is closed.

I apologize to the other readers, but I felt compelled to express a view that has been brewing for a long time.

PS. Hello Jim, thanks for the welcome and an alternate view.

Pete, wa4hei

---

618. Re: [APRSSIG:6230] APRS 7.4e Find Gridsquare problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 24 Jan 1996 12:06:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960124120408.6916F-100000@greatlakes>
Rendered body type: text/plain

On Wed, 24 Jan 1996, Mike Tyrrell wrote:

> I'm using APRS7.4e and was trying out the Operations, Find command. If I
> enter my gridsquare [IO83rg then the map cursor ends up at
> gridsquare HM81lc off the west coast of Africa instead of in the UK!

WB4APR REPLY COMMENT:

Yep, that bug appeared as soon as we got our first SPRE position report in Taiwan! Seems my OPS-FIND only works for the WEST hemisphere... It was fixed in APRtrak, but not yet in APRS... Sorry. WIll be soon...

---

619. Re: [APRSSIG:6231] Altitude

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 24 Jan 1996 12:27:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960124121807.6916I-100000@greatlakes>
Rendered body type: text/plain

On Wed, 24 Jan 1996, Mike Walker wrote:

> I was playing with the 3D window, ...
> Question is, what sentance do I look for with my KPC3 so I send altitude?
>
> While in the Y screen, I will decrease the altitude to a max of 2000 ft (with
> the F3 key). If I redraw the screen with the space bar, the altitude scale
> will reset to its original scale, and I have to move it down again.

WB4APR REPLY COMMENT:

APRS only gets altitude if it sees a GGA sentence...

APRS always resets the MAP SCREEN to defaults wehn you hit SPACE BAR.
You can RE-DRAW the map without defaults by pressing the HOME key (but if
you want the same map, be sure you havent moved the cursor.)

---

620. Re: [APRSSIG:6213] Eagle AccuNa

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Wed, 24 Jan 96 09:25:50 -0800
To: aprssig@tapr.org
Message-ID: <F72C063101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

```
On 1/23/96 Tony Flusche said:
>     Does the Eagle AccuNav function at speeds greater than 100(think
>    aircraft here)? Also what is its altitude ceiling(thinking balloons
>   here)?

Tony-
Since I also have an Eagle Accunav Sport, I called the factory at (800)
324-1354 to get their response.  Apparently, the DISPLAY readout itself
is not limited to 100 knots since the 5-channel GPS engine used in it
(Rockwell NAVCORE V) can track unrestricted at typical aircraft speeds
and altitudes.  HOWEVER, for APRS work, the NMEA output string $GPRMC is
limited to 99.9 knots (roughly 115 MPH) and the unit unfortunately does
not output $GPGGA which normally provides altitude information as well.
Hope this clarifies the situation.

73's de Mike, KA6SPT
```

---

621. More Antennas

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Wed, 24 Jan 96 09:51:55 -0800
To: aprssig@tapr.org
Message-ID: <FA2C063101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

```
Since there was a lot of discussion on the SIG re: availability of
low-cost L1 GPS antennas, I thought I would add some additional
information.  I found a place, Micro Pulse in Camarillo, Ca
(805-389-3446) that provides reasonably priced puck antennas, either
passive or with a built-in preamp.  I personally am using the 26 dB unit
in my motorhome with excellent results.  The units available are:

        1) P/N 90LL13800          26 dB gain     Unit price $77.95
        2) P/N 90LL13800-1      Passive          Unit price $64.95
        3) P/N 90LL13800-2      13 dB gain      Unit price $75.50

These antennas are available in either magnetic mount or screw mount and
uses a standard 10-ft length of RG 316.  They can be terminated in any
connector of your choice such as a BNC or MCX type.  Additional lengths
can be custom made at $1/foot additional charge.  The only thing you
should be aware of is that the preamp units require +5V on the coax
center pin to function.  I built an inline  power supply with a 7805
regulator, RF choke, and DC decoupling capacitor that works great with my
setup.  Hope this helps you guys out there---

73's de Mike, KA6SPT
```

---

622. Re: [APRSSIG:6232] Re: GPS antennas

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 24 Jan 1996 10:49:18 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601241649.KAA07806@solar.cs.tamu.edu>
Rendered body type: text/plain

```
rwf sez:
>
> I recall that there was a version of the Moto that does have the first stage
> onboard, but I have never seen one- especially surplus.

I'm using the Motorola OnCore receiver with the onboard LNA for "Cows In
Space."  It works well, but there is not any reason to go with that sort of
thing if you're using the beast for mobile applications.  The current penalty
is small unless you're looking at long-duration battery operations, as we are.

Most designers incorporate a preamp at the antenna to overcome the limitations
of the coax they then link the antenna to the receiver with.  Since I'm using
about 12 inches of RG-174 (really!!) it's not a big issue for me.  15 feet of
```

RG-58 is a big hit, and just a meter of RG-174 shouldn't be done unless you know you're going to lose a lot of signal.

With preamp'd antennas, you get 20-40 dB (Trimble looks to get up to 44 dB!) at the antenna, and can afford to lose some on the way down.

73, gerry

---

623. Re: [APRSSIG:6235] Re: Why does everyone...

From: jean@pubs17.si.com (Richard G. Jean Jr.)
Date: Wed, 24 Jan 96 13:17 EST
To: aprssig@tapr.org
Message-ID: <m0tf9lD-0002qMC@pubs17.si.com>
Rendered body type: text/plain

GOOD JOB PETE !!!!

MY FEELINGS EXACTLY, THANK YOU !!!!!

WILLIAM YOU WHINE TOOOOO MUCH !!!!!

GUESS YOU DON'T HAVE ANYTHING BETTER TO DO....

Rich   8-)

---

624. Re: [APRSSIG:6231] Altitude

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 24 Jan 1996 13:48:18 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad2c3b37dae8@[199.1.11.108]>
Rendered body type: text/plain

>>My question is, what sentance do I look for with my KPC3 so I send altitude all
>the time, and that users could watch me go up and down hills?

$GPGGA has lon/lat and altitude.

but also send $GPRMC as SPEED and TRACK are more interseting and altitude is not very accurate with a regular GPS unit.

73

====================================
Analysis of the NMEA 0183 V2.0-dialect as spoken by the GPS45
brought together and partly revised by Sebastian Birnbach
(birnbacs@informatik.tu-muenchen.de). Please feel free to copy this text
and make sure you send me any addition or correction you have about it.

The GPS 45 outputs the following NMEA dataframes in cycles of approx. one every two seconds:

```
$GPGSV  GPS satellites in view
$PGRME  unknown
$GPGLL  GPS latitude and longitude
$PGRMZ  altitude above normal zero
$PGRMM  selected map datum
$GPBOD  GPS bearing, origin to destination
$GPWPL  GPS waypoint location (different WP of track 0 each cycle)
$GPRMC  GPS recommended minimum specific GPS/TRANSIT data
$GPRMB  GPS recommended minimum navigation information
$GPGGA  GPS fix data
$GPGSA  GPS DOP and active satellites
```

Since it's cyclic one cannot tell which sentence is the first ;-)

The sentences that start with "$GP" are regular GPS-sentences, those that start with "$P" are proprietary sentences. "$PGRM" probably stands for "proprietary GARMIN", so only the last letter is used to identify the sentence. The sentences in detail:

```
######################################################################

$GPGSV,2,1,08,01,40,083,46,02,17,308,41,12,07,344,39,14,22,228,45*75
       T,P,SS,SV,EL,AZI,SG,E..                                   *CS

T:      total number of GPGSV frames to hold the complete information
```

```
P:      present number of GPGSV frame
SS:     total number of tracked satellites
SV:     identification number of SV
EL:     elevation
AZI:    azimuth
SG:     SIG which means - what?
[repeated up to four times according to total number of satellites]
CS:     checksum

####################################################################

$PGRME,16.5,M,20.2,M,26.1,M*19
       FF.F,U,FF.F,U,FF.F,U*CS

FF.F:   floating point value
U:      units (M=meters)
CS:     checksum

####################################################################

$GPGLL,4807.038,N,01131.324,E,123517,A*2E
       DDMM.MMM,N,DDDMM.MMM,E,HHMMSS,V,CS

DDM..:degree value of latitue
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
HHM..:time UTC
V:      validity flag (V=invalid, A=valid)

####################################################################

$PGRMZ,1788,f,3*2D
       ALTI,U,D*CS

ALTI:   integer value of height above sealevel
U:      units (f=feet)
D:      geometrical dimensions used (3D/2D with user-supplied height)

####################################################################

$PGRMM,WGS 84*06
       MMMMMM*CS

MM..:   map datum
CS:     checksum

####################################################################

$GPBOD,262.1,T,261.5,M,GILCH,HAUSE*43
       BRG  ,T,BRG   M,ORIGN,DESTN*CS

BRG:    bearing as degrees floating point
T:      true
M:      magnetic
ORIGN:  name of origin waypoint
DESTN:  name of destination waypoint
CS:     checksum

####################################################################

$GPWPL,4804.593,N,01115.061,E,WESSL*11
       DDMM.MMM,N,DDDMM.MMM,E,NAME *CS

DDM..:degree value of latitue
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
V:      validity flag (V=invalid, A=valid)
NAME:   name of described waypoint
CS:     checksum

####################################################################

$GPRMC,123519,A,4807.038,N,01131.324,E,000.0,276.9,150895,000.5,E*73
       HHMMSS,V,DDMM.MMM,N,DDDMM.MMM,E,SPEED,TRACK,DATE  ,DEVIA,E*CS

HHM..:time UTC
V:      validity flag (V=invalid, A=valid)
```

```
DDM..:degree value of latitude
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
SPEED:speed over ground, measured in knots
TRACK:course over ground or track
DATE:   current date
DEVIA:magnetic deviation
E:      east/west (E/W)

####################################################################

$GPRMB,A,0.03,L,HAUSE,GILCH,4805.657,N,01117.025,E,009.7,261.9,,V*16
       V,XTE ,D,ORIGN,DESTN,DDMM.MMM,N,DDDMM.MMM,E,RANGE,BRNG,S,A*CS

V:      validitiy flag (V=invalid, A=valid)
XTE:    cross track error in nautical miles
D:      direction to steer
ORIGN:name of origin waypoint
DESTN:name of destination waypoint
DDM..:degree value of latitude
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
RANGE:range from present to destination waypoint in nautical miles
BRNG:   bearing from present to destination waypoint in nautical miles
S:      closing velocity to destination waypoint in knots
V:      arrival flag (V=not arrived, A=arrived)
CS:     checksum

####################################################################

$GPGGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42
       HHMMSS,DDMM.MMM,N,DDDMM.MMM,E,Q,NS,DOP,ALTI ,U,FF.F,U,?,?*CS

HHM..:time UTC
DDM..:degree value of latitude
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
Q:      quality of fix(?)
ALTI:   integer value of height above sealevel
U:      units (M=meter)
?:      unknown
CS:     checksum

####################################################################
```

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

625. NMEA Sentence Format FAQ

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 24 Jan 1996 13:54:17 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ad2c3de07af3@[199.1.154.64]>
Rendered body type: text/plain

Everyone save this FAQ and note the address fro more information on GPS, NMEA info and programs: ftp://sundae.triumf.ca/pub/peter/index.html

Newsgroups: sci.geo.satellite-nav
Subject: NMEA FAQ
Date: 4 Jan 1996 08:36 PST
Organization: TRIUMF: Tri-University Meson Facility
Message-ID: <4JAN199608361890@erich.triumf.ca>

The NMEA FAQ
Version 2.0 Jan. 1, 1996

Additions, corrections, and comments should be emailed to the author,
Peter Bennett bennett@triumf.ca

Contents:

1.   What is NMEA?
  1.1   What is an NMEA Standard

  - 1.2 NMEA Address
- 2. Electrical Interface
- 3. NMEA-0180 and NMEA-0182
  - 3.1 Simple Format
  - 3.2 Complex Format
- 4. NMEA-0183
  - 4.1 General Sentence Format
  - 4.2 Sentences sent by specific equipment
  - 4.3 Sample Sentences Dissected
    - 4.3.1 Standard Sentences
    - 4.3.2 Garmin Proprietary Sentences
- 5. RS-232 connections
- 6. About the author
  - 6.1 Acknowledgements

1. What is NMEA?

The National Marine Electronics Association is dedicated to the education and advancement of the marine electronics industry and the market which it serves.

It is a non-profit association composed of manufacturers, distributors, dealers, educational institutions, and others interested in peripheral marine electronics occupations
(quoted from a promo in "NMEA News")

1.1 What is an NMEA standard?

For the purposes of this article, an NMEA standard defines an electrical interface and data protocol for communications between marine instrumentation. (They may also have standards for other things.)

1.2 NMEA Address

P.O. Box 3435
New Bern NC, 28564-3435
U.S.A.
Phone: 919-638-2626
Fax: 919-638-4885
http://www.coastalnet.com/business/electronics/nmea/nmeawww.html

2. Electrical Interface

These standards allow a single "talker", and several "listeners" on one circuit. The recommended interconnect wiring is a shielded twisted pair, with the shield grounded only at the talker. The standards do not specify the use of any particular connector.

The NMEA-0180 and 0182 standards say that the talker output may be RS-232, or from a TTL buffer, capable of delivering 10 mA at 4 V. A sample circuit shows an open collector TTL buffer with a 680 ohm resistor to +12 V, and a diode to prevent the output voltage from rising above +5.7 V.

NMEA-0183 accepts this, but recommends that the talker output comply with EIA-422. This is a differential system, having two signal lines, A and B. The voltages on the "A" line correspond to those on the older TTL single wire, while the "B" voltages are reversed (while "A" is at +5, "B" is at ground, and vice versa)

In either case, the recommended receive circuit uses an opto-isolator with suitable protection circuitry. The input should be isolated from the receiver's ground.

In practice, the single wire, or the EIA-422 "A" wire may be directly connected to a computer's RS-232 input.

3. NMEA-0180 and NMEA 0182

NMEA-0180 and 0182 are very limited, and just deal with communcations from a Loran-C (or other navigation receiver, although the standards specifically mention Loran), and an autopilot.

From the information I have, it appears that 0180 and 0182 are identical. I suspect that equipment claiming to use NMEA-0180 will use the "simple" format described below, while those using NMEA-0182 will use the "complex" format. (but this is really just a guess... corrections??)

3.1 "Simple" data format

The simple format consists of a single data byte transmitted at intervals of 0.8 to 5 seconds, at 1200 baud with odd parity. Bits 5 - 0 give the cross-track error in units of 0.1 uS or 0.01 nautical mile. The error is given in offset binary, with a count of 1 representing full scale right error, 32 (hex 20) for on course, and 63 (hex 3f) full scale left error. Bit 6 is a 1 if the data is valid, and bit 7 is 0 to indicate the simple data format.

3.2 "Complex" data format

The complex format consists of a data block of 37 bytes of (mostly) readable ASCII text giving cross-track error, bearing to waypoint, present Lat/Long, and a binary status byte. The data block shall be sent at intervals of 2 to 8 sec. All bytes in the complex format have bit 7 = 1 to distinguish them from the simple format. It is permissible for a sending device to send both simple and complex data, and even to send a "simple" data byte in the middle of a "complex" data block.

Byte	Data	
1	$	
2	M	device
3	P	address
4	K = kilometres N = nautical miles U = microseconds	cross track error units
5 - 8	0 - 9 or .	cross track error value
9	L or R	cross track error position
10	T or M	True or Magnetic bearing
11 - 13	0 - 9	bearing to next waypoint
14 - 23	12D34'56"N or 12D34.56'N	present latitude
24 - 34	123D45'56"W or 123D45.67"W	present longitude
35	non-ASCII status byte bit 0 = 1 for manual cycle lock 1 = 1 low SNR 2 = 1 cycle jump 3 = 1 blink 4 = 1 arrival alarm 5 = 1 discontinuity of TDs 6 = 1 always	
36	"NUL" character (hex 80)(reserved status byte)	
37	"ETX" character (hex 83)	

Any unavailable data is filled with "NUL" bytes.

4. NMEA-0183

4.1 General Sentence Format

Under the NMEA-0183 standard, all characters used are printable ASCII text (plus carriage return and line feed).

The data is transmitted in the form of "sentences". Each sentence starts with a "$", a two letter "talker ID", a three letter "sentence ID", followed by a number of data fields separated by commas, and terminated by an optional checksum, and a carriage return/line feed. A sentence may contain up to 82 characters including the "$" and CR/LF.

If data for a field is not available, the field is simply omitted, but the commas that would delimit it are still sent, with no space between them.

Since some fields are variable width, or may be omitted as above, the receiver should locate desired data fields by counting commas, rather than by character position within the sentence.

The optional checksum field consists of a "*" and two hex digits representing the exclusive OR of all characters between, but not including, the "$" and "*". A checksum is required on some sentences.

The standard allows individual manufacturers to define proprietary sentence formats. These sentences start with "$P", then a 3 letter manufacturer ID, followed by whatever data the manufacturer wishes, following the general format of the standard sentences.

Some common talker IDs are:

GP	Global Positioning System receiver
LC	Loran-C receiver
OM	Omega Navigation receiver
II	Integrated Instrumentation (eg. AutoHelm Seatalk system)

4.2 Sentences sent by specific equipment

This section lists the sentence types used by various equipment. The format and data included in each sentence type is given in section 4.3.

Eagle AccuNav
Standard: RMB, RMC, GLL, APB
Proprietary: PSLIB
It also pretends it's a Loran, sending LCGLL, as well as GPGLL

Garmin GPS-45 (and probably GPS-40 and GPS-90)
Standard: BOD, GLL, RTE, RMB, RMC, GGA, GSA, GSV
Proprietary: PGRME, PGRMM, PGRMZ

Garmin GPS-65 (and probably GPS-75)
Standard: BWC, GLL, RMB, RMC, R00, WPL, XTE, VTG
Proprietary: PGRMM, PGRMZ, PSLIB

Magellan Trailblazer
Standard: APB, BWC, GGA, GLL, RMB, RMC, VTG
Trimble Ensign XL
Standard: APA, BWC, BWR, GGA, GLL, RMB

Trimble Flightmate Pro and Scoutmaster
Standard: APA, APB, BWC, GGA, GLL, GSA, GSV, RMB, RMC, VTG, WCV, XTE, ZTG

Autohelm Seatalk

Autohelm Seatalk is a proprietary bus for communications between various intruments. Some of the instruments can act as NMEA-0183 talkers or listeners. Data received from an external NMEA-0183 device will, if Seatalk understands the sentence, be re-transmitted, but not necessarily in the same sentence type.

The specific sentences sent will depend on the data available on the Seatalk bus (i.e. sentences containing wind speed and direction will only be sent if the system includes a wind instrument)

Seatalk output:
Standard: APB, BPI, BWC, VWR, VHW, DBT, GLL, HDM, HDT, HCS, MTW, VTG

Seatalk input:
Standard: APA, APB, RMB, XTE, XTR, BPI, BWR, BWC, BER,

BEC,WDR, WDC, BOD, WCV, VHW, VWR, DBT

4.3 Sample Sentences Dissected

4.3.1 Standard Sentences

A talker typically sends a group of sentences at intervals determined by the unit's update rate, but generally not more often than once per second.

Characters following the "*" are a checksum. Checksums are optional for most sentences, according to the standard.

APB - Autopilot format B

APB,A,A,0.10,R,N,V,V,011,M,DEST,011,M,011,M

A	Loran-C blink/SNR warning
A	Loran-C cycle warning
0.10	cross-track error distance
R	steer Right to correct (or L for Left)
N	cross-track error units - nautical miles
V	arrival alarm - circle
V	arrival alarm - perpendicular
011,M	magnetic bearing, origin to destination
DEST	destination waypoint ID
011,M	magnetic bearing, present position to destination
011,M	magnetic heading to steer (bearings could be given in True as 033,T)

(note: some pilots, Roberston in particular, misinterpret "bearing from origin to destination" as "bearing from present position to destination". This apparently results in poor performance if the boat is sufficiently off-course that the two bearings are different.)

BOD - Bearing - origin to destination waypoint

BOD,045.,T,023.,M,DEST,START

045.,T	bearing 045 True from "START" to "DEST"
023.,M	breaing 023 Magnetic from "START" to "DEST"
DEST	destination waypoint ID
START	origin waypoint ID

BWC - Bearing and distance to waypoint - great circle

BWC,225444,4917.24,N,12309.57,W,051.9,T,031.6,M,001.3,N,004*29

225444	UTC time of fix 22:54:44
4917.24,N	Latitude of waypoint
12309.57,W	Longitude of waypoint
051.9,T	Bearing to waypoint, degrees true
031.6,M	Bearing to waypoint, degrees magnetic
001.3,N	Distance to waypoint, Nautical miles
004	Waypoint ID

BWR - Bearing and distance to waypoint - rhumb line

(format same as BWC)

DBT - Depth below transducer

DBT,0017.6,f,0005.4,M

0017.6,f	17.6 feet
0005.4,M	5.4 Metres

GGA - Global Positioning System Fix Data

GGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42

123519	Fix taken at 12:35:19 UTC
4807.038,N	Latitude 48 deg 07.038' N
01131.324,E	Longitude 11 deg 31.324' E
1	Fix quality: 0 = invalid 1 = GPS fix 2 = DGPS fix
08	Number of satellites being tracked
0.9	Horizontal dilution of position
545.4,M	Altitude, Metres, above mean sea level
46.9,M	Height of means sea level above WGS84 geoid
(empty field)	time in seconds since last DGPS update
(empty field)	DGPS station ID number

GLL - Geographic position, Latitude and Longitude

GLL,4916.45,N,12311.12,W,225444,A

4916.46,N	Latitude 49 deg. 16.45 min. North
12311.12,W	Longitude 123 deg. 11.12 min. West
225444	Fix taken at 22:54:44 UTC
A	Data valid

```
     (Garmin 65 does not include time and status)

GSV - Satellites in view
GSV,2,1,08,01,40,083,46,02,17,308,41,12,07,344,39,14,22,228,45*75
   2           Number of sentences for full data
   1           sentence 1 of 2
   08          Number of satellites in view
   01          Satellite PRN number
   40          Elevation, degrees
   083         Azimuth, degrees
   46          Signal strength - higher is better
   <repeat for up to 4 satellites per sentence>
        There my be up to three GSV sentences in a data packet

HDM - Heading, Magnetic
HDM,235.,M
   HDM         Heading, Magnetic
   235.,M      Heading 235 deg. Magnetic
    (HDG, which includes deviation and variation, is recommended
    instead)

HSC - Command heading to steer
HSC,258.,T,236.,M
   258.,T      258 deg. True
   236.,M      136 deg. Magnetic

MTW - Water temperature, Celcius
MTW,11.,C
   11.,C       11 deg. C

R00 - List of waypoint IDs in currently active route
R00,MINST,CHATN,CHAT1,CHATW,CHATM,CHATE,003,004,005,006,007,,,*05
   (This sentence is produced by a Garmin 65, but is not listed
   in Version 2.0 of the standard.  The standard lists RTE for
   this purpose.)

RMB - Recommended minimum navigation information (sent by nav.
        receiver when a destination waypoint is active)
RMB,A,0.66,L,003,004,4917.24,N,12309.57,W,001.3,052.5,000.5,V*0B
   A           Data status A = OK, V = warning
   0.66,L      Cross-track error (miles), steer Left to correct
   003         Origin waypoint ID
   004         Destination waypoint ID
   4917.24,N   Destination waypoint latitude 49 deg. 17.24 min. N
   12309.57,W  Destination waypoint longitude 123 deg. 09.57 min. W
   001.3       Range to destination, nautical miles
   052.5       True bearing to destination
   000.5       Velocity towards destination, knots
   V           Arrival alarm  A = arrived, V = not arrived
   *0B         mamdatory checksum

RMC - Recommended minimum specific GPS/Transit data
RMC,225446,A,4916.45,N,12311.12,W,000.5,054.7,191194,020.3,E*68
   225446      Time of fix 22:54:46 UTC
   A           Navigation receiver warning A = OK, V = warning
   4916.45,N   Latitude 49 deg. 16.45 min North
   12311.12,W  Longitude 123 deg. 11.12 min West
   000.5       Speed over ground, Knots
   054.7       Course Made Good, True
   191194      Date of fix  19 November 1994
   020.3,E     Magnetic variation 20.3 deg East
   *68         mandatory checksum

RTE - Waypoints in active route
RTE,2,1,c,0,W3IWI,DRIVWY,32CEDR,32-29,32BKLD,32-I95,32-US1,BW-32,BW-198*69
   2           two sentences for full data
   1           this is sentence 1 of 2
   c           c = complete list of waypoints in this route
               w = first listed waypoint is start of current leg
   0           Route identifier
   W3IWI...    Waypoint identifiers

VHW - Water speed and heading
VHW,259.,T,237.,M,05.00,N,09.26,K
   259.,T      Heading 259 deg. True
   237.,M      Heading 237 deg. Magnetic
   05.00,N     Speed 5 knots through the water
   09.26,K     Speed 9.26 KPH
```

VWR - Relative wind direction and speed
VWR,148.,L,02.4,N,01.2,M,04.4,K

148.,L	Wind from 148 deg Left of bow
02.4,N	Speed 2.4 Knots
01.2,M	1.2 Metres/Sec
04.4,K	Speed 4.4 Kilometers/Hr

VTG - Track made good and ground speed
VTG,054.7,T,034.4,M,005.5,N,010.2,K

054.7,T	True track made good
034.4,M	Magnetic track made good
005.5,N	Ground speed, knots
010.2,K	Ground speed, Kilometers per hour

WCV - Waypoint Closure Velocity
WDC - Distance to Waypoint
WDR - Waypoint Distance, Rhumb Line

WPL - waypoint location
WPL,4917.16,N,12310.64,W,003*65

4917.16,N	Latitude of waypoint
12310.64,W	Longitude of waypoint
003	Waypoint ID

When a route is active, this sentence is sent once for each waypoint in the route, in sequence. When all waypoints have been reported, GPR00 is sent in the next data set. In any group of sentences, only one WPL sentence, or an R00 sentence, will be sent.

XTE - Cross track error, measured
XTE,A,A,0.67,L,N

A	General warning flag V = warning (Loran-C Blink or SNR warning)
A	Not used for GPS (Loran-C cycle lock flag)
0.67	cross track error distance
L	Steer left to correct error (or R for right)
N	Distance units - Nautical miles

XTR - Cross-Track Error - Dead Reckoning
XTR,0.67,L,N

0.67	cross track error distance
L	Steer left to correct error (or R for right)
N	Distance units - Nautical miles

4.3.2 Proprietary Sentences

The following are Garmin proprietary sentences. "P" denotes proprietary, "GRM" is Garmin's manufacturer code, and "M" or "Z" indicates the specific sentence type.

$PGRMZ,93,f,3*21

93,f	Altitude in feet
3	Position fix dimensions 2 = user altitude 3 = GPS altitude

This sentence shows in feet, regardless of units shown on the display.

$PGRMM,NAD27 Canada*2F
Currently active horizontal datum

Proprietary sentences to control a Starlink differential beacon receiver. (I assume Garmin's DBR is made by Starlink)
$PSLIB,,,J*22
$PSLIB,,,K*23

These two sentences are normally sent together in each group of sentences from the GPS.
The three fields are: Frequency, bit Rate, Request Type. The value in the third field may be:

J = status request
K = configuration request
blank = tuning message

When the GPS receiver is set to change the DBR frequency or baud rate, the "J" sentence is replaced (just once) by (for example): $PSLIB,320.0,200*59 to set the DBR to 320 KHz, 200 baud.

5. RS-232 connections

Although this is not really related to NMEA, many people want to connect a GPS to a computer, so need to know about the RS-232 serial ports on a computer.

The RS-232 standard defines two classes of devices that may communicate using RS-232 serial data - Data Terminal Equipment (DTE), and Data Communication Equipment (DCE). Computers and terminals are considered DTE, while modems are DCE. The standard defines pinouts for DTE and DCE such that a "straight through" cable (pin 2 to pin 2, 3 to 3, etc) can be used between a DTE and DCE. To connect two DTEs together, you need a "null modem" cable, that swaps pins between the two ends (eg. pin 2 to 3, 3 to 2). Unfortunately, there is sometimes disagreement whether a certain device is DTE or DCE, hence my standard RS-232 disclaimer:

if it doesn't work, swap pins 2 and 3!

The standard RS-232 connector is a 25 conductor DB-25, although many PCs (and some other equipment) now use a 9 pin DE-9 (often incorrectly called DB-9)

Serial Port Connections

Computer (DTE)				Modem
DB-25	DE-9	Signal	Direction	DB-25
2	3	Tx Data	->	2
3	2	Rx Data	<-	3
4	7	Request to send	->	4
5	8	Clear to send	<-	5
6	6	Data Set Ready	<-	6
7	5	signal ground		7
8	1	Data CarrierDetect	<-	8
20	4	Data Terminal Ready	->	20
22	9	Ring Indicator	<-	22

For NMEA-0183 interfacing, we are only concerned with Rx Data, signal ground (and possibly Tx Data, if we want the computer to talk to the GPS)

6. About the author

This FAQ was written by:
Peter Bennett
bennett@triumf.ca

I have an FTP site containing this file, a GPS FAQ, and other NMEA information files and PC programs for capturing and displaying NMEA data, and related things:

ftp://sundae.triumf.ca/pub/peter/index.html

6.1 Acknowlegments

I would like to thank the following for their contributions or corrections to this document:
Tom Clark, clark@tomcat.gsfc.nasa.gov
Bob Shearer, t.shearer@unixa.nerc-wallingford.ac.uk
David Steckler, davidst@nobeltec.com
Karl Olmstead, olmstead@ridgecrest.ca.us

Peter Bennett VE7CEI | Vessels shall be deemed to be in sight
Internet: bennett@triumf.ca | of one another only when one can be
Packet: ve7cei@ve7kit.#vanc.bc.ca | observed visually from the other
TRIUMF, Vancouver, B.C., Canada | ColRegs 3(k)

GPS and NMEA info and programs: ftp://sundae.triumf.ca/pub/peter/index.html

----

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

626. Garmin 40/45 power data connector

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 24 Jan 1996 11:43:14 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <0499831068BD208A*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Greetings and felicitations!

     I received in yesterday's post a connector from Larry Berg of Purple
     Computer in Oregon.  My FREE GPS45 power/data connector!!!

     Tried it out, and it seems to be just fine.  A little heat shrink, a
     bit of glue, and voila! it will be a fine addition to my cable
     collection, and at an excellent price.  Free.  A much better price
     than my official Garmin cable, which cost me ~30 smackeroos.

     This is another reason why I prefer the GPS45.  Whatever its
     limitations, it has a growing support group through which goodies are
     to be had.

     Thanks Larry.


     73 - Jon NW6H
```

---

627. Maps WINAPRS?

From: Steve Sable <ssable@ic.net>
Date: Wed, 24 Jan 1996 15:58:22 -0500
To: aprssig@tapr.org
Message-ID: <m0tfCGw-003Ih6C@ic.net>
Rendered body type: text/plain

```
I must have missed something along the way here abt WINAPRS and maps.
Here is some text from a previous message:

MacAPRS and WinAPRS use the EXACT same format for the map files.

This format is a BINARY format, and although not proprietary or secret,
is not something that you can make maps for by hand..

MacAPRS and WinAPRS will read the PC/DOS APRS map files DIRECTLY,
NO CONVERSION NEEDED!

The maps for the DOS ver of APRS are all of numbers and the maps for the
MacAPRS are all of binary format. SO how can these two be the same?
I thought I read that the DOS maps would work with WINAPRS but I am sure
that this would result in the same looking map screens as the present APRS
screen and NOT what I have seen in the WINAPRS demo's that are white
backgrounded and quite detailed.

Perhaps what is being said is that WINAPRS will read the present APRS DOS
maps, but if you want the nice stuff, you got to use the MacMaps?


                                  \\\\
                                  (o^o)
    ========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    ========================================================
```

---

628. Re: [APRSSIG:6234] APRS Satellite?

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 24 Jan 1996 10:18:28 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <00DFA310677F40E4*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Yeah, 445.925MHz in SoCal is a repeater channel.  There'd be hell to
     pay with that.  However, the idea is good, and I'd be real interested
     in being part of a group that built and delivered such a widget!  What
     about using 900 or 1200MHz?  What are the possibilities there?  What's
     the international allocations?

     73 - Jon NW6H


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6234] APRS Satellite?
Author:  bruninga@nadn.navy.mil at Internet
```

```
Date:    1/24/96 9:18 AM


On Wed, 24 Jan 1996, someone wrote:

> If we're going to fly an APRS Satellite, we'd better look at channel loading
> Obviously the package couldn't serve as a simple space digipeater on 145.79.
> My suggestion is to develop a package that would transmit on 445.925 MHz...

WB4APR REPLY COMMENT:

Remember that the UHF satellite band is 435-438 MHz.  There would be a
world wide REVOLT if you used 445.925.  Remember, everytime you mention
445.925 MHz you are stirring up a hornets nest.  The only way to refer to
that frequency is *locally* and to use it only if it is available and can
get coordinated for APRS.  hi hi
```

---

629. Re: [APRSSIG:6211] Re: A Strong Argument for the Eagle AccuNav Sport

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Wed, 24 Jan 1996 14:15:04 -0800
To: aprssig@tapr.org
Message-ID: <3106AF68.3F1F@ecst.csuchico.edu>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Again i see a WILD statement. Now Brad don't tell me that i'm seing things that
> are not their. You are saying the Eagle is better then the Garmin's and
> Magellan's. That of course is gross misleading. Are you telling me that your
> eagle is far superior to a Magellan NAV5000 costing double the price of the
> Eagle, i would hardly think so.
>
> Bill KE4EER
> ----------------
> >I must agree with everything Doug says, I was lucky enough to receive
> >an Eagle Accusport as a Christmas present this past season. All I can
> >say is it seems to be far superior to the Garmin's and Magellan's. I
> >love it and have had no problems at all. 73
> >
> >Brad
> >

I guess there are some people who would argue about anything at the
drop of a hat. Tell you what Bill find someone else to direct your
comments to I am sure none of the posts out there are ment to be taken
the way you seem to always take them 73....please do not reply,
thank you...

Brad
```

---

630. Re: [APRSSIG:6212]

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Wed, 24 Jan 1996 14:16:32 -0800
To: aprssig@tapr.org
Message-ID: <3106AFC0.167C@ecst.csuchico.edu>
Rendered body type: text/plain

```
Simon Quellen Field wrote:
>
> >>> Gerald J Creager <gerry@cs.tamu.edu> 01/23/96 09:12am >>>
> >>> I've been using the passive M/A-Com antenna on my cows and they work real well.
>
> I'm glad someone else is using APRS to track livestock.  I have been using it for some time
> on my chickens, and have these observations to share:
>
> 1. Mag mount and suction cup mounted antennas seem to have adhesion problems.  Three
>     inch lag screws seem to work better, but can get a bit messy.
>
> 2. Sears Die-Hard 60 amp batteries give lasting performance, but I don't yet have any long
>     distance data.  The chickens so equipped seem to stay near home much more than the
>     chickens with the lighter weight batteries.
>
> 3. Ducks equipped with APRS equipment tend to spend much more time at the bottom of the
>     pond.
>
> AB6NY

I love it thanks for the laugh...made my day...
```

Brad

---

631. Re: [APRSSIG:6213] Eagle AccuNav

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Wed, 24 Jan 1996 14:18:58 -0800
To: aprssig@tapr.org
Message-ID: <3106B052.4797@ecst.csuchico.edu>
Rendered body type: text/plain

```
Tony Flusche wrote:
>
>      Does the Eagle AccuNav function at speeds greater than 100(think
>      aircraft here)? Also what is its altitude ceiling(thinking balloons
>      here)? 73 AB6BR Tony

According to the Eagle Rep and the factory the sky is the limit and
they say speed is somewhere around 999 miles per....I do not know
how accurate this info is I have never tried it, this is just the
info I get from the factory rep. 73 and enjoy..

Brad
```

---

632. Re: [APRSSIG:6235] Re: Why does everyone...

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Wed, 24 Jan 1996 14:27:12 -0800
To: aprssig@tapr.org
Message-ID: <3106B240.1AA1@ecst.csuchico.edu>
Rendered body type: text/plain

```
Peter Markham wrote:
>
> . Why
> >does everyone read something out of my messages that is not there. Do todays
> >shools turn out student's that just can't grasp what is written in a simple
> >message. Jim wake up and start reading the messages with your eyes and not
> >your feelings.
> >Bill KE4EER
> >------------------
>
>    Hello, William.
>
>    At the risk of being pilloried for answering your questions, rhetorical
> or implied, I will answer them. You asked them in this public forum. The
> following is what I "read ... out" of many of you messages. I qualify the
> following as personal opinion, from one who is far from perfect.
>
>    I have followed your writing for approximately a year? and have noticed
> a disturbing trend that you associate with others. You ascribe to others
> your own weaknesses! e.g. intolerance of others perceptions, (objective or
> subjective), strident and aggressive language, poor reading comprehension
> skills, flaming offered suggestions, etc.
>
>    As a reader of the SIG for some time, I get the distinct impression that
> your aggressive and intimidating style of expression would stifle
> contributions from the meeker among us.
>
>    I write this with some regret, for I appreciate your apparent creative
> accomplishments I read about in this SIG. You have appeared to have done
> more than most of us, and whatever my perceptions stated or otherwise, they
> do not
> diminish your achievements in any way.
>
>    Your question, " Why does EVERYONE reads something out of my messages
> that is not there?" should suggest to you there may be something amiss, at home.
>
>    I know you are entitled to your opinions, your share of the rf spectrum,
> the fruits of your labor, and right to remind me that I can do other things
> if I do not like it, but, whatever your accomplishments, they do not justify
> your boorish behaviour.
>
>    Does a HI HI really impart humor to a broadside?
>
>    I will read your response, but for me the topic is closed.
>
>    I apologize to the other readers, but I felt compelled to express a view
> that has been brewing for a long time.
>
>
>    PS. Hello Jim, thanks for the welcome and an alternate view.
```

```
>
>
>                                       Pete, wa4hei
```

God Bless you and Thank you from All Pete, WELL said and A LONG time coming... 73 and the best to you.

Brad

---

633. Retraction

From: Bradley Ambers <brad@ecst.csuchico.edu>
Date: Wed, 24 Jan 1996 14:32:03 -0800
To: aprssig@tapr.org
Message-ID: <3106B363.AA6@ecst.csuchico.edu>
Rendered body type: text/plain

Made a slight error in the Accusport made by Eagle's Speed. Forgot the decimal point and it is knots, not mph. It should have read 99.9 Knots not 999 mph. Sorry about that ole Bill has got me all upset.
73

Brad

---

634. Re: [APRSSIG:6244] Garmin 40/45 power data connector

From: Jess Girard <girard@panix.com>
Date: Wed, 24 Jan 1996 18:09:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960124180132.2064B-100000@panix.com>
Rendered body type: text/plain

On Wed, 24 Jan 1996, Jon T Adams wrote:

```
>       I received in yesterday's post a connector from Larry Berg of Purple
>       Computer in Oregon.  My FREE GPS45 power/data connector!!!
>
>       Tried it out, and it seems to be just fine.  A little heat shrink, a
>       bit of glue, and voila! it will be a fine addition to my cable
>       collection, and at an excellent price.  Free.  A much better price
>       than my official Garmin cable, which cost me ~30 smackeroos.
```

Jon:

I got mine yesterday, too, but haven't been able to find the time yet to play with it. I suggested to Larry that a bunch of locals around here (Fairfield Cty, CT) might be interested in a group purchase if he would care to name a price. He said he'd consider it.

I wish to stress that Larry designed the plug from scratch using CADS, designed and built an injection mold for the plug (!) and then molded a bunch of them, added some pins, then sent them out to whoever asked for them. What a guy!! He deserves some praise.

He didn't know about aprssig, by the way, so I told him as much as I deemed might interest him. He's a ham. He uses GPS for piloting his ultralight. We can only hope some day to see a signal from him on APRS. I don't know if he was serious, but he said he was thinking about flying it to Hawaii (I can only assume he'll use a chase boat... he lives in the Pacific Northwest). Now that would be a signal I'd watch on HF...

73
Jess Girard
ND1L

---

635. U-2000, HSP and AEA Fixes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 24 Jan 1996 18:19:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960124180452.15380A-100000@greatlakes>
Rendered body type: text/plain

I finally tore into APRS74e and still can find nothing that would cause the lockups on some of your machines and not on mine.

I am convinced that all of these problems are related to the 16550 fast UARTs with their built in FIFO buffers. Someone posted how to turn on/off these buffers in your windows setups, but I cant find the message.

If you are having any of the following problems, then please confirm whether your FIFO buffers are on or off, and try it both ways. I dont want to fix something the wrong way that ain't fully broke...

If your U-2000 locks up your APRS
If your HSP will lockup if it doesnt get a VTG
If your fancy TNC gets locked up

After I get your responses, then repairs to 74e will continue.. BUGS already fixed:
1) Space mode anomolies noticed with SPRE
2) OPS-FIND Grid Sq
3) More filters to reject NETROM and other non APRs packets
4) AEA's would not plot 9 character calls!
5) Alternate NWS WX syms are back

If there are any other bugs that you can quantify, or have told me about but are not in the above list, remind me. Thanks...

---

636. Re: [APRSSIG:6240] Re: GPS antennas

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 24 Jan 1996 14:51:01 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"gerry@cs.tamu.edu" <gerry@cs.tamu.edu> (Return requested)
Message-ID: <0476F3106B7D5006*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Gerry sez:

Most designers incorporate a preamp at the antenna to overcome the limitations of the coax they then link the antenna to the receiver with. Since I'm using about 12 inches of RG-174 (really!!) it's not a big issue for me. 15 feet of RG-58 is a big hit, and just a meter of RG-174 shouldn't be done unless you know you're going to lose a lot of signal.

With preamp'd antennas, you get 20-40 dB (Trimble looks to get up to 44 dB!) at the antenna, and can afford to lose some on the way down.

73, gerry

> The major concern that all hams in this SIG should have with any GPS receiver is the ability of that receiver to withstand local high-power transmitters. GPS receivers (at least the ones that I've played with) are not immune to RFI from ham transmitters (see my earlier post).
>
> Adding an preamp in the antenna cuts losses in the downstream coax, but can exacerbate local transmitter interference. (Of course, the internal LNA in the GPS unit can suffer the same effects, but it generally has a poorer antenna and less proximity to the transmitter antenna, so the total interference power is lower.)
>
> There are two primary reasons why this happens: The first is the response of the receiver front end to signals outside of the band of interest. If the amplifier is seeing large, out-of-band signals that steal most of its gain, then the darned thing won't amplify the signal of interest, namely the GPS satellite. It could also be generating mix products inside the preamp transistor or in the GPS receiver itself. These products may also pollute the GPS receiver. Both can be controlled with adequate preselector filtering before the first gain element of the receiver. However, the front ends of many of these GPS receivers employ little more than the antenna as a bandpass filter. They are generally designed without an RF environment in mind (like everything else).
>
> The second primary cause comes from transmitter white noise, spurious signals and harmonics generation. The 11th harmonic of a transmitter at 143.2 MHz is in the middle of the GPS channel. The 7th harmonic of a 225.0MHz transmitter is dead on channel. The 14th harmonic of the 4th subharmonic of a 450 MHz tranmitter is also right on channel, ad infinitum. Generally, none of these harmonics are large in amplitude compared to the carrier (-50 to -90dBC) but in terms of absolute signal level, they're huge compared to the GPS signal. So if it's a starved LNA (gotta keep the power low) the thing could easily get swamped by even a small harmonic.
>
> Transmitters produce white noise. This is thermal noise generated in the transmitter stages that is generally reduced by the output bandpass filter. But if the bandpass filter is not designed for working up to light frequencies, then the filter stops performing somewhere and the transmitter white noise leaks out.
>
> Tranmitters produce non-harmonic spurs. These puppies show up all sorts of

places and can play havoc.

What can you do about the transmitter-generated ones? Well, a GPS receiver bandpass filter can help if it's white noise or off-channel spurs or harmonics. But for the three harmonic examples above, there ain't nothing the receiver can do with a simple filter. You need to put the filter on the transmitter.

What does all this mean? You're not gonna find out any of this info by talking to the salesperson, or generally even a company lackey. Be prepared for some unexpected surprises no matter what your configuration is. Look for external antenna/preamps with some selectivity (out of band rejection). Get folks to improve the design of GPS antennas to make them more narrow band and thus somewhat less susceptible to RFI.

73 - Jon NW6H

---

637. Re: [APRSSIG:6245] Maps WINAPRS?

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Wed, 24 Jan 96 20:08:51 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.822532131.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

> I must have missed something along the way here abt WINAPRS and maps.
> Here is some text from a previous message:
>
<snip>

Sorry for the confusion..

The PC/DOS APRS maps are text files and CAN be created by hand (But who would want to?)

WinAPRS/MacAPRS map files are in binary, Therefore, the load quicker, and the TYPICAL map from the Macintosh is anywhere from 10,000 points to 50,000 points. (The ONLY limitation in size is how much memory you have available)

If you have PC/DOS APRS maps that you like, you can simply put them into the MAPS folder for WinAPRS (or MacAPRS) and when you run the program it will see them and use them..

Also, YOU DO NOT NEED THE MAPLIST file anymore!!!!!!!!

> Perhaps what is being said is that WINAPRS will read the present APRS DOS
> maps, but if you want the nice stuff, you got to use the MacMaps?

This is a good way of putting it...

Also, I have now started putting all NEW maps up on TAPR in ZIP format so that the PC/DOS/Windows people have an easier time at downloading them. (ZIP is easy for the Mac to handle, but STUFFIT (*.SIT files) is tougher for the PC to handle..

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

638. Re: [APRSSIG:6251] Retraction

From: ke4eer@ro.com (William Nolle)
Date: Wed, 24 Jan 1996 19:31:38
To: aprssig@tapr.org
Message-ID: <199601250141.TAA11440@sh1.ro.com>
Rendered body type: text/plain

Wow now i'm even getting the blame for someone making a typo (Just great)

Bill KE4EER

>Made a slight error in the Accusport made by Eagle's Speed. Forgot
>the decimal point and it is knots, not mph. It should have read
>99.9 Knots not 999 mph. Sorry about that ole Bill has got me all upset.
>73
>
>
>Brad
>

---

639. UHF controversy starting again?

From: rwf <rwf@mindspring.com>
Date: Wed, 24 Jan 1996 20:34:54 -0500
To: aprssig@tapr.org
Message-ID: <199601250134.UAA28114@borg.mindspring.com>
Rendered body type: text/plain

To KU0G and the rest of the bunch:

UhOh... I KNOW your message will leak to the frequency coordinator's remailer (there is someone here leaking messages that mention "standard" frequencies). Most of the time the messages just concern mundane stuff like using 56k backbones, etc- but this one will get them stirred up! But that's what you said you wanted to do.

I have a role with a very large coordinator, but it does not include packet. As a matter of fact- that coordinator does not do packet. Packet is handled by the individual states within that region.

This 445.925 subject came up before, and caused quite a stir. As I understand it- it is a repeater input (or pssible output) out West. In our area, I *think* it may be within a high speed 100KHz packet channel(won't be sure 'til I look at the bandplan.)

What I am saying is that we need to explore concepts, not actual frequencies at this point. Once we have our concept, we will need to work with ALL coordinators to decide upon the best frequency to use. To quote a previous message I saw: "445.925 just happens to be clear in a small town in Maryland".

Please don't stir something up that will put all coordinators on the defensive again.

Extensive planning is how Amsat and Mir came up with the frequencies they use, and there are *still* conflicts.

I don't think we should be mentioning specific frequencies at this point!

By the way- I have my APRS hat on as I write ths message, while listening with a coordinator's ear.

---

640. Re: U-2000, HSP and AEA Fixes

From: mark@tetherless.com (Mark Oppenheim)
Date: Wed, 24 Jan 1996 18:13:07 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199601250213.SAA07860@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 05:22 PM 1/24/96 -0600, Bob Bruninga wrote:
>I finally tore into APRS74e and still can find nothing that would cause
>the lockups on some of your machines and not on mine.
>
>   I am convinced that all of these problems are related to the 16550
>fast UARTs with their built in FIFO buffers. Someone posted how to turn
>on/off these buffers in your windows setups, but I cant find the message.
>
....

While I also threw away that message, I did upload a program to the TAPR APRSSIG FTP site called 16550.ZIP

This is a DOS program that will turn on your 16550 buffers, and even detect if you have a 16550 UART installed in your machine in the first place.

Cheers-

Mark (who is looking for a cheap PK-232MBX w/Pactor, BTW)
KD6KQ

---

641. Re: [APRSSIG:6220] Re: DIGITIZERS ...

From: RICKLUTZ@aol.com
Date: Wed, 24 Jan 1996 21:53:40 -0500
To: aprssig@tapr.org
Message-ID: <960124203159_303481717@emout04.mail.aol.com>
Rendered body type: text/plain

you may need to install the digitizer as a mouse prior to making it work with
mapfix or for that mater any program that does not specificaly look for a
digitzer such as autocad. there should be a disk with the unit that allows
this if not let me know and I will see if I can scare one up.

---

642. Re: Why does everyone...

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 24 Jan 1996 21:17:21 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAEAA1.698889A0@lub14.onramp.net>
Rendered body type: text/plain

```
>>Why
>>does everyone read something out of my messages that is not there. Do todays
>>shools turn out student's that just can't grasp what is written in a simple
>>message. Jim wake up and start reading the messages with your eyes and not
>>your feelings.
>>Bill KE4EER
>>------------------



>   Hello, William.
<snip>
>   I have followed your writing for approximately a year? and have noticed
>a disturbing trend that you associate with others. You ascribe to others
>your own weaknesses! e.g. intolerance of others perceptions, (objective or
>subjective), strident and aggressive language, poor reading comprehension
>skills, flaming offered suggestions, etc.
>   As a reader of the SIG for some time, I get the distinct impression that
>your aggressive and intimidating style of expression would stifle
>contributions from the meeker among us.
<snip>
>   Does a HI HI really impart humor to a broadside?
<snip>
>                                     Pete, wa4hei
```

Thanks Pete! I couldn't have said it better!

But Pete, he hasn't been on the SIG for a year... ITS ONLY BEEN
364.93628 DAYS! WHATS THE MATTER WITH YOU? CAN'T YOU
COUNT, OR WERE YOU JUST BROUGHT UP WRONG? <snicker>

I have emailed Bill several times asking him to restrict his personal
differences to private email rather than spewing them onto the sig.
Each time, the responses were thrown back in my face. I think you
are right in saying that he probably stifles contributions from some
of us. Hopefully he'll get the hint and either lighten up or leave.

Larry Griffin AB5GE <largriff@onramp.net>

---

643. Re: [APRSSIG:6250] Re: Why does everyone...

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Wed, 24 Jan 1996 22:31:48 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199601250331.WAA24836@newworld.bridge.net>
Rendered body type: text/plain

```
>>    Hello, William.
>>
>>    At the risk of being pilloried for answering your questions, rhetorical
>> or implied, I will answer them. You asked them in this public forum. The
>> following is what I "read ... out" of many of you messages. I qualify the
>> following as personal opinion, from one who is far from perfect.
>>
>>    I have followed your writing for approximately a year? and have noticed
```

>> a disturbing trend that you associate with others. You ascribe to others
>> your own weaknesses! e.g. intolerance of others perceptions, (objective or
>> subjective), strident and aggressive language, poor reading comprehension
>> skills, flaming offered suggestions, etc.
>>

Amen de Steve KO4HD

---

644. Weather Stations & APRS - Compatibility ????

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 24 Jan 1996 22:54:02 -0700
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil
Message-ID: <199601250554.WAA13734@usr5.primenet.com>
Rendered body type: text/plain

There has been a great deal of discussion about the U-2000 and APRS. Does anyone know if the Davis Instruments Weather Monitor II, coupled with their "WeatherLink" (IBM/Clone Software), will work with APRS?????

The "Station" really looks great, however, I don't want to but it if it can't be coupled and used with APRS with APRS.

Thanks, & 73.....Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

645. Re: [APRSSIG:6262] Weather Stations & APRS - Compatibility ????

From: Sean Smithers <seans@magick.net>
Date: Wed, 24 Jan 1996 22:29:49 -48000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9601242250.B17786-0100000@gp.magick.net>
Rendered body type: text/plain

Unfortunately the Davis Instruments equipment uses a proprietary data format with attendant restrictions and so is not supported by APRS. The Peet Brothers Instruments send data in an ascii format that can be decifered and used by APRS.

==

Sean Smithers
Internet: seans@gp.magick.net
CompuServe: 70132,136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Thu, 25 Jan 1996, Alan K. Unangst wrote:

> There has been a great deal of discussion about the U-2000 and APRS. Does
> anyone know if the Davis Instruments Weather Monitor II, coupled with their
> "WeatherLink" (IBM/Clone Software), will work with APRS?????
>
> The "Station" really looks great, however, I don't want to but it if it
> can't be coupled and used with APRS with APRS.
>
> Thanks, & 73.....Alan
> Alan K. Unangst, WC7R
> E-mail: alanwc7r@primenet.com
> Packet: WC7R @ KB7FRV
>
>

---

646. Re: [APRSSIG:6256] Re: Retraction

From: ke4eer@ro.com (William Nolle)
Date: Thu, 25 Jan 1996 01:35:40
To: aprssig@tapr.org
Message-ID: <199601250745.BAA21709@sh1.ro.com>
Rendered body type: text/plain

I in fact did just that for 3 weeks but received so much support in private e-mail that i decided why should i just because there are a few like your self that insist on posting looong messages like this one was just to flame someone, i feel rather honored that so that there are those like you that spend all this time replying (Flames or not). I told you i have a flameproof suit now so fire away. I won't add the rest of this message and takeup all the bandwidth again. But wish all you want i'm not planning on going away again SORRY.

Bill KE4EER

```
-----------------

>Some weeks ago, if memory serves, you got mad and told everyone that
>you were logging out of the SIG.  At that time I encouraged you to not take
>things so personally and to hang in there.  I'm beginning to think I should
>have kept my mouth shut and minded my own business.
>
>Like Pete said:  I think you make good contribution(s) to the SIG, it's just
>your delivery and apparent attitude that is grinding on everyone.

>If this is goodbye, so be it.  If not, I hope you'll apply your high-standards
>for
>the rest of us to yourself!
>
>73 de Jim, KU0G
>(Mere groveling mortal...)
>
```

---

647. Re: [APRSSIG:6255] Re: Maps WINAPRS?

From: kb7qqq@nwlink.com (Sam Roe)
Date: Thu, 25 Jan 1996 08:17:41 GMT
To: aprssig@tapr.org
Message-ID: <31073c36.63575555@mail.nwlink.com>
Rendered body type: text/plain

```
I have been away from the listserv since  mid November. Is
Winaprs now available and if so where???

Thanks
Sam Roe
kb7qqq@nwlink.com
```

---

648. Re: [APRSSIG:6255] Re: Maps WINAPRS?

From: Dave Kaplan <dkaplan@pionet.net>
Date: Thu, 25 Jan 1996 07:00:42 -0600
To: aprssig@tapr.org
Message-ID: <9601251302.AA30652@ELWOOD.pionet.net>
Rendered body type: text/plain

```
At 07:12 PM 1/24/96 -0600, you wrote:

>If you have PC/DOS APRS maps that you like, you can simply put them into
>the MAPS folder for WinAPRS (or MacAPRS) and when you run the program
>it will see them and use them..
>
>Also,  YOU DO NOT NEED THE MAPLIST file anymore!!!!!!!!!
>
>
>
>> Perhaps what is being said is that WINAPRS will read the present APRS DOS
>> maps, but if you want the nice stuff, you got to use the MacMaps?

So, I now want to start building Maps for WINaprs and stop all my Dos Aprs
map making efforts.  How will I make maps in WINaprs using the 1:2,000,000
CD Rom?  How about the 1:100,000 CD Roms? Can I start making maps for
WINaprs now or are there special programs that I will need comming out with
the release of WINaprs?

Dave
```

---

649. Re: [APRSSIG:6256] Re: Retraction

From: BOB DERDERIAN <n2iph@mci.newscorp.com>
Date: Thu, 25 Jan 1996 08:09:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199601251309.IAA21841@camus.delphi.com>
Rendered body type: text/plain

```
At 07:32 PM 1/24/96 -0600, you wrote:
>Wow now i'm even getting the blame for someone making a typo (Just great)
>
>Bill KE4EER
>------------------
>>Made a slight error in the Accusport made by Eagle's Speed. Forgot
>>the decimal point and it is knots, not mph. It should have read
>>99.9 Knots not 999 mph. Sorry about that ole Bill has got me all upset.
>>73
>>
>>
```

```
>>Brad
>>
>
>
>
```

Bill, I was late for the work yesterday, can I blame it on you also?

Just kiddin...
73...Bob

---

650. RE: [APRSSIG:6262] Weather Stations & APRS - Compatibility ????

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 25 Jan 1996 8:01:29 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960125080129.20410e3b@exame2.dseg.ti.com>
Rendered body type: text/plain

Alan, et al. I have a Davis weather station which I got about a year before
I found out about APRS. The weather station is great, but I think I've seen
Bob B. say that Davis will not release any information about their data
formats and interface - it is "proprietary"! At any rate, I have not even
tried to interfact the Davis station to APRS yet. If anyone has any firmer
information, please speak up!

Davis should look around - seems like essentially every company of late that
tries to hold onto a "proprietary" position gets left in the dust!

73 - Claude
K5DTN

---

651. Re: [APRSSIG:6262] Weather Stations & APRS - Compatibility ????

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Thu, 25 Jan 1996 09:08:50 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960125140850.31172118@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 00:07 1/25/96 -0600, you wrote:

```
>There has been a great deal of discussion about the U-2000 and APRS. Does
>anyone know if the Davis Instruments Weather Monitor II, coupled with their
>"WeatherLink" (IBM/Clone Software), will work with APRS?????
>
>The "Station" really looks great, however, I don't want to but it if it
>can't be coupled and used with APRS with APRS.
>
>Thanks, & 73.....Alan
>Alan K. Unangst, WC7R
>E-mail: alanwc7r@primenet.com
>Packet: WC7R @ KB7FRV
>
```

The Davis is a very fine WX system and I've had one prior to APRS. After APRS
became widespread I called Davis about their interface spec, and they said
it was proprietary and they weren't releasing it. They weren't interested in
pursuing it themselves. Unless something has changed, it's not usable for
APRS. Too bad.

---

652. Garmin vs Eagle Debate

From: Randy Hammock <hammock@tis.telos.com>
Date: Thu, 25 Jan 1996 09:34:39 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SOL.3.91.960125084127.17798A-100000@zentropa>
Rendered body type: text/plain

I though long and hard before sending in a response to the on-going
debate. One must look at the relative merrits of each system and choose
the one that best meets the desired criteria.

Since I planned not only to use my unit for APRS (mobile w/ inexhaustable
power source) but for horseback trail mapping, I needed a unit that was
power efficient, worked with co-ordinates system other than LAT/LON,
supported many different map datums, the ability to remotely mount the
antenna (antenna mounted on top of riding helmet), lots of waypoints,
large track buffer, the ability to up/down-load the track buffer and
waypoints, and reasonable performance in the woods.

```
GPS Unit:               Garmin GPS-45
```

Position Formats: UTM/UPS
British Grid
Irish Grid
German Grid
Swedish Grid
Swiss Grid
hddd.ddddd
hddd mm.mmm'
hddd mm'ss.s"

Map Datums: 105

Units Displayed: Statute
Nautical
Metric

Battery Count: 4 AA

Battery Life: 10-20 hours

Track Buffer: 768 Data points

Waypoints: 250

Routes: 10

NMEA Compatability: YES

Up/Down-load Track Buf: YES/YES

Up/Down-load Waypoints: YES/YES

Up/Down-load Routes: YES/YES

External Antenna: YES

Performance in Woods: Good (w/supplied antenna)

I'm afraid that I cannot fill-in the chart for the Eagle, but I can remember that the Eagle does not support UTM co-ordinates, does not support the use of an external antenna and is a power hog (sucking 6 AA battery dry in 3-4 hours, maybe 6). That makes the Eagle not only more expensive to buy but to operate as well. Not supporting UTM grids makes the Eagle that much more difficult to use in the field, too.

As has been mentioned before by others, the Eagle may be a superior unit running mobile APRS, it is not necessarily the most desirable unit for trekking or horsing around.

--
Randy Hammock KC6HUR | Randy.Hammock@Telos.com
Telos Information Systems - EDOS | hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904
Greenbelt, Maryland 20770 | FAX: +1 301 507-5892

---

653. APRS net

From: WB9WOZ@aol.com
Date: Thu, 25 Jan 1996 09:36:05 -0500
To: aprssig@tapr.org
Message-ID: <960125093604_303802102@emout05.mail.aol.com>
Rendered body type: text/plain

As an experiment, and to stir up more interest in the Chicago area, the DuPage Amateur Radio Club (W9DUP) will be taking check-ins on VHF aprs in conjunction with our regular voice net on 145.25 MHz. The net will start at 0200 UTC (9:00 PM CST) sunday night 1/28/96.
PROCEDURE: Transmit name & QTH to W9DUP
When (and if) you get an ACK back, consider yourself checked in.
HF and VHF station are encouraged to participate. So as to keep qrm to a minimum, VHF stations should send only once or twice (you may not get an ACK).
Show your support for aprs by checking in. I will post check-in totals and calls next week.

Perhaps we just want to show off since Keith and Mark will be here for the public beta release of WinAPRS. Perhaps we just want to see if a cross country net could be done via APRS. Either way, it should be very interesting. Hope to see you on the screen.

---

654. Re: [APRSSIG:6267] Re: Retraction

From: ke4eer@ro.com (William Nolle)
Date: Thu, 25 Jan 1996 11:04:08
To: aprssig@tapr.org
Message-ID: <199601251714.LAA26605@sh1.ro.com>
Rendered body type: text/plain

```
Sure Bob just don't let it happen again you hear Hi.

Bill KE4EER
-----------------
>At 07:32 PM 1/24/96 -0600, you wrote:
>>Wow now i'm even getting the blame for someone making a typo (Just great)
>>
>>Bill KE4EER
>>------------------
>>>Made a slight error in the Accusport made by Eagle's Speed. Forgot
>>>the decimal point and it is knots, not mph. It should have read
>>>99.9 Knots not 999 mph. Sorry about that ole Bill has got me all upset.
>>>73
>>>
>>>
>>>Brad
>>>
>>
>>
>>
>
>Bill, I was late for the work yesterday, can I blame it on you also?
>
>Just kiddin...
>73...Bob
>
```

---

655. Re: [APRSSIG:6255] Re: Maps WINAPRS?

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Thu, 25 Jan 1996 09:37:38 -0800
To: aprssig@tapr.org
Message-ID: <199601251737.JAA11285@ix13.ix.netcom.com>
Rendered body type: text/plain

```
You wrote:

>The PC/DOS APRS maps are text files and CAN be created by hand (But who would
>want to?)
>
>
>WinAPRS/MacAPRS map files are in binary, Therefore, the load quicker, and
>the TYPICAL map from the Macintosh is anywhere from 10,000 points to 50,000
>points. (The ONLY limitation in size is how much memory you have available)

I think I recall seeing mention of a future MacAPRS/WinAPRS capability to use
bitmap (BMP or GIF) maps generated from products like Street Atlas USA.  Is this
still planned?

Jack
```

---

656. Eagle GPS

From: ke4eer@ro.com (William Nolle)
Date: Thu, 25 Jan 1996 11:43:03
To: aprssig@tapr.org
Message-ID: <199601251752.LAA29163@sh1.ro.com>
Rendered body type: text/plain

```
For those still questioning the importance of an external GPS antenna read
this. I was just monitoring Ed's KE4ROC's mobile setting at his work qth parking
lot beaconing with the gps on the dashboard. Some are saying you will get a
natural induced error that will show you a circle of beacons when zoomed in to
his position well i just checked on the distance of his beacon and it was
13 MILES NE of his actual position. Don't think that's normal, or that would
ever happen if he had an external antenna.

Now on another subject for those running Davis WX station, Ed KE4ROC the
same person in the above message has been running a Davis onto APRS for
some time now at his NASA work qth here in Huntsville,AL Ed wrote some
software in C++ for Windows 95 to collect WX information from all WX stations
```

on VHF within reach of stations in our area. Ed is not on this sig, or maybe
just lurking i don't know. You may be able to contact him by snail mail, and
he maybe talked into sharing his software with you. He's a great guy (Gosh i
hope he doesn't see this) but not very active on APRS othger then he has
2 WX stations up and running and also has a 24HR GPS system with laptop.

Bill KE4EER
ke4eer@ro.com

---

657. RE: 16550 probs

From: hwm@netcom.com (heather martin)
Date: Thu, 25 Jan 1996 10:17:15 -0800
To: aprssig@tapr.org
Message-ID: <199601251817.KAA25201@netcom20.netcom.com>
Rendered body type: text/plain

The SMC corp shipped a LOT of defective dual 16550's with a part # of
SMC665, these appeared on both cards and MB's. The failure mode was to lock
up the computer and had something to do with previous data left in the
buffer when enabled. The good news is there is a fix for windows (not sure
about dos) floating arround. The bad news is I can't remember the name.
SMC knowingly shipped these defective parts and I have access to a internal
memo that proves it. Rotten bastards.

Bob - wd6dod
hwm@netcom.com

---

658. Re: [APRSSIG:6273] Re: Maps WINAPRS?

From: sproul@ap.org (Mark Sproul)
Date: Thu, 25 Jan 1996 14:02:03 -0500
To: aprssig@tapr.org
Cc: n4uls@ix.netcom.com
Message-ID: <v02130506ad2d83894574@[165.1.27.20]>
Rendered body type: text/plain

>You wrote:
>
>I think I recall seeing mention of a future MacAPRS/WinAPRS capability to use
>bitmap (BMP or GIF) maps generated from products like Street Atlas USA.
>Is this
>still planned?
>

It was discussed and it was mentioned that we had started this capibility
in MacAPRS, It MIGHT be added in WinAPRS but IF we do it all, it wont be
until the end of the year. At present it is implemented in MacAPRS but not
completely finished. Once it is finished and we determine how useful it
is, then we will consider doing to for WinAPRS.

Mark Sproul - KB2ICI

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

---

659. Re: [APRSSIG:6273] Re: Maps WINAPRS?

From: ke4eer@ro.com (William Nolle)
Date: Thu, 25 Jan 1996 13:18:09
To: aprssig@tapr.org
Message-ID: <199601251928.NAA02626@sh1.ro.com>
Rendered body type: text/plain

Yes Keith i would also like to know more about mapmaking for WinAprs. will
their be any software available for using the current 1:100 K Cd to make bigger
and better local maps. I downloaded the maps you mentioned from Tapr but
didn't see anything in that file that would cover anything local to any of us
here in the South East where there are many many users. I sure wouldn't
want to depend on having to look for somebody with a Mac to make my maps
for me Hi. Sure would love some advanced detail on mapmaking instead of
getting a BIG shock all at once Hi. For one who has made more then 500
detailed maps would like to know.

Bill KE4EER

```
>
>I think I recall seeing mention of a future MacAPRS/WinAPRS capability to use
>bitmap (BMP or GIF) maps generated from products like Street Atlas USA.  Is this
>still planned?
>
>Jack
>
```

---

660. Re: [APRSSIG:6274] Eagle GPS

```
From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 25 Jan 1996 14:55:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601252055.OAA03705@solar.cs.tamu.edu>
Rendered body type: text/plain
```

```
William Nolle sez:
>
> For those still questioning the importance of an external GPS antenna read
> this. I was just monitoring Ed's KE4ROC's mobile setting at his work qth parking
> lot beaconing with the gps on the dashboard. Some are saying you will get a
> natural induced error that will show you a circle of beacons when zoomed in to
> his position well i just checked on the distance of his beacon and it was
> 13 MILES NE of his actual position. Don't think that's normal, or that would
> ever happen if he had an external antenna.

At the risk of getting my ears pealed again...

The location of the antenna is of little consequence IF a sufficient number of
satellites are visible to provide adequate geometry for calculation of a 2D or
3D fix.  Assuming the antenna is located so that at lease 1/2 the sky is
visible, you *should* be able to acquire enough satellites to get at least a
2D position.

If the receiver calculates a position with N satellites (usually 3 for a 2D
fir, 4 for a 3D fix, but your mileage may vary [And, yes, I know that some use
more... but none can use less]) it also calculates a Dilution of Precision, or
DOP number.  This number is unit-less, and is referenced so that a best
solution geometry produces a DOP of 1.0, while a larger number indicates a
poorer geomentry, or goodness of the navigation solution.

In general terms, a DOP <1.0 is meaningless, and a DOP of 0 usually indicates
the receiver is not generating a valid position solution.

Common mode system errors in the receiver, the various spacecraft and the
groundstations conspire to reduce the precision of the position soution.  In
the best of circumstances, using C/A (L1) code, which is what most of us use
with the consumer-grade hardware, you can hope for an error of 5-15 meters for
a short term position fix.  Averaging over a longer period should improve the
solution, as common mode, non-induced error is random and approximating a
Guassian distribution.  An average over a period of 1023 seconds, with good
satellite geometry throughout, should yield a position solution with an error
of 0.5-1.5 meters (1 order of magnitude better).  All of this assumes that
Selective Availability is _NOT_ operating, and no attempts are made to degrade
teh constellation or its performance.

In short term position solutions, the appearance will be that the vehicle is
wandering about a point, although it will usually be a small area of
migration.  Or, in other words, even with SA off, the vehicle will appear to
wander about an error ellipse (NOTE: A circle is a special case of an
ellipse.).

When the DoD incurs Selective Availability, they attempt to deceive the GPS
receiver by telling the satellites to report a different GPS time and/or a
different set of instantaneous positioning data, by modifying the satellite
ephemeris data.  The net result of this is that the position solution derived
from a set of satellites affected by SA is to increase the apparent degree of
position error to between 30 meters and 100 meters, 95% of the time.  By its
nature, SA causes the error to wander in some direction over a time interval
of several to many seconds, but not to necessarily exactly reverse its course,
and pass back through a true solution matrix possibility.

Unlike the non-perturned GPS signal, SA-perturbed position solutions cannot be
refined by simple averaging.  Application of a digital filter, such as that
described by Kalman, is usually required to remove the noise associated with
the techniques used by SA to achieve data that can be tracked in that manner.

The error ellipse resulting from an SA-perturbed position solution is
significantly larger than that derived from an unperturbed solution.  Further,
```

by its nature it will only appear symmetrical over a long period of time, of say, 24 to 48 hours duration.

One of the complications one encounters when one has an inadequate antenna situation is that of multipath. In some instances, a signal may reach the antenna after having taken the "long way around" reflecting off one or more surfaces, rather than coming directly to the antenna. This delay may well be long enough to cause some induced error in the position solution. Further, in some instances, the signal may reach the antenna after multiple reflections, and find itself getting there several times, and out of phase. The resulting confusion to the receiver can cause a myriad of problems in the solution matrix.

An error of 13 miles is not consistent with a GPS receiver which meets ICD-GPS-200 specs receiving satellites and having adequate satellites visible to achieve a solution. It would seem more likely to have been an error of telemetry: The TNC saw the wrong data or dropped a bit accidentally.

73, gerry

---

661. Making Tracks

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 25 Jan 1996 15:30:26 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad2da568273c@[199.1.11.120]>
Rendered body type: text/plain

Making Tracks

One of the things we all learn when using APRS for a special service event is the importance of have a route map of the course, even if you did have a street level map you will still need a way to show the public the expected route.

I want to share with you the three general GPS ways to make a track map and another simple way that is often overlooked.

---

1. Beaming the data from a remote GPS tracker to a home APRS system and using the log/HST file to plot the route.

2. Raw NMEA GPS data direct to a portable computers disk file. This can generate LOTS of Data (Over one Meg. per Hour !)

3. TNC GPS track log data that is stored in a KPC-3 or others GPS TNC's. You will need extra RAM in the TNC as the default is about 17K

4. Garmin-40/45 or Eagle GPS built in track log file. All you need is the GPS, just set the data collection rate.

See the end of this report for samples of GPS/APRS data you can expect from each process and what equipment you will need.

Making tracks using only a GPS unit:

Tables A and B show the amount of data you can expect to collect at different sample rates for two type of GPS units.

You might get all the data you need using the automatic mode of a Garmin 40/45 but the data rate is variable and when the track log is full it starts erasing the oldest data points.

Once you have collected and dumped the GPS data into your PC a few quick touch ups with your text editor will produce a log file for use with APRS.

TABLE-A

Garmin 40/45 LOG Capabilities;

Sample Rate	Sec	Min	Hr	Day
1 per sec	768	12.8		
1 per 5 sec	3840	64	1.1	
1 per 10 sec	7680	128	2.1	

1 per 15 sec	11520	192	3.2	
1 per 20 sec	15360	256	4.3	
1 per 30 sec	23040	384	6.4	
1 per 45 sec	34560	576	9.6	
1 per min	46080	768	12.8	
1 per 1.5 min	69120	1152	19.2	
1 per 2 min	92160	1536	25.6	1.1
1 per 2.5 min	115200	1920	32.0	1.3
1 per 3 min	138240	2304	38.4	1.6
1 per 5 min	230400	3840	64.0	2.7
1 per 10 min	460800	7680	128.0	5.3
1 per 15 min	691200	11520	192.0	8.0
1 per 20 min	921600	15360	256.0	10.7
1 per 30 min	1382400	23040	384.0	16.0
1 per hour	2764800	46080	768.0	32.0

Garmin 40/45 LOG Capabilities based on 768 Points and
using a set interval for logging. ##NOT the automatic mode##
To use the above table choose only ONE column

*** Garmin Information from
*** MacBob1240@aol.com (Robert C. White)

TABLE-B
=======
Eagle Accunav's plotter screen logs:

Update Rate	Savable Trail Time (Total)
1 second	33 minutes
2 seconds	1 hr 6 minutes
5 seconds	2 hrs 44 minutes
10 seconds	5 hrs 26 minutes
20 seconds	10 hrs 52 minutes
1 minute	32 hrs 38 minutes
2 minutes	2 days 17 hrs 16 minutes
5 minutes	6 days 19 hrs 10 minutes
10 minutes	13 days 14 hrs 20 minutes

Up to 5 plotter trails can be saved in memory,

The following is the actual data produced my each process.
==

Garmin-45 Internal Track File Dump: (Using MacGPS)

Equipment: GPS unit

```
---------------------------------------------------
Format: DMM  UTC Offset:  -6.00 hrs  Datum[100]: WGS 84
T       12/26/1995 13:44:28     31°21.504'      -97°13.103'
T       12/26/1995 13:44:42     31°21.321'      -97°13.143'
T       12/26/1995 13:44:54     31°21.160'      -97°13.176'
```

Garmin-45 raw NMEA ASCII output to a computer comm program:
(One Set each 2 Sec at 4800 Baud)

Equipment: Remote Computer + GPS unit

```
-----------------------------------------------------------
$PGRMM,WGS 84*06
$GPRTE,1,1,c,0*07
$GPRMC,033216,A,3249.854,N,09641.940,W,035.6,322.7,020895,,*0A
$GPRMB,A,,,,,,,,,,,,V*71
$GPGGA,033216,3249.856,N,09641.942,W,1,05,1.7,122.9,M,-24.8,M,,*7F
$GPGSA,A,3,01,,14,15,20,21,,25,,,,,2.9,1.7,2.3*38
$GPGSV,2,1,08,01,47,047,50,05,05,039,00,14,09,313,41,15,37,286,48*74
$GPGSV,2,2,08,20,27,074,39,21,45,124,45,23,10,128,00,25,77,218,43*7B
$PGRME,39.4,M,53.5,M,66.4,M*17
$GPGLL,3249.857,N,09641.946,W,033216,A*3A
$PGRMZ,402,f,3*1D
```

KPC-3 TNC Internal Track File Dump: (GGA and RMC)

Equipment: TNC + GPS unit

```
----------------------------------------------------------
$GPGGA,153247,3247.983,N,09649.204,W,1,03,5.0,178.7,M,-24.7,M,,*71
$GPRMC,153247,A,3247.983,N,09649.204,W,000.0,357.8,170695,,*08
```

Mac APRS log file:

Equipment: Computer/TNC/Radio + Remote GPS Tracker

```
--------------------------
KC5EJK-12>RELAY>RELAY*>APRS:$GPRMC,152936,A,3250.767,N,09645.636,W,019.8,094.4,091295,,*05
KC5EJK-12*>RELAY>RELAY>APRS:$GPRMC,153036,A,3250.695,N,09645.166,W,004.5,121.4,091295,,*0D
```

PC APRS HST File:

Equipment: Computer/TNC/Radio + Remote GPS Tracker

```
--------------------------
KC5EJK-12 101215 @101817z3248.83N/09645.29Wj275/012/raw*/good RMC Fix
KC5EJK-12 101221 @101822z3247.69N/09646.98Wj314/023/raw*/good RMC Fix
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

662. Re: [APRSSIG:6276] Re: Maps WINAPRS?

From: Mike Musick <71301.3106@compuserve.com>
Date: 25 Jan 96 17:56:06 EST
To: <aprssig@tapr.org>
Message-ID: <960125225605_71301.3106_FHJ113-2@CompuServe.COM>
Rendered body type: text/plain

<<bitmap maps... Once... we determine how useful it is>>

Mark -

Maps in image form are extremely useful; it's my opinion that the "stick maps" which are currently the standard in all of the APRS apps are make-do, and present poorly to non-hams such as found in public service events. The map quality problem is also a resistance point to another ham niche interest, foxhunting. I've been using MacAPRS for foxhunt plotting for several months now, and the first comment after "Wow!" when I show other hunters the display is always "Doesn't it have a better map?" In both cases I'd like to not have to apologize for the maps.

The development environment you're using for Mac and Windows (Code Warrior?) should easily have the means to support this. I now know what it takes to ResEdit the resource fork to get PICT maps to display, but the image and coordinate distortion problem vs. the window size makes the end result less than usable. Personally, I wish that y'all would finish the feature and let us get some real-world use out of it.

A suggestion - maybe you ought to abandon PICT and use GIF instead. It makes porting to Windows a little easier.

Also, PICT captures from StreetAtlasUSA aren't the only source of images. I've been pulling GIF images from the TIGER mapping website, which allows more control over features displayed and map size. I could mention scanning of printed maps, but, of course, the map copyright gods may smack me senseless, so I won't say anything. ;-)

IOW, bitmap maps are useful, available, and needed... and the next logical step for APRS!

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.4f on an HP200LX palmtop

---

663. New Address

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 25 Jan 1996 17:19:46
To: aprssig@tapr.org
Message-ID: <9601252322.AA12889@foo.garply.com>
Rendered body type: text/plain

For those wanting to contact me (Or send Flames hi) i have a new intenet address again.

Bill KE4EER
ke4eer@airnet.net

664. RE: 16550 prob

From: hwm@netcom.com (heather martin)
Date: Thu, 25 Jan 1996 15:51:18 -0800
To: aprssig@tapr.org
Message-ID: <199601252351.PAA29202@netcom3.netcom.com>
Rendered body type: text/plain

```
For those of you using the smc665 (broken dual 16550 chip),I have uploaded
smc.zip to ftp.tapr.org/tapr/SIG/aprssig/upload. This may elimate the lockups
most but not all of the time.                             ^eliminate - oops
```

Bob - wd6dod
hwm@netcom.com

665. New Map Editing Program...

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Thu, 25 Jan 1996 16:04:34 -0800
To: aprssig@tapr.org
Message-ID: <v01520d00ad2d5625dbeb@[129.131.31.10]>
Rendered body type: text/plain

Hi all!

I've put together a new APRS map editing program called MapEdit. Currently all it does is edit maps that have been previously created, however, it can manipulate everything on an APRS map. It is mouse-driven, with a full graphical user interface and a toolbar (like PhotoShop) for picking out the various editing tools. I plan on adding USGS DLG file reading, as well as support for the higher res MacAPRS/WinAPRS map format.

MapEdit was written in the scripting language Tcl/Tk (tickle). While Tcl/Tk has been ported to the Windows and Macintosh platforms, I have not run it on anything but UNIX workstations (SGI and SUN) and a PC running LINUX. So, to use MapEdit, you will probably need a Unix workstation with the Tcl/Tk interpreters installed. Sorry, but I have much faster computers to play with at work than at home :-)

If you are interested please visit my Web site at:
  http://www1.ridgecrest.ca.us/~jan/me/
The web site has some pictures and a better explanation of what you need to run MapEdit.

For those wanting to port APRS to a UNIX platform, you may want to take a look at this!

73, jan
kc6uth

```
 Jan Anthony Barglowski       Phone:  (619) 927-1057
 Computer Graphics Dude       Internet: jan@vislab.navy.mil
 VisLab, China Lake           Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA
```

666. Re: Differential GPS correction via APRS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jan 1996 19:46:01 -0500 (EST)
To: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960125193703.4576B-100000@greatlakes>
Rendered body type: text/plain

APRS has had pseudo differential built in for almost a year now. It is only turned on in the commercial version. It is the same as standard APRS, but at a fixed site you plug a GPS into your 2nd serial port. THen enter your KNOWN exact position. THen activate pseudo diferential correction. APRS will constantly monitor the local GPS and subtract the error from all incoming posits. In addition, it has a little vector display up by the cursor box that shows you the current error vector.

I have not announced this because:
1) I see no use for that kind of accurracy in amateur radio
2) The jury is still out as to whether it has any value, since theoretically it will only work if your GPS unit is using the SAME

```
satellites for the fix as the mobile is using...
3) It would just generate a lot of questions and nitpicking over accuracy
that no current maps can provide (unless you buidl them yourself from GPS
track historys
4) I promised PacComm that they could use it for 6 months before I
announced it in APRS.
5) I would want to charge more for it, hi hi. but get a lot of negative
criticicism about all my nickle-&-dime options already.

If someone wants to seriously beta test this capability, lemme know....
```

---

667. Re: [APRSSIG:6279] Making Tracks

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jan 1996 19:57:26 -0500 (EST)
To: Robert Winingham <kc5ejk@onramp.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960125195510.4576D-100000@greatlakes>
Rendered body type: text/plain

```
YOu left out plugging your GPS into your laptop
and letting APRS save a track history.

This gives you the sampling rate which is adjsutable in APRS without the
errors of lost packets transmitted over the air, and without the bother
of a radio and TNC...

The track history can be played directly into MAPFIX for drawing a map.
NO file conversions are needed.
```

---

668. Re: [APRSSIG:6280] Re: Maps WINAPRS?

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Thu, 25 Jan 1996 16:59:54 -0800
To: aprssig@tapr.org
Message-ID: <199601260059.QAA06518@aretha.llnl.gov>
Rendered body type: text/plain

```
> From: Mike Musick <71301.3106@compuserve.com>
>
> <<bitmap maps... Once... we determine how useful it is>>
>
> Mark -
>
> Maps in image form are extremely useful; it's my opinion that the "stick maps"
> which are currently the standard in all of the APRS apps are make-do, and
> present poorly to non-hams such as found in public service events. The map
> quality problem is also a resistance point to another ham niche interest,
> foxhunting. I've been using MacAPRS for foxhunt plotting for several months
> now, and the first comment after "Wow!" when I show other hunters the display
> is always "Doesn't it have a better map?" In both cases I'd like to not have to
> apologize for the maps.

The problem in APRS (or at least MacAPRS, which is all I know) is not
precomputed image maps vs. maps drawn on the fly from point data.  The problem
is that the current map data and the current map drawing software are very
limited and only produce simple, fixed format maps which are not suitable for
variable resolution viewing.  The current software is also slower than need be,
because it uses very simple drawing algorithms.

Maps drawn on the fly can be superior in detail and flexibility in what
features to present and how to present them.  Precomputed maps are superior
only when you already have a map generated exactly for your purpose and
location, and then it is superior only in speed of drawing and size of storage.

There is no real reason why drawn on the fly maps in APRS could not have solid
color filled areas, representing land, water, political boundries, parks,
forests, urban areas, mountains, or whatever.  Railroads could have little tick
marks, highways could have little signs, different boundries could have
different line styles, elevation could even be displayed as contour lines, each
type of feature could be switched on or off, the color for each type of feature
could be user selectable.  Different levels of detail can be present in the
same map so that zooming in shows more and zooming out simplifies the view.

It is not really necessary that all the data for the maps be loaded into memory
all the time, provided a more efficient storage structure existed on disk so
that it was fast to get the data you needed.  Professional cartography software
has been dealing with this sort of thing for decades.

Of course if there were a general extension mechanism where user supplied code
could be substituted for the built in APRS modules, then someone else might
```

write a really cool map generating extension that had all these features...

Chuck

669. Re: [APRSSIG:6237] Re: Altitude

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Thu, 25 Jan 1996 20:23:46 +0000
To: aprssig@tapr.org
Message-ID: <199601260125.UAA00960@hemisphere.neocomm.net>
Rendered body type: text/plain

```
> On Wed, 24 Jan 1996, Mike Walker wrote:
>
> > I was playing with the 3D window, ....
> > Question is, what sentance do I look for with my KPC3 so I send altitude?
> >
> > While in the Y screen, I will decrease the altitude to a max of 2000 ft (with
> > the F3 key).  If I redraw the screen with the space bar, the altitude scale
> > will reset to its original scale, and I have to move it down again.
>
> WB4APR REPLY COMMENT:
>
> APRS only gets altitude if it sees a GGA sentence...
>
It would be interesting to see a GGA sentence from all base stations.
Could this data be put into beacon text? If so mobiles could also add
this information when wanted. (My Magellan displays altitude but does
not send it out in the NMEA sentence. I would really enjoy being able
to use the 3D function with information from all stations!!! Is there
any other way an aprs station can post this info periodically ?



cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM
```

670. USGS CD-ROM currency

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Thu, 25 Jan 1996 20:44:42 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad2df0491e38@[204.181.160.4]>
Rendered body type: text/plain

How current is the data for roads on the USGS CD-ROM?

If this varies by Section, how about South Texas?

Ron W5RKN

also:
rparsons@bga.com

671. Re: Differential GPS correction via APRS?

From: Larry Griffin <largriff@onramp.net>
Date: Thu, 25 Jan 1996 21:26:16 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAEB6B.C57DE460@lub14.onramp.net>
Rendered body type: text/plain

Bob wrote:
>If someone wants to seriously beta test this capability, lemme know....

Bob, I'd like to help with that.
I've got two identical Motorola Oncores.

Larry Griffin AB5GE <largriff@onramp.net>

672. Re: [APRSSIG:6268] RE: Weather Stations & APRS - Compatibility

From: "Brent Bolen" <ke6jgn@garlic.com>
Date: Thu, 25 Jan 1996 20:51:21 +0000
To: aprssig@tapr.org
Message-ID: <9601260451.AA25882@garlic.com>
Rendered body type: text/plain

```
Claude,et al.  Several months ago I sent both Bob B. and the MacAPRS
brothers the Davis interface protocol that I figured out.  Bob wrote
back to say that there was not room in PC-APRS, so it wouldn't be
added in the forseeable future.  I never did hear back from the
brothers Sproul.

Brent
ke6jgn@garlic.com

If its not a Border Collie,
its just a dog.
```

---

673. Re: [APRSSIG:6254] Re: GPS antennas

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 26 Jan 1996 00:02:41 -0600
To: aprssig@tapr.org
Message-ID: <199601260602.AAA29639@sys1.tapr.org>
Rendered body type: text/plain

```
At 05:59 PM 96-1-24 -0600, you wrote:
>
>Gerry sez:
>
     The major concern that all hams in this SIG should have with any GPS
>     receiver is the ability of that receiver to withstand local high-power
>     transmitters.  GPS receivers (at least the ones that I've played with)
are

        Hope everyone saw this message I've experienced from time to time,
using my toy's in a standalone tracker, my Garmin 45 dropping all the
satellites when the radio transmit's,. It took some playing with antenna
placement to cure.
        Another problem I've had is high noise levels on the vhf radio. What
I founf was CPU RF from the TNC was sneaking in on the mike line. I cured
that with and RF choke I stole off an audio cable for a cdrom.
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

674. Re: [APRSSIG:6290] RE: Weather Stations & APRS - Compatibility

From: Jerry Rector <jerryr49@magg.net>
Date: Fri, 26 Jan 1996 01:41:41 -0500
To: aprssig@tapr.org
Message-ID: <310877A5.7A7F@magg.net>
Rendered body type: text/plain

```
Brent Bolen wrote:
>
> Claude,et al.  Several months ago I sent both Bob B. and the MacAPRS
> brothers the Davis interface protocol that I figured out.  Bob wrote
> back to say that there was not room in PC-APRS, so it wouldn't be
> added in the forseeable future.  I never did hear back from the
> brothers Sproul.
>
> Brent
> ke6jgn@garlic.com
>
> If its not a Border Collie,
> its just a dog.

Brent:
   If you still have the Davis protocol scheme available, I would
   sure like to see what I can do with it with my units.
thanx, and 73,
Jerry, KB4OAM
jerryr49@magg.net
```

---

675. Re: [APRSSIG:6285] Re: Making Tracks

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 26 Jan 1996 02:47:35 -0600
To: aprssig@tapr.org
Message-ID: <v02130504ad2e3b1551af@[199.1.11.113]>
Rendered body type: text/plain

>YOu left out plugging your GPS into your laptop
>and letting APRS save a track history.

Correct - That is the number one solution and the first I tried
with both the MAC and PC version of APRS.

But I am now learning how to delegate

"Here, take this GPS unit and put it on your dash,
drive the route, turn it off and bring it back."

I might not get my portable computer back :-)

It is also a pain setting the portable computer
up in the car.

The formatting of my Making Track report E-mail got parsed
by the TAPR mailer. My forwarded copy to myself via
ONRAMP.NET mailer did not have the lines wraped or
the hex codes for the equal sign. If anyone wants a
a better copy send private e-mail.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

676. Re: Altitude

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 26 Jan 1996 02:49:05 -0600
To: aprssig@tapr.org
Message-ID: <v02130503ad2e39b0fdb7@[199.1.11.113]>
Rendered body type: text/plain

>It would be interesting to see a GGA sentence from all base stations.

my Garmin-45 is showing Altitude 826 Ft + - 292 Ft
With 5 Sat so I am somewhere between 500 ft and 1100 +- SA

Gerald Creager has posted about GPS Altitude accuracy.

We would be better off with a plastic coke bottle wrapped with a
strain gauge and corrected for local pressure. :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

677. GPS altitude

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 26 Jan 1996 03:28:58 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad2e4eb5ee16@[199.1.11.113]>
Rendered body type: text/plain

>From "A GPS FAQ ver 5.0"

2.3 Why does the reported altitude vary so much?

Primarily due to satellite geometry. To get the most accurate
altitude, you should use satellites that are nearly overhead.
However, the satellites are more likely to be nearer the horizon,
and a receiver will likely choose satellites nearer the horizon in
the interests of getting a more accurate horizontal position,
since that is what most navigators are interested in. The error
in altitude is typically about 1.5 times the horizontal error.

The altitude may also _appear_ to vary more than the horizontal
position, since it is given in "normal units" (feet or metres).
Also, particularly for those of us at sea level, the real altitude

```
      is probably known better than the lat/long, making the error more
      obvious. (I know the altitude of my boat is 0 +/- tides. When the
      GPS shows an altitude of 200 ft (or -150 ft) I _know_ it is
      wrong!)
-----


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

678. W7LUS Digi

From: Peter Gross <w7lus@internetMCI.COM>
Date: Fri, 26 Jan 1996 04:33:51 -0500
To: vhf/hf <aprssig@tapr.org>
Message-ID: <01I0GBWYWT4I95TPJA@MAIL-CLUSTER.PCY.MCI.NET>
Rendered body type: text/plain

```
-- [ From: Peter Gross * EMC.Ver #2.3 ] --

Just stopped at the home qth for a good 8 hour sleep break and found the hf
antenna hanging. This time instead of the rope holding the ant breaking,
the wire itself broke. I won't have the time for a repair until I get back
home. Hopefully that'll be within a couple of weeks.

Sri for the undependability but that is the best I can do. If you haver any
comments you may forward them to JOe Lowey, KB4FO. He gets on the sig so
you may have his address in your database. I don't recall his address. I am
intouch with JOe several times a week.

Been on vhf continuously from the 18 wheeler except for when I forget to
turn it on. For some reason when I turn the trucks ignition off it glitches
the Zenith laptops power supply. Shortly there after the laptops power
light goes red indicating a low battery. I doubt the 4 - 180 amp hour truck
batteries are low  but there must be something that occurs when I turn the
switch off that makes the laptop think so. So  whenever I turn the truck
off, which isn't very often, I have to remember to first tend to the laptop,
, then of course remember to do it all over again when I start the truck. I
don't think the samething happens when I start the truck but I don't like
all those surges on the laptop so I make sure it is off before an engine
start. The engine is computer controlled, I hear several relays when I turn
on the ignition. No battery used on the laptop and it is wired direct to
the batteries. I really donm't get it!

Well I am having some difficulty deciding which to purchase first, an hf
rig, at abt $1500+ w/ant, or a digital tv system for abt $900! I am, at
least, ready to purchase one or the other very soon! Which do you think
I'll get more enjoyment out of? hi hi!

I believe the Atlanta area is beginning to be more populated on vhf Aprs
then anywhere else in the country now. We can thank, Ralph, N4NEQ, for his
hard work and much equipment for that. So the main areas are still, south
FL and area around the NY, CT, NJ, MD area as well as Atl.

I thank all the qso's and messages left in w7lus-11 while on the road
throughout the country. I hope someday there'll be alot more vhf Aprs all
over. I believe if Bob, WB4APR, would finish the device for mobile voice
repeaters that this would kick off an interest for every voice repeater
user. Hurry it up Bob, many of us are waiting, many of us unknowingly!

73 - Peter
```

---

679. RE: [APRSSIG:6272] Re: Retraction

From: "Towers, Donald F." <dtowers@immcms1.redstone.army.mil>
Date: Fri, 26 Jan 96 06:49:00 CST
To: aprssig <aprssig@tapr.org>
Message-ID: <31077CBB@immcmail.redstone.army.mil>
Rendered body type: text/plain

```
Wait Wait Bill Can't take all the flamming i Did it to
thanks
don KD4YNG don's aprs on line SSW FARLEY HSV
 ----------
From: aprssig
To: aprssig
Subject: [APRSSIG:6272] Re: Retraction
Date: Thursday, January 25, 1996 11:17AM

Sure Bob just don't let it happen again you hear Hi.
```

Bill KE4EER

>At 07:32 PM 1/24/96 -0600, you wrote:
>>Wow now i'm even getting the blame for someone making a typo (Just great)
>>
>>Bill KE4EER
>>------------------
>>>Made a slight error in the Accusport made by Eagle's Speed. Forgot
>>>the decimal point and it is knots, not mph. It should have read
>>>99.9 Knots not 999 mph. Sorry about that ole Bill has got me all upset.
>>>73
>>>
>>>
>>>Brad
>>>
>>
>>
>>
>
>Bill, I was late for the work yesterday, can I blame it on you also?
>
>Just kiddin...
>73...Bob
>

---

680. Chance encounter- APRS simplex

From: rwf <rwf@mindspring.com>
Date: Fri, 26 Jan 1996 08:16:09 -0500
To: aprssig@tapr.org
Message-ID: <199601261316.IAA10025@borg.mindspring.com>
Rendered body type: text/plain

Reading W7LUS's message reminded me of my recent "Close Encounter of the
APRS Kind". I meant to relate it but had forgotten until now.

I've been on an extended road trip in Florida and will be for another month
or so.   I was in the sleepy town of Brooksville FL on Monday, Tuesday, and
Wednesday.

As i headed back towards I-75 for the trip South to Tampa, I was musing
about the lack of APRS coverage anywhere in GA South of Atlanta and all the
way to Tampa FL (about 480 miles).

All of a sudden the laptop beeped and I looked over at it. I was about to
run head-on into W7LUS-?. Well at least that is how it looked on my map.
His heading indicator was pointed NE and mine S and our speeds were high
enough to only allow me to send 1 message and get an ACK. I never saw a
message from him.

All the rest of the way down to Tampa I watched the stuff from Kevin in St
Pete and eventually was able to hit the Tampa Digi (pretty deaf).

It just goes to show you that you never know who you'll run into when
operating *VHF simplex* (no digi) mobile APRS.

Ralph N4NEQ

BTW if you see n4neq-9, msg me or email me here letting me know I at least
got thru a GATE somewhere. Gotta give ole' Bill something to watch on HF. ;-)
GATEing on 30 M is difficult down here right now due to the GATEFL 80 meter
experiment being done by Rich and Kevin. Thanks Kevin for leaving 30 M on
for a while tho-

---

681. Re: Differential GPS correction via APRS

From: jack swift <jswift@up.net>
Date: Fri, 26 Jan 1996 08:23:00 -0500
To: aprssig@tapr.org
Message-ID: <9601261327.AA22984@btc1>
Rendered body type: text/plain

At 06:55 PM EST 1/25/96 -0600, Bob Bruninga wrote:
>APRS has had pseudo differential built in for almost a year now.
>I have not announced this because:
>1) I see no use for that kind of accurracy in amateur radio
>
        my intended use of aprs in ares support of the local search and
rescue team would be facilitated by this feature. we usually foot-search

```
1-square-mile areas individually. in all our search areas there are a lot of
old logging roads which often are quite close together. having the ability
to tell which of the three parallel roads 100 yards apart is being searched
is invaluable. vectoring a medical team to the subject is much easier when
we can tell them which road to use at each fork.

>2) The jury is still out as to whether it has any value, since
>theoretically it will only work if your GPS unit is using the SAME
>satellites for the fix as the mobile is using...
>
        i would believe that having units in that close proximity with the
tree cover problems would cause them to primarily utilize the most nearly
overhead sattelites. in addition, we are sufficiently north (47) that our
coverage is more limited than other people.

>3) It would just generate a lot of questions and nitpicking over accuracy
>that no current maps can provide (unless you build them yourself from GPS
>track historys
>
        one of the prime things in a search is relative locations between
two units. having an automatic map plot of the locations is much more
convenient than doing it manually on a topo. it would be nice if we could
add (temporary?) lines to the map while running the program....

>5) I would want to charge more for it, hi hi. but get a lot of negative
>criticicism about all my nickle-&-dime options already.
>
        people are willing to pay for something of value. i have a number of
programs where the vendor wants to charge for upgrades which are only
bug-fixes. in these cases, i am running versions as much as 8 years old (and
4 full upgrades old). if they don't have a use for the option, they can sit
down and shut up. if the option is necessary then price is no option. most
things are in the middle and we have to decide if our desire matches the
price - but your 'prices' so far have been so cheap that only a professional
bitcher would quibble.


>If someone wants to seriously beta test this capability, lemme know....
>
        i wish i could be able to beat this up, but we can't afford enough
gps's. of course, we seem to be short a couple of weekends, too.....
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

682. Re: [APRSSIG:6284] Re: Differential GPS correction via APRS?

From: "Richard L. Holbert" <rholbert@rcinet.com>
Date: Fri, 26 Jan 1996 09:04:34 -0500
To: aprssig@tapr.org
Message-ID: <m0tfolT-00029eC@dmapub.dma.org>
Rendered body type: text/plain

```
Bob,

I know of at least three offices at ARINC that would love to beta test this
feature.  We have GPS labs in Dayton, Colorado Springs, and San Diego.  The
Colorado Springs lab has a GPS reference station and Dr. Wang at the San
Diego office is working on systems to provide differential error corrections
to within 2 centimeters for aircraft navigation and landing systems.

At 06:55 PM 1/25/96 -0600, you wrote:
>APRS has had pseudo differential built in for almost a year now.  It is
>only turned on in the commercial version.  It is the same as standard
>APRS, but at a fixed site you plug a GPS into your 2nd serial port.  THen
>enter your KNOWN exact position.  THen activate pseudo diferential
>correction.  APRS will constantly monitor the local GPS and subtract the
>error from all incoming posits.  In addition, it has a little vector
>display up by the cursor box that shows you the current error vector.
>
>I have not announced this because:
>1) I see no use for that kind of accurracy in amateur radio
>2) The jury is still out as to whether it has any value, since
>theoretically it will only work if your GPS unit is using the SAME
>satellites for the fix as the mobile is using...
>3) It would just generate a lot of questions and nitpicking over accuracy
```

>that no current maps can provide (unless you buidl them yourself from GPS
>track historys
>4) I promised PacComm that they could use it for 6 months before I
>announced it in APRS.
>5) I would want to charge more for it, hi hi. but get a lot of negative
>criticicism about all my nickle-&-dime options already.
>
>If someone wants to seriously beta test this capability, lemme know....
>
>
>

Rick Holbert

```
Ham:   KB8DNR
Work:  rholbert@arinc.com
Home:  rholbert@rcinet.com
WWW:   http://www.dma.org/~holbertr
```

---

683. GPS

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 26 Jan 1996 08:34:05
To: aprssig@tapr.org
Message-ID: <9601261436.AA31334@foo.garply.com>
Rendered body type: text/plain

Anyone using the new GPS-31 TracPak, looks like a great way to build a
standalone tracker.

Tracks 8 satellites
NMEA 0183
RS-232
RTCM-104
10-30V
2.23"x3.8"x1.04"
Waterproof
$299

Bill KE4EER
ke4eer@airnet.net

---

684. Re: [APRSSIG:6292] RE: Weather Stations & APRS - Compatibility

From: sproul@ap.org (Mark Sproul)
Date: Fri, 26 Jan 1996 10:10:14 -0500
To: aprssig@tapr.org
Cc: ke6jgn@garlic.com
Message-ID: <v02130503ad2e9f05c327@[165.1.27.20]>
Rendered body type: text/plain

>Brent Bolen wrote:
>>
>> Claude,et al. Several months ago I sent both Bob B. and the MacAPRS
>> brothers the Davis interface protocol that I figured out. Bob wrote
>> back to say that there was not room in PC-APRS, so it wouldn't be
>> added in the forseeable future. I never did hear back from the
>> brothers Sproul.
>>
>> Brent
>> ke6jgn@garlic.com
>>

We will be adding it, just have not had time to work on it because of
WinAPRS. Sorry we did not respond to you, I thought keith had.

Mark

```
_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
_________________________________________________________________________
```

---

685. Re: [APRSSIG:6301] GPS

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 26 Jan 1996 10:47:12 -0500

To: aprssig@tapr.org
Message-ID: <199601261546.KAA23072@sun.lssu.edu>
Rendered body type: text/plain

```
>Anyone using the new GPS-31 TracPak, looks like a great way to build a
>standalone tracker.
>
>Tracks 8 satellites
>NMEA 0183
>RS-232
>RTCM-104
>10-30V
>2.23"x3.8"x1.04"
>Waterproof
>$299
>
>Bill KE4EER
>ke4eer@airnet.net
>
>
>
>

 Morning, Bill.
               What mfg and address/phone info. Sources?

                                   Tnx.  Pete, wa4hei
```

---

686. Re: Differential

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Fri, 26 Jan 96 08:38:01 -0800
To: aprssig@tapr.org
Message-ID: <D4D1083101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

```
On 1/25/96 Bob Bruninga said:

>APRS has had pseudo differential built in for almost a year now.....
>If someone wants to seriously beta test this capability, lemme know....

Bob,
I have been working with a local High School (Chaminade College
Prep/WA6BYE) over the last couple of years and have been wanting to do
exactly this in order to demonstrate the principles of GPS and DGPS.  We
have at our disposal two Eagle Accunav Sport GPS units and would be happy
to beta test this feature with the kids (I realize it is not TRUE
differential, but what the hey!).

Muchas Gracias--
73's de Mike KA6SPT
```

---

687. Re: [APRSSIG:6293] Re: Making Tracks

From: bob <w2g3zfj@unix.asb.com>
Date: Fri, 26 Jan 1996 11:57:08 -0500
To: aprssig@tapr.org
Message-ID: <199601261657.LAA04147@UNiX.asb.com>
Rendered body type: text/plain

```
Even easier than that is to capture the track on a GPS45, by itself, then
download the file using gardown (on tapr) and then convert it to aprs
format. There's a file to do this also on tapr called garmn45.bas. Works
great.....

73 de bob w2g3zfj@unix.asb.com

At 03:00 26/01/96 -0600, you wrote:
>>YOu left out plugging your GPS into your laptop
>>and letting APRS save a track history.
>
>Correct - That is the number one solution and the first I tried
>with both the MAC and PC version of APRS.
>
>But I am now learning how to delegate
>
>"Here, take this GPS unit and put it on your dash,
>drive the route, turn it off and bring it back."
>
>I might not get my portable computer back :-)
>
```

```
>It is also a pain setting the portable computer
>up in the car.
>
>
>The formatting of my Making Track report E-mail got parsed
>by the TAPR mailer. My forwarded copy to myself via
>ONRAMP.NET mailer did not have the lines wraped or
>the hex codes for the equal sign. If anyone wants a
>a better copy send private e-mail.
>
>73
>
>Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
>
>
>
>
```

---

688. Re: [APRSSIG:6302] RE: Weather Stations & APRS - Compatibility

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 26 Jan 1996 10:32:19 -0700
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil
Message-ID: <199601261732.KAA19182@usr6.primenet.com>
Rendered body type: text/plain

```
Bob:

is there any way that we can get this interface into APRS, I am looking at
buying the Moniter II from Davis (many bells and whistles) but not, as my
earlier mesage said, it won't work with APRS. Any hope at all, Bob????

THANKS, & 73

Alan, WC7R


At 09:26 AM 1/26/96 -0600, you wrote:
>>Brent Bolen wrote:
>>>
>>> Claude,et al.  Several months ago I sent both Bob B. and the MacAPRS
>>> brothers the Davis interface protocol that I figured out.  Bob wrote
>>> back to say that there was not room in PC-APRS, so it wouldn't be
>>> added in the forseeable future.  I never did hear back from the
>>> brothers Sproul.
>>>
>>> Brent
>>> ke6jgn@garlic.com
>>>
>
>
>We will be adding it, just have not had time to work on it because of
>WinAPRS.  Sorry we did not respond to you, I thought keith had.
>
>Mark
>
>__________________________________________________________________________
>Mark Sproul                        |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
>sproul@ap.org                      |Work: 609-860-7120
>North Brunswick, NJ                |Fax:  609-860-7129
>http://pilot.njin.net/~msproul
>__________________________________________________________________________
>
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

689. 1/26/96 10:04:54 a

From: AlChan@aol.com
Date: Fri, 26 Jan 1996 13:06:47 -0500
To: aprssig@tapr.org, AlChan@aol.com, alchan@ix.netcom.com,
       al.chan@toadhall.com, Al@w6dnt.ampr.org
Message-ID: <960126130623_407087345@mail06.mail.aol.com>
Rendered body type: text/plain

Although I was an old pilot, and I had worked on equipment like DME, VOR, Glideslope, Transponder, Carousel INS, ACARS, and test equipment, I know practically nil about GPS. Since I am retired, these data are no longer available to me.

Where can get some rudimentary circuit description and block diagrams of the GPS and the Differential GPS? Perhaps someone in this forum can answer my few not-so-intelligent questions:

1. What microwave band are these satellites transmitting in?

2. What protocol do they use? Packet? Datagrams? ACARS? tcp/ip?

3. What data are contained in each datagram?

4. What improvement does the _Differential_ GPS have on its accuracy.

5. What is the accuracy with the D-GPS? As opposed to GPS.

6. How does the Pentagon "dither" the transmission. Is it continuous, fixed, or does it hop all over the place constantly? How much is the dithering? 10 meters? 20 meters? What intervals does the dithering take place?

7. What kind of clock do the satellites have? Cesium clock or Rubidium?

9. What is the accuracy of said clock?

Thanks in advance, and I will appreciate it very much if you would direct me to places and periodicals where I can see some circuit description and block diagrams. I have searched the county libraries online, but there is nothing on GPS.

Also... If anyone can direct me to places where I can find technical description on the following items, I'd appreciate it: Holographic laser reader of barcode, such as those at Supermarket. Magnetic resonance for detecting library books not checked out; or merchandise in department stores.

Thanks. 73

AL
""""""""""""""""""""""""""""""""
AlChan@aol.com   Al@w6dnt.ampr.org

---

690. Re: Maps and Bit Maps

From: Mike Musick <71301.3106@compuserve.com>
Date: 26 Jan 96 13:35:08 EST
To: <aprssig@tapr.org>
Message-ID: <960126183508_71301.3106_FHJ26-2@CompuServe.COM>
Rendered body type: text/plain

Keith Sproul noted (among other things):

>"YOU AIN'T SEEN NOTHIN' YET!"

That's good news, Keith. In your note and a separate conversation with Mark, it sounds like you're close to a new standard for vector maps that "blows the doors off" of what we're seeing now. Like I posted earlier, bitmaps are a compromise that are acceptable only when circumstances permit. I was on the bitmap bandwagon because it was the only information I had on what was to come.

So if we're close to getting the detail of bitmaps and the flexibility of vector, who am I to question progress? If the new vector standard can get here sooner than doing what it's going to take to fix bitmaps, then by all means do it!

Looking forward to what's next.

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.4f on an HP200LX palmtop

---

691. Davis Wx

From: "Tony Flusche" <Tony_Flusche@compuware.com>
Date: Fri, 26 Jan 96 11:00:45 EDT
To: aprssig@tapr.org

Message-ID: <199601261837.AA02961@stargate.compuware.com>
Rendered body type: text/plain

```
Well if there's not enough memory in APRS for Davis Wx.  Consider
     converting the info to the format it understands with a BASIC Stamp.
     They are around $50 programming kit is another $100 or so. Just a
     thought.  BTW the BASIC Stamp has a regular column in Nuts & Volts
```

---

692. Re: Maps WINAPRS?

From: Mike Musick <71301.3106@compuserve.com>
Date: 26 Jan 96 14:27:34 EST
To: <aprssig@tapr.org>
Message-ID: <960126192734_71301.3106_FHJ69-1@CompuServe.COM>
Rendered body type: text/plain

```
As Chuck generally noted, in the comparison between pixel and vector expression
of an image, if the circumstances require variable scale, vector will win every
time. If the information density of the vector data can supply the detail
wanted at the desired resolution, then vector is the way to go. However, to get
substantive detail and delicate subtleties, the data requirements skyrocket, as
does the complexity of the system used to express the detail (and hence the
creation of complex systems like the vector-based Postscript).

I look at bitmap maps as a compromise - in trade for giving-up extreme
scalability, we gain expression of detail we can't reasonably ask of the
current vector-based system. And we also gain flexibility in information source
- scanners, the TIGER site I mentioned, screen captures from commercial mapping
products - all of which greatly improve the chance of getting the map we need
for a given situation. In all, the quickest means to an end - not the ultimate,
but still a fast way of getting what's needed.

But as seen in other responses, the bitmap discussion may become largely moot
in light of Keith's and Mark's progress in moving Mac/WinAPRS to a higher
density vector-based standard.

And Chris Brown asks:

>TIGER mapping site, who, what and most import WHERE?

It's at http://tiger.census.gov/, and because it's forms-based you'll probably
need Netscape to use it. You use a form to input the coordinates, size, and
features you want on the map, and it dynamically creates a GIF image. I haven't
tested the size limits of what it can create, but the images are very good and
comparable to scanning a topo map at screen resolution. The server is a little
slow, so it may take a minute or so to create a map with a lot of detail
layers, but the maps are excellent.

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.4f on an HP200LX palmtop
```

---

693. Re: [APRSSIG:6305] Re: Making Tracks

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 26 Jan 1996 14:09:18 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad2ed9451cee@[199.1.11.117]>
Rendered body type: text/plain

```
>Even easier than that is to capture the track on a GPS45, by itself, then
>download the file using gardown (on tapr) and then convert it to aprs
>format. There's a file to do this also on tapr called garmn45.bas. Works
>great.....
>
>73 de bob w2g3zfj@unix.asb.com

Which was the whole point of my original 3 page report
in [APRSSIG:6279] Making Tracks message. The KISS way :-)

I used MacGPS to download from the Garmin-45, thanks
for the reference to garmn45.bas, I had overlooked that one.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

694. Re: [APRSSIG:6287] Re: Altitude

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 26 Jan 1996 15:15:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960126151215.17592A-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 25 Jan 1996, Charles W. Davidson wrote:

> APR said:   APRS only gets altitude if it sees a GGA sentence...
>
> Charles said:  It would be nice to see GGA data from all base stations.

WB4APR REPLY COMMENT:
Yes, I should have included that anyone can manually put his altitude in the
comment field of his  POSIT and it will be displayed.  Use the format
/A=000567.  for 567 feet.
```

---

695. TracPak

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 26 Jan 1996 14:21:43
To: aprssig@tapr.org
Message-ID: <9601262024.AA23405@foo.garply.com>
Rendered body type: text/plain

```
Pete i lost you address. I found some more info on the TracPak GPS system.
It's available at NavTech at 1-800-NAV-0885. Email gpsteach@nmaa.org.

Bill KE4EER
ke4eer@AIRnet.net
```

---

696. Re: [APRSSIG:6296] W7LUS Digi

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 26 Jan 1996 15:35:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960126153147.17592E-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 26 Jan 1996, Peter Gross wrote:

> Been on vhf continuously from the 18 wheeler except for when I forget to
> turn it on. For some reason when I turn the trucks ignition off it glitches
> the Zenith laptops power supply. Shortly there after the laptops power
> light goes red indicating a low battery.

WB4APR REPLY COMMENT:

That happens to me to!  Even while cruising at 60 MPH!?  I think it is
because the Zenith used NICADS and the discharge curve for Nicads and
Lead-acid are different.  Once the red lignt goes on, the PC is gonna
shut down in a few minutes.  I imagine there is a POT somewhere to adjust
that trheshold.  When *you* figure it out, tell me, hi hi...
```

---

697. Re: [APRSSIG:6299] Re: Differential GPS correction via APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 26 Jan 1996 15:43:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960126154117.17592G-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 26 Jan 1996, jack swift wrote:

>         one of the prime things in a search is relative locations between
> two units. having an automatic map plot of the locations is much more
> convenient than doing it manually on a topo. it would be nice if we could
> add (temporary?) lines to the map while running the program....

WB4APR REPLY COMMENT:

You can.  Just use the INPUT-ADD-OBJECTS-LINE command to add a line from
the current center of the screen to the cursor.  Not only will this line
be on your map, but it will be sesnt to everyone else on the net too...
```

---

698. Re: [APRSSIG:6287] Re: Altitude

From: Bob Wilkins n6fri <rwilkins@uhf.org>
Date: Fri, 26 Jan 1996 12:55:19 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960126123038.26013C-100000@ccnet3>
Rendered body type: text/plain

```
On Thu, 25 Jan 1996, Charles W. Davidson wrote:

> It would be interesting to see a GGA sentence from all base stations.
> Could this data be put into beacon text? If so mobiles could also add
> this information when wanted. (My Magellan displays altitude but does
> not send it out in the NMEA sentence. I would really enjoy being able
> to use the 3D function with information from all stations!!! Is there
> any other way an aprs station can post this info periodically ?

I have been manually adding the string /A=000600 to the beginning of the
comments line in IM for my station. This is the same format a GPS would
send out. I am at 600' elevation. It would be nice if wide digis also sent
real elevation, so you get a better idea of coverage.

/A=000090 is 90'   elev
/A=004587 is 4587' elev

Maybe Bob will add elev. in a future version. hint hint

Bob    n6fri

     Bob Wilkins                      home    n6fri@uhf.org
 Berkeley, California                 work    bwilkins@cave.org
     94712-2354                       play    n6fri@n6eeg.#nocal.ca.usa.noam
```

---

699. Re: [APRSSIG:6314] Re: W7LUS Digi

From: jbc5@po.cwru.edu (Joseph Carter)
Date: Fri, 26 Jan 1996 16:30:26 -0500
To: aprssig@tapr.org
Message-ID: <199601262130.QAA18758@slc5.INS.CWRU.Edu>
Rendered body type: text/plain

```
>On Fri, 26 Jan 1996, Peter Gross wrote:
>
>> Been on vhf continuously from the 18 wheeler except for when I forget to
>> turn it on. For some reason when I turn the trucks ignition off it glitches
>> the Zenith laptops power supply. Shortly there after the laptops power
>> light goes red indicating a low battery.
>
>WB4APR REPLY COMMENT:
>
>That happens to me to!  Even while cruising at 60 MPH!?  I think it is
>because the Zenith used NICADS and the discharge curve for Nicads and
>Lead-acid are different.  Once the red lignt goes on, the PC is gonna
>shut down in a few minutes.  I imagine there is a POT somewhere to adjust
>that trheshold.  When *you* figure it out, tell me, hi hi...
>
>
Me too! using Zenith SuperSport 386/sx, and sometimes it goes 2 hours,
sometime 20 minutes and starts its low power shut-down. I put out a query
on Ham-Digital and tho I can not find the reply this minute, The basic
answer was = bad Zenith design, can not do it, reccommend using inverter
to AC brick to laptop! How's that for a kludge!
                 Joe, AA8SF
                 jbc5@po.cwru.edu
```

---

700. Re: [APRSSIG:6316] Re: Altitude

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 26 Jan 1996 16:38:12 -0600
To: aprssig@tapr.org
Message-ID: <199601262238.QAA06509@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Do you want real elevation, or HAAT?

>On Thu, 25 Jan 1996, Charles W. Davidson wrote:
>
>> It would be interesting to see a GGA sentence from all base stations.
>> Could this data be put into beacon text? If so mobiles could also add
>> this information when wanted. (My Magellan displays altitude but does
>> not send it out in the NMEA sentence. I would really enjoy being able
>> to use the 3D function with information from all stations!!! Is there
>> any other way an aprs station can post this info periodically ?
>
>I have been manually adding the string /A=000600 to the beginning of the
>comments line in IM for my station. This is the same format a GPS would
>send out. I am at 600' elevation. It would be nice if wide digis also sent
>real elevation, so you get a better idea of coverage.
>
```

```
>/A=000090 is 90'   elev
>/A=004587 is 4587' elev
>
>Maybe Bob will add elev. in a future version. hint hint
>
>Bob    n6fri
>
>     Bob Wilkins                      home    n6fri@uhf.org
> Berkeley, California                 work    bwilkins@cave.org
>     94712-2354                       play    n6fri@n6eeg.#nocal.ca.usa.noam
>
>
>
>
---------------------------------------------------------------------------
N9VJQ/jbleonard's Home Page (just getting started...be patient) at
http://tbcnet.com/~jleonard/n9vjq.htm
---------------------------------------------------------------------------
J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

---

701. APRS net

From: WB9WOZ@aol.com
Date: Fri, 26 Jan 1996 17:54:02 -0500
To: aprssig@tapr.org
Message-ID: <960126175242_207425654@emout05.mail.aol.com>
Rendered body type: text/plain

```
*****CORRECTION*****CORRECTION*****CORRECTION*****CORRECTION*****
SORRY, I HAD THE WRONG UTC. At least I'm only an hour slow.

Subj:   APRS net
Date:   01/25/96
To:     aprssig@tapr.org

As an experiment, and to stir up more interest in the Chicago area, the
DuPage Amateur Radio Club (W9DUP) will be taking check-ins on VHF aprs in
conjunction with our regular voice net on 145.25 MHz. The net will start at
0300 UTC (9:00 PM CST) sunday night 1/28/96.
PROCEDURE: Transmit name & QTH to W9DUP
                       When (and if) you get an ACK back, consider yourself
checked in.
HF and VHF station are encouraged to participate. So as to keep qrm to a
minimum, VHF stations should send only once or twice (you may not get an
ACK).
Show your support for aprs by checking in. I will post check-in totals and
calls next week.

Perhaps we just want to show off since Keith and Mark will be here for the
public beta release of WinAPRS. Perhaps we just want to see if a cross
country net could be done via APRS. Either way, it should be very
interesting. Hope to see you on the screen.
```

---

702. Re: USGS CD-ROM

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Fri, 26 Jan 96 12:49:31 -0800
To: aprssig@tapr.org
Message-ID: <0434093101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

```
On 1/25/96, Ronald G. Parsons said:

>How current is the data for roads on the USGS CD-ROM?
>If this varies by Section, how about South Texas?

I don't know about South Texas, but the 1:100,000 CD-ROM available from
USGS for Southern California is generated from a 1979 database.  It's
rather disappointing not being able to see your street when you're living
in a house that's 15 years old in a tract that was non-existent back
then.

73's de Mike KA6SPT


Ron W5RKN
```

also:
rparsons@bga.com

---

703. NEMA

From: kc4hdk@gate.net
Date: Fri, 26 Jan 1996 19:12:59 -0500
To: tweedy@pc.gcs.litton.com, n2czf@gate.net, kc5ejk@onramp.net,
aprssig@tapr.org, johnj@gate.net
Message-ID: <199601270012.TAA22788@tequesta.gate.net>
Rendered body type: text/plain

Does anybody have any information on the NEMA data that is sent from the Differential GPS (DGPS) receiver to the GPS unit that gives the correction information. I am interested in taking a GPS at a known location and calculating the error and transmitting that information to other GPS's out in the field. I understand that this is not an original idea but am very interested in any information that I may receive. Please send reply to "kc4hdk@gate.net".

thank you

Bob

---

704. PacCom's PicoPacket.

From: kc4hdk@gate.net
Date: Fri, 26 Jan 1996 18:58:39 -0500
To: aprssig@tapr.org
Cc: joseph@gate.net, kc4hdk@gate.net, n2czf@gate.net, johnj@gate.net
Message-ID: <199601262358.SAA18287@tequesta.gate.net>
Rendered body type: text/plain

I am interested to see if anybody that has the PicoPacket from PacCom has had any problem with the TNC resetting or destroying parameters when used in mobile operation. I have tried just about everything but when the power is removed from the unit it resets loosing all the parameters. It doesn't happen all at once sometimes it takes an hour and sometimes all night long but it has yet to operate for more than two days consecutively before I have to take the lap top out to the car and reprogram it. If you have had signs of this please E-mail me directly at "kc4hdk@gate.net" as I'm not on the aprssig directly.

Thank you,

Bob

---

705. 80M FL GATE (GATEFL) activity

From: n2czf@gate.net
Date: Fri, 26 Jan 1996 19:37:32 -0500
To: aprssig@tapr.org
Message-ID: <199601270037.TAA62246@osceola.gate.net>
Rendered body type: text/plain

Well Kevin and I have been runing the GATE on 80M for a couple of weeks now and it seems that we have a good idea of what is normal. At the begining we had several other stations on the air and it was interesting to see what can be done. Now that everything is settled and I was ready to take on the task of collecting data activity dropped off, I sometimes see 1 or 2 other stations in addition to Kevin no one else.

If everyone is still interested let me know or just get on the air. If you are not on HF but have a GATEFL in your area please be sure to add GATEFL to your UNPROTO path. This will increase the activity and let us all know that the path is working. APRS means to minimize transmissions so due to this we need stations for this test period. If only 1 or 2 stations are on the TX rate will be too low to really see what is going on, we need more than just the actual GATES to be on and making use of the network.

The frequency is 3.585.32 LSB with AEA tones...

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

706. Sporadic E on 145.79 Thursday ??

From: n2czf@gate.net
Date: Fri, 26 Jan 1996 19:27:08 -0500
To: aprssig@tapr.org
Message-ID: <199601270027.TAA53664@osceola.gate.net>

Rendered body type: text/plain

```
Ok people let's see if we can figure this out... When I got home last night I
turned on my monitor and as usual I did a file save backup to have latest data
when APRS crashes. It no longer is IF but when it crashes... Well sure enough it
crashed soon after and I rebooted and loaded the backup file.

For some reason I zoomed out past FL and saw SEVERAL stations from Atlanta,
Georga, Alabama etc. most of these were WIDE stations and WERE NOT uplinks.
Since I saw this after I reloaded the file I had no data on the digi path but
here is what I had.

KD4LTR
WB8EYJ
KD4NCT
N4KMJ-7
KD4DLT-7

Did anyone else from the above area see any stations from the SFL area ??

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

707. Re: [APRSSIG:6301] GPS

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 26 Jan 1996 21:49:00 -0500
To: aprssig@tapr.org
Message-ID: <199601270247.VAA24344@sun.lssu.edu>
Rendered body type: text/plain

```
>Anyone using the new GPS-31 TracPak, looks like a great way to build a
>standalone tracker.
>
>Tracks 8 satellites
>NMEA 0183
>RS-232
>RTCM-104
>10-30V
>2.23"x3.8"x1.04"
>Waterproof
>$299
>
>Bill KE4EER
>ke4eer@airnet.net
>
>
>
>
  In today's afternoon mail was a new catalog from West Marine, 1-800-538-0775.
On page 35 is a photograph of the Garmin GPS-31.

  Has anyone actually played with the unit? First impression from looking at
the picture...... Bill's speculation of the unit's value in a stand alone
tracker appear well founded if it will provide the required data and IS
designed for the unforgiving salt water environment.

                                        Pete, wa4hei
```

---

708. Re: [APRSSIG:6323] 80M FL GATE (GATEFL) activity

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 26 Jan 1996 22:59:41 -0500
To: aprssig@tapr.org
Message-ID: <199601270358.WAA24437@sun.lssu.edu>
Rendered body type: text/plain

```
>Well Kevin and I have been runing the GATE on 80M for a couple of weeks now
and
>it seems that we have a good idea of what is normal. At the begining we had
>several other stations on the air and it was interesting to see what can be
>done. Now that everything is settled and I was ready to take on the task of
>collecting data activity dropped off, I sometimes see 1 or 2 other stations in
>addition to Kevin no one else.
>
>If everyone is still interested let me know or just get on the air. If you are
>not on HF but have a GATEFL in your area please be sure to add GATEFL to your
>UNPROTO path. This will increase the activity and let us all know that the
path
>is working. APRS means to minimize transmissions so due to this we need
```

stations
>for this test period. If only 1 or 2 stations are on the TX rate will be too low
>to really see what is going on, we need more than just the actual GATES to be on
>and making use of the network.
>
>The frequency is 3.585.32 LSB with AEA tones...
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
>
>
>

Hello Richard.
I was on 80m quite often last winter with nt2z and we played some with various baud rates. As may be expected the slower the rate the more reliable the link became. Swapped lies occaisionally with some lads in the Fla. panhandle, and elswhere East of the Mississippi. 3.585 lsb +/- a few, no sweat.

This Winter I have wished to do the same, but.... Those I hear appear scattered in frequency, and I see frequency numbers in SIG messages I cannot relate to. I see, in hf.txt, 2 AEA tones mentioned. My KAM is using the default 1600/1800 tone pair, but they can be changed at will. What to do, to get and keep keep everyone on the same rf frequency with the same shift?

I have heard both your and uyr's 80m cw beacon, and several others that slip the grey cells, but trying to catch the occaisional APRS beacon, tuned correctly, through the qrm, qrn, qsb, and scattered tx frqs, is a nightmare that has turned me off. I do not have enough life left to try and capture what's there.

If you can make some order out of mayhem, I will gladly add to the 80m qrm, at night when I do not have the precipitation? static that comes with the snow storms. (Tonight make me long for sunnier climes again!)

Pete, wa4hei

---

709. GPS45 Antenna problem and fix

From: w2g3zfj@unix.asb.com (bob)
Date: Sat, 27 Jan 1996 09:36:03 -0500
To: aprssig@tapr.org
Message-ID: <199601271443.JAA07758@UNiX.asb.com>
Rendered body type: text/plain

Hi folks,

My trusty GPS45 let me down on a trip to (flooded) Marietta, OH last week. When I got there found that I couldn't see any satellites and gave up after a while. When I got back, found the unit worked OK with the external antenna, so obviously a fault with the GPS45 antenna.

Managed to get the antenna apart easily, the white plastic is glued (not very substantially) to the black case. When its apart you can see that the antenna is a flexible pcb (looks like thin fibreglass, nothing exotic)wrapped into a cylinder about 10mm in diameter. Close examination of the joint between the centre pin of the BNC connector and the foil inside the cylinder (which was very difficult, needed Maglite and 20x lens) showed a hairline crack.

So, I took my hot iron and undid the seam holding the cylinder together and desoldered the BNC, couldn't unwrap it all the way as there is a circular aperture about half way. Anyway, managed to get to the offending joint and bridged it with a piece of thin wire. Reversed the procedure and tested it. Works fine!

Hope this helps someone

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com

---

710. Screen problems

From: Mike Cotts <mcotts@freenet.columbus.oh.us>
Date: Sat, 27 Jan 1996 10:08:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9601271017.A4754-a100000@acme>
Rendered body type: text/plain

```
Hello all.

 This is my frist message to the sig. I do alot of reading and learn alot
 for it. So keep up the good work.

 I have a question for a friend, He is running 74e with a Speed Star Pro
 video card and a Sony monitor. The screen is off to the right by about 5
 letters. So if u were to try to read the channel load it would look like
 Channel load id at 7] missing the 3%] part of the text. He says all other
 programs work and look right. Any help will be nice to pass on to him. He
 does not have any internet access. So i am trying to help him out.

 Thanks,

Mike Cotts - KB8SSH
mcotts@freenet.columbus.oh.us
```

---

711. Re: [APRSSIG:6319] APRS net

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 27 Jan 1996 12:26:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960127121553.21521C-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 26 Jan 1996 WB9WOZ@aol.com wrote:

> As an experiment, and to stir up more interest in the Chicago area, the
> DuPage Amateur Radio Club (W9DUP) will be taking check-ins on VHF aprs in
> conjunction with our regular voice net on 145.25 MHz. The net will start at
> 0300 UTC (9:00 PM CST) sunday night 1/28/96.
> PROCEDURE: Transmit name & QTH to W9DUP
> HF and VHF station are encouraged to participate.

WB4APR REPLY COMMENT:

On such an invitation, and to minimize extra packets, it would be nice if
you published the specific digipeater callsign that is hit by your local
GATE.  That way, HF stations could tailor their path to go via GATE,XXXXX
and show up on your LAN instead of GATE,WIDE which hits every VHF network.
Just a thought...
```

---

712. (no subject)

From: (unknown sender)
Date: Sat, 27 Jan 1996 12:31:38 EST
Message-ID: <27JAN96.13529499.0023.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
To: <aprssig@tapr.org>
Subject: Re: [APRSSIG:6278] Re: Eagle GPS
X-Mailer: MUSIC/SP V4.1.0
In-Reply-To: In reply to your message of Thu, 25 Jan 1996 16:07:09 EST

Gerry
Is this SA elipse why my car seams to travel in this elipse circle
after having my tracker on all night or as i thought is the 9 story
building blocking 50% of the sky causing this n-s elipse.
or possibility #3 is it both of these?
just curious
Lynn -N4YCI Athens Ga
```

---

713. Re: [APRSSIG:6321] NEMA

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 27 Jan 1996 10:47:55 -0700
To: aprssig@tapr.org
Message-ID: <199601271748.KAA07448@usr6.primenet.com>
Rendered body type: text/plain

The Garmin GPS-45 gives you the +/- you are off, if any, from the position
displayed. You might try corresponding with the varrious manufactures and
see if they can be of assistance...Good Luck & 73....Alan...//\\

At 06:38 PM 1/26/96 -0600, you wrote:
>Does anybody have any information on the NEMA data that is sent from the
>Differential GPS (DGPS) receiver to the GPS unit that gives the correction
>information. I am interested in taking a GPS at a known location and
>calculating the error and transmitting that information to other GPS's out in
>the field. I understand that this is not an original idea but am very
>interested in any information that I may receive. Please send reply to
>"kc4hdk@gate.net".
>
>thank you
>
>Bob
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

714. Re: [APRSSIG:6322] PacCom's PicoPacket.

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Sat, 27 Jan 1996 13:03:41 EST
To: <aprssig@tapr.org>
Message-ID: <27JAN96.14106460.0023.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

Bob
Yes!!!!
i gave up and bought a KPC 3.
but i needed to have a tnc for the house any way and i have not gotten
to playing with the pico.
I talked to the people at paccom and my firm ware is very old
July 27 95 mine is pico sn 000034 so i have old firmware.
So this is what they told me i need new firmware they said they would
replace mine b/c it was so old.
when u power up ur tnc do it in a com program or o-c-t mode of aprs
and look at the date of ur firmware this may be ur problem.
hope this helps!
Lynn N4YCI in athens Ga @ U of Ga

---

715. Re: [APRSSIG:6327] GPS45 Antenna problem and fix

From: rwf <rwf@mindspring.com>
Date: Sat, 27 Jan 1996 15:01:17 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960127150845.3fdf6d8e@mindspring.com>
Rendered body type: text/plain

At 08:54 AM 1/27/96 -0600, somebody wrote:
>Hi folks,
>
>My trusty GPS45 let me down on a trip to (flooded) Marietta, OH last week.
>When I got there found that I couldn't see any satellites and gave up after
>a while. When I got back, found the unit worked OK with the external
>antenna, so obviously a fault with the GPS45 antenna.

Had same problem here in flooded Marietta (GA). The GPS 45 flexible pcb
connection let go. Of course that was after i drove off with the GPS on the
car roof and it hit the pavement at 35 mph.

The antenna is not really that stout when it comes to abuse. Maybe that is
what Doug was talking about when he spoke of an "intermittent BNC connector"
that none of the rest of us have ever experienced.

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
>

716. Re: [APRSSIG:6280] Re: Maps WINAPRS?

From: Mike Musick <71301.3106@compuserve.com>
Date: 27 Jan 96 22:17:27 EST
To: <aprssig@tapr.org>
Message-ID: <960128031726_71301.3106_FHJ41-1@CompuServe.COM>
Rendered body type: text/plain

```
Tony asks:

>Can you direct me, please, to the TIGER map site?

Oops! I posted the URL in the middle of a long message and it sounds likes it
was hard to see. It's:

     http://tiger.census.gov/

You'll need a web browser that has forms capability since that's how to tell it
to plot the map you want.

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.4f on an HP200LX palmtop
```

717. Re: [APRSSIG:6322] PacCom's PicoPacket.

From: Harry Burford <hburford@airmail.net>
Date: Sat, 27 Jan 1996 21:54:05 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601280354.VAA30965@server.iadfw.net>
Rendered body type: text/plain

```
At 06:43 PM 1/26/96 -0600, you wrote:
>I am interested to see if anybody that has the PicoPacket from PacCom has had
>any problem with the TNC resetting or destroying parameters when used in
mobile
>operation.  I have tried just about everything but when the power is removed
>from the unit it resets loosing all the parameters.  It doesn't happen all at
>once sometimes it takes an hour and sometimes all night long but it has yet to
>operate for more than two days consecutively before I have to take the lap top
>out to the car and reprogram it.  If you have had signs of this please
E-mail me
>directly at "kc4hdk@gate.net" as I'm not on the aprssig directly.


Saw your post in the APRS SIG mail list.   I just got the Pico myself and am
having the same problem.  Was going to call them on Monday and inquire about
it.  I've been a Paccomm loyal customer for over 10 years now.  Built over a
dozen of their kit TNCs.  This is my first factory built unit.  Cute little
box.  I was also going to ask them about the pin out for the 2nd serial port
that isn't documented in the book.  The schematic wasn't a help.

hburford@airmail.net
hb
KA0TTY
```

718. Iphone

From: ke4eer@AIRnet.net (William Nolle)
Date: Sun, 28 Jan 1996 06:39:11
To: aprssig@tapr.org
Message-ID: <9601281242.AA17024@foo.garply.com>
Rendered body type: text/plain

```
This maybe slightly off topic but i know there are some APRS users that are
interested in this. A new version of Iphone is available on Vocaltec (Ver 3.2)
with greatly improved audio, and other features. Just talked to an old ham in
CA and we talked for an hour and it sounded better then anything i have
heard so far. I still think we need to have a private topic area on Iphone about
APRS. If there's anyone here on the sig that uses Iphone let me know the
exact private topic name!. Someone gave me one before but unless it's
axactly entered as it suppose to be it won't show anyone.

Bill KE4EER
ke4eer@airnet.net
```

719. help!

From: KD4EMI@aol.com
Date: Sun, 28 Jan 1996 08:49:19 -0500
To: aprssig@tapr.org
Message-ID: <960128084918_408448124@emout04.mail.aol.com>
Rendered body type: text/plain

```
Ok folks, another brainless question..

Im running my ver 3 kam on 30M and VHF.

I want to run gateway mode, but all the HF stations I hear are
not getting retransmitted by me on the vhf port.

I set my alias to gate/gate but the software keeps making it echo after
a while.  What do I need to do..?

MIke KD4EMI@AOL.COM
```

---

720. Re: [APRSSIG:6337] help!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jan 1996 10:13:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960128101256.23526E-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 28 Jan 1996 KD4EMI@aol.com wrote:

> I want to run gateway mode, but all the HF stations I hear are
> not getting retransmitted by me on the vhf port.
> I set my alias to gate/gate but the software keeps making it echo after
> a while.  What do I need to do..?

WB4APR REPLY COMMENT:

Your ALIAS only digipeates on the same frequency it is on.  You need to
set MYGATE to GATE.
```

---

721. Map formats for Win/MacAPRS

From: BOB DERDERIAN <n2iph@mci.newscorp.com>
Date: Sun, 28 Jan 1996 13:27:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199601281827.NAA17374@camus.delphi.com>
Rendered body type: text/plain

```
Just thinking to myself as I read through today's mail here on the SIG.

One msg mentions about wanting better maps for foxhunts,etc. And another
about using .bmp and/or .gif
format maps. Putting these two complaints/ideas (whatever you want to call
them, that is not my purpose here) and throwing them in the blender and
mixing them up the resultant is  YES !, .bmp and .gif format map files would
be great, and here's one big reason why;

When you are providing support on the scene of a public service event  and
are presented with a route map for the run/walk/whatever, by being able to
take that map and scan it and save it as a .bmp or .gif file you could then
use it as a custom map for the event!

this could also work for emergency operations...example:

You are at the EOC and the EC has just consulted with his staff and they
have decided (on the spot) to use roads x,y, and z for northerly evac routes
and roads a,b, and c as Easterly evac routes to move civilians away from the
present disaster (NO WAY you could have this map ready before hand). They
hand you a map and you scan it in (could also be FAXed from remote site,
etc). After a simple cal routine (such as APR uses in mapfix.exe for the
digitizer) you can load the map and away you go!

Q: Anyone know what format the CIA database maps (micro world DataBank) are
in? These CD-Roms are cheap. How about AutoMap Roadatlas or AutoMap Streets
(from AutoMap now owned by MicroSoft).
```

---

722. Re: [APRSSIG:6339] Map formats for Win/MacAPRS

From: ke4eer@AIRnet.net (William Nolle)
Date: Sun, 28 Jan 1996 14:27:50
To: aprssig@tapr.org
Message-ID: <9601282030.AA01228@foo.garply.com>
Rendered body type: text/plain

That capability is avaiable right now if i'm not mistaken. A while back i posted
a program on tapr that will do a screen dump of your APRS screen into several
formats, you can then print them out. And as far as detailed maps they are now
easy to make. I have something like 250 or so just for Alabama
(May be many more) i lost count at 500 maps i have made that are all street
level maps that would work for waht you are talking about i would think. If
interested i can lookup the name of the file i'm talking about.

Bill KE4EER
ke4eer@airnet.net

>Just thinking to myself as I read through today's mail here on the SIG.
>
>One msg mentions about wanting better maps for foxhunts,etc. And another
>about using .bmp and/or .gif
>format maps. Putting these two complaints/ideas (whatever you want to call
>them, that is not my purpose here) and throwing them in the blender and
>mixing them up the resultant is YES !, .bmp and .gif format map files would
>be great, and here's one big reason why;
>
>When you are providing support on the scene of a public service event and
>are presented with a route map for the run/walk/whatever, by being able to
>take that map and scan it and save it as a .bmp or .gif file you could then
>use it as a custom map for the event!
>
>this could also work for emergency operations...example:
>
>You are at the EOC and the EC has just consulted with his staff and they
>have decided (on the spot) to use roads x,y, and z for northerly evac routes
>and roads a,b, and c as Easterly evac routes to move civilians away from the
>present disaster (NO WAY you could have this map ready before hand). They
>hand you a map and you scan it in (could also be FAXed from remote site,
>etc). After a simple cal routine (such as APR uses in mapfix.exe for the
>digitizer) you can load the map and away you go!
>
>Q: Anyone know what format the CIA database maps (micro world DataBank) are
>in? These CD-Roms are cheap. How about AutoMap Roadatlas or AutoMap Streets
>(from AutoMap now owned by MicroSoft).
>
>
>
>

---

723. Re: [APRSSIG:6339] Map formats for Win/MacAPRS

From: Jeff Ward <jward@gulf.net>
Date: Sun, 28 Jan 1996 16:06:23 -0600
To: aprssig@tapr.org
Message-ID: <199601282204.QAA05949@marlin.gulf.net>
Rendered body type: text/plain

Hmmm, sounds a lot like what we've done here already. I wrote a quick and dirty
program that draws a .PCX file to the screen (say, of a scanned local-area map).
Then, just by using the mouse and the mouse-cursor, you click on starting and
ending points on the roads that you want. The points are then saved as pixel
points and are loadable as aprs map files. You don't need a digitizer pad,
because
you're actually defining which points you want ON THE SCREEN. You do have
to be careful and make sure you get the lat/lon, and range values correct.
It's a simple little program but could be very useful for small, local-area
maps. So far we haven't used the program (except for brief tests)...I just
wrote it to have in our APRS utilities package. I'm not too proud of the
.PCX loader routine...it's not that efficient, but it does work. I'd be
happy to upload it if folks are interested...
anybody that wants to improve on it would certainly be welcome to do so.

73
Jeff Ward, N4TRY

At 12:50 PM 1/28/96 -0600, you wrote:
>Just thinking to myself as I read through today's mail here on the SIG.
>
>One msg mentions about wanting better maps for foxhunts,etc. And another
>about using .bmp and/or .gif
>format maps. Putting these two complaints/ideas (whatever you want to call
>them, that is not my purpose here) and throwing them in the blender and
>mixing them up the resultant is YES !, .bmp and .gif format map files would
>be great, and here's one big reason why;
>

>When you are providing support on the scene of a public service event and
>are presented with a route map for the run/walk/whatever, by being able to
>take that map and scan it and save it as a .bmp or .gif file you could then
>use it as a custom map for the event!
>
>this could also work for emergency operations...example:
>
>You are at the EOC and the EC has just consulted with his staff and they
>have decided (on the spot) to use roads x,y, and z for northerly evac routes
>and roads a,b, and c as Easterly evac routes to move civilians away from the
>present disaster (NO WAY you could have this map ready before hand). They
>hand you a map and you scan it in (could also be FAXed from remote site,
>etc). After a simple cal routine (such as APR uses in mapfix.exe for the
>digitizer) you can load the map and away you go!
>
>Q: Anyone know what format the CIA database maps (micro world DataBank) are
>in? These CD-Roms are cheap. How about AutoMap Roadatlas or AutoMap Streets
>(from AutoMap now owned by MicroSoft).
>
>
>
>
>

---

724. thanks

From: KD4EMI@aol.com
Date: Sun, 28 Jan 1996 17:28:18 -0500
To: aprssig@tapr.org
Message-ID: <960128163740_208670272@mail04.mail.aol.com>
Rendered body type: text/plain

Thanks for the messages...Got it figured out.

no more responses to the kam gateway problem...

73 MIke KD4EMI@AOL.COM

---

725. Re: [APRSSIG:6339] Map formats for Win/MacAPRS

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 28 Jan 1996 17:37:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960128173155.13280D-100000@laraby.tiac.net>
Rendered body type: text/plain

On Sun, 28 Jan 1996, BOB DERDERIAN wrote:
(snip)
> When you are providing support on the scene of a public service event and
> are presented with a route map for the run/walk/whatever, by being able to
> take that map and scan it and save it as a .bmp or .gif file you could then
> use it as a custom map for the event!
>

Fine, but custom made maps for public service events are seldom drawn to
scale (ie. accurately) This brings up the problem of GPS trackers. They
will plot *real* positions (within limits of GPS) which will not match
these maps. If every mobile uses the *same* maps, and also uses a
computer to *manually* input postion then this idea would work (but this
is not a very realistic solution)

```
Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

726. Re: [APRSSIG:6336] Iphone

From: Rudy Benner <bennerr@onlink.net>
Date: Sun, 28 Jan 1996 18:31:39 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960128233139.364fe5be@mail.onlink.net>
Rendered body type: text/plain

Just enter 2 private topics. One as Aprs and one as APRS. That will do the
trick. I
have those 2 entered every time I logon and have yet to see anyone else using
these topic names.

At 06:46 28/1/96 -0600, you wrote:
>This maybe slightly off topic but i know there are some APRS users that are
>interested in this. A new version of Iphone is available on Vocaltec (Ver 3.2)
>with greatly improved audio, and other features. Just talked to an old ham in

>CA and we talked for an hour and it sounded better then anything i have
>heard so far. I still think we need to have a private topic area on Iphone
about
>APRS. If there's anyone here on the sig that uses Iphone let me know the
>exact private topic name!. Someone gave me one before but unless it's
>axactly entered as it suppose to be it won't show anyone.
>
>Bill KE4EER
>ke4eer@airnet.net
>
>
>
>

Rudy Benner, Timmins Ontario
Internet @   bennerr@onlink.net, ve3bdr@amsat.org

---

727. Re: [APRSSIG:6339] Map formats for Win/MacAPRS

From: heavy@texas.net (Jim Weiler)
Date: Sun, 28 Jan 1996 18:12:43 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ad31c1510eba@[204.214.207.81]>
Rendered body type: text/plain

There is a large map collection at the University of Texas at Austin. The
URL is as follows:

http://www.lib.utexas.edu/Libs/PCL/Map_collection/Map_collection.html

I downloaded a number of large scale maps from the CIA collection, which
has links from this page. The formats were both JPEG and GIF. I don't know
if these are the same formats as are on the CIA CD, but I suspect they are.
Anyway, they can be converted to whatever format works, using simple-to-use
Mac software. The ones I d/l'd were pretty, scanned images of North,
Central and South America. At the time of d/l, I was wondering if these
could somehow be put to use with APRS, so my interest in this thread is
very high. My primary concern is whether the maps have a usable projection
with APRS, or whether Mapfix.exe can "fix" them. I am fairly new to
APRSSIG, and not very knowledgeable with some of the language used by Hams,
so I can use some HELP! Please keep in touch.

>Just thinking to myself as I read through today's mail here on the SIG.
>
>One msg mentions about wanting better maps for foxhunts,etc. And another
>about using .bmp and/or .gif
>format maps. Putting these two complaints/ideas (whatever you want to call
>them, that is not my purpose here) and throwing them in the blender and
>mixing them up the resultant is YES !, .bmp and .gif format map files would
>be great, and here's one big reason why;
>
>When you are providing support on the scene of a public service event and
>are presented with a route map for the run/walk/whatever, by being able to
>take that map and scan it and save it as a .bmp or .gif file you could then
>use it as a custom map for the event!
>
>this could also work for emergency operations...example:
>
>You are at the EOC and the EC has just consulted with his staff and they
>have decided (on the spot) to use roads x,y, and z for northerly evac routes
>and roads a,b, and c as Easterly evac routes to move civilians away from the
>present disaster (NO WAY you could have this map ready before hand). They
>hand you a map and you scan it in (could also be FAXed from remote site,
>etc). After a simple cal routine (such as APR uses in mapfix.exe for the
>digitizer) you can load the map and away you go!
>
>Q: Anyone know what format the CIA database maps (micro world DataBank) are
>in? These CD-Roms are cheap. How about AutoMap Roadatlas or AutoMap Streets
>(from AutoMap now owned by MicroSoft).

```
        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    *  Jim Weiler *  aka  *  heavy@texas.net  *  heavysi245@aol.com  *
    -----------------------------------------------------------------
      "If you build castles in the air, your work need not be lost;
      that is where they should be. Now put foundations under them."
      - Henry David Thoreau
```

728. HF freqs

From: KD4EMI@aol.com
Date: Sun, 28 Jan 1996 19:29:33 -0500
To: aprssig@tapr.org
Message-ID: <960128185325_408787704@emout04.mail.aol.com>
Rendered body type: text/plain

```
Ok, now that Im on HF Id like to start to play with the gateway stuff.
We already have people on 30M ...is anyone on 17 meters or would
like to try on 17...Just send me a freq and I'll put it on and leave it
there!

I can operate (with my loop antenna-which so far is great !) between
10-30 mhz.

I'll try anything between those two freqs...

Mike
 KD4EMI@AOL.COM
```

---

729. Maps for special events

From: KD4EMI@aol.com
Date: Sun, 28 Jan 1996 19:33:34 -0500
To: aprssig@tapr.org
Message-ID: <960128185307_408787543@mail06.mail.aol.com>
Rendered body type: text/plain

```
When we do a special event here in South Florida, we just find out
where its gonna be, go there with a mobile tracker, set the xmit to
ever 30 secs and run the course a couple of times.  Then go home
and make the map...!!

Doesnt everybody do that ?

MIke  KD4EMI@AOL.COM
```

---

730. Re: [APRSSIG:6337] help!

From: mlehmann@nerc1.nerc.com (Mark W Lehmann)
Date: Sun, 28 Jan 1996 19:37:14 -0500
To: aprssig@tapr.org
Message-ID: <v01530502ad315a02f867@[205.247.120.226]>
Rendered body type: text/plain

```
>Ok folks, another brainless question..
>
>Im running my ver 3 kam on 30M and VHF.
>
>I want to run gateway mode, but all the HF stations I hear are
>not getting retransmitted by me on the vhf port.
>
>I set my alias to gate/gate but the software keeps making it echo after
>a while.  What do I need to do..?
>
>MIke KD4EMI@AOL.COM

And make sure that your MYALIAS is set back to either echo or none on the
HF side, or it will needlessly digipeat all HF packets heard with GATE in
their Unproto path.

There seems to always be at least one station that has managed to leave
alias set to GATE, adding to an already congested frequency.

Thanks,

Mark

Mark W. Lehmann         | mlehmann@nerc1.nerc.com
534 Spring Hill Road    | Fax:6094668518
Skillman NJ 08558       | WO2J--APRS 145.79--30M GATE
```

---

731. Signal Reports

From: KD4EMI@aol.com
Date: Sun, 28 Jan 1996 20:08:04 -0500
To: aprssig@tapr.org
Message-ID: <960128200052_129797710@mail02.mail.aol.com>
Rendered body type: text/plain

```
I am operating on 30 meters for a couple more days.
Would appreciate a signal report.
```

Using a ICOM 706 with a MFJ loop antenna at 40 feet.
Running 100 watts.

Any reports would be appreciated.

So far best signals here are
KF0ZH
Wo2J
KU0G

Mike
KD4EMI@AOL.COM

---

732. pico packet

From: n4nr@vulcan.com (N4NR)
Date: Sun, 28 Jan 96 18:53:00 -0600
To: aprssig@tapr.org
Message-ID: <8B9B46D.0012000922.uuout@vulcan.com>
Rendered body type: text/plain

Hi Bob,

Yes, I have the same problem. It will keep parameters for a while, but after a short time, you power it up and it's lost everything. It's not just when I take it mobile...it happens in the shack, with 3 different power sources...makes no difference.

And...this is my second pico packet. The first one lost it's parameters EVERY time it was powered down and back up. I returned it and received another.

This is very dissapointing....it works fine as long as I don't power it down. I have not gotten around to contacting paccom about this one yet. Have you talked to paccom? I've got to phone them again soon about mine.

BTW im now running ver 3.2.9.2 dated Dec 10, 1995

Dennis - N4NR
n4nr@amsat.org
n4nr@vulcan.com

---

733. Automatic DF Interface

From: Mike Musick <71301.3106@compuserve.com>
Date: 28 Jan 96 22:27:35 EST
To: <aprssig@tapr.org>
Message-ID: <960129032735_71301.3106_FHJ36-1@CompuServe.COM>
Rendered body type: text/plain

A discussion mostly directed at Bob, Keith and Mark -

I'm somewhat involved in two separate efforts to design and build a "new generation" automatic Doppler DF system. Both are microprocessor-based and have working prototypes; one I'll call "2nd generation" because it replaces most of the discrete logic with the uP but still relies on the analog audio process familiar in the Roanoke, the other is "3rd generation" since it's an all-DSP approach. One - if not both - plans to incorporate an electronic compass for instantaneous absolute bearings.

The obvious upshot of both is that there's a lot more horsepower available for intelligent output, so right now we're furrowing our collective brows trying to figure out how to feed APRS. The two standards supported, DSI and N7LUE, lose too much useful information and assume no processing intelligence in the RDF.

The following is information potentially available from these new devices:

  Relative Bearing (bearing in relation to mobile heading)
  Absolute Bearing
  Magnetic Compass Heading
  Quality of RDF Report (on the DSP version)

Information we would like to get *from* APRS is:

  Reporting Interval
  Local Angle of Declination
    and
  A command for bearing-on-demand.

Any thoughts? Preferences? Since this firmware is in the formative stages we'd

```
like to know what would make your job easier and still take advantage of all
the information that's there.

  -----

Also, a somewhat-related suggestion - it would be really nice if we could have
within APRS a lookup table where local angle of declination is automatically
computed from the coordinates. No, this can't be perfect, but it could
certainly goof-proof AofD computation for longer-distance mobiles.

Looking forward to y'all's sage wisdom!

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.4f on an HP200LX palmtop
```

---

734. Pico Problems ?

From: mark.endicott@nashville.com
Date: Sun, 28 Jan 96 21:29:45
To: aprssig@tapr.org
Message-ID: <199601290351.VAA28654@sys1.tapr.org>
Rendered body type: text/plain

```
I have been watching the sig for several months and not
          had a lot to contribute,  up to this point.  However a
          recent development has caused me concern and I think others
          may want to avoid the problem that I ran into.
               In August of 95 I ordered a Dual Port Pico directly
          from PacComm.  I was told that there were delays of about 2
          to 3 weeks on this unit.  I agreed and patiently waited, I
          called every two or three weeks until November when it
          finally shipped, three months later.   When I received the
          Pico I was surprised to find out that most of the features
          advertised were not coded into the eprom.  There was an
          errata sheet that explained what was missing and that I
          would get a free eprom upgrade when the code was completed.
          On December 15th I received a new eprom as promised
          (following my call to them) with the new software with most
          of the advertised functions operating.  I had been having a
          problem with the unit resetting to defaults for no
          explainable reason.  I called PacComm, in mid December to
          ask about this problem and was told that it must be a
          software glitch because they had not seen the problem
          elsewhere. I continued to look for the cause without any
          luck.  On January 11th, having the Pico "drop dead" 5 times
          that week, I called PacComm again.  This time they said that
          yes indeed they had a problem with Pico's and to send it
          back.  The Pico arrived at PacComm on Jan 15th.  Today, Jan
          24, I called Paul to find out what the repair status was. I
          was told quite rudely that "it was on the bottom of the
          pile" and "if I wanted it fixed I should pack my tool box
          and come to Florida and fix it myself" And that he (Paul)
          didn't need this kind of problem as he had been out of town
          and just returned to the plant.  I was then transfered to
          Linda to discuss my options.  She, who has always been very
          nice, agreed to credit my card and accept the Pico back, the
          "right thing to do".
               I have been in the electronic communications industry
          for over thirty years.  I started my company in 1984 and
          have seen it grow because we treat customers fairly and,
          most, certainly politely.  I understand that things go wrong
          from time to time, and that service can be a pain when
          engineering fails to perform as expected. However, PacComm
          should be more responsive to their customers and refrain
          from advertising and delivering a product far before it's
          ready to market.  If you are considering the Pico I would
          recommend that you investigate the product and the company
          carefully. The six months that I have wasted on PacComm and
          this project have been very frustrating.


                  ________________________________________
                 |                                          |
                 |              Mark Endicott               |
                 |             P.O. Box 148242              |
                 |       Nashville, Tennessee 37214         |
                 |                 WB0NOO                   |
|        mark.endicott@nashville.com      |
|                                         |
|_________________________________________|
```

---

735. Re: [APRSSIG:6333] Re: GPS45 Antenna problem and fix

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 28 Jan 1996 19:56:34 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <068FE310C4572008*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Ralph, N4NEQ, sez:

Had same problem here in flooded Marietta (GA).  The GPS 45 flexible pcb
connection let go.  Of course that was after i drove off with the GPS on the
car roof and it hit the pavement at 35 mph.

     Ralph - I just checked the GPS 45 manual and it specifically says that
     you shouldn't use it on the car roof unless you tape it down first!!!

     (I did that to a camera a few years back - it was in the middle of the
     Mojave desert at Goldstone Tracking Station.  Got back to the motel
     abt 60 miles away, discovered that the camera was missing, and drove
     back the next morning to find in the dust.  Little mechanical parts
     don't fare well with shock and dust...)

     73 - Jon NW6H
```

---

736. Re: [APRSSIG:6330] Re: Eagle GPS

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 28 Jan 1996 19:56:34 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <068FE310C4572009*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
You sure the raccoons aren't out driving it around?


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6330] Re: Eagle GPS
Author:  LYNN4YCI@MUSIC.CC.UGA.EDU at Internet
Date:    1/27/96 10:01 AM


Gerry
Is this SA elipse why my car seams to travel in this elipse circle
after having my tracker on all night or as i thought is the 9 story
building blocking 50% of the sky causing this n-s elipse.
or possibility #3 is it both of these?
just curious
Lynn -N4YCI Athens Ga
```

---

737. Re: [APRSSIG:6337] help!

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 29 Jan 1996 11:58:32 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960129115519.25095A-100000@pinegov>
Rendered body type: text/plain

```
On Sun, 28 Jan 1996 KD4EMI@aol.com wrote:

> Ok folks, another brainless question..
>
> Im running my ver 3 kam on 30M and VHF.
>
> I want to run gateway mode, but all the HF stations I hear are
> not getting retransmitted by me on the vhf port.
>
> I set my alias to gate/gate but the software keeps making it echo after
> a while.  What do I need to do..?
>
> MIke KD4EMI@AOL.COM
>
>
Mike, it isn't your alias that needs to be changed to GATE, it is your
MYGATE that must be GATE.  Also, make sure the streamsw characters are
set at the factory standard of pipe "|" and tilde "~" for the dual port
kam operation.  And finally, maxusers must be >1 or you cannot use both
```

ports at the same time.

Hope this helps solve the problem, good luck.

de Kevin KD4UYR

---

738. PK-96 APRS Help

From: W4NBC@aol.com
Date: Mon, 29 Jan 1996 07:44:06 -0500
To: aprssig@tapr.org
Message-ID: <960129074404_209041177@emout06.mail.aol.com>
Rendered body type: text/plain

I have been trying to get my PK-96 to work with the 74C version of APRS. The
beacons go out but I am unable to receive anything. I just get garbage. I
have tried all parity options but still get "TNC NOT RESPONDING" or "I/O
Glitch Not Responding".
The PK-96 works just fine running JNOS or AX25. Any ideas would be
appreciated.
73, Earl

---

739. DOS maps on WinAPRS

From: jleonard@tbcnet.com (John B. Leonard)
Date: Mon, 29 Jan 1996 07:05:13 -0600
To: aprssig@tapr.org
Message-ID: <199601291305.HAA09642@tbc2.tbcnet.com>
Rendered body type: text/plain

Just downloaded WinAPRS from TAPR. Then loaded the DOS APRS maps I made
into the /map directory of the program.

To see the 1st results, go to URL
http://tbcnet.com/~jleonard/n9vjq.htm

73

```
---------------------------------------------------------------------------
N9VJQ/jbleonard's Home Page (just getting started...be patient) at
http://tbcnet.com/~jleonard/n9vjq.htm
---------------------------------------------------------------------------
```

J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

---

740. Re: [APRSSIG:6339] Map formats for Win/MacAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 29 Jan 96 9:03:50 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.822924230.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>
> Q: Anyone know what format the CIA database maps (micro world DataBank) are
> in? These CD-Roms are cheap. How about AutoMap Roadatlas or AutoMap Streets
> (from AutoMap now owned by MicroSoft).
>

I already have the Micro World DataBank (MWDB) and that is the source of the
world maps in MacAPRS/WinAPRS..

I also have the CIA DCW (Digital Chart of the World) that is the source of
my NEW fancy maps.

I also have some other CDs on order and am working on TIGER data..

>How about AutoMap Roadatlas or AutoMap Streets

These people aren't about to give out their data formats.. Otherwise, I would
LOVE to do it.. (My brother, Mark, KB2ICI, talked to Delorme about this
exact thing about 4-5 years ago, they WOULDN'T BUDGE, unless you had
$500,000)

Keith

```
Keith Sproul                              Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

741. Maps...

From: deang@MAIL.SYNTRON.COM
Date: Mon, 29 Jan 96 08:06:54 CST
To: aprssig@tapr.org
Message-ID: <9600298229.AA822931614@MAIL.SYNTRON.COM>
Rendered body type: text/plain

Concerning the issue of Maps for APRS...

I noticed nobody has brought up the subject of using CD-ROM based maps. Why draw maps at all when you could have the entire US at your disposal?

---

742. Re: [APRSSIG:6351] Automatic DF Interface

From: JAgrelo@aol.com
Date: Mon, 29 Jan 1996 09:10:23 -0500
To: aprssig@tapr.org
Message-ID: <960129091022_409168744@emout06.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-01-28 23:24:34 EST, you write:

>I'm somewhat involved in two separate efforts to design and build a "new
>generation" automatic Doppler DF system. Both are microprocessor-based and
>have working prototypes; one I'll call "2nd generation" because it replaces
most
>of the discrete logic with the uP but still relies on the analog audio
process
>familiar in the Roanoke, the other is "3rd generation" since it's an all-DSP
>approach. One - if not both - plans to incorporate an electronic compass for
>instantaneous absolute bearings.

> Relative Bearing (bearing in relation to mobile heading)
> Absolute Bearing
> Magnetic Compass Heading
> Quality of RDF Report (on the DSP version)

>Any thoughts? Preferences? Since this firmware is in the formative stages
>we'd like to know what would make your job easier and still take advantage
of all
>the information that's there.

>Also, a somewhat-related suggestion - it would be really nice if we could
>have within APRS a lookup table where local angle of declination is
automatically
>computed from the coordinates. No, this can't be perfect, but it could
>certainly goof-proof AofD computation for longer-distance mobiles.
>
>Looking forward to y'all's sage wisdom!
>
> ...mike musick/N0QBF
>
> 71301.3106@compuserve.com
> Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
> Operating APRS 7.4f on an HP200LX palmtop

Wow, I can't resist saying, it all sounds just like the DFjr & DF PRO,
EXACTLY.
The PRO is our DSP version, Compass and all. And the jr. is still
Microprocessor driven. It almost sounds like you could be reading our specs,
but that's not possible yet.

To see the almost completed DF stuff go see
http://home.navisoft.com/agrelo/ae.htm,
but maybe you have been there already.

73 de Joe N2OOC

```
-----------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
```

```
                                        Fx (518)381-1058
                                    E-mail- jagrelo@aol.com
                       In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                       and talking products
                         Experts in Microchip and Motorola processors
                  Cruise Missile Coordinates 42 47.427N,  073 56.525W
-----------------------------------------------------------------------------
-----------------
```

---

743. Re: [APRSSIG:6359] Maps...

From: sproul@ap.org (Mark Sproul)
Date: Mon, 29 Jan 1996 09:54:04 -0500
To: aprssig@tapr.org
Message-ID: <v02130506ad328f98423b@[165.1.27.20]>
Rendered body type: text/plain

```
>     Concerning the issue of Maps for APRS...
>
>     I noticed nobody has brought up the subject of using CD-ROM based
>     maps.  Why draw maps at all when you could have the entire US at your
>     disposal?

Because the format is SO COMPLICATED, it takes an entire extra program just
to decode the stuff and it is SLOW.  Also, the data is VERY verbose, we
take the data  and strip it down to what we need

We will be producing a CD-ROM of MacAPRS/WinAPRS maps that WILL be able to
do it all from our CD-ROM.

Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
___________________________________________________________________________
```

---

744. Re: [APRSSIG:6339] Map formats for Win/MacAPRS

From: sproul@ap.org (Mark Sproul)
Date: Mon, 29 Jan 1996 10:04:53 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ad328774589f@[165.1.27.20]>
Rendered body type: text/plain

```
Maps and Bitmap images used for maps has been a topic of considerable
discussion.

I am going to address these two examples directly.

>When you are providing support on the scene of a public service event  and
>are presented with a route map for the run/walk/whatever, by being able to
>take that map and scan it and save it as a .bmp or .gif file you could then
>use it as a custom map for the event!
>

We (Keith and I) have been involved in bike-athons and other events as you
discribe.  99.99% of the time the maps supplied by these people ARE NOT TO
SCALE.  For SCANNING to work AT ALL, the maps MUST be EXACTLY to scale.
They need to be even in n/s e/w relations etc.  I have not seen any map
supplied by these types of events that would even be close to usable.


>
>You are at the EOC and the EC has just consulted with his staff and they
>have decided (on the spot) to use roads x,y, and z for northerly evac routes
>and roads a,b, and c as Easterly evac routes to move civilians away from the
>present disaster (NO WAY you could have this map ready before hand). They

We CAN have the maps beforehand.  Everyone is used to the DOS-APRS maps,
their limitations and their style.  Our MacAPRS maps have always been
dramaticaly more complex and detailed.

We have been making GREAT progress on maps.  PLEASE PLEASE drop the
conversations of MAPS for a few weeks until you have had a chance to see
our new maps for MacAPRS and WinAPRS.
```

After people have had a chance to see our new maps for THEIR area, then, bring up the discussions again.

We have made an announcement and I will repeat it again.

We will be producing a CD-ROM for Dayton that will be FULL of maps. Hi resolution map of all 50 states and Canada, street maps of ALL major cities. Street maps of areas of ALL APRS activity that we know of and as much more as we can fit.

For any one that has SPECAIL needs before then, and as long as we dont get over loaded with requests, we will make hi-res maps for people on a request basis. We need to know the city and state you want and we will make it. We will be making all of these anyway over the next few months.

For some samples, check out our web pages and the maps section

http://www-ns.rutgers.edu/~ksproul/APRS/

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
___________________________________________________________________________
```

745. Re: DOS Maps on WinAPRS

From: jleonard@tbcnet.com (John B. Leonard)
Date: Mon, 29 Jan 1996 09:53:51 -0600
To: aprssig@tapr.org
Message-ID: <199601291553.JAA11480@tbc2.tbcnet.com>
Rendered body type: text/plain

I was asked by the author of WinAPRS to please put up GOOD maps on my web page.

The best maps I have laying around are DOS maps.

Because the author doesn't seem to think the DOS maps are suitable, I'll take them off.

Sorry, guys!

73

```
----------------------------------------------------------------------------
N9VJQ/jbleonard's Home Page (just getting started...be patient) at
http://tbcnet.com/~jleonard/n9vjq.htm
----------------------------------------------------------------------------
J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

746. RE: [APRSSIG:6321] NEMA

From: "Sadowski,P O4 USAF JCSAR/EDD" <sadowskp@jcsar.nellis.af.mil>
Date: Mon, 29 Jan 96 07:50:00 cst
To: aprssig <aprssig@tapr.org>
Message-ID: <310CD4A2@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Bob

I'm told that the DGPS info is the error satellite by satellite - and of
course
it's the satellites in view in roughly similar locations... I'd sure like to
know
if a simple single error applied will be good enuff.... I've also heard that
APRS has a error correction capability if your "base" station has a GPS
hooked up while the mobiles transmit their location....

Hope this helps..

AH6LS

Does anybody have any information on the NEMA data that is sent from the Differential GPS (DGPS) receiver to the GPS unit that gives the correction

information. I am interested in taking a GPS at a known location and
calculating the error and transmitting that information to other GPS's out
in
the field. I understand that this is not an original idea but am very
interested in any information that I may receive. Please send reply to
"kc4hdk@gate.net".

thank you

Bob

---

747. WinAPRS release Comments and review

From: Ed Rogers <edwardwr@inil.com>
Date: Mon, 29 Jan 1996 10:12:34 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601291612.KAA00244@sys1.tapr.org>
Rendered body type: text/plain

Hello,

As many of you know Mark KB2ICI and Keith WU2Z braved winter weather and the
congestion at ORD to travel here to Chicagoland this past weekend and
release the beta versions of WinAPRS.
We in NIAN wish to go on record and thank them for allowing us to be "first"
and to thank them for all the hard work that went into this program.
What follows is my first impressions of the program from someone who uses
both DOS and Mac versions, runs a standalone tracker on Land,Sea and Air and
has done some beta testing on software running the menu from Gov mainframe
stuff to AOL. Remember these are my comments only....

FIRST REMEMBER THIS IS A PROGRAM IN BETA STAGE ONLY, IT IS GOING TO HAVE
SOME BUGS AND MAY NOT YET HAVE ALL THE FEATURES IN PLACE, BE PATIENT AND IT
WILL COME....

Hardware used for my evaluations;

Quantex 486DX4 100, 16 meg ram, WD vid card 2meg vram, WIN95 OS, TNC TINY2
on COM4
Acer 486sx25 laptop, 4 meg ram, mono vga LCD, WIN95 OS, TNC KPC3 on COM1

Software WinAPRS beta 0.2.1, combo of DOS and MAC maps including some 30K +
data points

Comments

As a beta program this thing is fantastic!!! I have yet to make it crash,
even with my 4 meg ram laptop, if I open to many windows it just refuses to
go on unless I free up some memory but it doesnt dump the program! The
Quantex desktop has yet to slow down or stop loading any maps (after running
Mac APRS on 8 meg with ram doubler I was ready for difficultly with multi
windows and large maps).

The quality of maps on the program will astound DOS users it will display
MAC maps right out of the box, plus you do not have to worry about putting
new maps into a maplist file just stick them into the map folder (directory)
and you can use them. Also you mapmakers out there, make your maps using
data just as you did for DOS, but now you do not have to edit down the
number of points, just put them (any size) into the map folder and use them.

As you can tell Im impressed with this to date, it is not a replacement for
DOS APRS but rather an enhancement of the concept. DOS will continue to be
my program of choice for Mobile Ops because Im cheap and do not want to
expose my Windows laptop to the dangers involved in mobile computing, it
makes more sense to use a $100 640k 8088 for that <grin>.

CONS
Station Icons cover up map data, turn them off to enhance display (there
working on it)

Text on screen is hard to read, dont know if its font or display related.

No DOCs and many features not yet implemented (its Beta remember)...

all for now
73
Ed
N9LCI

748. Re: [APRSSIG:6331] Re: NEMA

```
From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Mon, 29 Jan 1996 08:46:32 -0800
To: aprssig@tapr.org
Message-ID: <199601291658.IAA16878@cellmail.cellnet.com>
Rendered body type: text/plain
```

```
One NMEA specification (MMEA-0183 is what I am using) defines the data
stream FROM the GPS receiver to peripheral equipment (printers, computers,
displays, etc.).  The link from a differential correction receiver TO the
GPS receiver is defined by a specification known as "RTCM-104".  I do not
know who put's this out, but I know it is working for me between products of
different vendors.  I think I saw something on this in the Coast Guard's web
page...



>>Does anybody have any information on the NEMA data that is sent from the
>>Differential GPS (DGPS) receiver to the GPS unit . . .
```

---

749. Additional Comments

```
From: Ed Rogers <edwardwr@inil.com>
Date: Mon, 29 Jan 1996 12:08:00 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601291808.MAA05915@sys1.tapr.org>
Rendered body type: text/plain
```

```
Forgot (must be age related)

Cons

Will not run TNC port under Win 3.1 or 3.11 without 32 bit add on

BTW Keith (or was it Mark <grin> ) did the $10 Motorola card you saw before
I did work....

Ed
```

---

750. Re: [APRSSIG:6365] WinAPRS release Comments and review

```
From: Rod Hignite <rhignite@interramp.com>
Date: Mon, 29 Jan 1996 13:39:21 -0800
To: aprssig@tapr.org
Message-ID: <310D3E89.4912@interramp.com>
Rendered body type: text/plain
```

```
Ed Rogers wrote:
>
> Hello,
>
> As many of you know Mark KB2ICI and Keith WU2Z braved winter weather and the
> congestion at ORD to travel here to Chicagoland this past weekend and

>>>>>deleted<<<<<<<

> No DOCs and many features not yet implemented (its Beta remember)...
>
> all for now
> 73
> Ed
> N9LCISo I thought that it would be made, as beta, available for all to try
after this demo/release.  Is WinAPRS available for download yet?

Rod - KB3MK
```

---

751. Re PK-96 APRS Help

```
From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 29 Jan 1996 12:47:31 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad32c3207d07@[199.1.154.135]>
Rendered body type: text/plain
```

```
>I have been trying to get my PK-96 to work with the 74C version of APRS. The
>beacons go out but I am unable to receive anything. I just get garbage. I
>have tried all parity options but still get "TNC NOT RESPONDING" or "I/O
>Glitch Not Responding".
>The PK-96 works just fine running JNOS or AX25. Any ideas would be
>appreciated.
>73, Earl
```

```
I use a PK-96 all the time for both Mac and PC APRS base station.
Most items are default. I don't have the lastest GPS firmware
that is now available for the PK-96

Try a regular comm program to test, the computer baud rate might
be incorrect. Try the default 9600 baud , 8 bits, no parity, one stop bit.
(the old 8,none and 1)

You might try a full reset to factory settings or use 4800 baud if
you have a older PC.

If all else fails send me, by private e-mail, your display settings and
I will look them over.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

752. RE: [APRSSIG:6366] Re: NEMA

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Mon, 29 Jan 1996 13:26:23 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960129132623.2041a293@exame2.dseg.ti.com>
Rendered body type: text/plain

```
A little digging around on the net, and I found what may be the mother lode
of navigational and GPS information. Has detailed discussions on both GPS
and DGPS systems. There were a number of other hits along the way using the
alta vista web index and the search string "rtcm-104", also. However, look at:

   http://www.navcen.uscg.mil

73 Claude
   K5DTN
```

---

753. Re: [APRSSIG:6368] Re: WinAPRS release Comments and review

From: sproul@ap.org (Mark Sproul)
Date: Mon, 29 Jan 1996 14:34:14 -0500
To: aprssig@tapr.org
Message-ID: <v02130507ad32d18d9d34@[165.1.27.20]>
Rendered body type: text/plain

```
>> No DOCs and many features not yet implemented (its Beta remember)...
>>
>> all for now
>> 73
>> Ed
>> N9LCISo I thought that it would be made, as beta, available for all to try
>after this demo/release.  Is WinAPRS available for download yet?


Yes, it is on TAPR, and there ARE DOCS, see the web site

http://www-ns.rutgers.edu/~ksproul/APRS/

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

---

754. Re: [APRSSIG:6352] Pico Problems ?

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
Date: Mon, 29 Jan 1996 12:09:27 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199601292009.MAA06990@archimedes.vislab.navy.mil>
Rendered body type: text/plain

```
>           ...  When I received the
>           Pico I was surprised to find out that most of the features
>           advertised were not coded into the eprom.  There was an
>           errata sheet that explained what was missing and that I
>           would get a free eprom upgrade when the code was completed.

Oh, yes.  The errata sheet.  Was I surprised to find out a few things about
my Pico on that piece of paper.  Like no DCD (open squelch) or KISS mode.
```

```
I never saw these features advertised, but I just figurerd they'd be part
of a modern TNC...

>           ...  I was then transfered to
>           Linda to discuss my options.  She, who has always been very
>           nice, agreed to credit my card and accept the Pico back, the
>           "right thing to do".

When I called PacComm (don't know who I talked to) to discuss the Pico,
the *first* thing the lady asked was "Do you wish to return it?"

>           ... If you are considering the Pico I would
>           recommend that you investigate the product and the company
>           carefully. The six months that I have wasted on PacComm and
>           this project have been very frustrating.
>

I've had great luck with a Tiny-2 and a Sprint-2 from PacComm.  But I had
nothing but trouble from my Pico.  I could not get it to power up from
6VDC (advertised to run on 6VDC!), or 9VDC, but only off my 13.8 VDC
power supply! (There goes the portability :-)  I don't know whether it
had some serious problems or just a old EPROM.  You should have seen the
look on my face when I opened the unit and saw "PRE-RELEASE" on the EPROM!
I get the feeling that the product wasn't ready to go out the door, and
hence, I returned it.  I'll get a KPC-3 instead...

73, jan
kc6uth

jan@vislab.navy.mil
```

---

755. Re: [APRSSIG:6370] Re: NEMA

From: Jim DeLoach <jim.deloach@cellnet.com>
Date: Mon, 29 Jan 1996 13:13:06 -0800
To: aprssig@tapr.org
Message-ID: <199601292125.NAA23486@cellmail.cellnet.com>
Rendered body type: text/plain

```
Cool.  Glad it worked.  I've been to that coast guard site, but havn't done
much reading other than to check on the status of the local beacon
transmitter.  I'll have to look it over more carefully.

Cheers.

Jim

At 01:31 PM 1/29/96 -0600, you wrote:
>A little digging around on the net, and I found what may be the mother lode
>of navigational and GPS information. Has detailed discussions on both GPS
>and DGPS systems. There were a number of other hits along the way using the
>alta vista web index and the search string "rtcm-104", also. However, look at:
>
>   http://www.navcen.uscg.mil
>
>73 Claude
>   K5DTN
>
>
>
```

---

756. WinAPRS Beta mailing list

From: sproul@ap.org (Mark Sproul)
Date: Mon, 29 Jan 1996 15:57:09 -0500
To: aprssig@tapr.org
Message-ID: <v02130502ad32e3c1dd9c@[165.1.27.20]>
Rendered body type: text/plain

```
TAPR now has a NEW mailing list.. The new list is  winaprs@tapr.org

To subscribe to this list send mail to

        listproc@tapr.org

with the following in the body of the message


        subscribe  winaprs  <your name>
```

This list is for the DISCUSSION of the WinAPRS beta.. It is NOT for discussion of general APRS topics. Lets keep them on the APRSSIG!

The people that SHOULD subscribe to this list are those actively using WinAPRS.

We recommend that only those people activily using WinAPRS beta subscribe to this list.

The types of things this list is designed for is issues pertaining to the development of WinAPRS. It is more for the discussion of what needs to be done in the program, priorities, bugs, incompatibilities, etc.

This was suggested by some of the people in Illinois as a mechanism to allow those involved to know what is going on, and so that we don't get deluged with hundreds of reports of the same little problem, etc.

Mark Sproul

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

---

757. Re: [APRSSIG:6371] Re: WinAPRS release Comments and review

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 29 Jan 1996 16:29:38 -0500
To: aprssig@tapr.org
Message-ID: <199601292130.NAA00123@ix8.ix.netcom.com>
Rendered body type: text/plain

At 01:38 PM 1/29/96 -0600, you wrote:
>
>Yes, it is on TAPR, and there ARE DOCS, see the web site

>http://www-ns.rutgers.edu/~ksproul/APRS/

Is there any other BBS site I can DL it from? I have tried twice from TAPR and lost connection twice after getting over 1 meg downloaded. Also are the Docs in the Zip file or at the http site?

Thanks, de Bill WA4VAF

```
=========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
=========================================================================
```

---

758. Re: [APRSSIG:6375] Re: WinAPRS release Comments and review

From: sproul@ap.org (Mark Sproul)
Date: Mon, 29 Jan 1996 17:16:22 -0500
To: aprssig@tapr.org
Cc: wricharz@ix.netcom.com
Message-ID: <v02130503ad32f788831e@[165.1.27.20]>
Rendered body type: text/plain

>>Yes, it is on TAPR, and there ARE DOCS, see the web site
>
>>http://www-ns.rutgers.edu/~ksproul/APRS/
>
>
>Is there any other BBS site I can DL it from? I have tried twice from TAPR
>and lost connection twice after getting over 1 meg downloaded. Also are the
>Docs in the Zip file or at the http site?

We are working on more sites and docs that can be distributed.

Mark

```
____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129

http://pilot.njin.net/~msproul
____________________________________________________________________________
```

---

759. How does it work?

From: AlChan@aol.com
Date: Mon, 29 Jan 1996 17:56:40 -0500
To: aprssig@tapr.org, alchan@ix.netcom.com, al.chan@toadhall.com,
AlChan@aol.com
Message-ID: <960129175316_209379936@emout05.mail.aol.com>
Rendered body type: text/plain

Subj: How does it work?

Anyone interested in how GPS works may purchase the February 1996 issue of Scientific American, in which there is a 5-page article by Thomas A. Herring, associate professor at MIT.

Further reading:

Measurement of Crustal Deformation Using the GPS.
(Annual Review of Earth and Planetary Sciences, Vol. 19.)

The Navstar GPS. Tom Logsdom, Van Nostrand Reinhold, 1992

GPS World. Monthly magazine published by Advanstar Communications, 859 Williamette Street, Eugene, OR 97401.

International GPS Service for Geodynamics site on the World Wide Web at http://igscb.jpl.nasa.gov/

The University Navstar consortium site on the World Wide Web at http://www.unavco.ucar.edu/

```
 ----------------------------------------------

  AL
  """""""""""""""""""""""""""""""""""""""""""""
           AlChan@aol.com     Al@w6dnt.ampr.org
```

---

760. WINAPRS

From: Steve Sable <ssable@ic.net>
Date: Mon, 29 Jan 1996 18:23:14 -0500
To: aprssig@tapr.org
Message-ID: <m0th2ur-003MiwC@ic.net>
Rendered body type: text/plain

Humm, something wrong here. Running Packard Bell 75mhz Pentium with a PK-900
and nothing much happened here with WINAPRS. Screen came up but most
function's disabled. Trying to open VHF TNC and keep getting msg cant open
port. All selection's for TNC and station info and such are all "ghosted"
out. Tried to start WINAPRS in host mode and other's and have done a hard
re-set, and still same thing, nothing. Went through CFG file and filled in
what I could.
Gonna keep trying but wont hold my breath.

```
                                  \\\\
                                  (o^o)
    =========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    ========================================================
```

---

761. RE: [APRSSIG:6376] Re: WinAPRS release Comments and review

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Mon, 29 Jan 1996 17:54:07 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960129175407.2041805c@exame2.dseg.ti.com>
Rendered body type: text/plain

To: The Brothers Sproul: Will WinAPRS run under Windows NT?

73 Claude
K5DTN

```
chead@exame2.dseg.ti.com
```

---

762. Automatic Track History save

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Mon, 29 Jan 1996 16:11:30 -0800
To: aprssig@tapr.org
Message-ID: <v01510108ad33100079ef@[128.149.100.84]>
Rendered body type: text/plain

```
I've finally started using PC-APRS on-the-air. One thing I notice is that
when the track memory gets to 100% and resets, I cannot find any evidence
of a saved track history file that FILES-REPLAY implies should be
automatically created. Any thoughts?

-Greg

--
Gregory R. LaBorde - KD6MSM         | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory           | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET   | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive    | Phone   : (818) 393-1107
Pasadena, CA  91109                 |
```

---

763. WinAPRS Subscribe

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 29 Jan 1996 17:12:02 -0700
To: aprssig@tapr.org
Message-ID: <199601300012.RAA17897@usr5.primenet.com>
Rendered body type: text/plain

```
WinAPRS   Subscribe   Alan K. Unangst, WC7R
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

764. Eagle/KPC3 Help

From: Tom & Linda MacKay <mackay@lr.net>
Date: Mon, 29 Jan 1996 19:34:14 -0500
To: aprssig@tapr.org
Message-ID: <199601300047.TAA08377@ns1.lr.net>
Rendered body type: text/plain

```
Can any one help?  I have an Eagle Accunav sport and a KPC3/ver6. I am also
using a AEA switch on the rs232 connecter.  Every time I connect this
connecter it sees that I can't change my unpronto and it always comes back
with c"current Digipeter is (blank) and I can't change it. If I disconnect
this connector APRS work OK.

I don't even know if I have set the software up correctly to accept GPS.

I would appreciate it if there is any one out there who can help in layman
tearms (not to technical).

I beleave the only thing I had to do to the Eagle was to make sure it was on
NMEA was 0183/starlink with no beacon set up. Again if this is wrong, please
help.



Tom
```

---

765. Download WinAPRS

From: davidc@tbcnet.com (David Chesser)
Date: Mon, 29 Jan 1996 18:50:37 -0600
To: aprssig@tapr.org
Message-ID: <199601300050.SAA19006@tbc2.tbcnet.com>
Rendered body type: text/plain

```
NIAN's has put up WinAPRS on our web page for any to download  at
http://tbcnet.com/~davidc/aprs.html
```

---

766. Fan mail from some flounder

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 29 Jan 1996 16:50:19 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <03633310D6B4B001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
---------------------------- Forwarded with Changes ---------------------------
From: kd6msm@jpl-gw.w6vio.ampr.org at Internet
Date: 1/24/96 11:07PM
To: Jon T Adams at JPL-B161
Subject: JPL BTEXT
-------------------------------------------------------------------------------
```

[Attachment: ATTACH01.TXT; text/plain; 618 bytes]

767. Re: [APRSSIG:6375] Re: WinAPRS release Comments and review

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 29 Jan 1996 19:58:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960129195130.14369F-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 29 Jan 1996, William Richarz wrote:

> Is there any other BBS site I can DL it from?  I have tried twice from TAPR
> and lost connection twice after getting over 1 meg downloaded.  Also are the
> Docs in the Zip file or at the http site?
>

If your communications software allows it, use ZMODEM to download files.
Not only is it a fast, reliable protocol, but if you get dumped in the
middle, it will *re-start from the middle* when you re-connect. It won't
re-start automatically ... you have to tell it to download the file just
as you did originally, but it checks your download directory for the file
and will see that it is already partially there, and will then start at
the proper spot to complete the download.

So instead of two tries with 1 meg unsuccessful results, you would have
now have a file 2 meg long (or a complete file...I don't know how big it
is) that may be finished on the third try.

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

768. Re: Sampe WinAPRS maps

From: jleonard@tbcnet.com (John B. Leonard)
Date: Mon, 29 Jan 1996 19:18:51 -0600
To: aprssig@tapr.org
Message-ID: <199601300118.TAA19260@tbc2.tbcnet.com>
Rendered body type: text/plain

```
It seems that I owe Mark and a few others an apology.  In what he meant to
be a good-natured hint, I took as a flame, and I took it public to the SIG.
My apologies to all.

And if you have web access, please check into
http://tbcnet.com/~jleonard/n9vjq.htm
to see the screen shots of DOS maps on APRS, DOS maps as they appear on
WinAPRS (great!), and the maps that Mark and Keith Sproul made for inclusion
with WinAPRS.

What I wanted to show was how easily maps made by the MAPFIX program were
used by the WinAPRS program, and how nice they looked.

As hopefully we'll all now find out, maps can be used from one end of the
APRS computer spectrum to the other.

Thanks to Bob, Keith, and Mark.  They all deserve a lot of praise.
--------------------------------------------------------------------------
N9VJQ/jbleonard's Home Page (just getting started...be patient) at
http://tbcnet.com/~jleonard/n9vjq.htm
--------------------------------------------------------------------------
J Barry Leonard
Amateur Radio Call N9VJQ
Subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

769. Re: [APRSSIG:6356] PK-96 APRS Help

From: ETHOLMEN@aol.com
Date: Mon, 29 Jan 1996 20:48:25 -0500
To: aprssig@tapr.org
Message-ID: <960129204624_306903950@mail06.mail.aol.com>
Rendered body type: text/plain

Hi Earl;

I have a similar problem if I try to run my PK-96 at 19200
baud when talking to the computer. I use it at that speed
when running WISP and talking to the 9600 baud birds
but APRS doesn't like it that fast. So I set it to 9600
baud when using it with APRS. Also make sure expert mode
is turned on. Also if you are using the packratt software,
make sure you uncheck the host mode on exit. I have used
mine also for working Meteor Scatter with APRS and it works
just fine. Also be sure to select AEA when starting up from
the begining menu.

Good Luck   Gene, N9GJJ

---

770. Re: [APRSSIG:6381] WinAPRS Subscribe

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 29 Jan 1996 20:48:57 -0000
To: aprssig@tapr.org
Message-ID: <199601300149.TAA26915@sys1.tapr.org>
Rendered body type: text/plain

Huh?
Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM

---

771. Re: [APRSSIG:6376] Re: WinAPRS release Comments and review

From: n4nr@vulcan.com (N4NR)
Date: Mon, 29 Jan 96 19:40:00 -0600
To: aprssig@tapr.org
Message-ID: <8B9C49C.0012000946.uuout@vulcan.com>
Rendered body type: text/plain

-> >>Yes, it is on TAPR, and there ARE DOCS, see the web site
-> >
-> >>http://www-ns.rutgers.edu/~ksproul/APRS/
-> >
-> >
-> >Is there any other BBS site I can DL it from? I have tried twice
-> from TAPR >and lost connection twice after getting over 1 meg
-> downloaded. Also are the >Docs in the Zip file or at the http site?

WINAPRS.ZIP and WINAPRS.DOC are available for download at the
Birmingham, Alabama WireNET BBS (PC-Board) at 205-444-WNET.

(Mark...please advise if this is not OK with you)

Dennis - N4NR
n4nr@vulcan.com

---

772. Re: [APRSSIG:6307] 1/26/96 10:04:54 a

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 29 Jan 1996 19:58:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601300158.TAA13611@solar.cs.tamu.edu>
Rendered body type: text/plain

If there's a preference I'll take this off-line.

AlChan@aol.com sez:
>
> Where can get some rudimentary circuit description and block diagrams of the
> GPS and the Differential GPS? Perhaps someone in this forum can answer my
> few not-so-intelligent questions:

http://www.zilker.net/~hal/geoscience/gps.html

Hal Mueller's page is a great place to start.

> 1. What microwave band are these satellites transmitting in?

L band, with the L1 signal (Coarse Acquisition) at 1542.75 MHz, and the L2
signal centered at 1275 MHz.

> 2. What protocol do they use? Packet? Datagrams? ACARS? tcp/ip?

GPS words based on DoD ICD-GPS-200. It's a series of 30 bit words with 24 data bits and 6 parity bits. The data rate is 50 bps.

> 3. What data are contained in each datagram?

Timing information, primarily, although Satellite Broadcast messages are interspersed, as well as a periodic Almanac, Health, and Ephemeris data. Ephemeris data are transmitted by each satellite ONLY for that satellite.

> 4. What improvement does the _Differential_ GPS have on its accuracy.

Approximately one order of magnitude. If you have an anticpated error of 100 meters without differential correction, you cn safely anticipate an error ellipse of _about_ 10 meters with differential correction. Depending on the differential technique.

> 5. What is the accuracy with the D-GPS? As opposed to GPS.

L1-C/A code (the fancy way to say, "civilian") can expect 15-45 meter ellispes of error with Selective Availability turned off, and 30-100 meter errors with SA on. SA is a method the DoD uses to degrade performance intentionally so as to prevent enemies from using GPS for precise positioning for military purposes. Differential correction can effect a single order of magnitude improvement in positioning error, or, 1.5-4.5 meters with SA off, and 3.0-10 meters with SA on. The SA-off numbers assume *everything* is working perfectly.

the intrinsic error of GPS will actually limit precision to about 10 meters in most cases due to common mode errors. Some of these errors can be countered in post-processed differential correction using precise positions for the various Space Vehicles, known as precise ephemeris, as well as applying conventional differential positioning data after the fact.

> 6. How does the Pentagon "dither" the transmission. Is it continuous, fixed, or does it hop all over the place constantly? How much is the dithering? 10 meters? 20 meters? What intervals does the dithering take place?

"Dithering" is known officially as selective availability. The DoD applies errors in the messages broadcast by the satellites to the C/A users that effectively lie about both satellite ephemeris (thereby giving a wrong satellite position by some number of meters) and timing (effecting a mistaken solution for range to the satellite). The dithering is pseudorandon, and the result of a classified and extensive algorithm. To the best of my knowledge, it has not been cracked. It usually causes the apparent position of a fixed station to "wander" in the pattern of a drunkard's walk, with occasional jumps in apparent position that cannot be accounted for by common mode error or selection of a different satellite for position solution. Over the period of a day (24.0 hours) the net error of an appropriately averaged position should be zero based solely on error induced by SA.

> 7. What kind of clock do the satellites have? Cesium clock or Rubidium?

Yes. The Block 2 satellites use a Cesium standard that is time-corrected daily by the 4 locked standards operated by DoD.

> 9. What is the accuracy of said clock?

Good question. I do not recall the exact number but it must be better than a nanosecond.

> Thanks. 73
>
>   AL
>   """"""""""""""""""""""""""""""""
>   AlChan@aol.com   Al@w6dnt.ampr.org

73, Gerry
Cows In Space is working after 4 days, IN THE FIELD!
--
Gerry Creager N5JXS   * SAREX Co-Investigator
gerry@cs.tamu.edu   *   A little radio that lets kids talk
                                     *   to astronauts, and smile
****

773. Win32S

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 29 Jan 1996 21:01:49 -0500
To: aprssig@tapr.org

Message-ID: <199601300202.SAA26223@ix2.ix.netcom.com>
Rendered body type: text/plain

```
Downloaded Winaprs...now, where can I find the Win32S file that I need.  I'm
still behind the times here with Windows 3.1.

Thanks, 73 de Bill
```

---

774. Re: [APRSSIG:6321] NEMA

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 29 Jan 1996 20:08:49 -0600 (CST)
To: aprssig@tapr.org
Cc: kc4hdk@gate.net
Message-ID: <199601300208.UAA13814@solar.cs.tamu.edu>
Rendered body type: text/plain

```
kc4hdk@gate.net sez:
>
> Does anybody have any information on the NEMA data that is sent from the
> Differential GPS (DGPS) receiver to the GPS unit that gives the correction

There is a pseudo-NMEA set of messages that has been defined.  Otherwise, the
corrections are sent at RTCM SC-104 format (currently Version 2.1).

RTCM == Ratio technical Commission for Maritime Operations
SC-104 == Special Committee 104 (GPS Corrections data)


Gerry
n5jxs@tamu.edu
```

---

775. Re: [APRSSIG:6330] Re: Eagle GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 29 Jan 1996 20:16:26 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601300216.UAA13967@solar.cs.tamu.edu>
Rendered body type: text/plain

```
HOLCOMB, GREGORY FRA sez:
>
> Is this SA elipse why my car seams to travel in this elipse circle
> after having my tracker on all night or as i thought is the 9 story
> building blocking 50% of the sky causing this n-s elipse.
> or possibility #3 is it both of these?
> just curious

More than likely, a combination of _3_ things:

1.  SA-induced wandering.
2.  System common mode errors you cannot reasonably hope to fix (imprecision
in things like the receiver's clock and the transmitted ephemeris vice the
satellite's actual position
3.  Imperfect geometry due to the building blockage.

73, gerry
gerry@cs.tamu.edu
```

---

776. Re: [APRSSIG:6364] RE: NEMA

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 29 Jan 1996 20:39:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601300239.UAA14690@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Sadowski,P O4 USAF JCSAR/EDD sez:
>
> I'm told that the DGPS info is the error satellite by satellite - and of
> course
> it's the satellites in view in roughly similar locations... I'd sure like to
> know
> if a simple single error applied will be good enuff.... I've also heard that

Correct on one part:  It is SV by SV generated.  Assume you have a base at a
well-surveyed point, with precise coordinates.  That site receives all
satellites in view.  It calculates a pseudorange based on ephemeris data
supplied by each satellite.  It acquires pseudorange data from each message
from the bird.  The correction for pseudorange is the difference for EACH
satellite.  Similar things are done for the rate of pseudorange change.
```

```
A single correction applied by the receiver to each Satellite's data would
give real error... or garbage.

73, gerry
```

---

777. Re: [APRSSIG:6376] Re: WinAPRS release Comments and review

From: john.kerr@projectx.com (SYSOP)
Date: Mon, 29 Jan 96 22:07:00 -5
To: aprssig@tapr.org
Message-ID: <8B9C52F.0021000F45.uuout@projectx.com>
Rendered body type: text/plain

```
-> We are working on more sites and docs that can be distributed.
->
-> Mark

        We have now posted the beta code on our WWW site, and our
        LL BBS for those in the Toronto area.

        Project X can be reached at (905) 792-7890 or our web
        site can be reached at  www.projectx.com  and for those
        who want strictly FTP access, the latest code is available
        from  ftp.projectx.com

        We have renamed the file to download to  WAPRS020.ZIP
        so that it reflects the actual rev. level of the files.

        Enjoy...John VE3SVE
```

---

778. GPS MagMounts

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jan 1996 22:48:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960129224629.12466A-100000@greatlakes>
Rendered body type: text/plain

```
Ive finally decided to build some new TRACKERS and want to build 'em as
magmounts.   Anyone know a source of the mag mount disks with a bolt in
the middle of them?  I need a bunch!
```

---

779. Re: [APRSSIG:6380] Automatic Track History save

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jan 1996 23:06:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960129230454.12466I-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 29 Jan 1996, Gregory R. LaBorde wrote:

> I've finally started using PC-APRS on-the-air. One thing I notice is that
> when the track memory gets to 100% and resets, I cannot find any evidence
> of a saved track history file that FILES-REPLAY implies should be
> automatically created. Any thoughts?

WB4APR REPLY COMMENT:

Hit the TAB key and see the setting of LOG.  It must be in uppercase or
your LGOS are NOT automaticaly saved when they get full, but are dumped.....
The default is NO LOGS.  Im going to change the default back to ON in the
next version, since so many of us have lost good data that way...
```

---

780. Re: [APRSSIG:6391] Win32S

From: "Charles W. Doolittle-Scovish" <doolic@rpi.edu>
Date: Mon, 29 Jan 1996 23:22:27 EST
To: aprssig@tapr.org
Message-ID: <199601300422.XAA02366@rembrandt.its.rpi.edu>
Rendered body type: text/plain

```
ftp.microsoft.com

file name is PW1118.EXE

should be in the modules directory.


Charles
N1SPX
```

781. Re: [APRSSIG:6391] Win32S

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Mon, 29 Jan 1996 22:32:58 -0800
To: aprssig@tapr.org
Message-ID: <310DBB9A.4A93@crpl.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
William Richarz wrote:
>
> Downloaded Winaprs...now, where can I find the Win32S file that I need.  I'm
> still behind the times here with Windows 3.1.
>
> Thanks, 73 de Bill

        You can get win32s from
http://cwsapps.texas.net/plugin.html#openscape

One thing I haven't seen discussed yet is Winaprs doesn't have the serial
port stuff working yet under windows 3.1, 3.11. It will only work with
your TNC under 95 or NT.
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

782. Re: [APRSSIG:6385] Re: WinAPRS release Comments and review

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 29 Jan 1996 23:59:30 -0500
To: aprssig@tapr.org
Message-ID: <199601300500.VAA14711@ix7.ix.netcom.com>
Rendered body type: text/plain

```
At 07:06 PM 1/29/96 -0600, you wrote:
>
>If your communications software allows it, use ZMODEM to download files.
>Not only is it a fast, reliable protocol, but if you get dumped in the
>middle, it will *re-start from the middle* when you re-connect. It won't
>re-start automatically ... you have to tell it to download the file just
>as you did originally, but it checks your download directory for the file
>and will see that it is already partially there, and will then start at
>the proper spot to complete the download.
>
>So instead of two tries with 1 meg unsuccessful results, you would have
>now have a file 2 meg long (or a complete file...I don't know how big it
>is) that may be finished on the third try.


Don't think you can use Zmodem here on the Internet to FTP files, at least I
can't do that with my software...only way I use Zmodem is when I dial into a
BBS and that works great there, but going to ftp.tapr.org, FTP is the only
choice that I know of...

Thanks for the help...

73 de Bill
========================================================================
Bill Richarz <WA4VAF>             | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.            | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227               | Phone   : (704) 545-9368
========================================================================
```

---

783. APRSTIPS

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Mon, 29 Jan 1996 23:43:47 -0500 (EST)
To: APRSSIG@tapr.org, KC4ZGQ@AOL.COM
Message-ID: <01I0LMZMMIK29D52F2@delphi.com>
Rendered body type: text/plain

```
____MESSAGE HEADER INFORMATION DO NOT WRITE ABOVE THIS LINE______
```

I wrote this file with the intent to post it as a bulletin in my pbbs. I wanted to provide new users with a concise guide to the basics of using APRS'S generic callsigns. My desire is to decrease the use of inappropriate outgoing paths. My hope is that most hams will want to use the correct technique if they are given an opportunity and an explanation of the reason.

Any comments or suggestions are welcome. I would especially like to hear from Bob Bruniga if he feels that anything needs clarification or improvement.

I limited myself to keeping the file under 4k so that it would fit in most tnc mailboxes and could be read with minimal disruption.

Comments or suggestions can be sent to me via the sig if of interest to all or to these address for personal replies.

<JKHAM@DELPHI.COM> OR <KC4ZGQ@AOL.COM>

-------------------------SNIP--

Hello and welcome to the KC4ZGQ WIDE-RELAY digipeater located in MACON GA. I prepared this file to offer new users of APRS some hints on how to set some of the parameters used in APRS. These are not my suggestions alone they are derived from the documentation provided with the aprs program and the on going discussions on the <APRSSIG@TAPR.ORG> on the INTERNET. These tips are designed to allow the new user to get the most range with the least QRM to the frequency.

First a brief explanation of APRS and how it works. APRS is an UNCONNECTED packet protocol. This means that it uses the, <UI> {unconnected information frames} that your tnc sends to the address you specify in the UNPROTO command in your tnc. APRS has many uses in real time position and weather reporting. APRS uses several generic callsigns to allow mobiles to report their position without having to set a new outgoing path in their UNPROTO command. Many mobiles consist of a TNC,RADIO, and GPS {GLOBAL POSITIONING SYSTEM} receiver. Without a computer attached changing TNC commands is difficult. These generic callsigns should not be used for normal APRS operations. These generic callsigns are listed below with an explanation of their normal usage.

1: The <WIDE> alias is used as a link between widely separated areas. If there are more than two digis with the alias of <WIDE> in a given area they will digi in a circle and generate numerous unnecessary packets. So please don't set your MYALIAS or MYNODE callsign to <WIDE> without asking an experienced APRS operator if it is appropriate.

2: The <GATE> alias is used to allow mobiles on HF to report their location through a <GATE> station and into local VHF networks. GATE should almost never appear in a VHF stations outgoing path. The reason for this is that the VHF networks are operating at 1200 baud while HF is only running at 300 baud. It only takes a few VHF beacons to totally saturate the HF network NATIONWIDE. This will not make you very popular. On occasion special events may be gated VHF>HF but this is only done with prior planning. So please don't set your UNPROTO to <APRS VIA GATE>.

3: The <RELAY> alias is used to allow low power mobiles that are in range of any APRS station to digi into the net through an APRS home operators station. It is ok to set your tnc myalias to <RELAY>. However you should not set your UNPROTO to <APRS VIA RELAY...> for a home APRS station. This path is ok for low power mobiles.

Now you no doubt are asking what should I use in order to be seen both locally and in other parts of the state. My suggestion as a place to start is to set the following in your tnc.

```
MYCALL  = CALLSIGN
MYALIAS = RELAY
MYNODE  = CALLSIGN -SSID   OR LEAVE IT BLANK
UNPROTO = APRS VIA KC4ZGQ,WIDE
```

I used my own callsign in the above example you should use the callsign of the wide area digi that you hear the best. The extra wide will cause your packet to be repeated by the next wide area digi beyond the first callsign. The alias of relay in your myalias will allow a low power mobile to digi through you to the network. APRS gives you the option to change your UNPROTO ADDRESS as often as you wish. You can set up to 12 out going paths using the OPS-DIGI COMMAND from within APRS.

I prepared this file to offer help to new users of APRS. I am not
trying to dictate my way or demand that people follow the "rules".
I only hope that these suggestions will get new users up and running
with a minimum of problems. I can be contacted at the following
addresses on the internet.

JKHAM@DELPHI.COM

KC4ZGQ@AOL.COM

OR VIA THE KR4OL BBS IN MACON.

---

784. Re: [APRSSIG:6399] Re: Win32S

From: William Richarz <wricharz@ix.netcom.com>
Date: Tue, 30 Jan 1996 00:44:45 -0500
To: aprssig@tapr.org
Message-ID: <199601300545.VAA16184@ix11.ix.netcom.com>
Rendered body type: text/plain

```
At 10:39 PM 1/29/96 -0600, you wrote:
>
>One thing I haven't seen discussed yet is Winaprs doesn't have the serial
>port stuff working yet under windows 3.1, 3.11. It will only work with
>your TNC under 95 or NT.


Understand that, did read the readme.txt, but thought I could at least look
at it in Windows 3.1, at least I was led to beleive that...am I the only one
left on 3.1 out here?  Be a long time before I ever put Billy Gates newest
razzle-dazzle on my machine...Thanks anyway...

73 de Bill
==========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
==========================================================================
```

---

785. Re: [APRSSIG:6402] Re: Win32S

From: ke4eer@AIRnet.net (William Nolle)
Date: Tue, 30 Jan 1996 01:23:07
To: aprssig@tapr.org
Message-ID: <9601300725.AA32501@foo.garply.com>
Rendered body type: text/plain

```
Will Bill your not the only one that's for sure. Yes WinAPRS is just a Playtoy
in windows 3.1 or Windows for workgroups, and if i might say not a very good
toy at that hi. I have run it today and these are my observations (Only mine!).
I find it extremely hard to look at those maps. Some maps come up on the
screen then instantly disapear. In this version there's not much to play with
and realy doesn't give you a true picture i guess of what it will be like. I also
noticed when loading the logging file the bar on the bottom part of the screen
doesn't show much more then a flikker (A single line). Well i guess unless you
are willing to run Win95 (And i'm not) we will have to wait and see about
WinAPRS. Right now i will stick with my Windows for Workgroups and Bob's
good old Dos APRS (I like the maps much better)...

Bill KE4EER
-----------------

>At 10:39 PM 1/29/96 -0600, you wrote:
>>
>>One thing I haven't seen discussed yet is Winaprs doesn't have the serial
>>port stuff working yet under windows 3.1, 3.11. It will only work with
>>your TNC under 95 or NT.
>
>
>Understand that, did read the readme.txt, but thought I could at least look
>at it in Windows 3.1, at least I was led to beleive that...am I the only one
>left on 3.1 out here?  Be a long time before I ever put Billy Gates newest
>razzle-dazzle on my machine...Thanks anyway...
>
>73 de Bill
>==========================================================================
>Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
>10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
>Charlotte, NC 28227                | Phone   : (704) 545-9368
>==========================================================================
>
>
```

---

786. Re: [APRSSIG:6257] UHF controversy starting again?

```
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 30 Jan 1996 07:07:29 -0600
To: aprssig@tapr.org, coordinator@cs.tamu.edu, n9unr@execpc.com,
       nhar@execpc.com
Message-ID: <9601301307.AA20706@omnifest.uwm.edu>
Rendered body type: text/plain
```

```
rwf,
        Sorry - I should know your name but it wasn't on your message.

        I really don't think it is a "leak" to pass along the APRS
concerns to the coordinators' remailer.  I think that you (collectively)
have raised serious concerns which must be addressed.  I am the repeater
coordinator for Wisconsin (and new at that).  _I_ have been forwarding
selected messages to the coordinators' remailer to let them know of the
rapidly growing use of APRS and what YOUR needs are.  I know that there
are several other coordinators on the APRS remailer as I recognise their
addresses.
        Personally I think APRS is a good idea - if I didn't I wouldn't
spend about an hour a day posting APRS messages on Omnifest.  _I_ think
that if APRS does NOT get some help form the nation's coordinators the
confusion factor will raise and the "turf" (read spectrum) wars will
accelerate.  I am only one of approximately 100 coordinators and MY
coordination group ONLY SUGGGESTS coordination for repeaters.  There
IS a move afoot that MAY lead to mandatory coordination.

Dave Barrow, N9UNR
FC-WI    WAR-MACC
n9unr@execpc.com

cc: coordinators' remailer
```

---

787. Ultimeter II info?

```
From: hysell@kodak.com (John D. Hysell)
Date: Tue, 30 Jan 96 08:26:12 EST
To: aprssig@tapr.org
Message-ID: <9601301326.AA10598@runner.itc.Kodak.COM>
Rendered body type: text/plain
```

```
I am working to set up an Ultimeter II weather station, and want to add it to the
APRS setup.  Can anyone point me to info on options for doing this?  I know this
has been done before, and would prefer not reinventing the wheel...
thanks and 73
-John
KF2XC
```

---

788. Re: [APRSSIG:6379] Re: WinAPRS release Comments and review

```
From: sproul@ap.org (Mark Sproul)
Date: Tue, 30 Jan 1996 08:38:28 -0500
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <v02130502ad33cecbc76c@[165.1.27.20]>
Rendered body type: text/plain
```

```
>To: The Brothers Sproul: Will WinAPRS run under Windows NT?
>

Absolutly,



Note to all, (this is explained in the read me file)

WinAPRS is a Win32 application, this means its desgined for Windows95 and
WindowsNT.  It will ALSO RUN in Windows 3.1 IF you install Win32S DLL from
Microsoft.  My documentation has info on were to get Win32S and pointers on
documentation on how to install it.


CURRENTLY, WinAPRS does NOT, I repeat DOES NOT do serial I/O under Windows
3.1 even with the Win32S DLL.  Without Win32S it will NOT RUN AT ALL.

I am working my tail off on the Windows 3.1 serial issue.  It WILL be fixed
soon, hopefully a couple of weeks but I am not making any promises.  Its
difficult.
```

```
So, please, if you are running Windows 3.1, and you cant get the serial
ports to work, its documented that they currently DONT work.

Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
___________________________________________________________________________
```

---

789. Re: [APRSSIG:6396] GPS MagMounts

From: rwf <rwf@mindspring.com>
Date: Tue, 30 Jan 1996 09:12:15 -0500
To: aprssig@tapr.org
Message-ID: <199601301412.JAA12846@borg.mindspring.com>
Rendered body type: text/plain

```
I have heard that Home Depot has the big round magnets as used in the
Motorola GPS antenna.  30 lb pull variety I think.   The hole is about 1/2
inch in diameter.


BTW Bob-  If you bring these trackers to the hills of GA, *please * invest
in a radio stronger that 1 watt, or let us get a mobile digi to follow you
hehe   :)



At 09:58 PM 1/29/96 -0600, you wrote:
>Ive finally decided to build some new TRACKERS and want to build 'em as
>magmounts.   Anyone know a source of the mag mount disks with a bolt in
>the middle of them?  I need a bunch!
>
>
>
>
```

---

790. Re: [APRSSIG:6397] Re: Automatic Track History save

From: rwf <rwf@mindspring.com>
Date: Tue, 30 Jan 1996 09:12:18 -0500
To: aprssig@tapr.org
Message-ID: <199601301412.JAA12861@borg.mindspring.com>
Rendered body type: text/plain

```
Bob

Isn't this saved in the config file?  If it isn't, just save it there.  Then
folks can configure it as they wish.  As a matter of fact, it would be great
if the config file saved all option selections.






At 10:19 PM 1/29/96 -0600, you wrote:
>On Mon, 29 Jan 1996, Gregory R. LaBorde wrote:
>
>> I've finally started using PC-APRS on-the-air. One thing I notice is that
>> when the track memory gets to 100% and resets, I cannot find any evidence
>> of a saved track history file that FILES-REPLAY implies should be
>> automatically created. Any thoughts?
>
>WB4APR REPLY COMMENT:
>
>Hit the TAB key and see the setting of LOG.  It must be in uppercase or
>your LGOS are NOT automaticaly saved when they get full, but are dumped.....
>The default is NO LOGS.  Im going to change the default back to ON in the
>next version, since so many of us have lost good data that way...
>
>
>
>
```

791. WinAPRS FTP site and mailing list

From: sproul@ap.org (Mark Sproul)
Date: Tue, 30 Jan 1996 09:31:21 -0500
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <v02130507ad33da00698a@[165.1.27.20]>
Rendered body type: text/plain

```
To all people interested in WinAPRS

I am sending this message to many individuals, the APRS sig, and the new
WinAPRS mailing list so you might see it several times, I appoligize.


As was announced yesterday, we have created a new mailing list,

        winaprs@tapr.org

All discussion of WinAPRS should be moved to this mailing list, over 70
people have already signed up.  From now on, only major annoucments
reguarding WinAPRS will be made to the general sig.


Also, there is a new FTP site for APRS

ftp://aprs.rutgers.edu/pub/hamradio/aprs/

This is on a high-end unix machine with a LARGE number of allowed
connections, it should NOT have the problems of TAPR.

This is now the OFFICAL ftp site for MacAPRS and WinAPRS

Again, I appoligize if you recieve multiple copies of this

Mark Sproul

_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
_________________________________________________________________________
```

---

792. another winaprs / win32s / aprs site

From: rkramer@cdx.net (Ronald Kramer)
Date: Tue, 30 Jan 1996 14:32:32 GMT
To: aprssig@tapr.org
Message-ID: <310e2aed.2190409@mail.cdx.net>
Rendered body type: text/plain

```
I have also loaded the main files in
my FTP site at
ftp.cdx.net
directory
pub/HAMRADIO/APRS/winaprs  for winaprs.zip abt 1.2mb
pub/HAMRADIO/APRS/winaprs/winmaps   for winaprs maps
pub/HAMRADIO/APRS/PRGS  for ole32s13.exe = (win32s) abt 3mb
Have fun, remember it's only a HOBBY

Regards, Ron ...                           73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

793. Voice repeaters don't WANT locations given

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 30 Jan 1996 08:37:29 -0600
To: aprssig@tapr.org
Message-ID: <9601301437.AA13127@omnifest.uwm.edu>
Rendered body type: text/plain

```
Unfortunately, due to the general malice rampant in today's
society - MOST repeater owners do NOT want their exact locations published.
        Accordingly, I, as most coordinators, will only list the city where
the repeater is located.

Dave Barrow, N9UNR
FC-WI   WAR-MACC
(That's Frequency Coordinator-WIsconsin     Wisconsin Association of
               Repeaters - member MidAmerica Coordination Council)
```

n9unr@execpc.com (Preferred)

794. Re: [APRSSIG:6391] Win32S

From: sproul@ap.org (Mark Sproul)
Date: Tue, 30 Jan 1996 10:30:56 -0500
To: aprssig@tapr.org
Message-ID: <v0213050aad33e9f42904@[165.1.27.20]>
Rendered body type: text/plain

```
>Downloaded Winaprs...now, where can I find the Win32S file that I need.  I'm
>still behind the times here with Windows 3.1.
>
>Thanks, 73 de Bill


>From the documentation (http://www-ns.rutgers.edu/~ksproul/APRS/)



 System Requirements for Windows

WinAPRS is written to the Win32 API, which means that it works under
WindowsNT and Windows95. To run
under Windows 3.1, you will need the Win32S library (DLL). It has been
tested (not extensively) under Windows
3.1 with Win32S.

WinAPRS has been tested on a 386 running Windows95 and while slow, worked
just fine. A 486 of at least 33MHz
and 8 meg of Ram running either Windows95 or WindowsNT is recommended.

Comm Ports 1 thru 4 have been tested and all work fine (Version 0.1.1).

All of my initial testing was on a 486/66 running Windows NT. As of Jan 1,
1996 I am running on a Pentium/100
running Windows95. (Comment about Windows 95, WinAPRS on the 486 running
WindowsNT seems FASTER
than on the Pentium running Win95).

The following information can be helpful with Win32s:

       Win32s for the Microsoft Windows 3.1x Operating System
       http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/win32s.htm
       Installing Win32s
       http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/Draft/WM063.htm



__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

795. 1/30/96 7:38:49 a

From: AlChan@aol.com
Date: Tue, 30 Jan 1996 10:40:14 -0500
To: aprssig@tapr.org, alchan@ix.netcom.com, al.chan@toadhall.com,
AlChan@aol.com
Message-ID: <960130104013_410207275@mail04.mail.aol.com>
Rendered body type: text/plain

```
gerry@cs.tamu.edu sez:

AC|>> 3. What data are contained in each datagram?

GC|>Timing information, primarily, although Satellite Broadcast
GC|>messages are interspersed, as well as a periodic Almanac,
GC|>Health, and Ephemeris data. Ephemeris data are transmitted by
GC|>each satellite ONLY for that satellite.

I understand the GPS satellites are not geosynchronous, but in lower
orbit than geosynchronous orbit so that the transmitter power
requirement is less stringent.

If so, then the satellites must frequently broadcast their
coordinates and altitude. How often do they have to broadcast such
positional data as they whiz across the sky? What is the orbital
```

speed? How often are their position updated? I supposed NASA is in
charge of periodical positional updating. Where is the location at
which such updating is done? Mountain View, California?

  AL
  ""
           AlChan@aol.com   Al@w6dnt.ampr.org

796. Re: [APRSSIG:6401] APRSTIPS

From: n4uls@ix.netcom.com (Jack Anderson)
Date: Tue, 30 Jan 1996 09:14:59 -0800
To: aprssig@tapr.org
Message-ID: <199601301714.JAA25545@ix4.ix.netcom.com>
Rendered body type: text/plain

You wrote:
>
>____MESSAGE HEADER INFORMATION DO NOT WRITE ABOVE THIS LINE______
>
>I wrote this file with the intent to post it as a bulletin in my pbbs.
>I wanted to provide new users with a concise guide to the basics of
>using APRS'S generic callsigns. My desire is to decrease the use of
>inappropriate outgoing paths. My hope is that most hams will want to use
>the correct technique if they are given an opportunity and an
>explanation of the reason.

Excellent - I would only add some known good digipaths that extend out from
your area into other areas if they exist. New or transient users would then
know how to set their unproto if they want to propagate their packets towards
a specific location.

Jack

797. Maps Again

From: ke4eer@AIRnet.net (William Nolle)
Date: Tue, 30 Jan 1996 11:26:25
To: aprssig@tapr.org
Message-ID: <9601301728.AA16170@foo.garply.com>
Rendered body type: text/plain

Bob and others interested. The newest MK100V20.exe is pretty much useless.
Today i attempted to make a grid of maps using the 9 grid feature and it
crashed on the first +1 mile map i did, yet when renaming the TEMP file and
using Mapfix18.exe it only showed it had 1843 points. The program idea is
great but not if it doesn't work. I just wonder if anyone else has used this new
version with more success then i have?. Also Bob Mapfix18 seams to be limited
to what size file it will load. I attempted to load a temp file after the software
choked on making the map and Mapfix18 also did. The file was 110K.

Bill KE4EER
ke4eer@airnet.net

798. Re: [APRSSIG:6404] Re: UHF controversy starting again?

From: dwetzel@uswest.com
Date: Tue, 30 Jan 1996 10:39:07 -0600
To: aprssig@tapr.org
Message-ID: <10e4d2e0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Dave, although you don't coordinate for our area, I am totally supportive of
your efforts to peacefully join two groups whose interests can at times
conflict. Any education (not hype or flames!) going back and forth between the
two mailers can't help but make us all appear more professional and gain mutual
respect.

Thanks a million!

73
Doug Wetzel
KC7CO
dwetzel@uswest.com

____
Subject: [APRSSIG:6404] Re: UHF controversy starting again?
From: aprssig@tapr.org at Internet-Mail
Date: 1/30/96 7:14

rwf,
        Sorry - I should know your name but it wasn't on your message.

I really don't think it is a "leak" to pass along the APRS concerns to the coordinators' remailer. I think that you (collectively) have raised serious concerns which must be addressed. I am the repeater coordinator for Wisconsin (and new at that). _I_ have been forwarding selected messages to the coordinators' remailer to let them know of the rapidly growing use of APRS and what YOUR needs are. I know that there are several other coordinators on the APRS remailer as I recognise their addresses.

Personally I think APRS is a good idea - if I didn't I wouldn't spend about an hour a day posting APRS messages on Omnifest. _I_ think that if APRS does NOT get some help form the nation's coordinators the confusion factor will raise and the "turf" (read spectrum) wars will accelerate. I am only one of approximately 100 coordinators and MY coordination group ONLY SUGGGESTS coordination for repeaters. There IS a move afoot that MAY lead to mandatory coordination.

Dave Barrow, N9UNR
FC-WI   WAR-MACC
n9unr@execpc.com

cc: coordinators' remailer

---

799. Re: [APRSSIG:6406] Re: WinAPRS release Comments and review

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 30 Jan 1996 12:06:55 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601301806.MAA25140@solar.cs.tamu.edu>
Rendered body type: text/plain

Which versio of Win32S is WinAPRS tailored to? Or, in simpler terms, is it OS/2 capable?

73, gerry

```
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
*******************************************************************************
```

---

800. Re: [APRSSIG:6413] 1/30/96 7:38:49 a

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 30 Jan 1996 12:15:45 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601301815.MAA25240@solar.cs.tamu.edu>
Rendered body type: text/plain

AlChan@aol.com sez:

> I understand the GPS satellites are not geosynchronous, but in lower
> orbit than geosynchronous orbit so that the transmitter power
> requirement is less stringent.

6 planes, about 16000 km altitude.

> If so, then the satellites must frequently broadcast their
> coordinates and altitude. How often do they have to broadcast such
> positional data as they whiz across the sky? What is the orbital
> speed? How often are their position updated? I supposed NASA is in
> charge of periodical positional updating. Where is the location at
> which such updating is done? Mountain View, California?

The satellites do not compute their coordinates. Instead, they send the ephemeris data and the receiver, which is really a pretty powerful microprocessor, calculates just where the satellites should be based on the time now, one epoch ago (a slippery term... may be one second, may be more or less), and where it'll be one epoch in the future. It takes approximately 21 minutes, if memory serves me this afternoon, to complete one whole message. Every data transmission has timing information (spread spectrum, with each satellite using a set pseudorandom sequence that the receivers all know for hopping). Once the integer ambiguity of the timing signal phase has been resolved, the GPS receiver has a good lock to GPS time and can stop using its internal clock for anything beyond rough timekeeping.

DoD and National Space Command are responsible for the epherides the satellties carry. In fact, NASA gets ITS tracked data from NSC and refines them experimentally, and based on data they derive from their (now somewhat limited) tracking network. Oh, and the Big Blue Cube has been deactivated in one of the Congressional budget cuts. NSC is homed at Colorado Springs now.

73, gerry
n5jxs@tamu.edu

---

801. Re: [APRSSIG:6408] Re: Automatic Track History save

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 30 Jan 1996 13:30:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960130132740.19957F-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 30 Jan 1996, rwf wrote:

> Isn't LOG saved in the config file?  If it isn't, just save it there.  Then
> folks can configure it as they wish.

WB4APR REPLY COMMENT:

It is saved there, but each time someone re-starts APRS from scratch it
defaults to OFF.  They must  remember to turn LOGS on before they save a
new config file.  We forget and ergo lose valuable data.
```

---

802. Voice rptr locations

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 30 Jan 1996 13:38:22 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960130133158.19957G-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 30 Jan 1996, David W. Barrow III wrote:

>         Unfortunately, due to the general malice rampant in today's
> society - MOST repeater owners do NOT want their exact locations published.

WB4APR REPLY COMMENT:

Not sure of what he is referring to, but APRS can still be used as a
location identifier with ambiguity.  Using a 4 digit grid square in any
BEACON ID would plot you within about 50 miles, and using a 6 digit grid
square would locate you within about 5 miles.  In either case, APRS does
not mark the spot, but simply draws a box around the grid square and
places the callsign in the box randomly.  This plotting technique was
designed specifically to maintain the position ambiguity no matter how
close the user zooms.
```

---

803. Re: [APRSSIG:6405] Ultimeter II info?

From: mark@y100.com
Date: Tue, 30 Jan 1996 11:04:19 -0800
To: aprssig@tapr.org
Message-ID: <199601301904.AA23364@relay.interserv.com>
Rendered body type: text/plain

```
On Tue, 30 Jan 1996, hysell@kodak.com (John D. Hysell) wrote:
>I am working to set up an Ultimeter II weather station, and want to add it to
the
>APRS setup.  Can anyone point me to info on options for doing this?

John:

General setup information is in the WX.TXT file in APRS\README directory.  I
just set up my U-II interface yesterday, so I'm happy to answer any specific
questions you might have.  Of course, you will need two COM ports (one for TNC,
other for U-II) and the WX registration number from WB4APR.  Also, an adapter
cable to go from the "RJ-11" jack on the side of the U-II display to your RS-232
port (easy to make, or you can buy from Peet Bros for $20).

Good luck

Mark, N2CHV
mark@y100.com
(ex-Rochesterian)




 I know this
>has been done before, and would prefer not reinventing the wheel...
>thanks and 73
```

>-John
>KF2XC
>
>
>
>

---

804. Re: [APRSSIG:6336] Iphone

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sun, 28 Jan 1996 19:50:53 +0000
To: aprssig@tapr.org
Message-ID: <199601302251.RAA27756@hemisphere.neocomm.net>
Rendered body type: text/plain

Join private aprs

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

805. Little Red Fox GPS Antenna...

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 30 Jan 96 17:49:42 EST
To: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960130224942_102413.375_BHA135-1@CompuServe.COM>
Rendered body type: text/plain

FYI: The GPS antenna being produced and marketed by Paul, N0LRF, is described
on the APRS-KC Working Groups Home Page at:

http://ourworld.compuserve.com:80/homepages/APRS_KC

If you would like additional information, have questions or comments for Paul,
please feel free to direct them through me! Paul and I are not
business-affiliated, but do get together on a regular basis in person, via
landline and radio! He would appreciate the opportunity to field your questions
or comments!

73 de Jim, KU0G

---

806. RESPONCES ABOUT PICO PACKET

From: kc4hdk.gate.net@gate.net
Date: Tue, 30 Jan 1996 20:15:43 -0500
To: aprssig@tapr.org
Cc: kc4hdk@gate.net
Message-ID: <199601310115.UAA27208@tequesta.gate.net>
Rendered body type: text/plain

Bob,
        I have the 2 port pico paket and have had the same problems with
retention of my setting's; very frustrating when one want's to operate a
standalone tracker. The way I get around this is by using a nicad battery
pack into the main power jack. I suspect the lithium button battery inside
the tnc isn't adequate.
        When left indoors my setting are retained almost all the time. If
left out in the car at 40^ or less, retention is only about an hour at best.
        Some of the other problems I have include garbage text when I use
the help command, total lockup of the unit when put into kiss mode, and high
RF leakage from the unit.
        I called paccom and was advised they would be sending me a new
eprom; but all I got was a catalog. I'll have to call again! I think their
ability to keep track of phone message's is somewhat lacking

                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us

Bob, saw your post and am having exactly the same problem, Am running
my PicoPacket mobile and if I turn it off it will often reset to the
factory default parameters. I have taken to going to O-C-T every time
I boot APRS since there is about a 80% chance I have to reconfig the
parmaters. I have also taken to leaving it on but am very nervous re:
the surges with turning the ignition off and on. Annoying problem! let
me know if you find a fix! Thanks,

Joe, AA8SF
jbc5@po.cwru.edu
AA8SF@WA8BXN.NEOH.USA

From: John Kerr <john.kerr@marvin.projectx.com>
Hi Bob..

Just read your message about the PicoPacket resetting/destroying the configuration data held with it. I have been running the Tiny II with internal GPS in the vehicle since Dayton last year, and I have experienced EXACTLY what you have mentioned. I can go for weeks with-out a problem, then one day I go out, turn on the transceiver and find it is not keying.. I leave the TNC turned on all the time (not concerned about it drawing down the vehicle battery), so I don't know if it is seeing a spike from the ignition when I start the vehicle, or if it is just going brain-dead.

I have considered putting a large filter capacitor across the DC input to maybe smooth out any incoming spikes, but have to wait for winter to finish first...

Let me know if you find out anything....

John - VE3SVE - located just outside Toronto, Ontario

From: Scott Miller <scottm@sierra.net>

HI Bob, Scott here in Tahoe City Ca. I have a PICO PACKET. have not yet used it as stand-alone but I will be in the next couple of days.
With the computer attched if I turn it off I lose lpath and loc most of the time. I got my pico befor 74e and Bob wapr sez it is designed as a stand-alone but that is not what I intened to buy, I picked it up at PacComm in Tampa myself. I have to use it in master mode to see myself on the map. I am looking forward to seeing Gwen's reply.And I do think he will reply
Scott ke6rke

From: msproul@arn.net (ML Sproul)

A friend of mine had the same problem. He sent it back for repair and it had the same problem when it was returned, He found that it would also reset to defaults when it was cold. He could put it in his refrigerator (not freezer) and it would reset. It wopuld do this consistently. Hope this is some additional info for you.
Maury

```
M. L. "Maury" Sproul            |Work 806-477-7254
W5UGQ                           |Home 806-354-0306
msproul@arn.net
Amarillo, TX
```

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@music.cc.uga.edu>
To: aprssig@tapr.org
Subject: [APRSSIG:6332] Re: PacCom's PicoPacket.

Bob
Yes!!!!
i gave up and bought a KPC 3.
but i needed to have a tnc for the house any way and i have not gotten to playing with the pico.
I talked to the people at paccom and my firm ware is very old
July 27 95 mine is pico sn 000034 so i have old firmware.
So this is what they told me i need new firmware they said they would replace mine b/c it was so old.
when u power up ur tnc do it in a com program or o-c-t mode of aprs
and look at the date of ur firmware this may be ur problem.
hope this helps!
Lynn N4YCI in athens Ga @ U of Ga

From: George Dean <73251.32@compuserve.com>
To: Bob <kc4hdk@gate.net>
Subject: PicoPacket
Message-ID: <960128151902_73251.32_FHO55-1@CompuServe.COM>

I have had the exact same experience using the PicoPacket. When power was removed (overnight), it would reset to factory defaults. This is a real pain in my GPS tracker application because the GPS' NMEA output is at 4800 baud!

For this reason, I decided to change to a KPC-3 for my GPS tracker. I have had nothing but good luck with Kantronics equipment.

The PicoPacket had to be returned once because it would only transmit. It would not receive anything. I even went through all the trouble of testing it with an oscilloscope as per the book, then calling tech support. They said it was bad and that I should send it back...very frustrating.

Good luck. If your lucky you can change the battery in the PicoPacket and be in business.

73's
George
deang@syntron.com

..
From: n4nr@vulcan.com (N4NR)
Hi Bob,

Yes, I have the same problem. It will keep parameters for a while, but after a short time, you power it up and it's lost everything. It's not just when I take it mobile...it happens in the shack, with 3 different power sources...makes no difference.

And...this is my second pico packet. The first one lost it's parameters EVERY time it was powered down and back up. I returned it and received another.

This is very dissapointing....it works fine as long as I don't power it down. I have not gotten around to contacting paccom about this one yet. Have you talked to paccom? I've got to phone them again soon about mine.

BTW im now running ver 3.2.9.2 dated Dec 10, 1995

Dennis - N4NR
n4nr@amsat.org
n4nr@vulcan.com

From: Harry Burford <hburford@airmail.net>
To: aprssig@tapr.org
Subject: [APRSSIG:6335] Re: PacCom's PicoPacket.

Saw your post in the APRS SIG mail list. I just got the Pico myself and am having the same problem. Was going to call them on Monday and inquire about it. I've been a Paccomm loyal customer for over 10 years now. Built over a dozen of their kit TNCs. This is my first factory built unit. Cute little box. I was also going to ask them about the pin out for the 2nd serial port that isn't documented in the book. The schematic wasn't a help.

hburford@airmail.net
hb
KA0TTY

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
To: aprssig@tapr.org
Subject: [APRSSIG:6372] Re: Pico Problems ?

> ... When I received the
> Pico I was surprised to find out that most of the features
> advertised were not coded into the eprom. There was an
> errata sheet that explained what was missing and that I
> would get a free eprom upgrade when the code was completed.

Oh, yes. The errata sheet. Was I surprised to find out a few things about my Pico on that piece of paper. Like no DCD (open squelch) or KISS mode. I never saw these features advertised, but I just figurerd they'd be part of a modern TNC...

> ... I was then transfered to
> Linda to discuss my options. She, who has always been very
> nice, agreed to credit my card and accept the Pico back, the
> "right thing to do".

When I called PacComm (don't know who I talked to) to discuss the Pico, the *first* thing the lady asked was "Do you wish to return it?"

> ... If you are considering the Pico I would
> recommend that you investigate the product and the company
> carefully. The six months that I have wasted on PacComm and
> this project have been very frustrating.
>

I've had great luck with a Tiny-2 and a Sprint-2 from PacComm. But I had nothing but trouble from my Pico. I could not get it to power up from 6VDC (advertised to run on 6VDC!), or 9VDC, but only off my 13.8 VDC power supply! (There goes the portability :-) I don't know whether it had some serious problems or just a old EPROM. You should have seen the look on my face when I opened the unit and saw "PRE-RELEASE" on the EPROM! I get the feeling that the product wasn't ready to go out the door, and hence, I returned it. I'll get a KPC-3 instead...

73, jan
kc6uth

jan@vislab.navy.mil

From: mark.endicott@nashville.com
To: aprssig@tapr.org
Subject: [APRSSIG:6352] Pico Problems ?

I have been watching the sig for several months and not had a lot to contribute, up to this point. However a recent development has caused me concern and I think others may want to avoid the problem that I ran into.

In August of 95 I ordered a Dual Port Pico directly from PacComm. I was told that there were delays of about 2 to 3 weeks on this unit. I agreed and patiently waited, I called every two or three weeks until November when it finally shipped, three months later. When I received the Pico I was surprised to find out that most of the features advertised were not coded into the eprom. There was an errata sheet that explained what was missing and that I would get a free eprom upgrade when the code was completed. On December 15th I received a new eprom as promised (following my call to them) with the new software with most of the advertised functions operating. I had been having a problem with the unit resetting to defaults for no explainable reason. I called PacComm, in mid December to ask about this problem and was told that it must be a software glitch because they had not seen the problem elsewhere. I continued to look for the cause without any luck. On January 11th, having the Pico "drop dead" 5 times that week, I called PacComm again. This time they said that yes indeed they had a problem with Pico's and to send it back. The Pico arrived at PacComm on Jan 15th. Today, Jan 24, I called Paul to find out what the repair status was. I was told quite rudely that "it was on the bottom of the pile" and "if I wanted it fixed I should pack my tool box and come to Florida and fix it myself" And that he (Paul) didn't need this kind of problem as he had been out of town and just returned to the plant. I was then transfered to Linda to discuss my options. She, who has always been very nice, agreed to credit my card and accept the Pico back, the "right thing to do".

I have been in the electronic communications industry for over thirty years. I started my company in 1984 and have seen it grow because we treat customers fairly and, most, certainly politely. I understand that things go wrong from time to time, and that service can be a pain when engineering fails to perform as expected. However, PacComm should be more responsive to their customers and refrain from advertising and delivering a product far before it's ready to market. If you are considering the Pico I would recommend that you investigate the product and the company carefully. The six months that I have wasted on PacComm and this project have been very frustrating.

```
 __________________________________________
|                                          |
|               Mark Endicott              |
|               P.O. Box 148242           |
|        Nashville, Tennessee 37214       |
|                 WB0NOO                  |
|        mark.endicott@nashville.com      |
|                                         |
|_________________________________________|
```

From: n4nr@vulcan.com (N4NR)
To: aprssig@tapr.org
Subject: [APRSSIG:6350] pico packet

Hi Bob,

Yes, I have the same problem. It will keep parameters for a while, but after a short time, you power it up and it's lost everything. It's not just when I take it mobile...it happens in the shack, with 3 different power sources...makes no difference.

And...this is my second pico packet. The first one lost it's parameters EVERY time it was powered down and back up. I returned it and received another.

This is very dissapointing....it works fine as long as I don't power it down. I have not gotten around to contacting paccom about this one yet. Have you talked to paccom? I've got to phone them again soon about mine.

BTW im now running ver 3.2.9.2 dated Dec 10, 1995

Dennis - N4NR
n4nr@amsat.org
n4nr@vulcan.com

From: Gerald J Creager <gerry@cs.tamu.edu>

From: Tom Kinahan[SMTP:kinahan@mail1.bytex.network.com]

Bob,

I have a similar problem with a Paccom Tiny-2 with internal GPS. Every so often, after about 2 weeks or so, the TNC looses it's mind and needs to be set up again. Since I power cycle the thing by plugging it into a cigarrette lighter, I'm thinking I get what I deserve.

 - Tom Kinahan N1CPE

```
Tom Kinahan                          Phone: 508-366-0040 x360
Bytex / Network Systems Corp.        Fax: 508-366-0244
4 Technology Drive                   Email: kinahan@bytex.network.com
Westborough, Ma. 01581               Amateur Radio: N1CPE
```

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807. RESPONCES ABOUT PICO PACKET

From: kc4hdk@gate.net
Date: Tue, 30 Jan 1996 20:17:53 -0500
To: joseph@gate.net, aprssig@tapr.org, n2czf@gate.net
Message-ID: <199601310117.UAA25895@tequesta.gate.net>
Rendered body type: text/plain

<---- Begin Forwarded Message ---->
Date: Tue, 30 Jan 1996 20:15:43 -0500
From: kc4hdk.gate.net@gate.net
Subject: RESPONCES ABOUT PICO PACKET
To: aprssig@tapr.org
Cc: kc4hdk@gate.net

Bob,

I have the 2 port pico paket and have had the same problems with retention of my setting's; very frustrating when one want's to operate a standalone tracker. The way I get around this is by using a nicad battery pack into the main power jack. I suspect the lithium button battery inside the tnc isn't adequate.

When left indoors my setting are retained almost all the time. If left out in the car at 40^ or less, retention is only about an hour at best.

Some of the other problems I have include garbage text when I use the help command, total lockup of the unit when put into kiss mode, and high RF leakage from the unit.

I called paccom and was advised they would be sending me a new eprom; but all I got was a catalog. I'll have to call again! I think their ability to keep track of phone message's is somewhat lacking

----
David E. Barrett
barrettd@crpl.cedar-rapids.lib.ia.us

Bob, saw your post and am having exactly the same problem, Am running my PicoPacket mobile and if I turn it off it will often reset to the factory default parameters. I have taken to going to O-C-T every time I boot APRS since there is about a 80% chance I have to reconfig the parmaters. I have also taken to leaving it on but am very nervous re: the surges with turning the ignition off and on. Annoying problem! let me know if you find a fix! Thanks,

Joe, AA8SF
jbc5@po.cwru.edu
AA8SF@WA8BXN.NEOH.USA

From: John Kerr <john.kerr@marvin.projectx.com>
Hi Bob..

Just read your message about the PicoPacket resetting/destroying the configuration data held with it. I have been running the Tiny II with internal GPS in the vehicle since Dayton last year, and I have experienced EXACTLY what you have mentioned. I can go for weeks with-out a problem, then one day I go out, turn on the transceiver and find it is not keying.. I leave the TNC turned on all the time (not concerned about it drawing down the vehicle battery), so I don't know if it is seeing a spike from the ignition when I start the vehicle, or if it is just going brain-dead.

I have considered putting a large filter capacitor across the DC input to maybe smooth out any incoming spikes, but have to wait for winter to finish first...

Let me know if you find out anything....

John - VE3SVE - located just outside Toronto, Ontario

From: Scott Miller <scottm@sierra.net>

HI Bob, Scott here in Tahoe City Ca. I have a PICO PACKET. have not yet used it as stand-alone but I will be in the next couple of days.
With the computer attched if I turn it off I lose lpath and loc most of the time. I got my pico befor 74e and Bob wapr sez it is designed as a stand-alone but that is not what I intened to buy, I picked it up at PacComm in Tampa myself. I have to use it in master mode to see myself on the map. I am looking forward to seeing Gwen's reply.And I do think he will reply
Scott ke6rke

From: msproul@arn.net (ML Sproul)

A friend of mine had the same problem. He sent it back for repair and it had the same problem when it was returned, He found that it would also reset to defaults when it was cold. He could put it in his refrigerator (not freezer) and it would reset. It wopuld do this consistently. Hope this is some additional info for you.
Maury

M. L. "Maury" Sproul |Work 806-477-7254
W5UGQ |Home 806-354-0306
msproul@arn.net
Amarillo, TX

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@music.cc.uga.edu>
To: aprssig@tapr.org
Subject: [APRSSIG:6332] Re: PacCom's PicoPacket.

Bob
Yes!!!!

i gave up and bought a KPC 3.
but i needed to have a tnc for the house any way and i have not gotten to playing with the pico.
I talked to the people at paccom and my firm ware is very old
July 27 95 mine is pico sn 000034 so i have old firmware.
So this is what they told me i need new firmware they said they would replace mine b/c it was so old.
when u power up ur tnc do it in a com program or o-c-t mode of aprs and look at the date of ur firmware this may be ur problem.
hope this helps!
Lynn N4YCI in athens Ga @ U of Ga

From: George Dean <73251.32@compuserve.com>
To: Bob <kc4hdk@gate.net>
Subject: PicoPacket
Message-ID: <960128151902_73251.32_FHO55-1@CompuServe.COM>

I have had the exact same experience using the PicoPacket. When power was removed (overnight), it would reset to factory defaults. This is a real pain in my GPS tracker application because the GPS' NMEA output is at 4800 baud!

For this reason, I decided to change to a KPC-3 for my GPS tracker. I have had nothing but good luck with Kantronics equipment.

The PicoPacket had to be returned once because it would only transmit. It would not receive anything. I even went through all the trouble of testing it with an oscilloscope as per the book, then calling tech support. They said it was bad and that I should send it back...very frustrating.

Good luck. If your lucky you can change the battery in the PicoPacket and be in business.

73's
George
deang@syntron.com

..
From: n4nr@vulcan.com (N4NR)
Hi Bob,

Yes, I have the same problem. It will keep parameters for a while, but after a short time, you power it up and it's lost everything. It's not just when I take it mobile...it happens in the shack, with 3 different power sources...makes no difference.

And...this is my second pico packet. The first one lost it's parameters EVERY time it was powered down and back up. I returned it and received another.

This is very dissapointing....it works fine as long as I don't power it down. I have not gotten around to contacting paccom about this one yet. Have you talked to paccom? I've got to phone them again soon about mine.

BTW im now running ver 3.2.9.2 dated Dec 10, 1995

Dennis - N4NR
n4nr@amsat.org
n4nr@vulcan.com

From: Harry Burford <hburford@airmail.net>
To: aprssig@tapr.org
Subject: [APRSSIG:6335] Re: PacCom's PicoPacket.

Saw your post in the APRS SIG mail list. I just got the Pico myself and am having the same problem. Was going to call them on Monday and inquire about it. I've been a Paccomm loyal customer for over 10 years now. Built over a dozen of their kit TNCs. This is my first factory built unit. Cute little box. I was also going to ask them about the pin out for the 2nd serial port that isn't documented in the book. The schematic wasn't a help.

hburford@airmail.net
hb
KA0TTY

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
To: aprssig@tapr.org

Subject: [APRSSIG:6372] Re: Pico Problems ?

> ... When I received the
> Pico I was surprised to find out that most of the features
> advertised were not coded into the eprom. There was an
> errata sheet that explained what was missing and that I
> would get a free eprom upgrade when the code was completed.

Oh, yes. The errata sheet. Was I surprised to find out a few things about my Pico on that piece of paper. Like no DCD (open squelch) or KISS mode. I never saw these features advertised, but I just figurerd they'd be part of a modern TNC...

> ... I was then transfered to
> Linda to discuss my options. She, who has always been very
> nice, agreed to credit my card and accept the Pico back, the
> "right thing to do".

When I called PacComm (don't know who I talked to) to discuss the Pico, the *first* thing the lady asked was "Do you wish to return it?"

> ... If you are considering the Pico I would
> recommend that you investigate the product and the company
> carefully. The six months that I have wasted on PacComm and
> this project have been very frustrating.
>

I've had great luck with a Tiny-2 and a Sprint-2 from PacComm. But I had nothing but trouble from my Pico. I could not get it to power up from 6VDC (advertised to run on 6VDC!), or 9VDC, but only off my 13.8 VDC power supply! (There goes the portability :-) I don't know whether it had some serious problems or just a old EPROM. You should have seen the look on my face when I opened the unit and saw "PRE-RELEASE" on the EPROM! I get the feeling that the product wasn't ready to go out the door, and hence, I returned it. I'll get a KPC-3 instead...

73, jan
kc6uth

jan@vislab.navy.mil

From: mark.endicott@nashville.com
To: aprssig@tapr.org
Subject: [APRSSIG:6352] Pico Problems ?

I have been watching the sig for several months and not had a lot to contribute, up to this point. However a recent development has caused me concern and I think others may want to avoid the problem that I ran into.

In August of 95 I ordered a Dual Port Pico directly from PacComm. I was told that there were delays of about 2 to 3 weeks on this unit. I agreed and patiently waited, I called every two or three weeks until November when it finally shipped, three months later. When I received the Pico I was surprised to find out that most of the features advertised were not coded into the eprom. There was an errata sheet that explained what was missing and that I would get a free eprom upgrade when the code was completed. On December 15th I received a new eprom as promised (following my call to them) with the new software with most of the advertised functions operating. I had been having a problem with the unit resetting to defaults for no explainable reason. I called PacComm, in mid December to ask about this problem and was told that it must be a software glitch because they had not seen the problem elsewhere. I continued to look for the cause without any luck. On January 11th, having the Pico "drop dead" 5 times that week, I called PacComm again. This time they said that yes indeed they had a problem with Pico's and to send it back. The Pico arrived at PacComm on Jan 15th. Today, Jan 24, I called Paul to find out what the repair status was. I was told quite rudely that "it was on the bottom of the pile" and "if I wanted it fixed I should pack my tool box and come to Florida and fix it myself" And that he (Paul) didn't need this kind of problem as he had been out of town and just returned to the plant. I was then transfered to Linda to discuss my options. She, who has always been very nice, agreed to credit my card and accept the Pico back, the "right thing to do".

I have been in the electronic communications industry for over thirty years. I started my company in 1984 and have seen it grow because we treat customers fairly and, most, certainly politely. I understand that things go wrong from time to time, and that service can be a pain when engineering fails to perform as expected. However, PacComm should be more responsive to their customers and refrain from advertising and delivering a product far before it's ready to market. If you are considering the Pico I would recommend that you investigate the product and the company carefully. The six months that I have wasted on PacComm and this project have been very frustrating.

```
 ___________________________________________
|                                           |
|              Mark Endicott                |
|              P.O. Box 148242              |
|        Nashville, Tennessee 37214         |
|                  WB0NOO                   |
|        mark.endicott@nashville.com        |
|                                           |
|___________________________________________|
```

From: n4nr@vulcan.com (N4NR)
To: aprssig@tapr.org
Subject: [APRSSIG:6350] pico packet

Hi Bob,

Yes, I have the same problem. It will keep parameters for a while, but after a short time, you power it up and it's lost everything. It's not just when I take it mobile...it happens in the shack, with 3 different power sources...makes no difference.

And...this is my second pico packet. The first one lost it's parameters EVERY time it was powered down and back up. I returned it and received another.

This is very dissapointing....it works fine as long as I don't power it down. I have not gotten around to contacting paccom about this one yet. Have you talked to paccom? I've got to phone them again soon about mine.

BTW im now running ver 3.2.9.2 dated Dec 10, 1995

Dennis - N4NR
n4nr@amsat.org
n4nr@vulcan.com

From: Gerald J Creager <gerry@cs.tamu.edu>

From: Tom Kinahan[SMTP:kinahan@mail1.bytex.network.com]

Bob,

I have a similar problem with a Paccom Tiny-2 with internal GPS. Every so often, after about 2 weeks or so, the TNC looses it's mind and needs to be set up again. Since I power cycle the thing by plugging it into a cigarrette lighter, I'm thinking I get what I deserve.

- Tom Kinahan N1CPE

Tom Kinahan
Bytex / Network Systems Corp.
4 Technology Drive
Westborough, Ma. 01581

Phone: 508-366-0040 x360
Fax: 508-366-0244
Email: kinahan@bytex.network.com
Amateur Radio: N1CPE

<---- End Forwarded Message ---->

808. Re: [APRSSIG:6406] Re: WinAPRS release Comments and review

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 30 Jan 1996 21:28:44 -0800
To: aprssig@tapr.org
Message-ID: <310EFE0C.4954@crpl.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
Mark Sproul wrote:
>WinAPRS is a Win32 application, this means its desgined for Windows95 and WindowsNT.
> CURRENTLY, WinAPRS does NOT, I repeat DOES NOT do serial I/O under Windows
> 3.1 even with the Win32S DLL.  Without Win32S it will NOT RUN AT ALL.
>
> I am working my tail off on the Windows 3.1 serial issue.  It WILL be fixed
> soon, hopefully a couple of weeks but I am not making any promises.  Its
> difficult.
>
> So, please, if you are running Windows 3.1, and you cant get the serial
> ports to work, its documented that they currently DONT work.
>
> Mark

        When Mark say's working his tail off I belive him. I had the
pleasure of meeting and talking to both Keith and Mark at the Wheaton
Hamfest and found them both to have an unending capacity to please
everyone. It also must be tough to go from the apple approach to the
Microsoft API mindset.
        The Wheaton hamfest was large and fun except for the time I spent
 taking the 2 and 3A element test. I got my first test at 8:30 and didn't
get my 3 VE signituares until 2:30 pm. I was also disturbed when I saw 3
people taking test with the no code study guides on the table and nothing
done about it.
        Meet a lot of the NIAN people and enjoyed the time chatting with
them. Special thanks to David Chesser (KA9NHL)and Ed Rogers (N9LCI). All
in all it was worth the 4 hour drive; next stop Minneaplois and
Winterfest hamfest.


---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

809. Olympic Tourch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 30 Jan 1996 23:04:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960130224604.28658D-100000@greatlakes>
Rendered body type: text/plain

```
I am building an Olympic Tourch APRS map so that we can begin to plan on
our own "informal" tracking of this event.  DO NOT initiate any contacts
with any other organizations at this time regarding APRS or even HAM
participation.  Negotiatios are VERY SENSITIVE...

Anyway, my WEB brouser or their WEB page, displays lists of towns in a
pull down window.  Each window block is too long for my screen, so I can
only capture the first 2/3rds of towns on each list.  I DO have all of the
towns and  dates EXCEPT for the following dates.  If anyone else can read
the towns for these dates, I would appreciate a list ASAP.

Missing dates: May  1,  2,  3rd
                    8,  9, 10th
                   16, 17, 18th
                   24, 25, 26th
              June  1, 2nd
                    7, 8th
                   13th
                   17, 18th
                   23rd
              July  3rd
```

```
                    8, 9th
All I need is a list of the towns for each day.

The result of this collection will be a TRACK HISTORY file that you can
replay to see the movement of the torch.  If it comes through your city,
be thinking about how you can have digipeaters along the route...

Oh I almost forgot.  THe data is on the http//www.cocacola.com
```

---

810. APRS73E on WINDOZ

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 30 Jan 1996 16:46:30 -0500 (EST)
To: aprssig <aprssig@tapr.org>
Message-ID: <Pine.3.89.9601301623.A20460-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
I've been running APRS73E on Windows 3.11.  When I switch it to
background (F10 followed by alt-TAB) it goes to sleep.  Positions are not
updated while in the background mode.  When I recover (alt-TAB) to the
foreground, things restart where I had left it.

I've read several reports on this SIG of continuing operations in the
background mode.  How is that done?  Can someone suggest a PIF
configuration for this?


William Manley  KB4XE
z002594b@bcfreenet.seflin.lib.fl.us
http: //ourworld.compuserve.com/homepages/bmanley
```

---

811. RE: [APRSSIG:6378] WINAPRS

From: "John W. (Bill) Hays, W0OMV" <billh@netins.net>
Date: Wed, 31 Jan 1996 00:31:11 CST
To: aprssig@tapr.org
Message-ID: <0099D2FB.E23220C6.86@netins.net>
Rendered body type: text/plain

```
Steve, You didb't say which OS U were using. I assume it is Win 3.1 without
the 32 bit add on.
You need to READ the "README" file that comes with the w_aprs.zip file from
the tapr site and you will see some helpfull hints Hi Hi
I know..."Who? Me READ THE MANAUL???!!!" Hi Hi
I'm as guilty as the next guy.
73, Bill
```

---

812. Mac WX reports

From: Michael Walker <mwalker@gold.interlog.com>
Date: Wed, 31 Jan 1996 09:52:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960131094926.11405A-100000@gold.interlog.com>
Rendered body type: text/plain

```
Bob,
We have several Mac WX reporting stations in Toronto, and if we page
through the WX reports with the N key, the Mac ones are corrupted if the
Beacon (posit) is received after the WX report.
Have you seen this??

It looks like it is attempting to parse the data incorrectly.

cheers...mike

-------------------------------------------------------------------------------------------
Michael Walker
mwalker@interlog.com
VA3MW
```

---

813. Valid Id

From: Rod Proctor <rproctor@u.washington.edu>
Date: Wed, 31 Jan 1996 06:56:23 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.ULT.3.91a.960131065220.29089A-100000@green1.u.washington.edu>
Rendered body type: text/plain

```
I'm not sure what the valid line in the configuration file should read.
I downloaded the zip file from Rutgers last night and I get a not valid
id error when I try to run it.  Help....Rod KI7ZI
```

814. Little Rock,AR Maps

From: ke4eer@AIRnet.net (William Nolle)
Date: Wed, 31 Jan 1996 09:01:40
To: aprssig@tapr.org
Message-ID: <9601311503.AA18235@foo.garply.com>
Rendered body type: text/plain

I have some maps for Little Rock,AR if someone is interested. Made them just testing out some of the mapmaking software, Why Little Rock (I don't know).

It's made up of one 6 mile (12) and a grid of 9 one mile maps (6 mile) I noticed that also includes Brinkley,AR. These are High detail street level maps that include Rail,Lakes,Streams. Let me know if there's anybody APRS'ing in AR

Bill KE4EER
ke4eer@airnet.net

---

815. Power Supplies

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 10:17:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960131100844.3180C-100000@greatlakes>
Rendered body type: text/plain

Not necessarily APRS, but in trying to find PS supplies for digipeaters, I bought a $7 switching supply rated at 12v 3.5 amps and 5 volt 25 amps.

Results, as long as I have a 10 ohm resistor on the 5 volt leads, I have been able to smoke 8 amps on the 12 volt leads with no drop! It will probably go higher, but I am out of resistors and fear the smoking ones will trigger the smoke alarms..

Down side is that it is 12 volts and not 13.8 and the only pot does not increase it. But this suggests that you can cheat on a multi voltage supply if the other ports are lightly loaded... Lots of great deals in big 5 volt supplies out there... Without the 1/2 amp load on the 5 volt port, I can't even get 2 amps out of the 12.

---

816. Torch Cities FOUND

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 10:19:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960131101902.3180E-100000@greatlakes>
Rendered body type: text/plain

OK, I got the whole list. Thanks everyone!

---

817. APRS net

From: WB9WOZ@aol.com
Date: Wed, 31 Jan 1996 11:00:25 -0500
To: aprssig@tapr.org
Message-ID: <960131110023_308226827@mail04.mail.aol.com>
Rendered body type: text/plain

The DuPage Amateur Radio Club (W9DUP) would like to thank the stations for checking into our net on Sunday night. Although band conditions were not favorable for HF, several VHF stations participated.

N9WMM	Henry-Midlothian,IL
N9LCI	Ed-Aurora,IL
N9VJQ	Barry-DeKalb,IL
N9XHP	Dan-Chicago,IL
N9JLD	Buck-Dolton,IL
N9WEB	Jeff-Chicago,IL
N9MDK	Gregg-Westmont,IL
N9ZOP	Paul-Westmont,IL
N9ZBR	John-Westmont,IL
AK9Y	Bob-Chicago,IL
WD9HSY	Brian-Mokena,IL
N9APP	Randy-St Charles,IL
N9VHW	Jerry-Streamwood,IL
N9NWA	Randy-Downers Grove,IL
WA9FFL	Paul-Rockford,IL

I don't know much about HF, and I know that some HF stations tried to get in and could not, so my question is, would afternoon be better for band conditions ? Would something other then 30 meters be better ?
One thing we learned. As suggested by Bob, put a specific digi path and not WIDE after GATE so as not to tie up other VHF networks. Can anyone thing of anything else ?
Please give me some feedback. This is a learning process for all of us, so

input can only help.
Again, thanks to those who checked-in and those who tried.

Bruce
WB9WOZ
Hinsdale,IL
Email-WB9WOZ@AOL.COM

---

818. Re: Fan mail from some flounder

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Wed, 31 Jan 1996 10:03:20 -0800
To: aprssig@tapr.org
Message-ID: <v01510100ad355b3e8686@[128.149.100.84]>
Rendered body type: text/plain

I am not a flounder, BigJon. at least I do not THINK that I am....

Date: 29 Jan 1996 16:50:19 -0800
From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Subject: Fan mail from some flounder

Fan mail from some flounder. Anybody with the right answer?

73 - Jon NW6H

(headed back to Florida again tomorrow)

---------------------------- Forwarded with Changes ---------------------------
From: kd6msm@jpl-gw.w6vio.ampr.org at Internet
Date: 1/24/96 11:07PM
To: Jon T Adams at JPL-B161
Subject: JPL BTEXT

______________________________ Forward Header __________________________________
Subject: JPL BTEXT
Author: kd6msm@jpl-gw.w6vio.ampr.org at Internet
Date: 1/24/96 11:07 PM

I don't see that JPL's BTEXT:

!3411.58N/11810.23W
Network node (JPLARC)
NASA/Jet Propulsion Laboratory
W6VIO Packet Switch/BBS Access System
Pasadena, CA

shows up on APRS. Yet I read the manual and it seems like it should. An ideas or suggestions?

-Greg
laborde@jpl.nasa.gov

I figured this out after I left this message for BigJon, by the way. There is no character after the "..23W", so there is nothing in the "$" or "symbol" field. Thus the beacon shows up on the POSITS list, but no corresponding symbol is displayed on the map. I fixed it, and now it works.

BTW, I am having some certain amount of fun with APRS, and am motivated to now combine my GPS-45 and KPC-3 into a portable/mobile tracker (then I'll just have to GO somewhere). I am glad I am not blazing a trail with WinAPRS. However, it looks like things will eventually go that way. I think I might be interested in getting a old Mac rather than messing with Windows '95 (but BigJon might talk me into that yet). What is the minimum Mac system MacAPRS can run on? I am suprised at the listed costs of some last-generation Macs...

-Greg

--
Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov

```
Jet Propulsion Laboratory          | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET  | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive   | Phone   : (818) 393-1107
Pasadena, CA  91109                |
```

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819. Re: [APRSSIG:6430] Mac WX reports

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 13:04:50 -0500 (EST)
To: aprssig@tapr.org
Cc: ksproul@hardees.rutgers.edu
Message-ID: <Pine.SUN.3.91.960131130029.9157A-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 31 Jan 1996, Michael Walker wrote:

> We have several Mac WX reporting stations in Toronto, and if we page
> through the WX reports with the N key, the Mac ones are corrupted if the
> Beacon (posit) is received after the WX report.

WB4APR REPLY COMMENT:  The WX report is defined to be a format within a
POSIT report.  If another POSIT comes in that does not contain the WX
data, then of course, the WX data is overwritten.  Maybe the MAC is
sending both a WX-posit report and later a normal posit report.  Seems to
me that the second conventional report is redundant.  Let me raise this
with Keith...
```

---

820. Re: [APRSSIG:6375] Re: WinAPRS release Comments and review

From: sproul@ap.org (Mark Sproul)
Date: Wed, 31 Jan 1996 13:18:37 -0500
To: aprssig@tapr.org
Message-ID: <v02130501ad3562b8fd3a@[165.1.27.20]>
Rendered body type: text/plain

```
>
>Is there any other BBS site I can DL it from?  I have tried twice from TAPR
>and lost connection twice after getting over 1 meg downloaded.  Also are the
>Docs in the Zip file or at the http site?
>
>Thanks, de Bill WA4VAF


We now have


ftp://aprs.rutgers.edu/pub/hamradio/aprs/

docs at

http://www-ns.rutgers.edu/~ksproul/APRS/


Mark

________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
________________________________________________________________________
```

---

821. BIG maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 14:42:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960131143800.11735A-100000@greatlakes>
Rendered body type: text/plain

```
Since I cannot keep up with all the state map files, I am ASSUMING that
any map makers will tell me when they have built, modified or changed
(for the better) any map 32 miles or larger.    I want my main USA and
the 5 regional distro's to get you down to the 32 mile scale anywhere.
Then what you do below that is pretty much a local issue.

So if you have any maps 32 miles or larger that are NOT in my distro
packages, then please alert me.  THanks.  (I just got NEWMEX.map off
the SIG).  thanks.
```

822. BETA74h.zip

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 15:31:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960131152640.12493C-100000@greatlakes>
Rendered body type: text/plain
```

```
I have been making many tiny changes to 74E since early December.  It
has been such a long time (relatively speaking) that I have sort of lost
the bubble as to what all I have fixed and what is still left to do.

Mmost of the 2000 work is yet to do, but maybe I have fixed the neg
temp?  See NEWSTUFF.txt which is also zipped up in the file beta74h.zip

It is posted on tapr.   Also I still havent done the DF fixes either..
But I need to establish this as my NEW baseline.  SO if you have a pet
bug, and feel like confirming that it is still there,  then get 74h and
tell me again...  Thanks!  I know its painful....
```

---

823. Re: [APRSSIG:6439] BIG maps

```
From: jkerns@usit.net (jim kerns)
Date: Wed, 31 Jan 1996 17:08:21 -0500
To: aprssig@tapr.org
Message-ID: <199601312208.RAA29779@use.usit.net>
Rendered body type: text/plain
```

```
Bob: APR,, I have not been able to find anyone out there to make me a street
level map of Jersey Shore, Pa.  Its 12 miles west of Williamsport, Pa.
About 1 1\2 hrs north of Harrisburg, Pa.  Do you think you could make me one
or point me in the right direction... Town is small  only abt 5,000
population.  Would be willing to pay a few bucks for it.
Also Am planning another trip, APRS/GPS/HSP 30 metrers back to SW Arizona in
Mid March for a little gold prospecting.  (If the propagation is ok then.
See ya.
73

Jim N4PUQ
```

---

824. 1/31/96 2:12:57 p re-routing stuck mail

```
From: Al@w6dnt.ampr.org  Wed Jan 31 16:18:16 1996
Date: Wed, 31 Jan 1996 17:15:19 -0500
To: aprssig@tapr.org, alchan@ix.netcom.com, al.chan@toadhall.com,
        AlChan@aol.com
Message-ID: <960131171517_211085279@mail06.mail.aol.com>
Rendered body type: text/plain
```

```
Rerouting bounced mail..............................................

Date: Wed, 31 Jan 96 03:11:30 -08
Message-Id: <93@w6dnt.ampr.org>
From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Reply-To: Al@w6dnt.ampr.org
To: gerry%cs.tamu.edu@w6dnt.ampr.org, al.chan%toadhall.com@w6dnt.ampr.org,
        alchan%ix.netcom.com@w6dnt.ampr.org, alChan%aol.com@w6dnt.ampr.org
Subject: ACTUAL TIME

Do you know where I can get hold of a manufacturer's service manual for the
GPS? I wrote to II Morrow about buying a service manual; they called me on
the phone and told me it was not available for sale. (Strange.) But they
offered the 'operational' manual instead. Which, of course, doesn't have any
circuit description with block diagrams.

However, in general theory, it just so happened that an MIT professor by the
name of Thomas A. Herring wrote an article in the February 1996 issue of
Scientific American. I read the article and am trying very hard to
understand what he is saying. <g>.

One point he brought out was that all the satellites operate on the same
frequencies, which stumped me, because being a ham we're not used to having
2 or more stations on the same frequency without interference from one
another.

Do you find his article pretty accurate? He also says that by ranging the
pseudo-random sequences from the satellites, the receiver internal clock can
be synchronized to the Cesium clocks on board. I know it's possible to
synchronize in phase, but how is the actual time derived? In other words,
how does the receiver's clock know the time is exactly 12 midnight in
Greenwich? Is an ordinary clock such as a quartz wristwatch close enough for
the purpose? My wristwatch loses a few seconds a day. Given that one second
```

is 24 miles, that's a pretty big error. Please enlighten me. Thanks.

```
  AL
  """"""""""""""""""""""""""""""""""""""""""""""
           AlChan@aol.com     Al@w6dnt.ampr.org
```

GC|>No problem. I was informed I missed the center frequency of the
GC|>L2 signal. I'll check that and correct it when I have a few
GC|>minutes.
GC|>
GC|>Feel free to drop me a note with other questions.

GC|>...here at Texas A&M
GC|>University, working in the Mapping Sciences Labs. I have one
GC|>project with the Entomology department where we really are
GC|>instrumenting COWS with GPS trackers.

---

825. For Bob WA3APR

From: Steve Sable <ssable@ic.net>
Date: Wed, 31 Jan 1996 17:52:28 -0500
To: aprssig@tapr.org
Message-ID: <m0thlOE-003UZnC@ic.net>
Rendered body type: text/plain

Sorry, mis-palced your e-mail address.
Wondering if you will continue with the DOS APRS or is this it?

```
                                  \\\\
                                  (o^o)
    ========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    ========================================================
```

---

826. [APRSSIG:6414] Re: APRSTIPS

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Wed, 31 Jan 1996 18:26:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I0O4I5F4EA9ANGZI@delphi.com>
Rendered body type: text/plain

Jack

I agree however at present I am the only digi that I am aware of south of
the metro atlanta area. I can only digipeat them during band openings
which seem to occur each day in the am and again around dark.

John Kraus KC4ZGQ

---

827. Mailing lists

From: Chuck Grant <grant@aretha.llnl.gov>
Date: Wed, 31 Jan 1996 15:30:59 -0800
To: aprssig@tapr.org
Message-ID: <199601312330.PAA03337@aretha.llnl.gov>
Rendered body type: text/plain

What about a MacAPRS mailing list?

Chuck

---

828. Re: [APRSSIG:6442] 1/31/96 2:12:57 p re-routing stuck mail

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 31 Jan 1996 17:30:41 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601312330.RAA19487@solar.cs.tamu.edu>
Rendered body type: text/plain

AlChan@aol.com sez:
>
> Do you know where I can get hold of a manufacturer's service manual for the
> GPS? I wrote to II Morrow about buying a service manual; they called me on
> the phone and told me it was not available for sale. (Strange.) But they
> offered the 'operational' manual instead. Which, of course, doesn't have any
> circuit description with block diagrams.

Most of the aviation-level GPS's are not provided with service manuals because, apparently, of the litigation fear. Or so Garmin told me a couple of years ago. Siad if I was a Garmin-approved avionics shop THEN they might consider selling it to me.

> One point he brought out was that all the satellites operate on the same
> frequencies, which stumped me, because being a ham we're not used to having
> 2 or more stations on the same frequency without interference from one
> another.

Spread spectrum with common center frequency. Each satellite has a different controlling pseudo random number.

> Do you find his article pretty accurate? He also says that by ranging the
> pseudo-random sequences from the satellites, the receiver internal clock can
> be synchronized to the Cesium clocks on board. I know it's possible to
> synchronize in phase, but how is the actual time derived? In other words,
> how does the receiver's clock know the time is exactly 12 midnight in
> Greenwich? Is an ordinary clock such as a quartz wristwatch close enough for
> the purpose? My wristwatch loses a few seconds a day. Given that one second
> is 24 miles, that's a pretty big error. Please enlighten me. Thanks.

The accuracy of the free-running oscillator on the GPS receiver is pretty good, to within a second or two per day, in the boxes I've tried (mostly Motorola engines). The time-hack is subdivided to 1023 "chips" for timing purposes, and the data are sent out at a 10.23 MHz "chip" rate. the pseudorandom number (PRN) which is individual for each satellite, and known by all receivers, is used to seed the algorithm for spreading. Once the receiver determines it has a valid SS sequence for a satellite it uses its DSP subsystem, or discreet receiver channels, etc., to track in on the various satellites. The data are processed and correlated.

At the rate of data transmission, and assuming no dithering, the effective system common mode error for integer-phase-cycle shift on a single satellite should be on the order of 17 meters per chip.

And, no. A real good quartz wristwatch is not good enough.

73, Gerry
n5jxs@tamu.edu
gerry@cs.tamu.edu

---

829. Future of APRS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 19:16:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960131190653.15977A-100000@greatlakes>
Rendered body type: text/plain

On Wed, 31 Jan 1996, Steve Sable wrote:

> Wondering if you will continue with the DOS APRS or is this it?

WB4APR REPLY COMMENT: APRS (DOS) Will CONTINUE by all means, Yes! The Sproul Bros will continue to plow forward with the WinAPRS and MacAPRS and a future X-APRS for UNIX machines. I will continue to hack away at APRS(DOS). We will be sure to coordinate all features between versions.

Although APRS74e has been the latest version for over two months (a record), there will be future versions for the DOS guys. In general, I will begin to specialize versions. Rather than make APRSxx do everything, I will separate out the WX, Direction Finding, and DX cluster stuff so that I can add bells and whistles to each...

---

830. Latest Garmin V#?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jan 1996 19:20:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960131191707.15977B-100000@greatlakes>
Rendered body type: text/plain

Another newbee question. What is the latest Garmin V#? I got stuck at the mall with my wife and wandered into a boat store. Came out with my very own GARMIN-45. Now I can play too. (and test with a real interface!)

This one is V 2.43... Only REPLY if you have a later version....

---

831. wide/relay

From: Scott Miller <scottm@sierra.net>
Date: Wed, 31 Jan 1996 16:01:56 -0800
To: APRSSIG <aprssig@tapr.org>
Message-ID: <311002F4.317B@sierra.net>
Rendered body type: text/plain

```
I am half owner of a node/digi kb6jc-3 at donner summit in the sierra
mountians. it is a tiny 2 x-1j4,it's alias is wide and I would like to
change it to wide/relay.I sent e-mail to paccomm but never heard back.
and I haven't been able to contact any x-1j4 sysops in Ca.
thanks in advance for any help.
Scott KE6RKE
```

---

832. FL to NC on 145.79 Saturday

From: n2czf@gate.net
Date: Wed, 31 Jan 1996 22:31:33 -0500
To: aprssig@tapr.org
Message-ID: <199602010331.WAA34006@osceola.gate.net>
Rendered body type: text/plain

```
KC4HDK-9 will be leaving SE Florida for Sugar Mt. North Carolina this Saturday.
Bob will not have a PC connected to the system during the trip but will probably
have his mailbox KC4HDK-1 in operation. As far as he knows the trip will take
him thru the Atlanta APRS area with a return on Tuesday. Im wondering if there
is any APRS activity in the Sugar Mt. area?

I have set up several different UNPROTO paths in his TNC and I hope that it
works. After returning his Pico Packets he just bought a KPC-3 and we hope to
have it going without any problems. He just got it today and we do not have a
lot of time to test it out before the trip, but so far no problems.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

833. Re: [APRSSIG:6443] For Bob WA3APR

From: rwf <rwf@mindspring.com>
Date: Wed, 31 Jan 1996 22:45:10 -0500
To: aprssig@tapr.org
Message-ID: <199602010345.WAA20103@borg.mindspring.com>
Rendered body type: text/plain

```
At 05:11 PM 1/31/96 -0600, somebody wrote:

>Wondering if you will continue with the DOS APRS or is this it?



Shame on you!
Don't even ask!

There is no GUI based program that is easy to operate mobile, especially on
a low end PC.  I just wish he could figure out how to make APRS come out in
COLOR on my laptop.  Guess we gotta make the laptop color, first.

Most folks don't want to take their fancy windows or mac machine rattling
around in the car, risking being stolen or messed up!

But I am not too worried about my $100.00 Compaq 286 laptop.

It is so simple to operate mobile, with the simple 1 finger commands.  I
could even even do it while driving if I wanted. But  Nahhh...   I wouldn't
do that, would I Bob ? :)


Windows and Mac versions certainly have their places to shine, and I use
both of them, but:

I wish DOS APRS a L O N G  and happy life.



Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor

rwf@mindspring.com  rwf@cokecce.com                   Atlanta, GA USA
Web:    http://www.mindspring.com/~rwf  for APRS, ATV, Balloon, and Ham info
FTP:     ftp.mindspring.com/users/rwf            for ATV, GPS, APRS files

 My hobby is tracking moving things with APRS, GPS and Packet. Ask me how.
```

834. Re: [APRSSIG:6449] wide/relay

From: rwf <rwf@mindspring.com>
Date: Wed, 31 Jan 1996 22:56:13 -0500
To: aprssig@tapr.org
Message-ID: <199602010356.WAA23995@borg.mindspring.com>
Rendered body type: text/plain

At 06:50 PM 1/31/96 -0600, Scott wrote:
> I would like to
>change it to wide/relay.I sent e-mail to paccomm but never heard back.
>and I haven't been able to contact any x-1j4 sysops in Ca.

Scott, PacComm did not write TheNet, and I am not sure if they support it
(as fas as programming help goes).

However, N4QEA (who reads this list) has one on the air with about 4
aliases. He may have even already replied to you. If not, his address is
moyers@ibm.net

I personally don't really like XiJ for an APRS digi. Not exactly sure how to
word this, but is seems like even tho it can have 3 or 4 aliases, its posit
beacon cannot follow a path. This means people out one WIDE will not see
your digi unless someone uplinks it. What a pain!

Bill is in Knoxville and we do not see his digi on the map in Atlanta. We
are 1 hop away.

Ralph

---

835. Re: [APRSSIG:6427] Olympic Tourch

From: mklings@execpc.com (Milt Klingsporn)
Date: Wed, 31 Jan 1996 22:04:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602010404.WAA28964@execpc.com>
Rendered body type: text/plain

>I am building an Olympic Tourch APRS map so that we can begin to plan on
>our own "informal" tracking of this event. DO NOT initiate any contacts
>with any other organizations at this time regarding APRS or even HAM
>participation. Negotiatios are VERY SENSITIVE...
>
>Anyway, my WEB brouser or their WEB page, displays lists of towns in a
>pull down window. Each window block is too long for my screen, so I can
>only capture the first 2/3rds of towns on each list. I DO have all of the
>towns and dates EXCEPT for the following dates. If anyone else can read
>the towns for these dates, I would appreciate a list ASAP.

You wanted the following data on the Olympic Tourch route. The following
should fill the bill.
You didn't say if you just wanted the starting and ending cities for each
date, or all the stops.
Figuring more is better, I've filled in all of the stops indicated for each
date.
Good luck with your project.
73s, Milt N9WSZ

>Missing dates: May 1, Kingman, AZ; Boulder, NV, Henderson, Las
Vegas, NV
2, Las Vegas, NV; (train); Barstow, CA; (train); Santa
Barbara; (train); San Louis Obispo; (train); San Jose, CA
3rd San Jose, CA; Santa Clara; Sunnyvale; San Mateo;
Foster City; San Francisco, CA
8, Seatlle,WA; Renton; Yakima; Pendleton, OR
9, Pendleton, OR; (train); Boise, ID; (train);
Pocatello; (train); Odgen, UT
10th Odgen, UT; North Salt Lake City; Salt Lake City, UT
16, (Pony Express Route) to St Joseph, MO; Kansas City;
Kansas City, KS; Lawrence; Topeka, KS
17, Topeka, KS; Emporia; Wichita, KS
18th Wichita, KS; Ponca City, OK; Yale; Stillwater, OK
24, Baton Rouge, LA; Gonzalez; La Place; Norca;
Destrehan; Luling; Bridge CIty; New Orleans, LA
25, New Orleans, LA; Slidell; Bogalusa; Columbia, MS;
Mendenhall; Jackson; Vicksburg, MS
26th Vicksburg, MS; (train); Pine Bluff, AK; (train);
Little Rock; Memphis, TN
June 1, Austin, MN; Rochester; Minneapolis, MN
2nd Minneapolis,MN; St Paul; (train); Red Wing; (train);

```
Wisconsin Dell, WI; (train); Milwaukee, WI
               7,       Cincinnati, OH; Columbus, OH
                 8th    Columbus, OH; Dublin; Marysville; Findlay; Bowling
Green; Toledo, OH
                9       Toledo, OH; Flat Rock, MI; Taylor; Detroit, MI
              13th      Syracuse, NY; Utica; Herkimer; Amsterdam;
Schenectady; Albany, NY
               17,      New Haven, CT; West Haven; Stratford; Bridgeport;
Fairfield; Westport; Norwalk; Darien; Stamford; New York City, NY
                18th    day 53 - New York City, NY; Jersey City, NJ; Basking
Ridge; Princeton; Lawrenceville; Trenton, NJ
                            day 53B - Trenton, NJ; Morrisville, PA;
Philadelphia, PA
              23rd     Raleigh, NC; Durham; Chapel Hill; Burlington;
Greensboro, NC
              July  3rd        Gainesville, FL; Tampa; St Petersburg, FL
               8,      Orlando,FL; Daytona Beach; St Augustine, FL
                 9th    St Augustine, FL; Jacksonville, FL

>All I need is a list of the towns for each day.
>
>The result of this collection will be a TRACK HISTORY file that you can
>replay to see the movement of the torch.  If it comes through your city,
>be thinking about how you can have digipeaters along the route...
>
>Oh I almost forgot.  THe data is on the http//www.cocacola.com
>
>
>
--------------------------------------------------
           Milt Klingsporn, N9WSZ
            Milwaukee, Wisconsin
      A Great Place on a Great Lake.
          mklings@execpc.com
--------------------------------------------------
```

836. Re: [APRSSIG:6437] Re: Mac WX reports

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 31 Jan 1996 23:12:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960131230745.22869B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Wed, 31 Jan 1996, Bob Bruninga wrote:

> WB4APR REPLY COMMENT:  The WX report is defined to be a format within a
> POSIT report.  If another POSIT comes in that does not contain the WX
> data, then of course, the WX data is overwritten.  Maybe the MAC is
> sending both a WX-posit report and later a normal posit report.  Seems to
> me that the second conventional report is redundant.  Let me raise this
> with Keith...
>
We have somone who does this *on purpose* in the Boston area. He runs
MacAPRS with a U-2000 ! And usually alternates from WX to 'normal' beacons.

I've never seen his WX data get corupted. What happens is that his WX
data disapears!

Frankly, I don't understand why he does this. If you are going to
broadcast WX data, fine, but why intentionally make it unavailable so you
can show your Mac icon?

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

837. Re: [APRSSIG:6449] wide/relay

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Wed, 31 Jan 1996 23:22:17 -0500
To: aprssig@tapr.org
Message-ID: <199602010420.XAA07038@sun.lssu.edu>
Rendered body type: text/plain

```
>I am half owner of a node/digi kb6jc-3 at donner summit in the sierra
>mountians. it is a tiny 2 x-1j4,it's alias is wide and I would like to
>change it to wide/relay.I sent e-mail to paccomm but never heard back.
>and I haven't been able to contact any x-1j4 sysops in Ca.
>thanks in advance for any help.
>Scott KE6RKE
>
```

Hello, Scott.
In digis.txt, APR included some information I provided him, concerning my use of remote programable aliases in the X1J software program. The actual procedures for making those changes come with the supporting docs for X1J.

I now have my X1J node configured as a WIDE/RELAY digi, with all the NETOM/TCP-IP functions disabled with ACL codes and blank tables. It is essentially a "brain dead" digi, all done remotely. One disadvantage of this approach, over dedicated APRS digi firmware, is the inability to change the "UNPROTO" path for the digi's own beacon. There is some flexibility available to add digis to the path when the tnc eprom is configured for X1J and X1J4?, but I have had no reason to explore the options.

I hope this info helps.

Pete, wa4hei

---

838. Re: Fan mail from some flounder

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 31 Jan 1996 23:47:59 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad35ecff0b0f@[199.1.11.126]>
Rendered body type: text/plain

>BTW, I am having some certain amount of fun with APRS, and am motivated to
>now combine my GPS-45 and KPC-3 into a portable/mobile tracker (then I'll
>just have to GO somewhere). I am glad I am not blazing a trail with
>WinAPRS. However, it looks like things will eventually go that way. I think
>I might be interested in getting a old Mac rather than messing with Windows
>'95 (but BigJon might talk me into that yet). What is the minimum Mac
>system MacAPRS can run on? I am suprised at the listed costs of some
>last-generation Macs...
>
>-Greg

A 10 year old MAC PLUS with 4 Megs of memory will run a minimal version of MacAPRS in black and white. Total cost $100-250. If I had a power inverter I might take one with me for use in the car.
Note: I would not try using less than SYSTEM 7.0.1
A used Mac II would be a good unit for Color.

It is hard to believe my oldest Mac Plus started life in Feb 1984 as a Mac-128K and with only a memory and pc board upgrade is still running a 11 year old BBS.

Download the MacAPRS software, maps and load on a computer at Computer City and play.
73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

February 1996

Original source file: aprssig.9602
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-02/TAPR-APRS_1996-02.txt

1. Re: [APRSSIG:6449] wide/relay

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 1 Feb 1996 06:13:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960201061102.1870D-100000@paccomm>
Rendered body type: text/plain

On Wed, 31 Jan 1996, Scott Miller wrote:

> I am half owner of a node/digi kb6jc-3 at donner summit in the sierra
> mountians. it is a tiny 2 x-1j4,it's alias is wide and I would like to
> change it to wide/relay.I sent e-mail to paccomm but never heard back.
> and I haven't been able to contact any x-1j4 sysops in Ca.
> thanks in advance for any help.
> Scott KE6RKE

I hope someone on the SIG will be able to help Scott. I've told him that
I do not know enough about TheNet X1J4 to provide an answer, but suspect
that his wish cannot be done.

_ _
Gwyn Reedy, W1BEL   gwyn@paccomm.com   W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.   +(813) 874-2980 Fax:+(813) 872-8696
4413 N. Hesperides St.   BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA   info@paccomm.com http://www.paccomm.com

---

2. Re: (no subject) (fwd)

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 1 Feb 1996 06:22:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960201062051.1870E-100000@paccomm>
Rendered body type: text/plain

---------- Forwarded message ----------
Date: Thu, 1 Feb 1996 06:05:12 -0500 (EST)
From: Gwyn Reedy, W1BEL <gwyn@paccomm.com>
To: Scott Miller <scottm@sierra.net>
Cc: File <file@paccomm.com>
Subject: Re: (no subject)

On Tue, 23 Jan 1996, Scott Miller wrote:

> Hi,
> I have a tiny 2 mk 2 I'm useing as a APRS Digi/node mostly Digi.
> It's a x-j14 and I would like to give it double alises RELAY/WIDE
> curently it is just WIDE.I would like to know if this is possible
> and if so how to do it?
> thanks very much.
> Scott KE6RKE the crazy guy from california

Sorry for the delay in answering you. I was out of the office on a
business trip all last week and am slowly catching up on the 600 email
messages that piled up.

I am confused by your question. It says you are running X1J4 (TheNet)
firmware but that the usage is for APRS. I am not familiar with that usage.
I could tell you what to do if you were using the PacComm EPROM, but I
don't know if it is possible to do what you want to do with the TheNet.

There has been some discussion of this on the SIG - maybe someone there
can suggest what to do.

73,
Gwyn

_ _
Gwyn Reedy, W1BEL   gwyn@paccomm.com   W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.   +(813) 874-2980 Fax:+(813) 872-8696
4413 N. Hesperides St.   BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA   info@paccomm.com http://www.paccomm.com

3. Re: [APRSSIG:6447] Future of APRS!

From: Kent Larson <klarson@access.digex.net>
Date: Thu, 1 Feb 1996 07:28:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960201072758.20716A-100000@access1.digex.net>
Rendered body type: text/plain

```
Good!

Kent Larson

On Wed, 31 Jan 1996, Bob Bruninga wrote:

> On Wed, 31 Jan 1996, Steve Sable wrote:
> 
> > Wondering if you will continue with the DOS APRS or is this it?
> 
> WB4APR REPLY COMMENT:  APRS (DOS) Will CONTINUE by all means, Yes!  The
> Sproul Bros will continue to plow forward with the WinAPRS and MacAPRS
> and a future X-APRS for  UNIX machines.  I  will continue to hack away at
> APRS(DOS).  We will be sure to coordinate all features between versions.
> 
>    Although APRS74e has been the  latest version for over two months (a
> record), there will be future versions for the DOS guys.  In general, I
> will begin to specialize  versions.  Rather than make  APRSxx do
> everything, I will separate out the  WX, Direction Finding, and
> DX cluster stuff so that I can add bells and whistles to each...
> 
> 
> 
> 
```

---

4. Re: [APRSSIG:6402] Re: Win32S

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 1 Feb 1996 07:40:05 -0600
To: aprssig@tapr.org
Message-ID: <9602011340.AA12182@omnifest.uwm.edu>
Rendered body type: text/plain

```
>One thing I haven't seen discussed yet is Winaprs doesn't have the serial
>port stuff working yet under windows 3.1, 3.11. It will only work with
>your TNC under 95 or NT.

        Damn!  I will only use 95 if there is something that I can't
        live without and that is the ONLY way to get it.
        WinAPRS may just "push me over the edge" - OR - maybe I'll just
        beg - and beg - and beg some more......
Dave Barrow, N9UNR
Sysop, Ham Area, Omnifest
dbarrow@omnifest.uwm.edu
```

---

5. RE: [APRSSIG:6460] Re: Win32S

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 1 Feb 1996 9:27:40 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960201092740.2041bcae@exame2.dseg.ti.com>
Rendered body type: text/plain

```
You wrote:
>        Damn!  I will only use 95 if there is something that I can't
>        live without and that is the ONLY way to get it.
>        WinAPRS may just "push me over the edge" - OR - maybe I'll just
>        beg - and beg - and beg some more......
>Dave Barrow, N9UNR
>Sysop, Ham Area, Omnifest
>dbarrow@omnifest.uwm.edu

Dave:
If you are going to change to something, change to NT. That is a real
operating system - not just warmed over Windows 3.1 that still has its
fundamental flaws!

  73 Claude
     K5DTN
```

---

6. Re: [APRSSIG:6449] wide/relay

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Feb 1996 11:02:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960201105957.20283D-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 31 Jan 1996, Scott Miller wrote:

> I am half owner of a node/digi kb6jc-3 at donner summit in the sierra
> mountians. it is a tiny 2 x-1j4,it's alias is wide and I would like to
> change it to wide/relay.

WB4APR REPLY COMMENT:

All you do on an X1-J DIGI is to make one of the other callsigns RELAY.
Use the MYHOST, or MYBBS, or MYDX.

Each of those callsigns should also DIGI.
```

7. Flawed BETA74h

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Feb 1996 11:08:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960201110414.20283E-100000@greatlakes>
Rendered body type: text/plain

```
---------- Forwarded message ----------
From: W2HOB@aol.com

Hi Bob... just installed BETA74h and right away, the U-II on COM2:
sent a string that displayed over the middle of the map.....

WB4APR REPLY:  OOOps...  That was a test so I could see the raw ultimeter
string.  FOrgot to remove it.  Like I said, its a beta.  Keep running it
and lemme know if any other things crop up...
```

8. TAPR Upload Errors

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Thu, 1 Feb 1996 09:15:30 MST-0700
To: aprssig@tapr.org
Message-ID: <61B20276F68@ceis.uhcolorado.edu>
Rendered body type: text/plain

```
Anyone know why I consistently get the following error when
trying to upload files from TAPR/APRS/UPLOAD?

"530 USER ANONOMOUS ACCESS DENIED"

This error occurs about 50% of the time when I am trying to
upload the latest files.  Sometime it occurs when I first
try to access the TAPR site, other times, like today, it
occurred after I had already uploaded 2 files and was
trying to upload files out of the Garmin folder.


?????????????
Art Smith
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757  FAX - (303)270-4710
als@ceis.uhcolorado.edu
```

9. Re: other features

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Feb 1996 11:20:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960201111236.20283G-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 31 Jan 1996 SARDUCK@aol.com wrote:

> ...We want to aim the Coast Guard Auxiliary towards APRS...
> Here's a thought - could APRS have prerecorded one liners available for
> fast REPLY messages?

WB4APR REPLY COMMENT:

Its in there!  I cant remember how far back tho...  when you send a
message, and it asks for you to enter message text, just enter a single
```

```
digit.  APRS will then send that existing outgoing message number to the
new station.

So that you can pre-load such messages without having them clog up the
channel until needed, send your "canned" messages to MSGx.  The X is
not used,  APRS IGNORES all outgoing messages to MSGx.  That way they
just sit there in your send buffer allowing you to "COPY" them to anyone
with only 4 key strokes: S, #, CR.  Dont forget you can also use F2 as a
REPLY key so that you dont even have to type the guy's call.
```

---

10. Re: [APRSSIG:6463] Flawed BETA74h

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Thu, 01 Feb 1996 12:04:45 -0500
To: aprssig@tapr.org
Message-ID: <199602011703.MAA07920@sun.lssu.edu>
Rendered body type: text/plain

```
>
>---------- Forwarded message ----------
>From: W2HOB@aol.com
>
>Hi Bob... just installed BETA74h and right away, the U-II on COM2:
>sent a string that displayed over the middle of the map.....
>
>WB4APR REPLY:  OOOps...  That was a test so I could see the raw ultimeter
>string.  FOrgot to remove it.  Like I said, its a beta.  Keep running it
>and lemme know if any other things crop up...
>
>
  I am having the same problem with 7.4h as I have with 7.3e, as follows:
I cannot switch my KAM 4.0 (also KAM7.0) from vhf to hf, using C,B,H. I must
O,C,T and use the streamswitch ~A, to put the KAM in hf. Switching from hf
to vhf, using C,B,V
works like a charm.

  I have the identical problem under plain DOS, Desqview and Windows 3.1. I
suspect
that I have a basic configuration problem, somewhere. Maxusers is set to 3/3.

  Any suggestions? A configuration file of your KAM TNC commands, from
someone that
plays with the problem features, with no problems, may very well be the cureall.

                                             Pete, wa4hei
```

---

11. Re: [APRSSIG:6464] TAPR Upload Errors

From: sproul@ap.org (Mark Sproul)
Date: Thu, 1 Feb 1996 12:25:13 -0500
To: aprssig@tapr.org
Message-ID: <v0213050cad36a762e61c@[165.1.27.20]>
Rendered body type: text/plain

```
>Anyone know why I consistently get the following error when
>trying to upload files from TAPR/APRS/UPLOAD?
>
>"530 USER ANONOMOUS ACCESS DENIED"
>
>This error occurs about 50% of the time when I am trying to
>upload the latest files.  Sometime it occurs when I first
>try to access the TAPR site, other times, like today, it
>occurred after I had already uploaded 2 files and was
>trying to upload files out of the Garmin folder.
>
>

because you cannot spell  ANONYMOUS

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

---

12. Re: [APRSSIG:6454] Re: Mac WX reports

From: Dick Mead <mead@skat.usc.edu>
Date: Thu, 1 Feb 96 9:49:32 GMT

To: aprssig@tapr.org
Message-ID: <CMM.0.90.2.823196972.mead@hamal.usc.edu>
Rendered body type: text/plain

```
> On Wed, 31 Jan 1996, Bob Bruninga wrote:
>
> > WB4APR REPLY COMMENT:  The WX report is defined to be a format within a
> > POSIT report.  If another POSIT comes in that does not contain the WX
> > data, then of course, the WX data is overwritten.  Maybe the MAC is
> > sending both a WX-posit report and later a normal posit report.  Seems to
> > me that the second conventional report is redundant.  Let me raise this
> > with Keith...
> >
> We have somone who does this *on purpose* in the Boston area. He runs
> MacAPRS with a U-2000 ! And usually alternates from WX to 'normal' beacons.
>
> I've never seen his WX data get corupted. What happens is that his WX
> data disapears!
>
> Frankly, I don't understand why he does this. If you are going to
> broadcast WX data, fine, but why intentionally make it unavailable so you
> can show your Mac icon?
>
> Richard Amirault              N1JDU           Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"
>
>

I do this all the time so I don't leave the WX icon up, as I prefer
the Apple or QTH icon. I don't see anything wrong here. Perhaps icon
choice should always be left to the individual. Besides, So. CAL has no
weather to broadcast, right?

Dick  WB6NGC
```

---

13. Re: [APRSSIG:6461] Re: Win32S

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Thu, 01 Feb 1996 10:16:10 -0600
To: aprssig@tapr.org
Message-ID: <199602011816.MAA15109@sys1.tapr.org>
Rendered body type: text/plain

```
>You wrote:
>If you are going to change to something, change to NT. That is a real
>operating system - not just warmed over Windows 3.1 that still has its
>fundamental flaws!
>
>  73 Claude
>     K5DTN
HEAR! HEAR!

and if you want you can even get the 95 GUI for NT which is nice once you
get use to it; unless you've been a MAC user; in which case you will cry, "
we've been robbed"
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good
```

---

14. Re: wide/relay

From: Larry Griffin <largriff@onramp.net>
Date: Thu, 1 Feb 1996 13:30:26 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAF0A9.83ED0D80@lub06.onramp.net>
Rendered body type: text/plain

```
On Wed, 31 Jan 1996, Scott Miller wrote:

> I am half owner of a node/digi kb6jc-3 at donner summit in the sierra
> mountians. it is a tiny 2 x-1j4,it's alias is wide and I would like to
> change it to wide/relay.

AB5GE REPLY COMMENT:

Set ALIAS to describe the node location, e.g. DONNER
Set BBSALIAS to WIDE
Set DXALIAS to RELAY
```

```
HOSTALIAS *can* be used but isn't recommended because if someone
connects to it they go into a black hole.

A beacon digipath can be hardcoded into the EPROM but can't be changed
remotely.

Larry Griffin AB5GE <largriff@onramp.net>
```

---

15. Beta74h oddity (?)

From: Arthur Booten <N2ZRC@gnn.com>
Date: Thu, 01 Feb 1996 14:52:46
To: APRSSIG@tapr.org
Message-ID: <199602011953.OAA16909@mail-e1b.gnn.com>
Rendered body type: text/plain

```
Hi Bob et al,

     Been looking at the SIG a few weeks now and have learned much
from it.

     I downloaded Beta74h.zip yesterday and am running it now.  I
stepped away for a bit and when I returned I saw on the 128-scale at
4125.71N/07506.52W the following: ":#2003E00370037" and at the same
latitude/07634.92W I saw "15".  Wondering what this was, I moved the
cursor to the spot and found... nothing!  So I hit "home" to zoom in
on the first item and they both disappeared.

     A bit later I saw them again (my cursor is normally centered on
4052.69N/07354.06W, my home QTH) and wrote down the information to
post here.  I also tried to find this stuff on the "P", "H" and "A"
lists but they weren't there.

     On to the flip side.  I very much like APRS and find it lots of
fun.  As an ARES/RACES person here in New York City I'm trying to
get my colleagues into it as there are MANY potential applications
for this program in Emergency Management.  I'm also trying to get
some stations in Westchester, Rockland, Putnam, Ulster and Orange
counties on the air with APRS.  There seems to be an RF hole up
there for APRS and I think, if my efforts are successful, it may
soon be plugged up.

     Keep up the good work Bob, and thanks to ALL the contributors
to the SIG for many helpful tips.

Arte - N2ZRC - ORS (NTS) - OES (ARES) - DRO (RACES)
Arte Booten  (N2ZRC@aol.com)  OR  (N2ZRC@gnn.com)
 (Packet Radio:  N2ZRC@N2NSA.#BRONX.NY.USA.NA)
***Packet Radio address for non-commericial use only***
  ***and must be limited to ASCII files less than 2 kb.***
```

---

16. Re: [APRSSIG:6464] TAPR Upload Errors

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 1 Feb 1996 14:44:01 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602012044.OAA21038@tapr.org>
Rendered body type: text/plain

```
Hello Art.  The problem is that TAPR is currently limited to 10 anonymous
sessions in our current location.  When you get that -- it means that all 10
slots are busy.

I don't think I saw Keith post the message I posted to the system group for
reposting to the SIGs.  Maybe he can do that -- it explains what is
happening with TAPR.ORG currently.

As soon as the system is located to a faster pipe, we will increase the
number of users allowed.  I would like to do it now -- but it would be a
burden on our current host.

The problem has been our suucess.  We have out gorwn our current situation
and have been working on making a change for about 2 months now.

Sorry for the problem.  Cheers - Greg

>
> Anyone know why I consistently get the following error when
> trying to upload files from TAPR/APRS/UPLOAD?
>
```

> "530 USER ANONOMOUS ACCESS DENIED"
>
> This error occurs about 50% of the time when I am trying to
> upload the latest files. Sometime it occurs when I first
> try to access the TAPR site, other times, like today, it
> occurred after I had already uploaded 2 files and was
> trying to upload files out of the Garmin folder.
>
>
> ?????????????
> Art Smith
> Facilities Engineer, Engineering Services
> University Hospital, Denver, Colorado, USA
> Voice - (303)270-3757 FAX - (303)270-4710
> als@ceis.uhcolorado.edu
>
>

---

17. Re: [APRSSIG:6464] TAPR Upload Errors

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 1 Feb 1996 14:55:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602012055.OAA21521@tapr.org>
Rendered body type: text/plain

Hello again Art -- I think Mark Sproul got the correct fix if it is indeed a
keyboard problem ?

Also -- as mentioed on the DSP-93 SIG, some folks might want to be aware of
the following. The new IP address as of about week ago is: 206.210.220.85

Cheers - Greg

---
In addition, there have been some DNS changes recently. Make sure whatever
you are using for FTP access is NOT "remembering" the old IP address in a
"hosts" file or setup file somewhere. That can make you look for the right
name, but the wrong IP address.

Mark Hammond

>
> Anyone know why I consistently get the following error when
> trying to upload files from TAPR/APRS/UPLOAD?
>
> "530 USER ANONOMOUS ACCESS DENIED"
>
> This error occurs about 50% of the time when I am trying to
> upload the latest files. Sometime it occurs when I first
> try to access the TAPR site, other times, like today, it
> occurred after I had already uploaded 2 files and was
> trying to upload files out of the Garmin folder.
>
>
> ?????????????
> Art Smith
> Facilities Engineer, Engineering Services
> University Hospital, Denver, Colorado, USA
> Voice - (303)270-3757 FAX - (303)270-4710
> als@ceis.uhcolorado.edu
>
>

---

18. Re: [APRSSIG:6455] Re: wide/relay

From: N4QEA <moyers@ibm.net>
Date: Thu, 1 Feb 1996 19:42:50 EST
To: aprssig@tapr.org
Message-ID: <199602020038.AAA103000@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

> >I am half owner of a node/digi kb6jc-3 at donner summit in the sierra
> >mountians. it is a tiny 2 x-1j4,it's alias is wide and I would like to
> >change it to wide/relay.I sent e-mail to paccomm but never heard back.
> >and I haven't been able to contact any x-1j4 sysops in Ca.
> >thanks in advance for any help.
> >Scott KE6RKE
> >
>   Hello, Scott.
>   In digis.txt, APR included some information I provided him,

```
> concerning my use of remote programable aliases in the X1J software program.
> The actual procedures for making those changes come with the supporting docs
> for X1J.
>
>   I now have my X1J node configured as a WIDE/RELAY digi, with all the
> NETOM/TCP-IP functions disabled with ACL codes and blank tables. It is
> essentially a "brain dead" digi, all done remotely. One disadvantage of this
> approach, over dedicated APRS digi firmware, is the inability to change the
> "UNPROTO" path for the digi's own beacon. There is some flexibility available
> to add digis to the path when the tnc eprom is configured for X1J and X1J4?,
> but I have had no reason to explore the options.
>
>    I hope this info helps.
>
>                                Pete, wa4hei
>

Scott, Pete's advice in the APR documentation is good.  in the short haul though
to ad the other digi alias's just assign the extra alias to BBSAlias, HOSTAlias,
DXCLUSTERAlais.  For a total of four alias's.

John Moyers
ARS; N4QEA
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA
Inet; moyers@ibm.net
Cruise Missle; 36,02.89N/83,43.35W
```

---

19. Re: [APRSSIG:6471] Beta74h oddity (?)

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 01 Feb 1996 18:43:48
To: aprssig@tapr.org
Message-ID: <9602020046.AA15000@foo.garply.com>
Rendered body type: text/plain

```
I'm running 74h and see the same thing descibed below. Large numbers in
the middle of the screen.

Bill KE4EER
-----------------

>stepped away for a bit and when I returned I saw on the 128-scale at
>4125.71N/07506.52W the following: ":#2003E00370037" and at the same
>latitude/07634.92W I saw "15".  Wondering what this was, I moved the
>cursor to the spot and found... nothing!  So I hit "home" to zoom in
>on the first item and they both disappeared.
```

---

20. Re: [APRSSIG:6432] Little Rock,AR Maps

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 01 Feb 1996 18:59:45
To: aprssig@tapr.org
Message-ID: <9602020102.AA15622@foo.garply.com>
Rendered body type: text/plain

```
>What software are you using to generate the maps with rail lines?  Are you doing
>this manually or what?  Thanks for info!
>
>73 de Jim, KU0G
>
Jim i'm using the standard MKMAPKKE.EXE i think it's called. It will ask you
what features you want included in the map. You can try the new software
MKMAPV20.EXE but i have found it to be nearly useless since it crashes on
the first map of the grid of maps you are trying to make even tough the points
are very low. The last grid i was attempting to make it crashed on the number
one map and it only had 1800 points.

Bill KE4EER
```

---

21. Re: [APRSSIG:6432] Little Rock,AR Maps

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 01 Feb 1996 18:52:40
To: aprssig@tapr.org
Message-ID: <9602020054.AA04596@foo.garply.com>
Rendered body type: text/plain

```
Tom i sure wish i could but don't have CD #7 that covers that area. To
download the files for Madison,WI would take to much time since it would add
up to 30 files or so. If you have a way of getting the data to me i would be
glad to make the maps for you.
```

```
Bill KE4EER
-----------------
>Hi Bill,
>  If you're looking for an area to test mapmaking software, I nominate
>Madison, WI!  I'm still trying to make maps from the USGS internet site but
>am stuck.▯
>
>  -73- Tom WJ9H
>
>!4301.38N/08929.95W
>
>
```

22. Olympic Torch Relay

From: "Mr & Mrs David Holstein, Jr." <holstein@erols.com>
Date: Thu, 1 Feb 1996 20:40:57 -0500
To: aprssig@tapr.org
Message-ID: <199602020140.UAA32102@mail.erols.com>
Rendered body type: text/plain

My wife (Valerie, N3NGW) works for Coca-Cola and they are sponsoring the Olympic Torch Relay. She has volunteered the information at work that Hams may be able to help in the Torch run.

I noticed some talk of the torch run, haven't finished reading it all, and if Coca-Cola is interested I would like to have a list of hams willing to help out in the Baltimore, MD area for communications. I think APRS would be very useful in this situation and since Coke is looking for help we could do it.

I'd like to get some support from this sig. If you would like some info, I'll try to get your questions answered, or if you'd like to offer help, feel free to e-mail me.

David, N3NGB
Valerie, N3NGW

holstein@mail.erols.com

23. Madison,WI Map

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 01 Feb 1996 20:15:37
To: aprssig@tapr.org
Message-ID: <9602020217.AA17634@foo.garply.com>
Rendered body type: text/plain

Tom (WJ9H

I downloaded the files for Madison.WI and have made a 1 mile (2 Mile) map of the center of Madison, Send me a message and i will attach it to the reply. I lost your address. If you want i can send you a text file on how to use the USGS files for making the maps!. By the way that was the strangest map i ever made being that it has open water North and South.

Bill KE4EER
ke4eer@AIRnet.net

24. Port swiching. PSE HELP!!!!

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 02 Feb 1996 00:50:04 -0500
To: aprssig@tapr.org
Message-ID: <199602020548.AAA09436@sun.lssu.edu>
Rendered body type: text/plain

I have been living with a problem that is evident on my setup, using a KAM 4.0/7.0 and APRS73/74, running under plain DOS, DesqView, or Windows 3.1. No one else has mentioned this problem, that I am aware of, indicating to me, one of 2 major reasons for the perceived problem:

1. There is a bug in the software but no one is using the features as I am, therefore no one is aware of the problem.

2. There is no bug in the software and the perceived problem has its roots elsewhere.

If I depress, in succession, the C, B, and V keys, my KAM switches from the hf port to the vhf port and all program functions work as expected.

If I then depress, in succession, the C, B, and H keys, my KAM remains in the vhf port configuration, but the status bar indicates the change to hf. I can repeat the attempt to change the port back to hf but it will remain in the vhf configuration, though indicate the hf configuration on the screen status bar. APRS 2 port mode selection makes no difference, the symptoms are identical.

I can use the O, C, T key combination, in succession, in either port configuration and raise the command screen. From the command screen, use of the appropriate streamswitch characters ~a or |a (tilde a or pipe a) will always switch the port.

When the KAM is actually switched to the hf port, APRS works as expected.

I have touched on this problem several times, in APRSSIG messages, and over the air on hf APRS, but have received no confirmation of a problem, real or imaginary! It's as if no one wants to point out the error of my ways!

Rest assured, I do not have the hide of a rhinoceros, but I cast aside my sandles many years ago and became more humble, actually open to constructive criticism, even though pointed!

For the better part of three months I have lived with the anomoly described and am beside myself with grief, for I have yet to be offer a clue I can recognize, to extricate myself from a situation that to date, indicates my state of gross ignorance. HELP!!!!

Whatever the reason, I request, most humbly, nay! I beseech most obsequiously, that someone put an end to my misery and gimmee a clue to what's broke. For up to now, my plaintive cries have struck upon deaf ears.

I promise that I will not smile, frown, laugh or cry, regardless of how ridiculous the offered suggestions may be, for at this moment I am clutching at all straws, mine
and others, hoping that one may be my salvation.

What else can I say? ..... All help appreciated.

:-) Pete, wa4hei

Remember, its just a hobby. It's s'posed to be fun!

---

25. Re: Voice repeaters don't WANT locations given

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 2 Feb 1996 00:40:50 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ad34a7b365f9@[199.1.11.135]>
Rendered body type: text/plain

> MOST repeater owners do NOT want their exact locations published.

Which would be harder to do have a fox hunt to find the location
to within a square mile or use the freedom of information act
to find the location of a federal licensed radio station. :-)

"IF lists are outlawed only outlaws will have lists"

A grid square doesn't give that much information to a
non-ham and 6 digit grid square around Dallas is a
4.88 miles by 2.88 miles area.

You probubly can get within a block just using the third harmonic
of a 2 meter repeater.

I live in a city where most repeater sites are restricted access, I can
understand if the site is out in the woods or on a remote hill.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

26. Re: [APRSSIG:6379] Re: WinAPRS release Comments and review

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 02 Feb 1996 03:28:12 -0600
To: aprssig@tapr.org
Message-ID: <199602020928.DAA23753@sys1.tapr.org>
Rendered body type: text/plain

At 06:03 PM 96-1-29 -0600, you wrote:

> To: The Brothers Sproul: Will WinAPRS run under Windows NT?
>
> 73 Claude
> K5DTN
> chead@exame2.dseg.ti.com

It was developed on Windows NT and I run it on a Gateway 100 Mhz Colorbook running NT 3.5 and on a Desktop pentium running NT 4.0 (3.51 with explorer). I had the good fortune to have Keith make a high res map of region 6 anamosa and Iowa City quad's. At least I think it was Keith???? Well that's the Name on the NIAN button he was wearing.

First impression's I have are...Mark you should never have pre realeased it! Now well be bugging you to finish up. Either that or we'll end up buying MAC's because of our impatience (their real agenda...must own apple stock) Anyway I digress.

Impression's

1) It hasn't locked up!!
2) No mapmaking cabability yet (unless you get a MAC)
3) Fast regeneration of maps
4) No access to TNC directly (can't check my tnc setting's...Oh me of little faith)
5) No HSP support (when ya got only one com port on the laptop it's tough to run a tnc and a GPS)
6) No window drag zoom in (Just my CAD mentality)
7) Shortcut key's stop at main menubar should also cover Menu items
8) Doesn't take 40 Mb of hard drive to install like typical Windows programs :-)
10) Download it run it enjoy it
11) Move the comment's on winaprs to the aprswin listserv as I shall do hence forth so we don't flood out the rest of the discussion here, that I've come to know and love so well

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

27. To "HID" or not to "HID"?

From: mark@tetherless.com (Mark Oppenheim)
Date: Fri, 2 Feb 1996 02:04:04 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602021004.CAA01220@gorgor.pa.tetherless.com>
Rendered body type: text/plain

On both VHF and HF, I have seen many stations with HID ON. This sends a ID packet (usually consisting of digipeater/node callsigns) every 10 minutes or so, depending on manufacturer of the TNC.

The problem is, many stations set their DIGIPEATER and NODE (or BBS) to a callsign of RELAY or WIDE. While this may not make a big impact for local packets, some of you that have Loooong digipeater paths or are on HF, propagate these packets down, and appear on local nodelists (mostly KA-nodes, and devices that recognise KA-node nodes) and change ad-infinitum.

Users connecting to their local KA-node may not realize that node RELAY is not local, but at the end of at least 4 digipeaters and 320 miles (as is the case with my home station in the Los Angeles area and several stations in Northern California) or 1000 miles away being propagated by a WIDE HF-gateway station.

And of course, it does tie up precious air time...

So, the QUESTION (for discussion) is:

1) Should stations voluntarily turn HID off? (remember it's NOT required by FCC rules*)
2) Should APRS software default this off?
3) Should it be used in some cases? If so, when?

* Since your station will be self-Identifying via Posits in ~10 minute intervals with your callsign anyway.

Mark
KD6KQ

28. Re: [APRSSIG:6478] Olympic Torch Relay

From: "William J. Howard" <wjh@ideas.com>
Date: Fri, 2 Feb 96 08:28:11 EST
To: aprssig@tapr.org
Message-ID: <9602021328.AA02227@ideas.com>
Rendered body type: text/plain

```
David and Valerie, this sounds like a very nice opportunity.  Have you called
our ARRL Section Emergency Coordinator, Mike Carr at (410) 799-0403. Or our
Section Traffic Manager, Bruce Fleming at (301) 863-6582 or
76136.2017@compuserve.com?  Either of them may be able to help.  How about
our 50 Maryland/DC amateur radio clubs?  They are always looking for public
service events.  Needless to say this area is also a hotbed of APRS activity.
73 - Bill WB3V ARRL Section Manager for Maryland/DC

At 07:59 PM 2/1/96 -0600, you wrote:
>My wife (Valerie, N3NGW) works for Coca-Cola and they are sponsoring the
>Olympic Torch Relay.  She has volunteered the information at work that Hams
>may be able to help in the Torch run.
>
>I noticed some talk of the torch run, haven't finished reading it all, and
>if Coca-Cola is interested I would like to have a list of hams willing to
>help out in the Baltimore, MD area for communications.  I think APRS would
>be very useful in this situation and since Coke is looking for help we could
>do it.
>
>I'd like to get some support from this sig.  If you would like some info,
>I'll try to get your questions answered, or if you'd like to offer help,
>feel free to e-mail me.
>
>David, N3NGB
>Valerie, N3NGW
>
>holstein@mail.erols.com
>
>
>
>
-----------------------------------------------------------
Bill Howard  wjh@ideas.com  web - http://www.saic.com/
Science Applications International Corporation, Ideas Group
7120 Columbia Gateway Dr., Columbia, MD 21046
Voice:(410)312-2060    Fax:(410)312-2250
-----------------------------------------------------------
```

29. Torch Run... Whoa!

From: rwf <rwf@mindspring.com>
Date: Fri, 2 Feb 1996 10:28:36 -0500
To: aprssig@tapr.org
Message-ID: <199602021528.KAA25492@borg.mindspring.com>
Rendered body type: text/plain

```
Bob announced that he was making a map of the route.
That is all that was announced.

PLEASE!!!  Do not contact people about this activity. The Atlanta Committee
for The Olympic Games (ACOG) "owns" the Torch Relay.  It is presented (paid
for) by Coca-Cola. They paid 40 million dollars, part of which was to do this.

There are already avenues in place for volunteers.  Volunteers go through
ACOG. There are ways for Hams to help already set up.  If there is any APRS
or other Ham activity concerning this, we'll announce it here first!

Please!!!   No loose cannons.

Ralph Fowler N4NEQ
Coca-Cola Enterprises Telecommunications Department

rwf@cokecce.com   or  rwf@mindspring.com
```

30. Re: aprs mapmaking

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 02 Feb 1996 09:34:44

To: aprssig@tapr.org
Message-ID: <9602021536.AA07009@foo.garply.com>
Rendered body type: text/plain

```
Stan i will work on that. I don't have a standard text file (But should have i guess) and i will post it
 here.
I don't like to do it that way for the simple reason that it takes so much time
to download those many many files from the USGS site. Watch for it soon.

Bill KE4EER
------------------
>Hello Bill,
>
>I just read your message to Tom, WJ9H, Can you please send me the
>text file on how to use the USGS files for making the maps? Also,
>where do you download the files to make the maps?
>
>Thanks much,
>
>Stan, WA1LOU
>--
>Stan Horzepa                      ~   phone:            203-758-1811 x7369
>Technical Writing Supervisor      ~   email:               horzepa@gdc.com
>General DataComm (MODEMS 'R' US)  ~   radio:                        WA1LOU
>P. O. Box 1299                    ~   packet radio mail:      WA1LOU@N4GAA
>Middlebury, CT 06762-1299         ~   TCP/IP packet radio:       44.88.4.8
>
>~~~~~~~~~~~~~~~~~~~~~~~~~~~ What! - Me Worry? ~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>
>
```

31. Re: [APRSSIG:6480] Port swiching. PSE HELP!!!!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Feb 1996 11:12:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960202111131.11521F@greatlakes>
Rendered body type: text/plain

```
On Thu, 1 Feb 1996, Peter Markham wrote (ad nausium):

>    If I depress, in succession, the C, B, and V keys, my KAM switches from
> the hf port to the vhf port and all program functions work as expected.
>    If I then depress, in succession, the C, B, and H keys, my KAM remains in
> the vhf port configuration, but the status bar indicates the change to hf.

WB4APR REPLY COMMENT:
I just heard of that bug about this week. hi hi.  Ill try to fix it in
the next version...
```

32. Re: [APRSSIG:6483] To "HID" or not to "HID"?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Feb 1996 11:18:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960202111552.11521G-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 2 Feb 1996, Mark Oppenheim wrote:

> 1) Should stations voluntarily turn HID off?
> 2) Should APRS software default this off?
> 3) Should it be used in some cases?  If so, when?

WB4APR REPLY COMMENT:

YES!,  YES!,   No probably...  The ID packets do nothing of value for
APRS(PC) other than overwrite the latest STATUS from a station.  Unless
we save ID packets to a new screen (why bother) they are not needed.
(In my opinion, since Sproul Bros may differ...)
```

33. UNSUBSCRIBE

From: David Zalaback <dave@IntNet.net>
Date: Fri, 2 Feb 1996 11:57:05 -0500
To: aprssig@tapr.org
Message-ID: <199602021657.LAA24459@mailhost.IntNet.net>
Rendered body type: text/plain

```
I have been on thiis list for alittle while and would like to unsubscribe
from it. How do I go about doing so?
```

34. USGS Maps

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 02 Feb 1996 11:11:29
To: aprssig@tapr.org
Message-ID: <9602021713.AA10807@foo.garply.com>
Rendered body type: text/plain

Several users have asked how to make maps from the USGS internet files.
follwoing is my way and may not be the only way i'm sure.

I get the files using WS_FTP and access the USGS site at the following
address. edcftp.cr.usgs.gov/pub/data.100k/

The format has changed, you must now pick the city or town you want the
files for. Many times depending on the size of the city you find the files split
up into East and West.

You MUST only get the files that are in the OPT (Optional format). The files
will look something like this. md3.hyf04.opt.gz

There will be many many files and when you download each file you will have
to rename the file before downloading the next file. The reason for this is that
if you attempt to download the next file without renaming the last file you
downloaded it will overwrite that file. (Don't ask me why i don't know).

Example: md3.hyf04.opt.gz i rename to hyf04,gz this indicates a HYdrography
file. Make sure that all these files are placed in their own directory with NO
OTHER files in that directory. When you have all the files downloaded that
you will need for that City or Town download GZIP from the Tapr site, you will
need this to unzip these files. When you have the GZIP do a GZIP -H it will
bring up a help file and explain what switch to use. Once the files are
unzipped they are ready to use.

To make the actual maps you will need the Mapmaking software, here i have
a suggestion, Download the MKMAPKKE.ZIP from tapr. You will find several
other there with simular names. The latest is MK100V20 but it has so may
bugs that it is nearly useless (My opinion only).

Now the nitty griddy of making the actual maps is another story that i have
posted here several times, i would post it again but couldn't find it on my
harddrive Hi.

Hope this helps those who want to take the time to download the USGS files.
I think the price of the USGS CD is well woth the $35.00

Bill KE4EER
ke4eer@airnet.net

---

35. Re: [APRSSIG:6350] pico packet

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 02 Feb 1996 11:40:05 -0600
To: aprssig@tapr.org
Message-ID: <199602021739.LAA10084@sys1.tapr.org>
Rendered body type: text/plain

>Yes, I have the same problem. It will keep parameters for a while, but
>after a short time, you power it up and it's lost everything. It's not
>just when I take it mobile...it happens in the shack, with 3 different
>power sources...makes no difference.

I've had some communication with paccom recently, and they say a fix is in
the works. From their comment's it appears to be a hardware problem instead
of eprom code; I plan on being patient for awhile longer and see what shakes
loss.

```
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

36. Re: [APRSSIG:6336] Iphone

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 02 Feb 1996 11:44:42 -0600
To: aprssig@tapr.org
Message-ID: <199602021744.LAA10159@sys1.tapr.org>
Rendered body type: text/plain

```
At 06:46 AM 96-1-28 -0600, you wrote:
>This maybe slightly off topic but i know there are some APRS users that are
>interested in this. A new version of Iphone is available on Vocaltec (Ver 3.2)
>with greatly improved audio, and other features.

Any reccomendments on a sound card? My SBpro is only 1/2 duplex and I think
a full duplex card work's better
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

37. Re: [APRSSIG:6488] Re: To "HID" or not to "HID"?

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Fri, 2 Feb 1996 15:00:57 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199602022000.PAA21828@newworld.bridge.net>
Rendered body type: text/plain

```
>On Fri, 2 Feb 1996, Mark Oppenheim wrote:
>
>> 1) Should stations voluntarily turn HID off?
>> 2) Should APRS software default this off?
>> 3) Should it be used in some cases?  If so, when?
>
>WB4APR REPLY COMMENT:
>
>YES!,  YES!,   No probably...  The ID packets do nothing of value for
>APRS(PC) other than overwrite the latest STATUS from a station.  Unless
>we save ID packets to a new screen (why bother) they are not needed.
>(In my opinion, since Sproul Bros may differ...)

This is OK, if and only if APRS will send out at least one packet every
10 minutes, otherwise a station may transmit a GATE'ed ot DIGI'ed packet
and then not meet the FCC requirement to ID every 10 minutes. Given the
FCC's attitude towards ham radio lately, they're not likely to ticket
anyone, but I'd rather not take the chance!

Steve KO4HD
```

38. Loading a map into MacAPRS

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 2 Feb 1996 13:34:47 -0800
To: aprssig@tapr.org
Message-ID: <v01510101ad382de6ffc0@[128.149.100.84]>
Rendered body type: text/plain

```
I downloaded MacAPRS.ppc 2.2.0 to play with on my PPC at work, and I am
having the same problem I remember having before. How do I get a map
loaded? I also downloaded the files:

CA_NV.map
Texas.map
New Jersey.map

which are in the same folder (APRS) as MacAPRS.

-Greg

--
Gregory R. LaBorde - KD6MSM         | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory           | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET   | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
```

```
M/S 264-805 4800 Oak Grove Drive    | Phone   : (818) 393-1107
Pasadena, CA  91109                 |
```

---

39. Re: [APRSSIG:6469] Re: Win32S

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Fri, 2 Feb 1996 16:16:44 -0600
To: aprssig@tapr.org
Message-ID: <9602022216.AA07494@omnifest.uwm.edu>
Rendered body type: text/plain

```
I have 3 PCs and 4 Macs.   MUCH prefer the Macs!
        Can't understand all this hype about WinDOZE - Macs had all that
stuff - and better - 10 years ago.

Dave Barrow, N9UNR

CUL & 73 de Dave
=============================================================================
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin  53095-9603
Ma Bell:(414) 375-2667    *    Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=============================================================================
```

---

40. THANKS

From: Scott Miller <scottm@sierra.net>
Date: Fri, 02 Feb 1996 14:11:32 -0800
To: aprssig@tapr.org
Message-ID: <31128C14.699E@sierra.net>
Rendered body type: text/plain

```
Thanks for all the wide/relay help
Scott KE6RKE
```

---

41. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82]) by sys1.tapr.org
(8.7.3/8.7.2) with SMTP id SAA25957 for <aprssig@tapr.org>; Fri, 2 Feb 1996 18:05:17 -0600 (CST)
Received: (from ksproul@localhost) by old-hercules.rutgers.edu
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id TAA16124; Fri, 2 Feb 1996 19:05:01 -0500
Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>
Date: Fri, 2 Feb 96 19:05:01 EST
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>
To: laborde@kilroy.jpl.nasa.gov
Cc: aprssig@tapr.org
Subject: Re: [APRSSIG:6494] Loading a map into MacAPRS
In-Reply-To: Your message of Fri, 2 Feb 1996 15:44:49 -0600 (CST)
Message-ID: <CMM-RU.1.4.823305901.ksproul@old-hercules.rutgers.edu>

> I downloaded MacAPRS.ppc 2.2.0 to play with on my PPC at work, and I am
> having the same problem I remember having before. How do I get a map
> loaded? I also downloaded the files:
>
> CA_NV.map
> Texas.map
> New Jersey.map
>
> which are in the same folder (APRS) as MacAPRS.
>

You need to put the PROGRAM and the folder MAPS into the same folder, Put
your MAP files into the MAPS directory, and everything should work just fine.



MacAPRS (Folder)
        MacAPRS (Program)
        MAPS (folder)
                <map file 1>
                <map file 2>
                ...
                <map file n>
```

```
Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

42. Re: [APRSSIG:6495] Re: Win32S

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 02 Feb 1996 18:15:06
To: aprssig@tapr.org
Message-ID: <9602030018.AA28166@foo.garply.com>
Rendered body type: text/plain

```
O yes sure dave that's why the sales have been dropping like crazy. I have
4 PC's and i MUCH prefer the PC's Hi.

Bill KE4EER
-----------------
>        I have 3 PCs and 4 Macs.   MUCH prefer the Macs!
>        Can't understand all this hype about WinDOZE - Macs had all that
>stuff - and better - 10 years ago.
>
>Dave Barrow, N9UNR
>
>CUL & 73 de Dave
>============================================================================
>David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
>U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin  53095-9603
>Ma Bell:(414) 375-2667    *    Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
>Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
>============================================================================
>
>
```

---

43. KG8KE's address?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Feb 1996 20:28:58 -0500 (EST)
To: aprssig@tapr.org
Cc: lu1bsn@ea4rct.clubs.etsit.upm.es
Message-ID: <Pine.SUN.3.91.960202202600.21469D-100000@greatlakes>
Rendered body type: text/plain

```
Anyone know KG8GE's address?  They need it in South America!

---------- Forwarded message ----------
From: lu1bsn@ea4rct.clubs.etsit.upm.es

        DO YOU KNOW THE E-MAIL OF JIM K. THE AUTHOR OF PT2MAP SOFT TO CONVERT
AUTOCAD MAPS INTO APRS FORMAT MAPS??
```

---

44. Re: [APRSSIG:6498] Re: Win32S

From: schiers@ibm.net (Robert Schiers)
Date: Sat, 03 Feb 96 02:19:18
To: aprssig@tapr.org
Message-ID: <199602030250.CAA32053@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <9602030018.AA28166@foo.garply.com>, on 02/02/96 at 06:22 PM,
   ke4eer@airnet.net (William Nolle) said:

>O yes sure dave that's why the sales have been dropping like crazy. I
>have 4 PC's and i MUCH prefer the PC's Hi.

>Bill KE4EER
>-----------------
>>        I have 3 PCs and 4 Macs.   MUCH prefer the Macs!
>>        Can't understand all this hype about WinDOZE - Macs had all that
>>stuff - and better - 10 years ago.
>>
>>Dave Barrow, N9UNR
>>
>>CUL & 73 de Dave

Let me try to explain it: Installed User Base. Macs are wonderful
machines. They have been sold at unconscionably high prices and their
virtues for years were hidden behind Apple's "proprietary" approach and
gouging price structure. They then tried to make up for it by severely
cutting prices on the low end. This got them into economic trouble and is
```

likely to result in the firing this week of their CEO. The only company I know of that is more inept in marketing to the home environment is IBM. That being said, would you care to compare the number of Macs vs PC's in the ham community? I would expect the ratio to be about 1:100 or worse. Where is the market with growth potential?

Now...all the hype about the WinAPRS is because the dos version is:

1. slow
2. ugly (when compared to either a Mac or Windows)
3. written in Qbasic with all its limitations (versus C for Mac & Windows) 4. serial I/O overburdened.

This is not to say dos APRS is a bad program...rather it is written for a 1970's operating system in a hamstrung language. Given that, Bob has done and continues to do an extraordinary job. We all owe him a debt of gratitude.

So the hype is because those of us with higher end PC's that we bought in prodigious numbers at incredibly low prices now have an alternative that addresses points 1-4 above...and from the very same authors that produced the Mac version that you are so fond of. Yes, we are fired up...and for very good reason. We didn't mortgage our homes to by a Mac, and are now in the process of catching up to the wonderful work done by the Bros. Sproul.

I never thought I would find myself advocating for Windows...it goes against my grain, being a long time OS/2 user. (I have two machines here both running Warp Connect)...but your observation about "hype", implying that there is no substance to the interest in WinAPRS was way off the mark, and I could not resist attempting to explain at least some of the enthusiasm about WinAPRS. Now if there were a native OS/2 version, I would issue a message similar to yours..."what's all this hype about the Mac, OS/2 is where it really is at" and would be subject to the same analysis that I made of the MAC: installed user base.

Fortunately with versions for DOS, Win3.x/WIN32s/WIN95 & the MAC, the ham community has exactly what it needs. Serviceable and feature rich low end dos machine software and aesthetically pleasing, fast, feature rich Windows and Mac versions. We should all be very happy at the continued strength and development of these products. The authors are doing us a great service and hopefully making a few bucks as they go.

I hope this doesn't degenerate into one of these "my machine is better than your machine" or "my software is better than your software" threads. God they are tedious. Each machine and its associated software has a place at the table. I wish them all well.

Robert "hasan" Schiers--
----
schiers@ibm.net

---

45. Re: [APRSSIG:6499] KG8KE's address?

From: Truman Boerkoel <truxenia@erinet.com>
Date: Fri, 02 Feb 1996 22:11:33 -0500
To: aprssig@tapr.org
Message-ID: <199602030313.WAA17592@eri.erinet.com>
Rendered body type: text/plain

At 19:36 2/2/96 -0600, you wrote:
>
>Anyone know KG8GE's address? They need it in South America!
>
>---------- Forwarded message ----------
>From: lu1bsn@ea4rct.clubs.etsit.upm.es
>
>   DO YOU KNOW THE E-MAIL OF JIM K. THE AUTHOR OF PT2MAP SOFT TO CONVERT
>AUTOCAD MAPS INTO APRS FORMAT MAPS??
>
>
>
His e-mail address as follows
jimk@on-ramp.net
Jim KG8GE PLT2 Map Software

Vry 73 de Tru K8JUG

46. Re: [APRSSIG:6487] Re: Port swiching. PSE HELP!!!!

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 02 Feb 1996 22:44:33 -0500
To: aprssig@tapr.org
Message-ID: <199602030343.WAA11773@sun.lssu.edu>
Rendered body type: text/plain

>On Thu, 1 Feb 1996, Peter Markham wrote (ad nausium):
>
>>   If I depress, in succession, the C, B, and V keys, my KAM switches from
>> the hf port to the vhf port and all program functions work as expected.
>>   If I then depress, in succession, the C, B, and H keys, my KAM remains in
>> the vhf port configuration, but the status bar indicates the change to hf.
>
>WB4APR REPLY COMMENT:
>I just heard of that bug about this week. hi hi. Ill try to fix it in
>the next version...
>
    Thanks, Bob. As if you do not have enough on your plate.
I will sleep well, tonight.
    Thanks, Jim, for the continued levity. I was afraid that everyone was nuts,
but me.

Pete, wa4hei

---

47. Foreign Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Feb 1996 22:46:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960202223406.21676A-100000@greatlakes>
Rendered body type: text/plain

Sproul Bros have made it possible to build some WORLD-WIDE maps at the
1,000,000 scale. (Typical hiway map). It still takes some time to
make an APRSpc map from their data, but I can now do it with their help.

If you are OUTSIDE of the USA, and on this SIG, please send me PRIVATELY the
center coordinates of your area of interest, number of APRS users, and
RADIUS of activity. Depending on time, resources, and interest, I
will try to do something for you.

Send to bruninga@nadn.navy.mil

---

48. Re: [APRSSIG:6490] USGS Maps WS_FTP tip

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 2 Feb 1996 22:48:25 +0000
To: aprssig@tapr.org
Message-ID: <199602030350.WAA06870@hemisphere.neocomm.net>
Rendered body type: text/plain

Bill wrote>

snip
> I get the files using WS_FTP and access the USGS site at the following
> address. edcftp.cr.usgs.gov/pub/data.100k/
>

> There will be many many files and when you download each file you will have
> to rename the file before downloading the next file. The reason for this is that
> if you attempt to download the next file without renaming the last file you
> downloaded it will overwrite that file. (Don't ask me why i don't know).

With WS_FTP it is not necesary to rename each file. Under the options
button at the bottom, select session options and check the box marked
recieve unique (PC assighns names). From now on you can select all
the files you want (<ctrl> click with mouse) and your computor will
give each a unique name.

Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

49. Re: TNC wont respond

From: randy.true@ccc-bbs.com (RANDY TRUE)
Date: Fri, 02 Feb 96 18:18:00 -0500
To: APRSSIG@tapr.org
Message-ID: <8BA044A.000C0130B0.uuout@ccc-bbs.com>
Rendered body type: text/plain

```
I've been running APRS for almost a year now with no problems, until
now. Aprs starts up OK and draws the maps, but it wont initialize the TNC.
It tries a couple of times, then locks up. My other packet program, PET
Lite runs fine.

I always start APRS from the Windows program manager. The problem didn't
start until after I nstalled some additional memory in the system.
I tried running Windows in both standard and enhanced modes, and straight
from DOS. Still get the same thing.

I deleted the APRS.cfg file and started over the setup again. I also
deleted and replaced the APRXxxx.exe file. It seems to be between the TNC
and the APRS program itself since the other program works fine.

The TNC is a KPC9612.

Any thoughts?

Thanks

Randy True
 randy.true@ccc-bbs.com
---
 * WaveRdr 1.10 [NR] * UNREGISTERED EVALUATION COPY
```

50. Re: [APRSSIG:6492] Re: Iphone

From: n2czf@gate.net
Date: Sat, 3 Feb 1996 00:18:36 -0500
To: aprssig@tapr.org
Message-ID: <199602030518.AAA31722@osceola.gate.net>
Rendered body type: text/plain

```
There are drivers out there to make your SBpro into a full duplex unit IF AND
ONLY IF you are under Win3.1 or 3.11. I am under Win95 and those drivers are not
out yet.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

51. Re: [APRSSIG:6504] Re: USGS Maps WS_FTP tip

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 02 Feb 1996 23:33:53
To: aprssig@tapr.org
Message-ID: <9602030536.AA05897@foo.garply.com>
Rendered body type: text/plain

```
This maybe true and thanks for the info, BUT i don't want a unique name for
the simple reason that the map software looks for certain characters like
HY,RD,MT etc. So if it just picks a name other then as listed would be
useless and of course wouldn't work. My question Charles have you used this
format as you suggest and then made maps with the files?.
Again thanks Charles.

Bill KE4EER
-----------------

>With WS_FTP it is not necesary to rename each file. Under the options
>button at the bottom, select session options and check the box marked
>recieve unique (PC assighns names). From now on you can select all
>the files you want (<ctrl> click with mouse) and your computor will
>give each a unique name.
>
>Charles
>
>cdavidso@neocomm.net
>http://www.neocomm.net/~cdavidso/
>Charles W. Davidson
>Route 1, Box 139-H
>Axton, VA 24540-9626
>WB4PAN@WB4QOJ.VA.USA.NOAM
>
```

```
>
```

---

52. West Palm 80M Gate Down

From: n2czf@gate.net
Date: Sat, 3 Feb 1996 00:37:02 -0500
To: aprssig@tapr.org
Cc: kheyboer@pinegov.co.pinellas.fl.us
Message-ID: <199602030537.AAA39344@osceola.gate.net>
Rendered body type: text/plain

```
I will be moving my 80M GATE back to 30M today till' Tues 2/6 sorry for any
problems. KC4HDK will be going to NC and I hope to be able to GATE him thru
Atlanta back into our area.

Maybe if I find time (yea right!) I will be able to complete my KAM+ VHF cable
so both GATE's will finally be in simultanious operation. I will try this
weekend but I doubt it. Lot's of honeydo HOMEwork!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

53. Re: [APRSSIG:6500] Re: Win32S

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Date: Fri, 02 Feb 1996 23:54:49 -0600
To: aprssig@tapr.org
Message-ID: <9602022354.AA49657@oscar.telalink.net>
Rendered body type: text/plain

```
> I hope this doesn't degenerate into one of these "my machine is
> better than your machine" or "my software is better than your
> software" threads. God they are tedious. Each machine and its
> associated software has a place at the table. I wish them all well.
>
> Robert "hasan" Schiers--
> schiers@ibm.net



Amen
```

---

54. VHF nets around GATEs

From: mlehmann@nerc1.nerc.com (Mark W Lehmann)
Date: Sat, 3 Feb 1996 02:35:26 -0500
To: aprssig@tapr.org
Message-ID: <v01530503ad38be4b5645@[205.247.120.223]>
Rendered body type: text/plain

```
My station is a 30M HF/VHF gate way located in NNJ. The VHF net around me
has more than 50 stations in the NJ/CT/NY area, and I often see up to 100
stations from MA to VA, all on VHF. The statistics log in MacAPRS shows
that my station has seen over 500 different callsigns (it ignores SSIDs)
since 12/29/95. This includes both HF and VHF.

I would be interested in compiling information from other HF Gates around
the country as to how many VHF stations surround them. Since gating from
VHF to HF is discouraged (and rightly so, (see: blivet)) it is difficult
for one area served by a Gate to get a feel for the size of net surrounding
other Gates.

If Gate operators around the country will send estimates of the size of the
VHF net around them to my e-mail address (not to the sig, please) I will
compile the info and post the result on the sig.

Thanks,

Mark WO2J

Mark W. Lehmann         | mlehmann@nerc1.nerc.com
534 Spring Hill Road    | Fax:6094668518
Skillman NJ 08558       | WO2J--APRS 145.79--30M GATE
```

---

55. Re: [APRSSIG:6510] VHF nets around GATEs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 3 Feb 1996 10:47:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960203103206.22367C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 3 Feb 1996, Mark W Lehmann wrote:

> I see more than 50 stations in the NJ/CT/NY area, and I often see up to 100
> stations from MA to VA, all on VHF. I would be interested in compiling
> a list from other GATEs as to how many VHF stations surround them.

WB4APR REPLY COMMENT: Interesting question, but there are 2 answers.

1) How many VHF stns does the GATE see? (large nebuluous overlaping #)
2) How many VHF stns are within ONE WIDE? (# of stns that see the gate!)

The answer to #1 will tell you how many people could GATE from VHF to HF (an undesired mode of operation). The answer to #2 will tell you how many VHF stations can SEE the HF activity. (A more meaningful answer, since that is the function that GATEs were designed to do)

Further, the answer to #1 is so overlaping as to be meaningless. My report for that number is over 100 but includes probably 50% of WO2J's. My answer to #2 is probably 10, and that number does not overlap any other gate. (Our gate is a 1w HT on rubber duck that only hits 1 WIDE)

So in my opinion, the best way to answer #2 is to do a MAPS-PLOTS-POWER and count only the statinos that intersect with the WIDE('s) adjacent to the GATE. But also answer #1 for our curiosity too!

---

56. Re: Iphone

From: Larry Griffin <largriff@onramp.net>
Date: Sat, 3 Feb 1996 09:47:14 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAF21D.47AE7960@lub13.onramp.net>
Rendered body type: text/plain

Someone wrote:
>There are drivers out there to make your SBpro into a full duplex unit IF AND
>ONLY IF you are under Win3.1 or 3.11. I am under Win95 and those drivers >are not
>out yet.

Reply:
Creative Labs released NEW Win95 drivers about a month ago. I've talked to several people who are using the new drivers with Win95 now. I can't use them because I don't have full-duplex hardware.

See http://www.creaf.com/www/new.html

Larry Griffin AB5GE <largriff@onramp.net>

---

57. Re: [APRSSIG:6506] Re: Iphone

From: Truman Boerkoel <truxenia@erinet.com>
Date: Sat, 03 Feb 1996 13:01:19 -0500
To: aprssig@tapr.org
Message-ID: <199602031803.NAA25106@eri.erinet.com>
Rendered body type: text/plain

At 23:26 2/2/96 -0600, you wrote:
>There are drivers out there to make your SBpro into a full duplex unit IF AND
>ONLY IF you are under Win3.1 or 3.11. I am under Win95 and those drivers
are not
>out yet.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
>
Hi Rich,
    Creative Labs has posted the full duplex drivers as of the 19th of Jan
at this address http://www.creaf.com/www/new.html

Vry 73 de Tru K8JUG

---

58. Re: USGS Maps WS_FTP tip

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sat, 3 Feb 1996 13:00:16 +0000
To: aprssig@tapr.org
Message-ID: <199602031802.NAA19545@hemisphere.neocomm.net>
Rendered body type: text/plain

>
> >With WS_FTP it is not necesary to rename each file. Under the options
> >button at the bottom, select session options and check the box marked
> >recieve unique (PC assighns names). From now on you can select all
> >the files you want (<ctrl> click with mouse) and your computor will
> >give each a unique name.
> >
> >Charles
>

> This maybe true and thanks for the info, BUT i don't want a unique name for
> the simple reason that the map software looks for certain characters like
> HY,RD,MT etc. So if it just picks a name other then as listed would be
> useless and of course wouldn't work. My question Charles have you used this
> format as you suggest and then made maps with the files?.
> Again thanks Charles.
>
> Bill KE4EER

Yes Bill ;

It works fine for me. My data base has filenames that reflect the
quad-map name, example. GA1 thru GA1006 (8 files with unique
names), cover the Danville, VA area. Similar CV4 files cover the
Charlotsville VA. area. However I only use the RD data I do not
download hydro. etc data only RD opt data. With the limits of slow
laptop PC`s and Dos APRS The smaller the map points, the better,
most of my maps are 1500 points or less.
After I dnload a set of files I highlight them
and rename them all to *.gz. (I use Windows 3.11) . Perhaps you could
use rename to add the prefix you desire. Rename to RD*.gz. I run
Gzip -d from Windows also, as well as the Qbasic programs.

" MAC attack" "No I don`t care for fast food either"

He He I couldnt resist a MAC cut, I see so many PC cuts from the few
Mac users out there.

The main thing is Commador 64 users have fun too!!

I have still only met one APRS user on Iphone. join private aprs

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

59. MK100V20.exe multi map maker

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sat, 3 Feb 1996 13:00:16 +0000
To: aprssig@tapr.org
Message-ID: <199602031802.NAA19547@hemisphere.neocomm.net>
Rendered body type: text/plain

The multi map maker seems to work very good for me at the 1
+ 2 mile levels I have made maps of several citys. However the maps do
not overlap enough. I have adjusted the maplist range and still
cannot get seamless maps. The alternative is to make a second set of
maps to fill in the gaps. I believe it would be much better if the
author could adjust the program so that the nine maps generated are
closer together. Also I would like to see the capability of making
many more maps in one swoop. I suggest using the mapcenters to name
the multiple maps or just nameing them in series is fine. The maps
are renamed easily enough after the are finished. Thanks to the
author whose name slips me at the moment.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

60. Winaprs

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sat, 3 Feb 1996 13:16:00 +0000
To: aprssig@tapr.org
Message-ID: <199602031818.NAA19797@hemisphere.neocomm.net>
Rendered body type: text/plain

I just took a look at winaprs, looks nice but does it do
anything. I cant seem to I input any objects or any other commands I
use with aprs. What are some othe functioning commands in this beta
version. I loaded some 140 of my maps and can display them but can
only see a few of them in the maps pull down menu? I already had
32bit support and understand abt no com port support as yet for 3.11.

You may reply direct if you wish, I realize there is another mail list
for winaprs but, perhaps those of us that have enough mail to sort
through already can be kept upto date on the Winaprs progress, with
a note here now and then. Thank You...Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

---

61. Re: [APRSSIG:6499] KG8KE's address?

From: Scott Miller <scottm@sierra.net>
Date: Sat, 03 Feb 1996 10:07:24 -0800
To: aprssig@tapr.org
Message-ID: <3113A45C.6137@sierra.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> Anyone know KG8GE's address? They need it in South America!
>
> ---------- Forwarded message ----------
> From: lu1bsn@ea4rct.clubs.etsit.upm.es
>
>   DO YOU KNOW THE E-MAIL OF JIM K. THE AUTHOR OF PT2MAP SOFT TO CONVERT
> AUTOCAD MAPS INTO APRS FORMAT MAPS??call changed to AA8NX Leighton B Renolds 6799 Bartlett Rd.
                                          Reynoldsburg, Oh.
                                          43068-2901

---

62. WinAPRS List

From: kc8ux@w8dc.ampr.org
Date: Sat, 03 Feb 96 16:44:44 UTC
To: aprssig@tapr.org
Message-ID: <89324@w8dc.ampr.org>
Rendered body type: text/plain

I must have missed the original posting.... Can someone post the
details on how to subscribe to the WinAPRS mailing list.

Thanks - Ron
KC8UX - Grand Rapids MI
kc8ux@w8dc.ampr.org

---

63. Re: [APRSSIG:6505] Re: TNC wont respond

From: "Eugene F. Kremzier" <gene@buffnet.net>
Date: Sat, 3 Feb 1996 16:55:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SCO.3.91.960203165422.25322A-100000@buffnet3.buffnet.net>
Rendered body type: text/plain

I you also upgraded the serial card to a fast uart 16550 that may be your
problem. APRS does not appear to work with the fast serial chip.

On Fri, 2 Feb 1996, RANDY TRUE wrote:

> I've been running APRS for almost a year now with no problems, until
> now. Aprs starts up OK and draws the maps, but it wont initialize the TNC.
> It tries a couple of times, then locks up. My other packet program, PET
> Lite runs fine.
>
> I always start APRS from the Windows program manager. The problem didn't
> start until after I nstalled some additional memory in the system.

```
> I tried running Windows in both standard and enhanced modes, and straight
> from DOS. Still get the same thing.
>
> I deleted the APRS.cfg file and started over the setup again. I also
> deleted and replaced the APRXxxx.exe file. It seems to be between the TNC
> and the APRS program itself since the other program works fine.
>
> The TNC is a KPC9612.
>
> Any thoughts?
>
> Thanks
>
> Randy True
>  randy.true@ccc-bbs.com
> ---
>  * WaveRdr 1.10 [NR] * UNREGISTERED EVALUATION COPY
>
>
```

64. WinAPRS beta, Ya I know...

From: William Neal <wmn3@dfw.net>
Date: Sat, 03 Feb 1996 16:47:04 -0600
To: aprssig@tapr.org
Message-ID: <2.2.16.19960203224704.26e72fb6@dfw.net>
Rendered body type: text/plain

```
Hello,
for some reason I receive the msg "Invalid Registration Number" when I boot
up WinAPRS.  I haven't changed or done anything to the files I received
directly from TAPR via the I'net.

Idea's?

Cheers, Bill - N0NSA
-------------------
William M. Neal III
P.O. Box 1433
Hurst, TX  76053-1433
W/Home (817) 788-8550
Pager  (817) 452-9787
-----------------------------------------------------------
Wm Neal3 Enterprize - A company for maintaining
                      Comm/Electronics equipment for the
                      Dallas/Fort Worth metroplex
-----------------------------------------------------------
```

65. Re: [APRSSIG:6513] Re: Iphone

From: n2czf@gate.net
Date: Sat, 3 Feb 1996 18:48:11 -0500
To: aprssig@tapr.org
Message-ID: <199602032348.SAA09672@osceola.gate.net>
Rendered body type: text/plain

```
Ok Vry THANKS! I will take a look later tonight.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

66. WX Stations

From: RWFrye@aol.com
Date: Sat, 3 Feb 1996 19:19:02 -0500
To: aprssig@tapr.org
Message-ID: <960203191901_135129421@mail02.mail.aol.com>
Rendered body type: text/plain

```
I have the computer, the radio, the TNC, the software but I need a good
indoor/outdoor weather station. All I have seen is the Peet Bros. brand and I
have asked for a catalog from them.
Anyone else have any suggestions. My budget isn't too great but I would like
something that would at least keep highs/lows for 24 hour period and maybe
also barometric pressure.
```

67. Re: [APRSSIG:6518] WinAPRS List

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Date: Sat, 3 Feb 96 19:27:28 EST
To: aprssig@tapr.org

Cc: kc8ux@w8dc.ampr.org
Message-ID: <CMM-RU.1.4.823393648.ksproul@old-hercules.rutgers.edu>
Rendered body type: text/plain

```
To subscribe to the WinBeta list,

send mail to    listproc@tapr.org

in the BODY of the message put


subscribe winaprs <your name>


Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

68. Re: [APRSSIG:6519] Re: TNC wont respond

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Sat, 03 Feb 1996 19:59:33 -0500
To: aprssig@tapr.org
Message-ID: <199602040058.TAA13773@sun.lssu.edu>
Rendered body type: text/plain

```
>I you also upgraded the serial card to a fast uart 16550 that may be your
>problem. APRS does not appear to work with the fast serial chip.
>
>On Fri, 2 Feb 1996, RANDY TRUE wrote:
>
>> I've been running APRS for almost a year now with no problems, until
>> now. Aprs starts up OK and draws the maps, but it wont initialize the TNC.
>> It tries a couple of times, then locks up. My other packet program, PET
>> Lite runs fine.
>>
>> I always start APRS from the Windows program manager. The problem didn't
>> start until after I nstalled some additional memory in the system.
>> I tried running Windows in both standard and enhanced modes, and straight
>> from DOS. Still get the same thing.
>>
>> I deleted the APRS.cfg file and started over the setup again. I also
>> deleted and replaced the APRXxxx.exe file. It seems to be between the TNC
>> and the APRS program itself since the other program works fine.
>>
>> The TNC is a KPC9612.
>>
>> Any thoughts?
>>
>> Thanks
>>
>> Randy True
>>  randy.true@ccc-bbs.com
>> ---
>>  * WaveRdr 1.10 [NR] * UNREGISTERED EVALUATION COPY
>>
>>
>
   I have been running numerous tnc programs with a high speed 4 port serial
card for over 3 1/2 years. Sometimes the tnc(s) is in KISS mode, sometimes
native, depending on the programs running. APRS has been running for more
than 2 years, at various times on ports 1, 2, and 3. under plain DOS,
DesQviw or Windows 3.1. At no time have I traced the problem back to the
high speed port hardware. I have on numerous accaisions found that I could
not pass data through those ports because the computer would not find them
(faulty AMI bios) or when exiting a  program that was using the port it
somehow got lost due to some imperfection in the software or my ungraceful
method of exiting the program.

   I found that rebooting the computer to initialize my lost comm port(s)
again was a pain, so I sought and found a program that would do it as I chose,
without me having to dump everything else running. I have been using
RESETCOM.EXE to reset different comm ports while all is up and running. It
is available from Computer Telecommunication Systems Inc., Duluth Ga. The
AMI bios
problem was solved using the FIX16550.SYS device driver, discussed on this SIG
recently.
```

```
   Those 16550s are sweethearts. Cut 'em some slack.

   I hope this information is well received. It cost a good piece of my life.

                                       Pete, wa4hei
```

---

69. (no subject)

From: Ozzie N4SCY <ozzie@digital.net>
Date: Sat, 3 Feb 1996 20:57:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960203205625.18555A-100000@digital.net>
Rendered body type: text/plain

```
subscribe
```

---

70. APRS at National Hurricane Warning Center

From: rwf <rwf@mindspring.com>
Date: Sat, 3 Feb 1996 22:19:38 -0500
To: aprssig@tapr.org
Message-ID: <199602040319.WAA07875@borg.mindspring.com>
Rendered body type: text/plain

```
I am still on my extended APRS mobile Florida trip. I attended the Miami
Tropical Hamboree today. (70 degree temps, BTW).

They offered tours of the new National Hurricane Warning Center (the old one
blew away during Hurricane Andrew).  I took the tour and can report that
APRS is proudly displayed there.  It was in use in the Ham Station, W4EHW
(Early Hurricane Warning) as well as on a portable cart in the Media Room
(where the press sleep on the floor waiting for hurricanes to move around).

It was up and running for all to see.  Tour guide explained ARPS (sic.) to
us and explained all about how they wished that all the Ham boaters would
put Ultimeters on their boats and run the program.

They also explained how valuable the WX reports were that came in from our
WX stations.

I spoke with the personnel at length and they are very nice.

If you are ever in Miami, it is worth a visit.  They're on the same tract of
land as Florida International University and the Hamfest site.


Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical Advisor

rwf@mindspring.com  rwf@cokecce.com                   Atlanta, GA USA
Web:    http://www.mindspring.com/~rwf  for APRS, ATV, Balloon, and Ham info
FTP:     ftp.mindspring.com/users/rwf        for APRS, ATV, GPS, APRS files

 My hobby is tracking moving things with APRS, GPS and Packet. Ask me how.
```

---

71. Re: [APRSSIG:6522] WX Stations

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 03 Feb 1996 21:11:04 -0700
To: aprssig@tapr.org
Message-ID: <199602040411.VAA17291@usr5.primenet.com>
Rendered body type: text/plain

```
Look at the Davis Instruments Monitor System, or the U-2000

73, Alan



At 06:32 PM 2/3/96 -0600, you wrote:
>I have the computer, the radio, the TNC, the software but I need a good
>indoor/outdoor weather station. All I have seen is the Peet Bros. brand and I
>have asked for a catalog from them.
>Anyone else have any suggestions. My budget isn't too great but I would like
>something that would at least keep highs/lows for 24 hour period and maybe
>also barometric pressure.
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

72. Re: [APRSSIG:6522] WX Stations

From: rwf <rwf@mindspring.com>
Date: Sun, 4 Feb 1996 07:39:18 -0500
To: aprssig@tapr.org
Message-ID: <199602041239.HAA25211@borg.mindspring.com>
Rendered body type: text/plain

```
That is your only choice for the DOS version of APRS.  I think the Mac
version supports Heath also.

The Peet that supports baro. is not supported properly by any APRS program
or clone currently (unless someone fixed something in the last few days)


Ralph

RWF@mindspring.com


At 06:32 PM 2/3/96 -0600, you wrote:
>I have the computer, the radio, the TNC, the software but I need a good
>indoor/outdoor weather station. All I have seen is the Peet Bros. brand and I
>have asked for a catalog from them.
>Anyone else have any suggestions. My budget isn't too great but I would like
>something that would at least keep highs/lows for 24 hour period and maybe
>also barometric pressure.
>
>
```

---

73. Re: [APRSSIG:6527] Re: WX Stations

From: schiers@ibm.net (Robert Schiers)
Date: Sun, 04 Feb 96 13:29:29
To: "Alan K. Unangst" <alanwc7r@primenet.com>
Cc: aprssig@tapr.org
Message-ID: <199602041339.NAA98030@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <199602040411.VAA17291@usr5.primenet.com>, on 02/03/96 at 10:22 PM,
   "Alan K. Unangst" <alanwc7r@primenet.com> said:

>Look at the Davis Instruments Monitor System, or the U-2000

>73, Alan



>At 06:32 PM 2/3/96 -0600, you wrote:
>>I have the computer, the radio, the TNC, the software but I need a good
>>indoor/outdoor weather station. All I have seen is the Peet Bros. brand a
>>have asked for a catalog from them.
>>Anyone else have any suggestions. My budget isn't too great but I would l
>>something that would at least keep highs/lows for 24 hour period and mayb
>>also barometric pressure.
>>
>>
>Alan K. Unangst, WC7R
>E-mail: alanwc7r@primenet.com
>Packet: WC7R @ KB7FRV

Peet Bros is the only way to go. The U-2000 has barometeric pressure,
there is excellent software for it and it will drive two different serial
ports if you have them available (one for aprs and another on a different
computer to log the wx data). I have both the U-II (older model) and the
U-2000. Both are good, but only the 2000 has barometric pressure. The
2000 keeps track of highs/lows in all categories for the last 24 hours,
72 hours and since last reset, so it retains a wealth of info. It ain't
cheap, but it is a unit that is well supported by both the company and
the aprs authors.

With that in mind: Dos APRS does not support the U-2000 yet. Bob is
working on it, but he has problems. WinAPRS has the U-2000 code in, but
it is not fully debugged as of today, but should be within the next week.
73,


Robert "hasan" Schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

74. APRS and ULTIMETER-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 4 Feb 1996 10:12:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960204101007.24691F-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 4 Feb 1996, rwf wrote:

> The Peet that supports baro. is not supported properly by any APRS program
> or clone currently (unless someone fixed something in the last few days)

WB4APR REPLY COMMENT:

APRSpc *does* and *will* support the U-2000.  THe bug is hardware
dependent. There are lots of pwople who report that it runs just fine.
There are lots (with newer PC's that report that it does not).  We will
fix it.  Sorry for the delay, hi hi...
```

---

75. unsubscribe

From: WB8SKP@aol.com
Date: Sun, 4 Feb 1996 10:28:42 -0500
To: aprssig@tapr.org
Message-ID: <960204102841_213778125@emout07.mail.aol.com>
Rendered body type: text/plain

```
[Empty message body]
```

---

76. Re: [APRSSIG:6464] TAPR Upload Errors

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 4 Feb 1996 10:42:24 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602041642.KAA10487@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Maybe there are too many users, maybe you didn't use a valid
username@host.name for your password and TCp-Wrapper rejected it.  Don't know.

73, gerry
gerry@cs.tamu.edu
```

---

77. Re: [APRSSIG:6528] Re: WX Stations

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 4 Feb 1996 11:50:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960204114854.11800B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 4 Feb 1996, rwf wrote:
>
> The Peet that supports baro. is not supported properly by any APRS program
> or clone currently (unless someone fixed something in the last few days)
>

Are you sure? We have someone here in the Boston area that was running
MacAPRS with the new U-2000 without any problems that I am aware of.

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

78. Re: [APRSSIG:6533] Re: WX Stations

From: schiers@ibm.net (Robert Schiers)
Date: Sun, 04 Feb 96 19:02:51
To: aprssig@tapr.org
Message-ID: <199602041904.TAA88467@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <Pine.BSF.3.91.960204114854.11800B-100000@laraby.tiac.net>, on 02/04/96
at 10:58 AM,
   Richard Amirault <amirault@laraby.tiac.net> said:

>On Sun, 4 Feb 1996, rwf wrote:
>>
>> The Peet that supports baro. is not supported properly by any APRS progr
>> or clone currently (unless someone fixed something in the last few days)
>>

>Are you sure? We have someone here in the Boston area that was running
```

>MacAPRS with the new U-2000 without any problems that I am aware of.

>Richard Amirault   N1JDU   Boston, Massachusetts USA
>amirault@tiac.net   "Go Fly A Kite"

The 022 beta was released today and the bug is supposed to have been
fixed. I am downloading it now. I think the Mac version may have been
working fine, but dos aprs and winaprs did not work as of yesterday, but
as I said, the WinAprs version may be fixed now...will let the sig know
in a few mins.

Robert "hasan" Schiers, N0AN
----
schiers@ibm.net

---

79. Re: [APRSSIG:6530] APRS and ULTIMETER-2000

From: schiers@ibm.net (Robert Schiers)
Date: Sun, 04 Feb 96 19:06:03
To: aprssig@tapr.org
Message-ID: <199602041906.TAA88350@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <Pine.SUN.3.91.960204101007.24691F-100000@greatlakes>, on 02/04/96 at
09:24 AM,
   Bob Bruninga <bruninga@nadn.navy.mil> said:

>On Sun, 4 Feb 1996, rwf wrote:

>> The Peet that supports baro. is not supported properly by any APRS progr
>> or clone currently (unless someone fixed something in the last few days)

>WB4APR REPLY COMMENT:

>APRSpc *does* and *will* support the U-2000. THe bug is hardware
>dependent. There are lots of pwople who report that it runs just fine.
>There are lots (with newer PC's that report that it does not). We will
>fix it. Sorry for the delay, hi hi...

I knew it worked on some, but I had not seen any reports on the sig that
it worked reliably even for them...and of course, it has never worked for
me (darn it). Good luck, Bob..I know it is a real bugger. 73,

Robert "hasan" Schiers, N0AN
----
schiers@ibm.net

---

80. APRS VHF Frequencies

From: Rod Hignite <rhignite@interramp.com>
Date: Sun, 4 Feb 1996 14:11:34 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BAF30A.BB8B48C0@ip215.herndon4.va.interramp.com>
Rendered body type: text/plain

What are the APRS VHF frequencies commonly used? Particularly in the
Northern Virginia area.

Tnx - Rod - KB3MK

---

81. Midwinter Madness

From: "Gerald H. Nies" <gnies@RWIC.UND.NoDak.Edu>
Date: Sun, 4 Feb 1996 13:50:11 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.91.960204134210.25874A-100000@oz.rwic.und.nodak.edu>
Rendered body type: text/plain

I want to pass along that Midwinter Madness will have a table set up in
the club area for APRS. Stop in and talk to those of us who are using
APRS in the upper midwest.

We hope to generate more interest for APRS in our area.

Also John WA0LPV and Gerry N0NGW will be going mobile from Grand Forks,
ND to the hamfest on Friday evening. Don't expect many of you will see
us, but we will be giving this a try.

73 de Gerry N0NGW

82. WinAPRS Beta .022 corrupted?

From: schiers@ibm.net (Robert Schiers)
Date: Sun, 04 Feb 96 20:54:22
To: aprssig@tapr.org
Message-ID: <199602042056.UAA41654@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
-------------------------------------------------------------------------
The following message is forwarded to you by schiers@ibm.net (Robert
Schiers) (list as the From user of this message).  The original sender
(see the header, below) was and has been set as the "Reply-To" field of
this message.
-------------------------------------------------------------------------
From: schiers@ibm.net (Robert Schiers)
Date: Sun, 04 Feb 96 20:33:21
To: ksproul@hardees.rutgers.edu
Subject: WinAPRS Beta .022 corrupted?

Keith,
I ftp'd one copy from the web site and another from TAPR.
Both failed to be recognized as intact by pkunzip (in fact
by two different unzippers).

I then ran pkzipfix on the files (both were the same size)
and it found and corrected the errors.

Note the files sizes:

W_AP022  ZIP   1294336   2-04-96  7:38p (original downloaded from TAPR)
W_AP022A ZIP   1295894   2-04-96  8:30p (zipfixed version) W_AP22A  ZIP
1295894   2-04-96  8:29p (zipfixed version)
W_APRS   ZIP   1220256   1-29-96  3:23a (original public beta release
.20) W_APRS22 ZIP   1294336   2-04-96  7:23p (original downloaded from
WEB)

The .22 beta DOES fix the Ultimeter 2000 wx problem, although I am not
sure I am seeing it transmit the weather automatically...I only am sure
it is doing it when I manually use the settings to transmit the wx.

How often should the wx go out automatically?

Thanks for the quick fix..by the way. Pressure here is 30.48 in Hb which
corresponds to 1032 mb...the display shows 32...shouldn't there be a
leading zero..032 and then when pressure falls below 1000 mb, it would
show 999 , corresponding to 999 mb? The display I refer to is the Wx
Station list under lists.

Also the Weather indication shows only temperature ...assume this is
something new you are working on. 73,



Robert "hasan" Schiers, N0AN
-------------------------------------------------------------
schiers@ibm.net
-------------------------------------------------------------

-----------------------------------------------------
 -- End of forwarded message
-----------------------------------------------------
Robert "hasan" Schiers, N0AN
-------------------------------------------------------------
schiers@ibm.net
-------------------------------------------------------------
```

83. Re: [APRSSIG:6495] Preferences

From: QRDS81A@prodigy.com (GERALD HASTY)
Date: Sun, 04 Feb 1996 15:50:18 EST
To: dbarrow@omnifest.uwm.edu, aprssig@tapr.org
Message-ID: <013.00322898.QRDS81A@prodigy.com>
Rendered body type: text/plain

Remember, some people drive Ford's and some people drive Chevie's. This is not an argument as to the preference of one platform over another. When we come down to it, this is a personal choice. I have a

friend of the last thirty years that is a die-in-the-wool Mac user and
I am a PC user. We chide each other often about this personal
preference, but we respect each other sufficiently to let the other
have that choice. Let us agree that there are strengths and weakness
with each platform. Given that, a machine and operating system should
be chosen for the closest match for the job at hand. For my old friend,
his choice for a Mac as a tool of choice was based on their needs. For
me, the choice was based on my needs. Each of use is happy with the
choice and when one of us finds it necessary to use a different tool
for a job, we put our pride aside and readily use the other machine.
You see, my friend and I learned how to use both tools and pick the one
needed for the job at hand. We are both richer and more marketable for
the learning. Many readers of this message have more then one car in
the family. Very few of them have both of the vehicles the same. Why
is that? The same reasons for different computers can be given.

Anybody in the mood to talk about an AT&T 3B2?

G. L. Hasty (N7YOQ)

-------- REPLY, Original message follows --------

> Date: Friday, 02-Feb-96 06:52 PM
>
> From: David W. Barrow II   \ Internet:
(dbarrow@omnifest.uwm.edu)
> To: G. L. Hasty   \ PRODIGY: (QRDS81A)
>
> Subject: [APRSSIG:6495] Re: Win32S
>
>   I have 3 PCs and 4 Macs.   MUCH prefer the Macs!
>   Can't understand all this hype about WinDOZE - Macs had all
that
> stuff - and better - 10 years ago.
>
> Dave Barrow, N9UNR
>
> CUL & 73 de Dave
>
==
==
> ===
> David W. Barrow III * Amateur Radio:N9UNR *
> Internet:dbarrow@omnifest.uwm.edu U.S.Snail:1894 Elm Drive, Town of
> Cedarburg, West Bend, Wisconsin 53095-9603 Ma Bell:(414) 375-2667
*
> Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM Sysop:Amateur Radio
Section
> (phone 229-6664, Logon:visitor,At any menu:go ham
>
==
==
> ===
>
>
>

-------- REPLY, End of original message --------

---

84. Re: [APRSSIG:6500] Re: Win32S

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sun, 4 Feb 1996 14:24:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960204142228.1989B-100000@draco.bison.mb.ca>
Rendered body type: text/plain

On Fri, 2 Feb 1996, Robert Schiers wrote:

[snip..]
> Let me try to explain it: Installed User Base. Macs are wonderful
[snip..]
> Fortunately with versions for DOS, Win3.x/WIN32s/WIN95 & the MAC, the ham
> community has exactly what it needs. Serviceable and feature rich low end
> dos machine software and aesthetically pleasing, fast, feature rich
> Windows and Mac versions. We should all be very happy at the continued
> strength and development of these products. The authors are doing us a
> great service and hopefully making a few bucks as they go.
>
> I hope this doesn't degenerate into one of these "my machine is better

> than your machine" or "my software is better than your software" threads.
> God they are tedious. Each machine and its associated software has a
> place at the table. I wish them all well.
>
> Robert "hasan" Schiers--
> ---
> schiers@ibm.net
> ---
>

Very well said, Robert.
I couldn't agree more.

Michael
--
Michael Markmann VE4MJM |
ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

---

85. Wx Reporting errors

From: mwalker@interlog.com (Mike Walker)
Date: Sun, 04 Feb 96 17:21:41 EST
To: aprssig@tapr.org
Message-ID: <199602042221.RAA14110@gold.interlog.com>
Rendered body type: text/plain

We have had a gate up and running for some time here in Toronto and Southern Ontario, but at least 50% of the wx spots that come in over the 30m net are corrupted.

I will post the callsigns that I see the next time I get on. Some that come to mind are KU0G and KE2VW. There are more.

We can recreate the problem here if only the wx info is transmitted.

Seems to be a waste if people spend all this money on their stations, but no else can read the data.

Bob, what is the short term solution?

cheers...mike

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

---

86. Re: Preferences

From: suggs@alumni.caltech.edu (Brian D. Suggs)
Date: Sun, 4 Feb 1996 15:57:12 -0800
To: aprssig@tapr.org
Cc: ksproul@hardees.Rutgers.EDU
Message-ID: <199602042357.PAA12117@alumni.caltech.edu>
Rendered body type: text/plain

>Anybody in the mood to talk about an AT&T 3B2?
>
>G. L. Hasty (N7YOQ)

Hey! I almost bought one of those many years ago...

I own and use both macs and pc's, though I prefer to run Linux on the pc's.

Speaking of which: Do the Sprouls want any help with porting to X ?
:-)

Brian Suggs, AC6GV
suggs@alumni.caltech.edu

---

87. CRC'd Maps

From: Robert Busch <rbusch@CapAccess.org>
Date: Sun, 4 Feb 1996 21:06:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91-FP.960204205033.11452A-100000@cap1.capaccess.org>
Rendered body type: text/plain

Encouraged to join the APRS world by an outstanding talk by Bob at the Laurel Amateur Radio Club, Laurel MD, last week, I downloaded APRS 74b off the AARL bulletin board (my freenet internet access is not up to ZMODEM yet and I

```
could not stand the suspense of a XMODEM download from TAPR files  -
thousands of blocks). But, impatience does not pay and my world map and,
would you believe also Maryland, were bit by the CRC bug. Fix didn't
help. Is there a bulletin board version of the zip maps, including
at least Maryland and the World around? Or, should I start over through
registration and also get a disk?  Only Baycom here at this time so it
will be a bit before I show up on anyone's map. 73. WB3KXJ.
```

88. unsubscribe

From: Tim Baughman <wapema@nauticom.net>
Date: Sun, 4 Feb 1996 21:44:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602050244.VAA01054@pgh.nauticom.net>
Rendered body type: text/plain

```
Tim, Donna, Brandi
```

89. Re: KG8KE's address?

From: jimk@on-ramp.net
Date: Sun, 4 Feb 1996 21:57:37 -0500
To: aprssig@tapr.org
Message-ID: <199602050257.VAA18476@mail.ee.net>
Rendered body type: text/plain

```
>------------------------------
>
>Date: Sat, 03 Feb 1996 10:07:24 -0800
>From: Scott Miller <scottm@sierra.net>
>To: aprssig@tapr.org
>Subject: Re: KG8KE's address?
>Message-ID: <3113A45C.6137@sierra.net>
>
>Bob Bruninga wrote:
>>
>> Anyone know KG8GE's address?  They need it in South America!
>>
>> ---------- Forwarded message ----------
>> From: lu1bsn@ea4rct.clubs.etsit.upm.es
>>
>>         DO YOU KNOW THE E-MAIL OF JIM K. THE AUTHOR OF PT2MAP SOFT TO CONVERT
>> AUTOCAD MAPS INTO APRS FORMAT MAPS??call changed to AA8NX Leighton B Renolds
6799 Bartlett Rd.
>                                        Reynoldsburg, Oh.
>                                        43068-2901
>
>
>------------------------------

Not sure who this Leighton B Renolds fellow is or who AA8NX is either, but the
last time I checked my name was still Jim K. and the call was still KG8GE
(unless you know something I don't) :-)

-----------------------------------------------------------------------------
|  73, de Jim (KG8GE) |  jimk@on-ramp.net        |                           |
|  Home of PLT2MAP.   |  KG8GE@WN7C.NCOH.OH.USA  |                           |
-----------------------------------------------------------------------------
```

90. Re: [APRSSIG:6499] KG8KE's address?

From: Scott Miller <scottm@sierra.net>
Date: Sun, 04 Feb 1996 21:42:04 -0800
To: aprssig@tapr.org
Message-ID: <311598AC.5928@sierra.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Anyone know KG8GE's address?  They need it in South America!
>
> ---------- Forwarded message ----------
> From: lu1bsn@ea4rct.clubs.etsit.upm.es
>
>         DO YOU KNOW THE E-MAIL OF JIM K. THE AUTHOR OF PT2MAP SOFT TO CONVERT
> AUTOCAD MAPS INTO APRS FORMAT MAPS??sorry but I must have read the call from SUBJECT:KG8KE plus
BOB wanted his E-MAIL address.Graveyard and I don't agree and I posted
that after a shift while I was imatateing the star of the movie NIGHT OF
THE LIVING DEAD.Sorry for the wasted bandwith and confusion.
```

91. Re: [APRSSIG:6526] APRS at National Hurricane Warning Center

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 5 Feb 1996 11:49:09 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960205114225.2213A-100000@pinegov>
Rendered body type: text/plain

On Sat, 3 Feb 1996, rwf wrote:

> I am still on my extended APRS mobile Florida trip. I attended the Miami
> Tropical Hamboree today. (70 degree temps, BTW).
>
> They offered tours of the new National Hurricane Warning Center (the old one
> blew away during Hurricane Andrew). I took the tour and can report that
> APRS is proudly displayed there. It was in use in the Ham Station, W4EHW
> (Early Hurricane Warning) as well as on a portable cart in the Media Room
> (where the press sleep on the floor waiting for hurricanes to move around).
>
> It was up and running for all to see. Tour guide explained ARPS (sic.) to
> us and explained all about how they wished that all the Ham boaters would
> put Ultimeters on their boats and run the program.
>
> They also explained how valuable the WX reports were that came in from our
> WX stations.
>
> I spoke with the personnel at length and they are very nice.
>
> If you are ever in Miami, it is worth a visit. They're on the same tract of
> land as Florida International University and the Hamfest site.
>
>
> Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical Advisor
>
> rwf@mindspring.com rwf@cokecce.com   Atlanta, GA USA
> Web: http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and Ham info
> FTP: ftp.mindspring.com/users/rwf   for APRS, ATV, GPS, APRS files
>
> My hobby is tracking moving things with APRS, GPS and Packet. Ask me how.
>
>

The above information is the primary reason Rich and I are testing the 80
M GATEFL in Florida...we are inside the skip zone for other Florida
stations using 30 and sometimes even 40 meters....not to mention the
tropical phone skip at night here on 40....

I would like to invite ideas and suggestions from all WX users on the
East and Gulf Coasts on how we can accurately and dependably provide real
time data to the TSPC (Formerly the NHC) this upcoming hurricane season...

The NWS needs windspeed in knots, wind direction in degrees, and barometer
in 0.1 millibars in real time....

You might be interested to know that ham reports over Florida were
critical when Erin crossed the state last year...enabling them to drop
the hurricane warnings earlier than expected and confirming their
forecast....the barometric and wind readings can verify the radar defined
center of the storm.....and show increase/decrease of strength....

Thanks Ralph for pointing this out...

P.S. KD4UYR Gateway is now operating on a Kenwood TS50, the old Yaesu
FT747 finally gave up....nice little rig too pumping out slightly more
than its rated 100 watts....

73 from Sunny? (temp 26 wind chill 19) Florida
de Kevin KD4UYR

---

92. RE: [APRSSIG:6491] Re: pico packet

From: Bob Sayers <bsayers@implex.co.uk>
Date: Mon, 5 Feb 96 09:53:18 GMT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.960205095614.bsayers@westmids.epline.implex.co.uk>
Rendered body type: text/plain

>>Yes, I have the same problem. It will keep parameters for a while,

Is anybody using the Pico with battery pack yet? Presumably this helps
prevent the loss of parameters?

Until the nicad runs down, of course...

Bob

Name: Bob Sayers
Emergency Planning Unit
West Midlands Fire Service
Birmingham, UK
E-mail: bsayers@epline (Bob Sayers)
Date: 10/13/95
Time: 11:17:27

This message was sent by Chameleon

---

93. WX software

From: Bob Sayers <bsayers@implex.co.uk>
Date: Mon, 5 Feb 96 10:02:13 GMT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.960205103439.bsayers@westmids.epline.implex.co.uk>
Rendered body type: text/plain

Just ordered my Ultimeter 2000 - first one in the UK, unless someone proves me wrong...

There will inevitably be occasions when the laptop, TNC and GPS are committed with APRS elsewhere, and during these occasions I would like to use the 2000 in conjunction with another TNC as a weather-information node. I know that the 2000 has a mode which allows it to respond to modem or TNC commands, but I had in mind something which didn't involve the remote user needing to know the 2000 commands, and which perhaps presented the remote user with a menu or some other more friendly presentation in order to view either current, or archive; weather data.

Does anyone have such a system running, or could anyone point me towards any PC software which might achieve this?

regards,

Bob

Name: Bob Sayers, G8IYK
Emergency Planning Unit
West Midlands Fire Service
Birmingham, UK
E-mail: bsayers@epline (Bob Sayers)
Date: 10/13/95
Time: 11:17:27

This message was sent by Chameleon

---

94. Re: [APRSSIG:6498] Re: Win32S

From: sproul@ap.org (Mark Sproul)
Date: Mon, 5 Feb 1996 09:15:15 -0500
To: aprssig@tapr.org
Cc: ke4eer@airnet.net
Message-ID: <v02130508ad3bc039644f@[165.1.27.20]>
Rendered body type: text/plain

```
>O yes sure dave that's why the sales have been dropping like crazy. I have
>4 PC's and i MUCH prefer the PC's Hi.
>
>Bill KE4EER
>-----------------
>>        I have 3 PCs and 4 Macs.   MUCH prefer the Macs!
>>        Can't understand all this hype about WinDOZE - Macs had all that
>>stuff - and better - 10 years ago.
>>
```

Dear Bill

The sales of Macs has NOT been "dropping like crazy", in fact, Apple has had record sales volumes (in numbers of units) and was the 2nd highest company in sales last quarter (again in units shipped). Apple has sold over 1 million PowerPC computers, more RISC based machines than all other RISC based machines put together. You are of course correct that PCs outsell Macs in most of the market, but in the market that I work in, graphics and publishing, Macs outnumber PCs 10 to 1.

```
BTW, the developement of WinAPRS, is done entirely on a Mac, I right the
code on a Mac, Compile it on a Mac and even run the debugger on a Mac which
commuicates to the PC via TCP/IP were the code actually runs.

Mark

__________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

---

95. Re: [APRSSIG:6523] Re: WinAPRS List

From: dwetzel@uswest.com
Date: Sun, 4 Feb 1996 08:15:39 -0600
To: aprssig@tapr.org
Message-ID: <1160dfc0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Thanks Keith -

     You and Mark have done an outstanding job!

     BTW, the Utah resorts now have around a 150" base?  Are you going to
     make it out here to ski this year?  ;-)

     73,
     Doug
     KC7CO
     dwetzel@uswest.com


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6523] Re: WinAPRS List
Author:  aprssig@tapr.org at Internet-Mail
Date:    2/3/96 6:33 PM




To subscribe to the WinBeta list,

send mail to    listproc@tapr.org

in the BODY of the message put


subscribe winaprs <your name>


Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

96. Re: [APRSSIG:6548] Re: pico packet

From: Scott Miller <scottm@sierra.net>
Date: Mon, 05 Feb 1996 07:06:52 -0800
To: aprssig@tapr.org
Message-ID: <31161D0C.62BB@sierra.net>
Rendered body type: text/plain

```
Bob Sayers wrote:
>
> >>Yes, I have the same problem. It will keep parameters for a while,
>
> Is anybody using the Pico with battery pack yet? Presumably this helps
> prevent the loss of parameters?
>
> Until the nicad runs down, of course...
>
> Bob
> ------------------------------------
> Name: Bob Sayers
> Emergency Planning Unit
> West Midlands Fire Service
> Birmingham, UK
> E-mail: bsayers@epline (Bob Sayers)
> Date: 10/13/95
> Time: 11:17:27
>
> This message was sent by Chameleon
> ------------------------------------yes Bob I have the Pico 2 port w/internal gps and battery pac
I've had it since october and I have to use it in MASTER mode to see
myself on map -pre 74e eprom. I do lose parameters of loc and lpath
tho not allways.I've had and continue to have great patience with PacComm
and I have confidence they will make everything right so much so that I
have just ordered 2 new tiny2 digi's for the Lake Tahoe area.
good luck Scott Miller KE6RKE
```

---

97. Re: maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Feb 1996 11:02:55 -0500 (EST)
To: aprssig@tapr.org
Cc: ke6et@ke6et.clark.net
Message-ID: <Pine.SUN.3.91.960205105649.3462B-100000@greatlakes>
Rendered body type: text/plain

```
***** MESSAGE FORWARDED ******

> From: kb8lhz (james petera)
> Reply-To: kb8lhz@ke6et.clark.net

>   I work for a local tower eng. company.  I cover a great deal of the
> Ohio, Kentucky, Indiana area.  I am interested in providing detailed maps
> of all major routes as well as county roads.
>   I use a Garmin GPS 45.  I seem to remember a note about conversion from
> Garmin route information, but I haven't had time to study APRS completely.

WB4APR REPLY COMMENT:   Anyone can help this guy?
```

---

98. Re: [APRSSIG:6541] Wx Reporting errors

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Feb 1996 11:23:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960205112059.3462F-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 4 Feb 1996, Mike Walker wrote:

> We have had a gate up and running for some time here in Toronto and Southern
> Ontario, but at least 50% of the wx spots that come in over the 30m net are
> corrupted.

WB4APR REPLY COMMENT:  Nothing on packet can be CORRUPTED unless someone,
somewhere has PASSALL ON.  There is nothing worse in the entire universe
of APRS than a digi or gate with PASSALL ON.

Everyone should persue with extreme dilligence to eradicate any TNC with
PASALL ON, hihi.  WIth generic callsigns, it is extremely difficult to
locate, but wrecks APRS data over many states... hi hi..  GOOD LUCK!
```

---

99. Re: [APRSSIG:6536] APRS VHF Frequencies

From: mlehmann@nerc1.nerc.com (Mark W Lehmann)
Date: Mon, 5 Feb 1996 11:36:39 -0500
To: aprssig@tapr.org
Message-ID: <v01530500ad3be215a94f@[205.247.120.226]>
Rendered body type: text/plain

```
>What are the APRS VHF frequencies commonly used?  Particularly in the
>Northern Virginia area.
>
>Tnx - Rod - KB3MK

145.79 is used from VA up through CT. Some in MA are on 145.77.

HF freq is 10.151.5 (AEA tones, adjust for MFJ and others).

Mark

Mark W. Lehmann         | mlehmann@nerc1.nerc.com
534 Spring Hill Road    | Fax:6094668518
Skillman NJ 08558       | WO2J--APRS 145.79--30M GATE
```

100. Re: [APRSSIG:6548] Re: pico packet

```
From: Scott Miller <scottm@sierra.net>
Date: Mon, 05 Feb 1996 08:09:22 -0800
To: aprssig@tapr.org
Message-ID: <31162BB2.62B5@sierra.net>
Rendered body type: text/plain
```

```
Bob Sayers wrote:
>
> >>Yes, I have the same problem. It will keep parameters for a while,
>
> Is anybody using the Pico with battery pack yet? Presumably this helps
> prevent the loss of parameters?
>
> Until the nicad runs down, of course...
>
> Bob
> -------------------------------------
> Name: Bob Sayers
> Emergency Planning Unit
> West Midlands Fire Service
> Birmingham, UK
> E-mail: bsayers@epline (Bob Sayers)
> Date: 10/13/95

> Time: 11:17:27
>
> This message was sent by Chameleon
> -------------------------------------I just talked to PacComm they said to send my Pico back they
got it figured out.you might want to call Linda first.
8:30 pst
```

---

101. Re: [APRSSIG:6549] WX software

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Feb 1996 12:03:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960205115728.3462O-100000@greatlakes>
Rendered body type: text/plain
```

```
On Mon, 5 Feb 1996, Bob Sayers wrote:

> Just ordered my Ultimeter 2000  -  first one in the UK,....>

> There will inevitably be occasions when the laptop, TNC and GPS are
> committed with APRS elsewhere, and  I would like to use
> the 2000 in conjunction with another TNC as a weather-information node.

WB4APR REPLY COMMENT:  The U-2000 has a packet mode.  Just take ANY TNC,
put it into unproto converse, and hook up the 2000.  The 2000 will send
out a WX report once every 5 minutes.  Use one of the newer TNC's that
can be configured to power up into UNPROTO CONVERSE...

Expect some APRS bugs with the U-2000, tho.  We are working on them...
```

---

102. Success!!!

```
From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 05 Feb 1996 11:40:21 -0700
To: aprssig@tapr.org
Message-ID: <199602051840.LAA23940@usr5.primenet.com>
Rendered body type: text/plain
```

```
Bob:

We have it!!! Not only are they sending the necessary information, they have
given a "stringless" OK to write whatever interface program you need, they
have even offered to personally help you, or whoever, write it so that it
interfaces just as you want it to.

How about that??? Not bad eh???? Let me know what else you would you like me
to do?

Glade the I could help...Thanks for everything!!!

73, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

103. Re: [APRSSIG:6520] WinAPRS beta, Ya I know...

From: sproul@ap.org (Mark Sproul)
Date: Mon, 5 Feb 1996 13:45:13 -0500
To: aprssig@tapr.org
Message-ID: <v0213051bad3c003d6ec1@[165.1.27.20]>
Rendered body type: text/plain

```
>Hello,
>for some reason I receive the msg "Invalid Registration Number" when I boot
>up WinAPRS.  I haven't changed or done anything to the files I received
>directly from TAPR via the I'net.
>
>Idea's?
>
>Cheers, Bill - N0NSA

We have had exactly 2 people with this problem, I do not understand it.  I
have fixed it so it doesnt quit as it currently does.

It might not be finding the CFG file, I am not sure, make sure that
WinAPRS.EXE and WINAPRS.CFG are in the same folder (directory) and that
they are NOT at the top level.  If you come up with anything, let me know

If you continue to have problems, I will send you a new version

Mark

_________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press    |AppleLink:     Sproul.M
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://pilot.njin.net/~msproul
_________________________________________________________________________
```

---

104. Re: [APRSSIG:6558] Success!!!

From: JAgrelo@aol.com
Date: Mon, 5 Feb 1996 15:20:10 -0500
To: aprssig@tapr.org
Message-ID: <960205152009_313280457@emout08.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-02-05 15:09:49 EST, you write:

>We have it!!! Not only are they sending the necessary information, they have
>given a "stringless" OK to write whatever interface program you need, they
>have even offered to personally help you, or whoever, write it so that it
>interfaces just as you want it to.

Is this for just Bob, or the whole SIG. Who_is_they? and_what_is_it?

 73 de Joe N2OOC
-------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-------------------------------------------------------------------------------
-----------------
```

---

105. VHF APRS MOBILE EVENT AZ, UT, ID, MT, WA

From: DDOBBINS@aol.com
Date: Mon, 5 Feb 1996 18:16:37 -0500
To: aprssig@tapr.org
Message-ID: <960205181634_313465609@mail04.mail.aol.com>
Rendered body type: text/plain

```
Aloha Y'all. Dave here in Hawaii, where our record low temps (upper 50
degress plus) have not broken water pipes, cut electric lines, or caused us
to slide off the road (an unpaid advertisement from the Dept of Hawaii
Tourism Bureau).
```

During the upcoming couple of weeks, Feb 12-29, I'll be APRS/GPS mobile in and around the following cities as I drive my car from Arizona to Washington state: Tucson, Phoenix, Flagstaff, Salt Lake City, Pocatello, Butte, Missoula, Coeur d'Alene, Spokane, Seattle, and Tacoma.

If you live nearby any of the above cities, please send email and tell me your APRS frequency and digi ID.

Gear used will be a briefcase APRS kit with Icom W2A, 30 watt amp, KPC-3 and Garmin 45. Hope to have my 2M voice radio installed as well, with a decent antenna, and will monitor 145.52, or known repeater freqs, while driving.

Would be glad to show off my gear to anyone who would like to see it. Have been an active APRS user since 93, former TX State APRS Coordinator, and soon to be former HI State APRS Coordinator, as I move to WA state (maybe will be the WA State APRS Coordinator, if position isn't already taken). Lots of map making experience, include number of west TX, Tucson, San Diego, Spokane, Bremerton, Puyallup, and other smaller maps. Mac at home, DOS at work/portable station.

So look for WH6YC-9 APRS GPS mobile and drop me a line. Aloha, Dave.

---

106. Eagle/KPC#/HSP Switch

From: Tom & Linda MacKay <mackay@lr.net>
Date: Mon, 05 Feb 1996 18:19:06 -0500
To: aprssig@tapr.org
Message-ID: <199602052333.SAA21208@ns1.lr.net>
Rendered body type: text/plain

Help!!

I have an Eagle GPS, a KPC-3 and an AEA HSP SWITCH (I also have one that was made up for me). My APRS runs fine without the switch plugged into the back of the TNC. When I start APRS with the switch inline, when I check the unproto and it always says NONE, when I go to change it it stays at NONE with no digipeater path.

Does anybody have any idea what is wrong!!!!

I leave for a trip in a week and I wanted to use APRS, but the way its going it wont make it.

Looking for help

Tom
N1HQF

---

107. Re: [APRSSIG:6560] Re: Success!!!

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 05 Feb 1996 16:36:40 -0700
To: aprssig@tapr.org
Message-ID: <199602052336.QAA14878@usr6.primenet.com>
Rendered body type: text/plain

YES - Sorry

At 02:28 PM 2/5/96 -0600, you wrote:

```
>In a message dated 96-02-05 15:09:49 EST, you write:
>
>>We have it!!! Not only are they sending the necessary information, they have
>>given a "stringless" OK to write whatever interface program you need, they
>>have even offered to personally help you, or whoever, write it so that it
>>interfaces just as you want it to.
>
>Is this for just Bob, or the whole SIG. Who_is_they? and_what_is_it?
>
> 73 de Joe N2OOC
>-----------------------------------------------------------------------------
>----------------
>                                            Joe Agrelo/N2OOC
>                                            Agrelo Engineering
>                                             Ph (518)381-1057
>                                             Fx (518)381-1058
>                                         E-mail- jagrelo@aol.com
>                        In the Web  http://home.navisoft.com/agrelo/ae.htm
>     Designer and Manufacturers of intelligent microprocessor based Doppler
>                                           and talking products
>                           Experts in Microchip and Motorola processors
>                    Cruise Missile Coordinates 42 47.427N,  073 56.525W
>-----------------------------------------------------------------------------
>-----------------
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

108. Re: [APRSSIG:6559] Re: WinAPRS beta, Ya I know...

From: n2czf@gate.net
Date: Mon, 5 Feb 1996 19:28:12 -0500
To: aprssig@tapr.org
Message-ID: <199602060028.TAA02120@osceola.gate.net>
Rendered body type: text/plain

```
I had this same problem with the invalid reg number but it was a easy fix, I
screwed up! I did not have the CFG file in the correct location, that was back
when the .EXE file was going out instead of a complete package.

Check this first it may be as simple as that.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

109. unsubscribe

From: jlauber@ix.netcom.com (John Lauber)
Date: Mon, 5 Feb 1996 18:34:14 -0800
To: aprssig@tapr.org
Message-ID: <199602060234.SAA29037@ix12.ix.netcom.com>
Rendered body type: text/plain

[Empty message body]

---

110. Re: [APRSSIG:6547] Re: APRS at National Hurricane Warning Center

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 5 Feb 1996 21:48:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960205214215.979C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
>
(snip)
> >
> > It was up and running for all to see.  Tour guide explained ARPS (sic.) to
> > us and explained all about how they wished that all the Ham boaters would
> > put Ultimeters on their boats and run the program.

Maybe I'm missing something here......I don't see how an Ultimeter can
work properly on a boat. At least as far as wind *direction* is concerned.

You'd have to constantly monitor your heading and constantly change the
'correction factor' of the Ultimeter. Not very practical IMHO.

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

111. Re: [APRSSIG:6555] Re: APRS VHF Frequencies

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 5 Feb 1996 21:54:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960205215316.979D-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 5 Feb 1996, Mark W Lehmann wrote:
(snip)
>
> 145.79 is used from VA up through CT. Some in MA are on 145.77.
>
We *used* to be on 145.77. We are all on 145.79 now.

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

112. Re: [APRSSIG:6566] Re: APRS at National Hurricane Warning Center

From: ke4eer@AIRnet.net (William Nolle)
Date: Mon, 05 Feb 1996 22:52:11
To: aprssig@tapr.org
Message-ID: <9602060454.AA28070@foo.garply.com>
Rendered body type: text/plain

```
>>
>(snip)
>> >
>> > It was up and running for all to see.  Tour guide explained ARPS (sic.) to
>> > us and explained all about how they wished that all the Ham boaters would
>> > put Ultimeters on their boats and run the program.
>
>Maybe I'm missing something here......I don't see how an Ultimeter can
>work properly on a boat. At least as far as wind *direction* is concerned.
>
>You'd have to constantly monitor your heading and constantly change the
>'correction factor' of the Ultimeter. Not very practical IMHO.
>
>Richard Amirault              N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>
>
Yes and how about the rain guage, would have to be mounted on a Gymbal
or something to keep it level all the time. In any case it would not be very
accurate Hummmm.

Bill KE4EER
```

---

113. GPS

From: ke4eer@AIRnet.net (William Nolle)
Date: Mon, 05 Feb 1996 22:59:48
To: aprssig@tapr.org
Message-ID: <9602060502.AA29089@foo.garply.com>
Rendered body type: text/plain

```
I posted this once before but didn't see much response. Has anyone did any
research or own a  GPS31 TrakPak (tm) GPS receiver. Looks like a great unit
for a standalone tracker since it's only 2.23"x3.8"x1.04" and is totally sealed
in a waterproof housing. Includes receiver antenna (Tracks 8 satellites) it has
an 8 conductor cable coming out of it for tha data output of Pos,Spd,Time,
Receiver and Satellite status. NMEA 0183,RS-232 RTCM-104 inputs. And the
best part is that West marine has them for $230 i believe.

Bill KE4EER
ke4eer@AIRnet.net
```

---

114. APRS compatible WX beacons in LA area

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 6 Feb 1996 03:00:09 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602061100.DAA09293@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
Bill, KB6CYS has been running real-time WX information on 145.010 in the Los
Angeles area for approximately 10 years.   He was written up in a TAPR PSR
and QST as the first amateur to couple a WX station to a TNC and make this
data available to the public.

His station consists of a ORIGINAL Heathkit WX computer, with it's "wierd"
TTL parallel data interface.  This is interfaced to a (don't laugh) Apple ][
computer and a IBM PC - the Apple doing all of the interface and dialog with
the WX station, and the PC handling TNC/connect duties (well, it USED to be
a PAIR of Apples!).

Anyway, I convinced him to send APRS-compatible WX packets, and since Sunday
night, that's a reality (it's just too bad that most of the APRS activity in
the LA basin is on the 146.745 duplex repeater, and not on 145.010!).  The
station now reports temperature, wind speed and direction in "APRSese".
Soon, he'll add the rain reporting function - however, since this is "rain
per hour" not a 24 hour cumulative total, this is a bit tricky (Bob, this
may be a thinly veiled request for advice on how to handle this...) but, the
bottom line is, it works!

Of course the station LOOKS like just another APRS WX station on the screen,
and we noted that putting "!" (to denote it as "not running APRS") in the
first character in the posit (rather than "@") did not cause the post to
occur.  Some stations may THINK it's an APRS station and try to send APRS
messages to it, or send it WX queries (well, I have him working on the
```

latter one also...), and of course, it won't respond.

So...

1. Should there be (or is there) a symbol for non-APRS WX reporting stations?
2. Should we worry about this?

PS- - If there's someone in the LA Basin with a KPC4 (VHF-VHF) that would like to digipeat Bills packets to the input of the full duplex macine, I'm sure that Bill would give you his blessing and cooperation!

Mark
KD6KQ

---

115. WX reports and the TSPC

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 6 Feb 1996 12:23:15 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960206120806.7984D-100000@pinegov>
Rendered body type: text/plain

I find it very interesting that instead of making suggestions on a method of accurately providing weather info to the TSPC via APRS, certain members of this sig point out the technical impossibility of getting automated reports from moving vessels....

Next time you are on HF....look for WB4GQK in St. Petersburg, Florida. He spends the entire summer taking reports via HF on the marine nets and via Marine Band HF and VHF and then entering them into MAREPS (The National Weather Service Marine Reporting System). He often uplinks the positions of these vessels onto the APRS map.

Bob does this as a public service. He does not get paid for it and he has been using APRS for this purpose since version 1.0.

Some of us care enough about our communities to provide services the government cannot do without spending billions of our tax dollars...

Accurate weather measurments well outside the immediate area of a tropical system are necessary to properly forecast movement and direction. Those of you who live inland may not have anything to worry about..but even Northern Alabama got hit by a hurricane last year.

Early warning saves lives and property....possibly your own.

So, instead of complaining about such things as technical difficulties and corrupted weather data from stations...how about making helpful suggestions on how to solve those difficulties....

For instance, it is correct that an Ultimeter would not be an accurate wind guage on a moving vessel...however, software could be used to compare GPS data of speed and movement against the weather data to extrapolate the true winds speed and direction....

Or, a more simple solution....the captain of the boat enters the WX manually after computing the above information himself....

Thanks for your time.

de Kevin Heyboer KD4UYR
Coordinator Pinellas SKYWARN
West Central Florida APRS GATEway
Seminole, Florida

---

116. Re: [APRSSIG:6571] WX reports and the TSPC

From: Rod Hignite <rhignite@interramp.com>
Date: Tue, 06 Feb 1996 08:41:38 -0800
To: aprssig@tapr.org
Message-ID: <311784C2.4B39@interramp.com>
Rendered body type: text/plain

Kevin Heyboer wrote:
>
> I find it very interesting that instead of making suggestions on a method
> of accurately providing weather info to the TSPC via APRS, certain
> members of this sig point out the technical impossibility of getting
> automated reports from moving vessels....
>
> Next time you are on HF....look for WB4GQK in St. Petersburg, Florida.

```
>>>>deleted<<<<<

> de Kevin Heyboer KD4UYR
> Coordinator Pinellas SKYWARN
> West Central Florida APRS GATEway
> Seminole, Florida

I agree!  Bravo Zulu Kevin

Rod - KB3MK
```

---

117. GPS-45 Help

From: W4NBC@aol.com
Date: Tue, 6 Feb 1996 10:40:43 -0500
To: aprssig@tapr.org
Message-ID: <960206104042_314106474@emout10.mail.aol.com>
Rendered body type: text/plain

```
I am using the Garmin GPS-45 with external antenna, AEA PK-12, and 30-watt
rig as a stand alone tracking in my mobile. I find that the GPS-45 shuts off,
I believe from RF from the 2-meter rig. I've had to seperate the two antennas
by about 8-feet to eliminate the problem. Would prefer both antennas on the
roof of the pickup truck. Anyone with similar problem?
Earl W4NBC   E-mail w4nbc@aol.com
```

---

118. Re: [APRSSIG:6561] VHF APRS MOBILE EVENT AZ, UT, ID, MT, WA

From: dwetzel@uswest.com
Date: Tue, 6 Feb 1996 08:50:26 -0600
To: aprssig@tapr.org
Message-ID: <1176e090@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Aloha Y'all. Dave here in Hawaii, where our record low temps (upper 50
degress plus) have not broken water pipes, cut electric lines, or caused us
to slide off the road (an unpaid advertisement from the Dept of Hawaii
Tourism Bureau).

During the upcoming couple of weeks, Feb 12-29, I'll be APRS/GPS mobile in
and around the following cities as I drive my car from Arizona to Washington
state:  Tucson, Phoenix, Flagstaff, Salt Lake City, Pocatello, Butte,
Missoula, Coeur d'Alene, Spokane, Seattle, and Tacoma.

If you live nearby any of the above cities, please send email and tell me
your APRS frequency and digi ID.

------------------------

Dave, Salt Lake City is operating on 145.15 (no tx/rx offset) until we get our
145.79 coordination.  There are a number of non-APRS stations which beacon
positions (most of the tcp/ip group), so you should see activity all the time.

The widest digi you can get to is KF7TA on Farnsworth Peak (9000'), but he's a
TV transmitter engineer and is only at that site every other week.  Try it when
you get within a hundred miles or so of here and see if he's up.  When up, his
beacon has his posit, so he'll show up on APRS as a digi.

KF7TA is NOT aliased, so you need to specify him disreetly.

RELAY, WIDE should work within about 40 miles of SLC, there are a number of
RELAYs, and I'm temporarily aliased as WIDE from my home qth on the weekends.
If you let me know firm dates, I'll alert the local forces and keep my node up
24 hrs so the WIDE will work.

We also have a 30m GATE (KB7DD) that operates on the weekends and on demand.

Try these unproto paths:

KF7TA, WA7SLG-14  (this one gets into my node at work, which is practically
deaf)

RELAY, WA7SLG-14

RELAY, WA7SLG-14, WIDE

Stations aliased as RELAY:  N7YOQ, KC7CO-2, KB7DD, KJ7HZ, AA5SL, AA7AA

Station aliased as WIDE:    KC7CO-1
```

```
High level Digi - no alias: KF7TA



I trust this is totally obscure!
73!

Doug
KC7CO
```

---

119. Re: [APRSSIG:6571] WX reports and the TSPC

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Tue, 06 Feb 1996 11:09:23 -0500
To: aprssig@tapr.org
Message-ID: <199602061608.LAA19901@sun.lssu.edu>
Rendered body type: text/plain

```
>I find it very interesting that instead of making suggestions on a method
>of accurately providing weather info to the TSPC via APRS, certain
>members of this sig point out the technical impossibility of getting
>automated reports from moving vessels....

  I have been a small part of the active recreational sailboat scene for
about 4 years, while living in Florida, and a recreational sailboat scene
observer/dreamer for many more.
  It has been my experience as sailor and observer that large recreational
sailboats in particular and most other larger recreational boats spend far
more time at anchor or moored, in protected waters, than underway. I get the
distinct impression (I have no records) monitoring boat activity on APRS
that 99% ? of the marine activity shown is from recreational vessels at rest.
  Given my observations of recreational vessels in the flesh and monitored
APRS activity, the argument based on incorrect data from moving vessels
carries little weight, with me.
  I miss the uplinked reports of the marine activity from GQK and others,
but considering the increased APRS 30m activity, I will bite my lip.

                                        Pete, wa4hei
```

---

120. (no subject)

From: Stan Horzepa <stan.horzepa@gdc.com>
Date: (date unavailable)
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BAF485.0D194EA0@epc755.gdc.com>
Rendered body type: text/plain

```
Subject: Connecticut maps
Date: Tue, 6 Feb 1996 11:19:57 -0500
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Over the past weekend, the Sproul Brothers graciously responded to my =
request to generate high resolution maps of central Connecticut and the =
greater downtown Wolcott, Connecticut metropolitan area. These maps are =
on the server under the name Hartford.zip.=20

The maps are great... if I stare at them long enough, I can almost see =
my tower!=20

Have Fun!

Stan, WA1LOU
```

---

121. Re: [APRSSIG:6556] Re: pico packet

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Tue, 6 Feb 1996 11:38:16 -0500 (EST)
To: Scott Miller <scottm@sierra.net>
Cc: aprssig@tapr.org, File <file@paccomm.com>
Message-ID: <Pine.LNX.3.91.960206082122.16464D-100000@paccomm>
Rendered body type: text/plain

```
On Mon, 5 Feb 1996, Scott Miller wrote:

> Bob Sayers wrote:
> >
> > Is anybody using the Pico with battery pack yet? Presumably this helps
> > prevent the loss of parameters?
> >
>
```

> I just talked to PacComm they said to send my Pico back they got it figured
> out. you might want to call Linda first.
> 8:30 pst

I'd like to confirm what Scott Miller posted.

This message applies only to PicoPackets with the open squelch DCD option, the second serial port option or the internal GPS option, both battery pack and external powered models. In other words, it applies to circuit board revison 1.2 only.

We have found that the memory loss problem is due to the manner in which address decoding was done for the clock chip which is part of the second serial port and GPS options. This decoding is part of every revision 1.2 board whether these options are installed or not. During initialization the decoding will sometimes cause the the microprocessor to try to execute the clock instead of the EPROM code at that address. If this happens, the microprocessor executes invalid code and may corrupt the battery backed RAM before resuming the normal initialization. When it checks the RAM checksum later in the initialization process, it finds corruption and loads default parameters.

Also, the three position power switch used on all revision 1.2 boards can cause a glitch if it is quickly popped from ON through the center OFF into the other ON position.

We are mounting a recall of all such units so that we may modify them to eliminate the memory loss problem.

The memory decoding circuit will be rewired to eliminate the clock problem.

Power switches on standard models will be modified to block one of the ON positions, thus eliminating the 'switch glitch.' On second serial port and GPS models, which require the three position switch, a large capacitor will be added to prevent the glitch.

Units will also be updated with the latest EPROM (now containing KISS) while at the factory, and any battery pack fitting problems will be taken care of.

There are several ways to tell if your unit is revision 1.2:
a) there is a power switch on the 'bottom'(rear) of the unit.
b) It has an open squelch DCD board which mounts vertically just inside the bottom (rear) cover.
c) It has the second serial port option or GPS option.

Readers of this posting may opt to send their unit in now for the modifications, or wait for the recall letter. We will be trying to phase the recalls over several weeks time to limit the amount of time each unit spends at the factory.

Address any questions to the e-mail address below.
_ _
Gwyn Reedy, W1BEL   gwyn@paccomm.com   W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.   +(813) 874-2980 Fax:+(813) 872-8696
4413 N. Hesperides St.   BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA   info@paccomm.com http://www.paccomm.com

---

122. Re: [APRSSIG:6562] Eagle/KPC#/HSP Switch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 6 Feb 1996 11:50:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960206114813.22726G-100000@greatlakes>
Rendered body type: text/plain

On Mon, 5 Feb 1996, Tom & Linda MacKay wrote:

> I have an Eagle GPS, a KPC-3 and an AEA HSP SWITCH (I also have one that
> was made up for me). My APRS runs fine without the switch plugged into the
> back of the TNC. When I start APRS with the switch inline, when I check the
> unproto and it always says NONE, when I go to change it it stays at NONE
> with no digipeater path.

WB4APR REPLY COMMENT:

Donno about the UNPROTO path, but does it work otherwise? Does it give you GPS data and TNC stuff? Is the UNPROTO the only problem?

```
If your HSP is not working, you can always replace it with a SPDT switch
push button and manually press the button whenever you need a POSIT.  It
will work enough to get you going on your trip.  Set up APRS in the SPM
mode instead of HSP mode if you are going to manually siwtch....
```

---

123. Re: [APRSSIG:6570] APRS compatible WX beacons in LA area

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 6 Feb 1996 12:17:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960206121333.22726I-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 6 Feb 1996, Mark Oppenheim wrote:

> Anyway, I convinced him to send APRS-compatible WX packets, and since Sunday
> The station now reports temperature, wind speed and direction in "APRSese".
> Of course the station LOOKS like just another APRS WX station on the screen,
> and we noted that putting "!" (to denote it as "not running APRS") in the
> first character in the posit (rather than "@") did not cause the post to

WB4APR REPLY COMMENT:
Be careful about using !.  If you use !, then OMIT the TIME field.
See DIGI.txt.  APRS will NOT plot a posit of the form !******/LAT/LONG....
(although that is the way it DISPLAYS it on the P-list).  It must
be transmitted as !LAT/LONG.....
```

---

124. RE: [APRSSIG:6573] GPS-45 Help

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 6 Feb 1996 11:38:56 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960206113856.20400a87@exame2.dseg.ti.com>
Rendered body type: text/plain

```
Hi, Earl. RE: trouble with GPS 45 shutting off.

I am running a GPS-45 with a Motorola external antenna, feeding a KPC-3 TNC
and a Kenwood 2570 rig running 70 watts right now (Note: I know that's too
much for normal use, but we don't have a WIDE here yet!).

I have had no trouble with unusual operation of any of this equipment. The
Motorola GPS antenna is mounted just inside the center of the windshield on
a '94 Chevy Caprice. The transmitting antenna (5/8 wave) is located on the
forward edge of the trunk on a trunk lip mount. Distance between the
antennas is not more than 10 feet, although the two meter antenna is outside
and the GPS antenna is inside the car.

Are you sure you have a good solid power feed to everything? I have had
trouble in the past with high power rigs pulling the power feeds down, and
had to go to some trouble to make sure that didn't happen on this car.

  73, Claude
      K5DTN
```

---

125. Re: APRS at National Hurricane Warning Center

From: suggs@alumni.caltech.edu (Brian D. Suggs)
Date: Tue, 6 Feb 1996 09:49:29 -0800
To: aprssig@tapr.org
Message-ID: <199602061749.JAA19469@alumni.caltech.edu>
Rendered body type: text/plain

```
>Maybe I'm missing something here......I don't see how an Ultimeter can
>work properly on a boat. At least as far as wind *direction* is concerned.
>
>You'd have to constantly monitor your heading and constantly change the
>'correction factor' of the Ultimeter. Not very practical IMHO.
>
>Richard Amirault              N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"

Not only that, but you'd need to take in to account your speed, since that
will affect the apparent wind velocity and direction.  However, some boats,
particularly some racing sailboats, already have a setup to do exactly that!

... from knowledge gained as occasional rail-meat aboard "Deception", a
Santa Cruz 50 out of Marina Del Rey, CA before it was sold.  :-(

Brian Suggs AC6GV
```

126. Re: [APRSSIG:6574] Re: VHF APRS MOBILE EVENT AZ, UT, ID, MT, WA

```
From: Scott Miller <scottm@sierra.net>
Date: Tue, 06 Feb 1996 11:06:18 -0800
To: aprssig@tapr.org
Cc: healy@sierra.net, rwilkins@uhf.org
Message-ID: <3117A6AA.7238@sierra.net>
Rendered body type: text/plain
```

```
dwetzel@uswest.com wrote:
>
> Aloha Y'all. Dave here in Hawaii, where our record low temps (upper 50
> degress plus) have not broken water pipes, cut electric lines, or caused us
> to slide off the road (an unpaid advertisement from the Dept of Hawaii
> Tourism Bureau).
>
> During the upcoming couple of weeks, Feb 12-29, I'll be APRS/GPS mobile in
> and around the following cities as I drive my car from Arizona to Washington
> state:  Tucson, Phoenix, Flagstaff, Salt Lake City, Pocatello, Butte,
> Missoula, Coeur d'Alene, Spokane, Seattle, and Tacoma.
>
> If you live nearby any of the above cities, please send email and tell me
> your APRS frequency and digi ID.
>
> ------------------------
>
> Dave, Salt Lake City is operating on 145.15 (no tx/rx offset) until we get our
> 145.79 coordination.  There are a number of non-APRS stations which beacon
> positions (most of the tcp/ip group), so you should see activity all the time.
>
> The widest digi you can get to is KF7TA on Farnsworth Peak (9000'), but he's a
> TV transmitter engineer and is only at that site every other week.  Try it when
> you get within a hundred miles or so of here and see if he's up.  When up, his
> beacon has his posit, so he'll show up on APRS as a digi.
>
> KF7TA is NOT aliased, so you need to specify him disreetly.
>
> RELAY, WIDE should work within about 40 miles of SLC, there are a number of
> RELAYs, and I'm temporarily aliased as WIDE from my home qth on the weekends.
> If you let me know firm dates, I'll alert the local forces and keep my node up
> 24 hrs so the WIDE will work.
>
> We also have a 30m GATE (KB7DD) that operates on the weekends and on demand.
>
> Try these unproto paths:
>
> KF7TA, WA7SLG-14  (this one gets into my node at work, which is practically
> deaf)
>
> RELAY, WA7SLG-14
>
> RELAY, WA7SLG-14, WIDE
>
> Stations aliased as RELAY:  N7YOQ, KC7CO-2, KB7DD, KJ7HZ, AA5SL, AA7AA
>
> Station aliased as WIDE:    KC7CO-1
>
> High level Digi - no alias: KF7TA
>
> I trust this is totally obscure!
> 73!
>
> Doug
> KC7COHi Doug,Scott here in Tahoe City,Ca.
What do you have going on on 145.01?
That is the Ca.APRS Freq.and we are pushing your way.
I'm half owner of kb6jc-3 on donner summit.
and more digi's are on the way.
Hope to hear from you soon
Scott
```

---

127. Dayton

```
From: Dave Kaplan <dkaplan@pionet.net>
Date: Tue, 6 Feb 1996 14:10:07 -0600
To: aprssig@tapr.org
Message-ID: <9602062010.AA27138@ELWOOD.pionet.net>
Rendered body type: text/plain
```

```
OK Bob and Bros. Sproul, it's getting to be that time again.  For those of
us who want to start planning our trip to Dayton this year, have any of you
been scheduled to speak at any of the forums.  If so, you you know what time
and date.  Inquiring minds what to know!

Dave
```

---

128. Re: [APRSSIG:6579] Re: APRS compatible WX beacons in LA area

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 6 Feb 1996 12:36:34 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602062036.MAA20433@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
At 11:33 AM 2/6/96 -0600, Bob Bruninga wrote:
>On Tue, 6 Feb 1996, Mark Oppenheim wrote:

>WB4APR REPLY COMMENT:
>Be careful about using !.  If you use !, then OMIT the TIME field.
>See DIGI.txt.  APRS will NOT plot a posit of the form !******/LAT/LONG....
>(although that is the way it DISPLAYS it on the P-list).  It must
>be transmitted as !LAT/LONG.....
>

OK, that's what we did.  We'll remove those *****

Thanks!

Mark
```

---

129. Re: [APRSSIG:6583] Dayton

From: sproul@ap.org (Mark Sproul)
Date: Tue, 6 Feb 1996 15:48:02 -0500
To: aprssig@tapr.org
Cc: dkaplan@pionet.net
Message-ID: <v0213050cad3d6ea52628@[165.1.27.20]>
Rendered body type: text/plain

```
>OK Bob and Bros. Sproul, it's getting to be that time again.  For those of
>us who want to start planning our trip to Dayton this year, have any of you
>been scheduled to speak at any of the forums.  If so, you you know what time
>and date.  Inquiring minds what to know!
>
>Dave


We sure hope so, we have put in a request, but have not gotten any
confirmations yet.  I am sure that we will have it, there request form
states that the confimations wont be sent until at least March.

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
__________________________________________________________________________
```

---

130. Re: [APRSSIG:6573] GPS-45 Help

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 6 Feb 1996 12:51:19 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602062051.MAA20970@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
At 09:49 AM 2/6/96 -0600, W4NBC@aol.com wrote:
>I am using the Garmin GPS-45 with external antenna, AEA PK-12, and 30-watt
>rig as a stand alone tracking in my mobile. I find that the GPS-45 shuts off,
>I believe from RF from the 2-meter rig. I've had to seperate the two antennas
>by about 8-feet to eliminate the problem. Would prefer both antennas on the
>roof of the pickup truck. Anyone with similar problem?
>Earl W4NBC   E-mail w4nbc@aol.com
>

Is it possible that the Garmin is turning off by itself, and not due to RFI?

>From the "Operation Setup" menu, select mode "Normal" - - not "Battery
```

```
Save".  Battery Save will turn off the GPS unit if it cannot locate
satellites in a pre-defined time interval.   This may also apply if you LOSE
satellites for a period of time.

GPS antennas should rarely, if ever be placed in the proximity of a radio
running such high power, without some RF bandpassing.  I have seen this
destroy some ACTIVE GPS antennas.

In the same vein, I just ran across a antenna catalog from Dorne and
Margolin in Bohemia, NY (516-585-4000 and 516-585-4810 FAX) that manufacture
some combination Cellular/GPS antennas, if anyone's interested.  Since
cellphones transmit with less than 4 watts of power (and they use a internal
or external diplexers), this should not be a problem.

These antennas won't be cheap, however.

Mark
KD6KQ
```

---

131. Garmin GPS 45

From: Richard Fitzgerald <eusrdf@exu.ericsson.se>
Date: Tue, 6 Feb 1996 15:15:55 -0600
To: aprssig@tapr.org
Message-ID: <199602062115.PAA02890@b03c14.exu.ericsson.se>
Rendered body type: text/plain

```
Just received my latest West Marine sales flyer.  They are selling the Garmin GPS 45 for $288.46 from
February 8-18 ONLY.  This part number is 261000.  They can be reached at 800 538-0775.
Richard Fitzgerald
WA5UTF
```

---

132. PPRS program by paccomm

From: lu1bsn@ea4rct.clubs.etsit.upm.es
Date: Tue, 06 Feb 96 22:16:52 GMT
To: aprssig@tapr.org
Message-ID: <3179@ea4rct.clubs.etsit.upm.es>
Rendered body type: text/plain

```
----- Forwarded message -----



Does anyone used the PPRS program by paccomm??.I heard that it is symilar to
aprs but in a commercial way and it use the same kind of format than aprs.map
If you have any info about it please let me know

Marcelo Barnatan lu1bsn/ea
e-mail is lu1bsn@ea4rct.clubs.etsit.upm.es     Spain
73

----- End of forwarded message -----
```

---

133. WinAPRS Beta

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 6 Feb 1996 21:57:23 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960206215214.10425A@pinegov>
Rendered body type: text/plain

```
I can't believe what I am reading here....the Bros. Sproul have done
EXCELLENT WORK both in programming and PR regards the WinAPRS program.

Without them, there would be NO WINAPRS, period, exclamation point!

And, $60 is a great price for windows software, especially graphics
intensive software...have you looked at retail software prices lately....

They could sell the rights to a software house that would then charge
double the price....

I, for one, am waiting patiently for a version that works with Win 3.11...

and I am sure that will come with time...and I will gladly pay for it
when it does....

Remember...the more you bother Mark and Keith...the less time they have
to write and debug the code....
```

```
de KD4UYR
```

---

134. Re: GPS

From: Willson Flor <willf@rrgroup.com>
Date: Tue, 6 Feb 1996 16:40:02 -0600
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3960206164002BD004B00@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
You wrote:
----------
From:   ke4eer@airnet.net[SMTP:ke4eer@airnet.net]
Sent:   Monday, February 05, 1996 11:09 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:6569] GPS

·       I posted this once before but didn't see much response. Has anyone did any
·       research or own a  GPS31 TrakPak (tm) GPS receiver. Looks like a great unit
·       for a standalone tracker since it's only 2.23"x3.8"x1.04" and is totally sealed
·       in a waterproof housing. Includes receiver antenna (Tracks 8 satellites) it has
·       an 8 conductor cable coming out of it for tha data output of Pos,Spd,Time,
·       Receiver and Satellite status. NMEA 0183,RS-232 RTCM-104 inputs. And the
·       best part is that West marine has them for $230 i believe.

The GPS31 is basically a GPS45 without the display or user interface.  The GPS
engine, according to Garmin, is exactly the same as in the 45 and 40, although
disassembly of a 45 or 40 shows that the RF boards are in fact different; most of
the chips are the same, though.  The advantage of aTrakPak over a 45 or 40 is
lower cost plus it automatically comes on when power is applied; a 45 or 40 does
require someone to push the "on" button.  The disadvantage is, of course, that it
has no display or user interface - no moving map, no track history, no waypoints,
etc.  Of course, if you're making a dedicated tracker, you don't really need all that
stuff anyway.  BTW, Garmin also makes a 12-channel TrakPak with vastly
improved performance over any of their handheld units.

-Will Flor KB9JTT
Waukesha County, Milwaukee area, Wisconsin USA
```

---

135. Re: WX reports and the TSPC

From: Willson Flor <willf@rrgroup.com>
Date: Tue, 6 Feb 1996 16:55:19 -0600
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3960206165519BE004B00@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
You wrote:
----------
From:   Kevin Heyboer[SMTP:kheyboer@pinegov.co.pinellas.fl.us]
Sent:   Tuesday, February 06, 1996 6:27 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:6571] WX reports and the TSPC

·       For instance, it is correct that an Ultimeter would not be an accurate
·       wind guage on a moving vessel...however, software could be used to
·       compare GPS data of speed and movement against the weather data to
·       extrapolate the true winds speed and direction....
·

As long as you kept weigh, this might work; however when your vessel slowed
to, say, <5 kts the data would be worthless due to the GPS's inability to
accurately measure speed and direction at low speeds, due to inherent
errors and SA.  As far as *direction* goes, get a digital compass (solid-state,
digital output - available and cheap) and use it's output to correct for wind
direction.  This could be done automatically with a cheap microcontroller
like a Basic Stamp, for example. It could input and output NMEA data,
outputting exactly what it inputs - *except* course/heading.
I'm still thinking about the windspeed problem.

·       Or, a more simple solution....the captain of the boat enters the WX
·       manually after computing the above information himself....
·

That's a fine way to do it, too.

·       Thanks for your time.
·
·       de Kevin Heyboer KD4UYR
·       Coordinator Pinellas SKYWARN
·       West Central Florida APRS GATEway
```

- Seminole, Florida

-Will Flor KB9JTT
Waukesha County, Milwaukee area, Wisconsin USA
Member, Milwaukee/Waukesha ARES/RACES
SKYWARN Severe Weather Spotter

---

136. HELP

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Tue, 6 Feb 1996 19:02:20 -0500
To: "'APRS SIG'" <aprssig@tapr.org>
Message-ID: <01BAF4C5.BE25E880@port-7-12.access.one.net>
Rendered body type: text/plain

At the risk of asking about something that's already been covered................

We had record low temperatures here in Ohio during the past few days. During the period, I noticed my U-2000 showed the temp with a (-) so I knew it was "below zero". My APRS, though, sent it out as a positive value.....so a temperature of -5 became 5 degrees!

Is this a known bug? Or do I have to do something to correct the situation?

Thanks for your help.

Bob
N8NGA

---

137. Re: [APRSSIG:6570] APRS compatible WX beacons in LA area

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 06 Feb 1996 15:32:30 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"mark@tetherless.com" <mark@tetherless.com> (Return requested)
Message-ID: <00C803117E50E136*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

I suspect that if you compare the amount of traffic on 146.745 to the 145.79 freq you'd find a heck of a lot more traffic on .79. There's a huge San Diego group, a bunch of mobiles, folks in northern SD County and Orange, out in the Inland Empire and a cluster of 5-7 guys in LA's South Bay. Then there's 5 or so up in the SG and SF valleys, and more seem to be appearing every day. We have a full time 30m gate courtesy of the SD guys and two WIDES. There's a fair amount of message traffic going on, a bunch of WinAPRS betas, and we'd love to have a full time wx station. I'm very familiar with Bill's since his has always worked well and has been around since the dawn of packet. Have him come up there and run WIDE,WIDE,GATE!

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6570] APRS compatible WX beacons in LA area
Author: mark@tetherless.com at Internet
Date: 2/6/96 8:20 AM

Bill, KB6CYS has been running real-time WX information on 145.010 in the Los Angeles area for approximately 10 years. He was written up in a TAPR PSR and QST as the first amateur to couple a WX station to a TNC and make this data available to the public.

His station consists of a ORIGINAL Heathkit WX computer, with it's "wierd" TTL parallel data interface. This is interfaced to a (don't laugh) Apple][computer and a IBM PC - the Apple doing all of the interface and dialog with the WX station, and the PC handling TNC/connect duties (well, it USED to be a PAIR of Apples!).

Anyway, I convinced him to send APRS-compatible WX packets, and since Sunday night, that's a reality (it's just too bad that most of the APRS activity in the LA basin is on the 146.745 duplex repeater, and not on 145.010!). The station now reports temperature, wind speed and direction in "APRSese". Soon, he'll add the rain reporting function - however, since this is "rain per hour" not a 24 hour cumulative total, this is a bit tricky (Bob, this may be a thinly veiled request for advice on how to handle this...) but, the bottom line is, it works!

Of course the station LOOKS like just another APRS WX station on the screen, and we noted that putting "!" (to denote it as "not running APRS") in the first character in the posit (rather than "@") did not cause the post to

```
occur.  Some stations may THINK it's an APRS station and try to send APRS
messages to it, or send it WX queries (well, I have him working on the
latter one also...), and of course, it won't respond.

So...

1. Should there be (or is there) a symbol for non-APRS WX reporting stations?
2. Should we worry about this?

PS- - If there's someone in the LA Basin with a KPC4 (VHF-VHF) that would
like to digipeat Bills packets to the input of the full duplex macine, I'm
sure that Bill would give you his blessing and cooperation!

Mark
KD6KQ
```

---

138. Re: [APRSSIG:6575] Re: WX reports and the TSPC

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 6 Feb 1996 19:43:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960206193651.4460A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
> >I find it very interesting that instead of making suggestions on a method
> >of accurately providing weather info to the TSPC via APRS, certain
> >members of this sig point out the technical impossibility of getting
> >automated reports from moving vessels....

I never said "impossible" only "impractical".

> I get the
> distinct impression (I have no records) monitoring boat activity on APRS
> that 99% ? of the marine activity shown is from recreational vessels at rest.
>   Given my observations of recreational vessels in the flesh and monitored
> APRS activity, the argument based on incorrect data from moving vessels
> carries little weight, with me.

If you are moored at a dock, little problem. But if you are anchored
isn't the vessel free to rotate around the anchor point with the
current/wind?

Besides, it was my impression that the original request for more marine
APRS WX was for reports where there is no one else to report (ie. moving
vessel that is underway)

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

139. Re: [APRSSIG:6581] Re: APRS at National Hurricane Warning Cente

From: "Earl Boatman KB0NRK" <eboatman@mail.phoenix.net>
Date: Tue, 6 Feb 1996 18:51:16 +0000
To: aprssig@tapr.org
Message-ID: <199602070050.SAA06754@mail.phoenix.net>
Rendered body type: text/plain

```
> Date:          Tue, 6 Feb 1996 11:59:07 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          suggs@alumni.caltech.edu (Brian D. Suggs)
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:6581] Re: APRS at National Hurricane Warning Center

> >Maybe I'm missing something here......I don't see how an Ultimeter can
> >work properly on a boat. At least as far as wind *direction* is concerned.
> >
> >You'd have to constantly monitor your heading and constantly change the
> >'correction factor' of the Ultimeter. Not very practical IMHO.
> >
> >Richard Amirault              N1JDU            Boston, Massachusetts USA
> >amirault@tiac.net        "Go Fly A Kite"
>
> Not only that, but you'd need to take in to account your speed, since that
> will affect the apparent wind velocity and direction.  However, some boats,
> particularly some racing sailboats, already have a setup to do exactly that!
>
> .. from knowledge gained as occasional rail-meat aboard "Deception", a
> Santa Cruz 50 out of Marina Del Rey, CA before it was sold.  :-(
>
> Brian Suggs AC6GV
>
```

```
>
I have sailed now for 23 years.  12 years on sailing ships
(97'-90Tonns to 378'-2500Tonns) and they always keep track of speed
and dir.  And now with GPS it is much easier than ever before.



______________________________________________________
Earl A. Boatman KB0NRK
eboatman@phoenix.net
1414 winnie
Galveston, TX, 77550
(409) 762-2098
______________________________________________________
```

---

140. Re: [APRSSIG:6573] GPS-45 Help

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 06 Feb 1996 10:02:38 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <04FDE311797BE039*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
As I said earlier about the GPS 45 (but holds true for other consumer
     GPS units I've played with):

     5) Receiver (or LNA in antenna) can get swamped by HF transmitter, VHF
     transmitter, UHF and SHF transmitters.  Can't transmit too long (20-30
     sec continuous) on 2m (45W) or 7 or 14 MHz (100W max) without losing
     satellites.  GPS antenna is hood of truck (Suburban), right side,
     forward of windshield abt 8", all VHF/UHF/SHF antennas on roof, HF
     antenna at rear left bumper of truck.

     73 - Jon NW6H


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6573] GPS-45 Help
Author:  W4NBC@aol.com at Internet
Date:    2/6/96 8:28 AM


I am using the Garmin GPS-45 with external antenna, AEA PK-12, and 30-watt
rig as a stand alone tracking in my mobile. I find that the GPS-45 shuts off,
I believe from RF from the 2-meter rig. I've had to seperate the two antennas
by about 8-feet to eliminate the problem. Would prefer both antennas on the
roof of the pickup truck. Anyone with similar problem?
Earl W4NBC   E-mail w4nbc@aol.com
```

---

141. Re: [APRSSIG:6582] Re: VHF APRS MOBILE EVENT AZ, UT, ID, MT, WA

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Tue, 6 Feb 1996 20:09:43 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960206195856.26877C-100000@ccnet3>
Rendered body type: text/plain

```
On Tue, 6 Feb 1996, Scott Miller wrote:

> Content-Transfer-Encoding: 7bit
>
> <BASE HREF="http://www.ccnet.com/~rwilkens/">
>
> <H1>Error 403</H1>
>
> Forbidden - bad user directory

Try   http://www.ccnet.com/~rwilkins/

General APRS is at              http://www.ccnet.com/~rwilkins/aprs.html
Northern California APRS is at  http://www.ccnet.com/~rwilkins/aprsinfo.html

There are pointers to all the various flavors of the APRS programs.

The cAVe group has many interesting pointers for the Vhf amateurs, nation
wide as well as packet band plans and coordination for California.

Bob    n6fri

     Bob Wilkins                     home    n6fri@uhf.org
 Berkeley, California                work    bwilkins@cave.org
```

```
     94712-2354                      play    n6fri@n0ary.#nocal.ca.usa.noam
```

142. Re: [APRSSIG:6568] Re: APRS at National Hurricane Warning Center

From: acephotog@emi.net (Daniel L. Conklin)
Date: Tue, 6 Feb 1996 23:37:35 -0400
To: aprssig@tapr.org
Message-ID: <199602070440.XAA25196@athens.emi.net>
Rendered body type: text/plain

```
>>>
>>(snip)
>>> >
>>> > It was up and running for all to see.  Tour guide explained ARPS (sic.) to
>>> > us and explained all about how they wished that all the Ham boaters would
>>> > put Ultimeters on their boats and run the program.
>>
>>Maybe I'm missing something here......I don't see how an Ultimeter can
>>work properly on a boat. At least as far as wind *direction* is concerned.
>>
actually, they are quite useful on sailboats and indicate "relative" wind
direction, which is what's important to keep the sails full.

>>You'd have to constantly monitor your heading and constantly change the
>>'correction factor' of the Ultimeter. Not very practical IMHO.
>>
>>Richard Amirault              N1JDU           Boston, Massachusetts USA
>>amirault@tiac.net        "Go Fly A Kite"
>>
>>
>Yes and how about the rain guage, would have to be mounted on a Gymbal
>or something to keep it level all the time. In any case it would not be very
>accurate Hummmm.
>
>Bill KE4EER

Dan Conklin
acephotog@emi.net
WB2IZP (ham radio)
```

---

143. Re:GPS-45 Help

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 6 Feb 1996 23:46:09 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ad3d58b19e6a@[199.1.154.133]>
Rendered body type: text/plain

```
>I am using the Garmin GPS-45 with external antenna, AEA PK-12, and 30-watt
>rig as a stand alone tracking in my mobile. I find that the GPS-45 shuts off,
>I believe from RF from the 2-meter rig. I've had to seperate the two antennas
>by about 8-feet to eliminate the problem. Would prefer both antennas on the
>roof of the pickup truck. Anyone with similar problem?
>Earl W4NBC   E-mail w4nbc@aol.com

I have seen RF START the Garmin-45 but never shut if off,
but I have seen the unit turn it self off when I have parked in a garage
or car port and there was no GPS coverage for a long time. The shutdown
has a 3-4 sec countdown timer,hard to see how a pulse would stop it.

Low power or an intermittent short in the internal or external GPS antenna
would shut it down faster. ( don't slam the car door on a active
Garmin GPS antenna coax)

I was using a 8 watt HT and a rubber duck antenna next to the Garmin
unit when the RF turned it on. I have had no problem with a external
car antenna and a 30-35 Watt brick.

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

144. Re: [APRSSIG:6554] Re: Wx Reporting errors

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 07 Feb 96 08:05:31 EST
To: aprssig@tapr.org
Message-ID: <199602071305.IAA16281@gold.interlog.com>
Rendered body type: text/plain

```
On Mon, 5 Feb 1996 10:32:19 -0600 (CST) you wrote:

>On Sun, 4 Feb 1996, Mike Walker wrote:
```

>
>> We have had a gate up and running for some time here in Toronto and Southern
>> Ontario, but at least 50% of the wx spots that come in over the 30m net are
>> corrupted.
>
>WB4APR REPLY COMMENT: Nothing on packet can be CORRUPTED unless someone,
>somewhere has PASSALL ON. There is nothing worse in the entire universe
>of APRS than a digi or gate with PASSALL ON.
>
>Everyone should persue with extreme dilligence to eradicate any TNC with
>PASALL ON, hihi. WIth generic callsigns, it is extremely difficult to
>locate, but wrecks APRS data over many states... hi hi.. GOOD LUCK!
>
>
>
>
Hi Bob,
I checked my passall, and it is off.

Here is what I see on the screen

```
KE2VW   U20: R MPH OTE f   (when I press the N key)
```

when I check the P list I see:

```
!******/4238.76N/07834.88W_U2000 REMOTE Weather
```

and

```
AA2AC-2  REM:e MPH St F
!******/4259.21N/07839.48W_Remote WX STN Clarence NY
```

What do you look for in the string to vailidate the report as a weather report,
and not to confuse it as a position report?

These are just 2 local weather stations. I checked with the local mac users,
and he sees the wx from theses stations correctly.

Many thanks in advance...mike

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

145. RE: GPS-45 Help

From: Randy Hammock <hammock@tis.telos.com>
Date: Wed, 7 Feb 1996 08:27:01 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SOL.3.91.960207082321.8181B-100000@zentropa>
Rendered body type: text/plain

On Tue, 6 Feb 1996, Claude 995-5040 pager 4541 wrote:

> Are you sure you have a good solid power feed to everything? I have had
> trouble in the past with high power rigs pulling the power feeds down, and
> had to go to some trouble to make sure that didn't happen on this car.

This is important. Also, makesure the GPS-45 has good batteries
installed. It will do a powersave shut-down if the batteries are low,
even if it is plugged into an external source.

--
Randy Hammock KC6HUR | Randy.Hammock@Telos.com
Telos Information Systems - EDOS | hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904
Greenbelt, Maryland 20770 | FAX: +1 301 507-5892

146. RE: GPS-45 Help

From: Randy Hammock <hammock@tis.telos.com>
Date: Wed, 7 Feb 1996 10:12:56 -0500 (EST)
To: APRSSIG <aprssig@tapr.org>
Message-ID: <Pine.SOL.3.91.960207100620.8501A-100000@zentropa>
Rendered body type: text/plain

On Wed, 7 Feb 1996, Randy Hammock wrote:

> This is important. Also, makesure the GPS-45 has good batteries
> installed. It will do a powersave shut-down if the batteries are low,

> even if it is plugged into an external source.

I forgot to mention in my original post, the GPS-45 will do the powersave shut-down even though it is configured for NORMAL operation, should the batteries be low, regardless of the state of the external power connection.

```
--
Randy Hammock KC6HUR                    |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS        |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400   |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770               |     FAX: +1 301 507-5892
```

---

147. Re: [APRSSIG:6600] Re: Wx Reporting errors

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 7 Feb 1996 11:26:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960207112058.8095D-100000@greatlakes>
Rendered body type: text/plain

On Wed, 7 Feb 1996, Mike Walker had noticed "garbled WX data"....

```
> I checked my passall, and it is off.  Here is what I see on the screen
>
> KE2VW   U20: R MPH OTE f   (when I press the N key)
>
> !******/4238.76N/07834.88W_U2000 REMOTE Weather       (on the P-LIST)
> !******/4259.21N/07839.48W_Remote WX STN Clarence NY
```

WB4APR REPLY COMMENT: The N key shows you the data from all weather stations. IN this case, those WX stations are not sending WX, therefore the N key is showing you that they have no current WX. I just never got around to adding additional code to say "this is not WX, so ignore it..." Maybe if I have room in a future WX only version...

---

148. MAPFIX DIGITIZER bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 7 Feb 1996 11:42:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960207113659.9559A-100000@greatlakes>
Rendered body type: text/plain

I have been using MAPFIX versions for some time on a big digitizer with 4 buttons. It also worked on my little 11 inch one too with just a pen.

BUT last night I went back to the PEN board and it did NOT work. Apparently a change I made back in MAPFIX17 to add more functions for the 4 button digitizer screwed it up for my PEN tablet. Seems my pen puts out a KEY1 instead of a Key0 when it digitizes a point. So MAPFIX17 onward does not ADD a point, but begins a new RED ROAD!

It is now fixed in MAPFIX20 which will be released in a few days... No one had complained, but if you tried a one button digitizer and it didnt work this way, then you can try it again with MAPFIX20...

---

149. Re: [APRSSIG:6586] Re: GPS-45 Help

From: Mike Musick <71301.3106@compuserve.com>
Date: 07 Feb 96 11:48:43 EST
To: <aprssig@tapr.org>
Message-ID: <960207164842_71301.3106_FHJ66-1@CompuServe.COM>
Rendered body type: text/plain

Earl noted:

>I find that the GPS-45 shuts off, I believe from RF from the 2-meter rig.

The battery save mode may be a problem if you turn it on and start moving before you get satellite lock. I've found that the GPS-45 takes much longer than some other GPS's to acquire a good lock while moving, especially if the route during startup has intermittent views due to tree canopy or frequent overpasses.

If you've eliminated the battery save mode and an intermittent in the antenna lead, you might want to check the quality of your ground plane connection on your 2m antenna. A frequent source of RF-related headaches (like messing with car electronics) is not having direct ground contact at the base of the antenna, such as would be the case with a mag-mount or a glass-mount antenna. It creates strong RF fields in places you don't want 'em.

```
I have a GPS-45 with Garmin's "hockey puck" external, which I've modified into
an permanent antenna on the roof of my truck. It is less than 1 foot away from
a 6m antenna, and within 3 feet of antennas on 2m, 220, 440, and 1.2GHz. Even
50W (10W on 1.2G) on any of these bands has yet to cause problems with the GPS.

*My* biggest problem with the GPS is the RFI *it* creates! :-)  147.315 is
unusable when the GPS is on.

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.4h on an HP200LX palmtop
```

---

150. RE: [APRSSIG:6598] Re: APRS at National Hurricane Warning Center

From: Willson Flor <willf@rrgroup.com>
Date: Wed, 7 Feb 1996 11:14:20 -0600
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3960207111420CB004B00@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
You wrote:
----------
From:   acephotog@emi.net[SMTP:acephotog@emi.net]
Sent:   Tuesday, February 06, 1996 10:52 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:6598] Re: APRS at National Hurricane Warning Center

>>Maybe I'm missing something here......I don't see how an Ultimeter can
>>work properly on a boat. At least as far as wind *direction* is concerned.
>>
actually, they are quite useful on sailboats and indicate "relative" wind
direction, which is what's important to keep the sails full.

Yes, but *absolute* wind direction is what NHWC wants, since they
don't care which way your craft is heading.  For local use, relative
wind vector is what you want - but *not* on APRS!  I think that's
what the person you responded to meant.


·       Dan Conklin
·       acephotog@emi.net
·       WB2IZP (ham radio)
·


-Will Flor
willf@rrgroup.com
Waukesha County, Milwaukee area, Wisconsin USA
```

---

151. Re: [APRSSIG:6602] RE: GPS-45 Help

From: mark@tetherless.com (Mark Oppenheim)
Date: Wed, 7 Feb 1996 10:25:27 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602071825.KAA18447@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
At 09:12 AM 2/7/96 -0600, Randy Hammock wrote:

>I forgot to mention in my original post, the GPS-45 will do the powersave
>shut-down even though it is configured for NORMAL operation, should the
>batteries be low, regardless of the state of the external power
>connection.


I have two Garmin 45's.  Both with version 2.32 firmware.  Neither one shuts
down during external DC operation, and I've had them on for over 7 hours at
a time.  I run the NORMAL (not Battrey Save) mode, and have set BACKLIGHT
TIME to 0, so that it stays on - which should not affect the shutdown time.

I have had the batteries down to 1/16" on the battery meter - and when
externally powered under this condition, it still stayed on... only beeping
madly if I turned off the ignition, and disrupting power to the unit.

Outside of that, perhaps it COULD BE RF getting into the unit, or a power
supply problem (noise).

... strange.
```

Mark

---

152. Re: [APRSSIG:6600] Re: Wx Reporting errors

From: rkramer@cdx.net (Ronald Kramer)
Date: Wed, 07 Feb 1996 18:27:31 GMT
To: aprssig@tapr.org
Message-ID: <3118eeba.434660@mail.cdx.net>
Rendered body type: text/plain

```
On Wed, 7 Feb 1996 07:07:20 -0600 (CST), you wrote:

>On Mon, 5 Feb 1996 10:32:19 -0600 (CST) you wrote:
>
>>On Sun, 4 Feb 1996, Mike Walker wrote:
>>
>>> We have had a gate up and running for some time here in Toronto and Southern
>>> Ontario, but at least 50% of the wx spots that come in over the 30m net are
>>> corrupted.
>>
>>WB4APR REPLY COMMENT:  Nothing on packet can be CORRUPTED unless someone,
>>somewhere has PASSALL ON.  There is nothing worse in the entire universe
>>of APRS than a digi or gate with PASSALL ON.
>>
>>Everyone should persue with extreme dilligence to eradicate any TNC with
>>PASALL ON, hihi.  WIth generic callsigns, it is extremely difficult to
>>locate, but wrecks APRS data over many states... hi hi..  GOOD LUCK!
>>
>>
>>
>>
>Hi Bob,
>I checked my passall, and it is off.
>
>Here is what I see on the screen
>
>KE2VW   U20: R MPH OTE f   (when I press the N key)
>
>when I check the P list I see:
>
>!******/4238.76N/07834.88W_U2000 REMOTE Weather
>
>and
>
>AA2AC-2  REM:e MPH St F
>!******/4259.21N/07839.48W_Remote WX STN Clarence NY
>
>What do you look for in the string to vailidate the report as a weather report,
>and not to confuse it as a position report?
>
>These are just 2 local weather stations.  I checked with the local mac users,
>and he sees the wx from theses stations correctly.
>
>Many thanks in advance...mike

>
>Mike Walker                               mwalker@interlog.com
>127 High St. W.                              rf:  va3mw@va3bbs
>Mississauga, ON
>L5H 1K4
>
Just a footnote    both aa2ac-2 and ke2vw-? are running uii with
paccomm tiny-2 in standalone mode..

Regards, Ron ...                            73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

153. Re: [APRSSIG:6604] MAPFIX DIGITIZER bug

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 7 Feb 1996 13:14:35 -0600
To: aprssig@tapr.org
Message-ID: <199602071914.NAA08082@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Could this have affected mouse operations, too?  WA9FFL and I both have lost
mouse action with MAPFIX.  I had MAPFIX 16 and 18.

It works fine with APRS, tho.
```

I thot it was coincidental with upgrading to WIN95. All other DOS mouse applications work fine.

jbl

>I have been using MAPFIX versions for some time on a big digitizer with 4
>buttons. It also worked on my little 11 inch one too with just a pen.
>
>BUT last night I went back to the PEN board and it did NOT work.
>Apparently a change I made back in MAPFIX17 to add more functions for the
>4 button digitizer screwed it up for my PEN tablet. Seems my pen puts out
>a KEY1 instead of a Key0 when it digitizes a point. So MAPFIX17 onward
>does not ADD a point, but begins a new RED ROAD!
>
>It is now fixed in MAPFIX20 which will be released in a few days... No one
>had complained, but if you tried a one button digitizer and it didnt work
>this way, then you can try it again with MAPFIX20...
>
>
>
>

N9VJQ/jbleonard's Home Page
http://tbcnet.com/~jleonard/n9vjq.htm

J Barry Leonard
DeKalb IL
E-MAIL: jleonard@tbcnet.com

154. W7LUS HF mobile

From: Peter Gross <w7lus@internetMCI.COM>
Date: Wed, 07 Feb 1996 16:09:56 -0500
To: vhf/hf <aprssig@tapr.org>
Message-ID: <01I0XROMEW0Y95W6M6@MAIL-CLUSTER.PCY.MCI.NET>
Rendered body type: text/plain

-- [From: Peter Gross * EMC.Ver #2.3] --

Finally got the hf installed. Not sure if is the final installation, however. I put the "Hamstick" antenna on the front - side of the plastic bumper of the truck. Then I ran a small sized ground strap to a bolt that holds a bracket for the alternator onto the block. I scraped the paint but really need a star washer. I think I'll try to find a bolt hole that I can dedicate for the ground. I see one about 5 inches away. The strap is about 6 feet long. I am telling you these details to see if anyone has any suggestions for changes. The feed line is mini 8X and is about 30 feet long.

The Zenith 386-16sx puts out plenty of noise while the screen is lit. I installed some toroids from Radio Scrap on all the cables from the tnc at the tnc. It helped some, actually quite a bit but not good enough. Noise at its lowest is about S-5. High beams and turn signals got to S-9. The truck is computerized, when I turn off or start the truck I first turn off the radio. Then when I turn it on I can watch the S meter start at S-9 or more and within about 15 seconds go down to its low point. I guess the truck computer needs time to do its thing staring and stopping. Haven't tried the windshield wipers yet. But my concern it getting out to you all which probably isn't affected very much or at all with these other noises. I'll try to listen to my signal before I leave here at the house but I haven't much time, so if you see me then try to force -14 to talk to you and see what you hear or don't hear. I just don't think
I am doing as well as I can....of course mobile at 10 mHz might not be very easy!

Any suggestions are very welcome. Send any comments to JOe kb4fo, internet address: jloewy@zim.com I talk to JOe on the LL several times a week.

As of this writing I will leave for Ga Congress Convention Center in Atlanta in the morning loading for the NJ to MA area. I am vhf and hf mobile with the GateWay on! The gateway is an experiment, hope it doesn't mess anyone up....can't wait to hit the Huntsville, Al area with it!!!

73 - Peter W7LUS

155. Re: [APRSSIG:6594] Re: WX reports and the TSPC

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 07 Feb 1996 13:59:24 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960207215924.006a6644@mail.cts.com>
Rendered body type: text/plain

```
The use of an electronic compass (Jameco sells them) would work very well
for correcting the wind direction. The wind speed could be corrected by a
pickoff from the boat speed log which are usually electronic much like the
modern automobile electric speedometer. If the boat doesn't have a speed log
then it should have for dr purposes when your fancy electronics goes
bellyup. :>)
The current should not have a major effect since the NWS is mainly
interested in weather circulation patterns not absolute speed. The 80C51
family or the Basic Stamp would be ideal for this application as both have a
serial output capability.

Barbara  KK6IB
E-Mail:  fehner@cts.com
```

156. Re: [APRSSIG:6589] WinAPRS Beta

From: schiers@ibm.net (Robert Schiers)
Date: Wed, 07 Feb 96 12:45:05
To: aprssig@tapr.org
Message-ID: <199602072302.XAA79308@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <Pine.SUN.3.91.960206215214.10425A@pinegov>, on 02/06/96 at 04:12 PM,
   Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us> said:



>Remember...the more you bother Mark and Keith...the less time they have
>to write and debug the code....

>de KD4UYR

Especially with comments that reflect a complete ignorance of the purpose
and process of beta testing, or commenting on
aspects of the program that have we have already been warned about.

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

157. Re: GPS-45 Help (147.315)

From: jack swift <jswift@up.net>
Date: Wed, 07 Feb 1996 18:03:49 -0500
To: aprssig@tapr.org
Message-ID: <9602072308.AB02089@btc1>
Rendered body type: text/plain

```
if anyone has a fix for this exact problem, i would like to hear of it.
you see, our wide-area repeater has that for the output frequency and i
don't think the club is going to be overjoyed about re-crystalling,
re-tuning, and re-coordinating just to please the three of us who bought
gps's...

At 11:13 AM EST 2/7/96 -0600, Mike Musick wrote:
>
>*My* biggest problem with the GPS is the RFI *it* creates! :-)  147.315 is
>unusable when the GPS is on.
>
>
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

158. Re: [APRSSIG:6610] W7LUS HF mobile

From: ke4eer@AIRnet.net (William Nolle)
Date: Wed, 07 Feb 1996 18:00:49
To: aprssig@tapr.org
Message-ID: <199602080003.SAA00503@foo.garply.com>
Rendered body type: text/plain

```
>-- [ From: Peter Gross * EMC.Ver #2.3 ] --
I will be looking for you Peter, and you can rest assured that my stacked
13B2's + 300W will be pointing at your gate Hi. Maybe even set your truck on
fire while i'm at it.

Bill KE4EER
------------------
>As of this writing I will leave for Ga Congress Convention Center in
>Atlanta in the morning loading for the NJ to MA area. I am vhf and hf
>mobile with the GateWay on!  The gateway is an experiment, hope it doesn't
>mess anyone up....can't wait to hit the Huntsville, Al area with it!!!
>
>73 - Peter W7LUS
>
>
```

159. New Ohio Maps

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Wed, 7 Feb 1996 19:59:56 -0500 (EST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9602071956.A10851-a100000@acme>
Rendered body type: text/plain

```
OHMAPS05.ZIP is assembled - about 120 maps - 70% of the state.
You can now travel I-75, I-71, & US 23 and have 4 mi range coverage.
I hope to have I-71 done before Dayton to give you fer-in-er's the
route in and out of our fair state.
       Could someone please snag it off my LLBBS and put it on TAPRS's
FTP site.   - Thanks.

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address:  39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
```

160. no more please!!

From: "don j a derry" <dj@cnwl.igs.net>
Date: Wed, 7 Feb 1996 21:24:23 -0500
To: aprssig@tapr.org
Message-ID: <199602080247.VAA09718@host.cnwl.igs.net>
Rendered body type: text/plain

```
Can anyone out there please tell me the proper way to unsubscribe. I
have tried various ways and continue to get mailing error msgs back.
I do not get my mail every day so there are times when over 85 msgs
are in my box,and its way more than i want to read.
             Thanks in advance
                 DJ/VA3GOG
```

161. Re: [APRSSIG:6616] no more please!!

From: Dave Booth <booth@pactitle.com>
Date: Wed, 7 Feb 1996 20:51:38 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602080451.UAA00760@adams.pactitle.com>
Rendered body type: text/plain

```
To unsubscribe from this mailing list send a message to
`listserv@tapr.org`
with the following line in the body of the message:

signoff aprssig

>
> Can anyone out there please tell me the proper way to unsubscribe. I
> have tried various ways and continue to get mailing error msgs back.
> I do not get my mail every day so there are times when over 85 msgs
> are in my box,and its way more than i want to read.
>              Thanks in advance
>                  DJ/VA3GOG
>
>
```

162. Re: [APRSSIG:6616] no more please!!

From: k1mon@mainelink.net
Date: Thu, 8 Feb 1996 00:27:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.91.960208002512.25444A-100000@mainelink.net>
Rendered body type: text/plain

Hi DJ,
I'm in the same boat, all I get is error msg's
73 George K1MON....>

---

163. Re: [APRSSIG:6603] Re: Wx Reporting errors

From: mwalker@interlog.com (Mike Walker)
Date: Thu, 08 Feb 96 08:13:42 EST
To: aprssig@tapr.org
Message-ID: <199602081313.IAA28354@gold.interlog.com>
Rendered body type: text/plain

```
On Wed, 7 Feb 1996 10:33:37 -0600 (CST) you wrote:

>On Wed, 7 Feb 1996, Mike Walker had noticed "garbled WX data"....
>
>> I checked my passall, and it is off.  Here is what I see on the screen
>>
>> KE2VW   U20: R MPH OTE f   (when I press the N key)
>>
>> !******/4238.76N/07834.88W_U2000 REMOTE Weather       (on the P-LIST)
>> !******/4259.21N/07839.48W_Remote WX STN Clarence NY
>
>WB4APR REPLY COMMENT:  The N key shows you the data from all
>weather stations.  IN this case, those WX stations are not sending WX,
>therefore the N key is showing you that they have no current WX.  I just
>never got around to adding additional code to say "this is not WX,
>so ignore it..."  Maybe if I have room in a future WX only version...
>
>
>
OK Bob, thanks for taking the time to explain it.  My concern was people were
sending wx reports that we couldn't see.  If they send a WX report and then a
Position report, do we loose the wx report?

(BTW,  I've worked in Software Support for decades, and "corrupt" is a valid
description of data being reported incorrectly, or being stored incorrectly)

Many thanks...mike

Mike Walker                               mwalker@interlog.com
127 High St. W.                               rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

164. Basics.

From: Jim Prentice WA2MZF QCWA 27911 <PRENTICE@scanva.canton.edu>
Date: Thu, 08 Feb 1996 08:31:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I0YPY8ZAO8000PIM@scanva.canton.edu>
Rendered body type: text/plain

Hello to all. I have been subscribed for a few weeks or better now and understanding somewhat what is all going on and most interested.

However wonder if someone can point me into or some others that may come on line to some basics of what all this is about vs jumping right in the middle. Lots of various comments as to what to do and why but for newcomer it can be a bit confusing. An email a few weeks back was helpfull in what to set the tnc to etc so we dont plaster various junk out. But I for one would like to have some more details.

Worked a few stations on HF but just short one liners etc. So again any information more specific would be appreciated.

Thanks.

Jim

---

165. Re: [APRSSIG:6619] Re: Wx Reporting errors

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Feb 1996 09:58:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960208093421.24617C-100000@greatlakes>
Rendered body type: text/plain

```
> On Wed, 7 Feb 1996 10:33:37 -0600 (CST) WB4APR wrote:
>
> >WB4APR REPLY COMMENT:  The N key shows you the data from all
> >weather stations.  IN this case, those WX stations are not sending WX,
> >therefore the N key is showing you that they have no current WX.  I just
> >never got around to adding additional code to say "this is not WX,
> >so ignore it..."  Maybe if I have room in a future WX only version...
> >

WB4APR REPLY COMMENT:  Actually, in recent versions, this should only
happen the FIRST time you get a BEACON POSIT from the remote WX and
BEFORE you get a WX packet.  Once you get a WX packet, it should
overwrite the the WX data into the posit, and from then on any future
BEACON POSITS from the remote TNC will NOT overwrite the P-list...

If this is NOT working correctly, then I need to fix it.  Pse confirm
what version of APRS you are using, and if you are seeing TNC WX
POSITS (BEACON) overwriting WX data on the P-LIST.

Thanks!  I was about to release a new version, but will wait...
```

---

166. RE: [APRSSIG:6608] Re: Wx Reporting errors

From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
Date: Thu, 08 Feb 96 09:06:00 PST
To: aprssig <aprssig@tapr.org>
Message-ID: <311A49A9@ubmed.buffalo.edu>
Rendered body type: text/plain

```
----------
|From: aprssig
|To: aprssig
|Subject: [APRSSIG:6608] Re: Wx Reporting errors
|Date: Wednesday, February 07, 1996 12:36PM
|
|On Wed, 7 Feb 1996 07:07:20 -0600 (CST), you wrote:
|
|>On Mon, 5 Feb 1996 10:32:19 -0600 (CST) you wrote:
|>
|>>On Sun, 4 Feb 1996, Mike Walker wrote:
|>>
|>>> We have had a gate up and running for some time here in Toronto and
|Southern
|>>> Ontario, but at least 50% of the wx spots that come in over the 30m net
|are
|>>> corrupted.
|>>
|>>WB4APR REPLY COMMENT:  Nothing on packet can be CORRUPTED unless someone,

|>>somewhere has PASSALL ON.  There is nothing worse in the entire universe
|>>of APRS than a digi or gate with PASSALL ON.
|>>
|>>Everyone should persue with extreme dilligence to eradicate any TNC with
|>>PASALL ON, hihi.  WIth generic callsigns, it is extremely difficult to
|>>locate, but wrecks APRS data over many states... hi hi..  GOOD LUCK!
|>>
|>>
|>>
|>>
|>Hi Bob,
|>I checked my passall, and it is off.
|>
|>Here is what I see on the screen
|>
|>KE2VW   U20: R MPH OTE f   (when I press the N key)
|>
|>when I check the P list I see:
|>
|>!******/4238.76N/07834.88W_U2000 REMOTE Weather
|>
|>and
|>
|>AA2AC-2  REM:e MPH St F
|>!******/4259.21N/07839.48W_Remote WX STN Clarence NY
|>
|>What do you look for in the string to vailidate the report as a weather
|report,
|>and not to confuse it as a position report?
|>
|>These are just 2 local weather stations.  I checked with the local mac
users,
|>and he sees the wx from theses stations correctly.
|>
```

```
|>Many thanks in advance...mike
|>
|>Mike Walker                              mwalker@interlog.com
|>127 High St. W.                              rf:  va3mw@va3bbs
|>Mississauga, ON
|>L5H 1K4
|>
|Just a footnote    both aa2ac-2 and ke2vw-? are running uii with
|paccomm tiny-2 in standalone mode..
|
|Regards, Ron ...                            73 de Ron
|         Internet: rkramer@cdx.net (Ron Kramer)
|         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
|
|Yes, and KE2VW is NOT broadcasting the Wx, as the U-2000 string put
everyone's APRS programs into a tizzy (I believe it was a DOS 6 error...).
Have we got a revision that will allow me the opportunity to once again
broadcast the data Bob??
73, Greg, KE2VW
```

---

167. Re: [APRSSIG:6610] W7LUS HF mobile

From: acephotog@emi.net (Daniel L. Conklin)
Date: Thu, 8 Feb 1996 11:19:34 -0400
To: aprssig@tapr.org
Message-ID: <199602081621.LAA04563@athens.emi.net>
Rendered body type: text/plain

```
>-- [ From: Peter Gross * EMC.Ver #2.3 ] --
>
>Finally got the hf installed. Not sure if is the final installation,
>however. I put the "Hamstick" antenna on the front - side of the plastic
>bumper of the truck. Then I ran a small sized ground strap to a bolt that
>holds a bracket for the alternator onto the block. I scraped the paint but
>really need a star washer. I think I'll try to find a bolt hole that I can
>dedicate for the ground. I see one about 5 inches away. The strap is about
>6 feet long. I am telling you these details to see if anyone has any
>suggestions for changes. The feed line is mini 8X and is about 30 feet
>long.
>
>The Zenith 386-16sx puts out plenty of noise while the screen is lit. I
>installed some toroids from Radio Scrap on all the cables from the tnc at
>the tnc. It helped some, actually quite a bit but not good enough. Noise at
>its lowest is about S-5. High beams and turn signals got to S-9. The truck
>is computerized, when I turn off or start the truck I first turn off the
>radio. Then when I turn it on I can watch the S meter start at S-9 or more
>and within about 15 seconds go down to its low point. I guess the truck
>computer needs time to do its thing staring and stopping. Haven't tried the
>windshield wipers yet. But my concern it getting out to you all which
>probably isn't affected very much or at all with these other noises. I'll
>try to listen to my signal before I leave here at the house but I haven't
>much time, so if you see me then try to force -14 to talk to you and see
>what you hear or don't hear. I just don't think
>I am doing as well as I can....of course mobile at 10 mHz might not be very
>easy!
>
>Any suggestions are very welcome. Send any comments to JOe kb4fo,  internet
>address: jloewy@zim.com   I talk to JOe on the LL several times a week.
>
>As of this writing I will leave for Ga Congress Convention Center in
>Atlanta in the morning loading for the NJ to MA area. I am vhf and hf
>mobile with the GateWay on!  The gateway is an experiment, hope it doesn't
>mess anyone up....can't wait to hit the Huntsville, Al area with it!!!
>
>73 - Peter W7LUS

We see you just fine down here Pete!

Dan, WB2IZP in Boca Raton, FL

Dan Conklin
acephotog@emi.net
WB2IZP (ham radio)
```

---

168. Re: [APRSSIG:6613] Re: GPS-45 Help (147.315)

From: Mike Musick <71301.3106@compuserve.com>
Date: 08 Feb 96 11:45:31 EST
To: <aprssig@tapr.org>
Message-ID: <960208164530_71301.3106_FHJ43-1@CompuServe.COM>

Rendered body type: text/plain

```
Jack Swift noted in reply:

>if anyone has a fix for this exact problem [GPS RFI on 147.315]

I certainly do wish that I had a fix, although with relatively limited input I
believe the problem with this particular frequency is probably Garmin-specific
or maybe even GPS-45 (and 40) specific. Before getting the Garmin I had a
Metrologic and didn't notice any problems in 2m, but *it* would clobber a pair
of 70cm freqs, 442.500 and (strangely enough) 447.500.

The 147.315 problem is so severe that if I leave the GPS on in the truck it
will foul my base station, too, with the antenna some 70-80 feet away.


As a group we might want to explore different brands of GPS to see if the
problem differs between makes and models. I will happily catalog any ham-band
RFI from GPS's, and if it gets to a half-dozen or so post the list here and the
FTP site; "none observed" also counts!

The *correct* procedure to examine for RFI is to turn off all other electronics
in the vicinity (esp. computers, which includes car systems!), *including the
GPS*, and then sweep the band with the receiver. An auto-scanning VFO works
well, a scanner using "search" would be faster. Note any "birdies" or other
interference present without the GPS on. Then turn the GPS on and wait for full
satellite lock. Sweep the band again, then noting any *new* frequencies that
stop the scan. For each freq on this new list, manually tune to it, and then
turn the GPS *off* and then back on. If the signal goes away and then reappears
with powering off and on, then you have a hit. I emphasize this procedure
because - from experience - it's very easy to jump to the wrong conclusions in
RFI location.
  ...mm
```

---

169. Re: [APRSSIG:6621] Re: Wx Reporting errors

From: Michael Walker <mwalker@gold.interlog.com>
Date: Thu, 8 Feb 1996 13:16:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960208131513.23453A-100000@gold.interlog.com>
Rendered body type: text/plain

```
Hi Bob,
I will check when I get home and give you feed back by this time
tomorrow.  Hopefully the gate is up and I wil have a few other stations
to look at for this error.

73...mike

-----------------------------------------------------------------------------------------
Michael Walker
mwalker@interlog.com
VA3MW

On Thu, 8 Feb 1996, Bob Bruninga wrote:

> > On Wed, 7 Feb 1996 10:33:37 -0600 (CST) WB4APR wrote:
> >
> > >WB4APR REPLY COMMENT:  The N key shows you the data from all
> > >weather stations.  IN this case, those WX stations are not sending WX,
> > >therefore the N key is showing you that they have no current WX.  I just
> > >never got around to adding additional code to say "this is not WX,
> > >so ignore it..."  Maybe if I have room in a future WX only version...
> > >
>
> WB4APR REPLY COMMENT:  Actually, in recent versions, this should only
> happen the FIRST time you get a BEACON POSIT from the remote WX and
> BEFORE you get a WX packet.  Once you get a WX packet, it should
> overwrite the the WX data into the posit, and from then on any future
> BEACON POSITS from the remote TNC will NOT overwrite the P-list...
>
> If this is NOT working correctly, then I need to fix it.  Pse confirm
> what version of APRS you are using, and if you are seeing TNC WX
> POSITS (BEACON) overwriting WX data on the P-LIST.
>
> Thanks!  I was about to release a new version, but will wait...
>
>
>
>
>
```

170. re: GPS EMI (Magellen Navigator)

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Thu, 08 Feb 96 13:27:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <311A4F33@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

Re: EMI caused by GPS receivers....

I've used a Magellen Navigator for a couple of years now when Roving, particularly in VHF contests. Learned VERY early on that it produced a birdie near 144.202 MHz. Wiped out the calling frequency. When roving, I'd check my position (to be sure I was in a new/different grid), turn it off to operate, and turn it back on when it was time to move.

Sept '94 contest I operated at home, and was plauged with a "comb" across all of 2m, 432MHz, and to a lesser extent, 222 MHz. About every 25 - 26 kHz, there was a "buzz..." shhhh--shh--shh--shhhhh, etc. I DO have a noisy local environment to begin with, and so it didn't occur to me that it was something that I was doing.

Long story short, it was the Magellen, sitting in the car, in the garage, trying to lock onto a satellite. I finally found it when I turned off EVERYTHING in the house (pulled the main breaker, and ran the FT-736 on batteries), and it was STILL there. I went to back the car out of the garage to roam around the neighborhood, and lo and behold, the GPS was on. I turned it off, and no comb noise. On, noise. Sitting in the driveway it would acquire lock, and change to one or two birdies.... No lock, and it covered AT least from 144 MHz to 440 MHz, every 25 kHz !!

I found no frequencies that it made impossible for FM, only weak signal SSB.

Donn
WA2VOI EN35ja

---

171. Timeout/timer

From: Robert Abrams <KI6MP@mci.newscorp.com>
Date: Thu, 8 Feb 1996 15:25:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602082025.PAA01167@camus.delphi.com>
Rendered body type: text/plain

>Date: Wed, 07 Feb 1996 18:28:59
>To: listserv@tapr.org
>From: Robert Abrams <KI6MP@mci.newscorp.com>

>Subject: Timeout/timer
>
>>To: aprssig@tapr.org
>>From: Robert Abrams <KI6MP@mci.newscorp.com>
>>Subject: Timeout/timer
>>
>>For Bob Bruninga:
>>
>>Is there a way to adjust or disable the timeout timer while in the connect
mode
>>
>>in the dumb terminal? If not could you address this problem for us?
>>
>>We would like to use APRS in the field for portable operation, but sending
>>
>>traffic of any length usually results in a disconnect via timeout.
>>
>>San Diego ARES is very active in the digital mode and would like to
include APRS.
>>
>>Can you help us?
>>
>>
>>
>>
>

---

172. Timeout/timer

From: Robert Abrams <KI6MP@mci.newscorp.com>
Date: Thu, 8 Feb 1996 15:28:49 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <199602082028.PAA00547@camus.delphi.com>
Rendered body type: text/plain

```
>Date: Thu, 08 Feb 1996 12:28:43
>To: aprssig@tapr.org
>From: Robert Abrams <KI6MP@mci.newscorp.com>
>Subject: Timeout/timer
>
>>Date: Wed, 07 Feb 1996 18:28:59
>>To: listserv@tapr.org
>>From: Robert Abrams <KI6MP@mci.newscorp.com>
>>Subject: Timeout/timer
>>
>>>To: aprssig@tapr.org
>>>From: Robert Abrams <KI6MP@mci.newscorp.com>
>>>Subject: Timeout/timer
>>>
>>>For Bob Bruninga:
>>>
>>>Is there a way to adjust or disable the timeout timer while in the
connect mode
>>>
>>>in the dumb terminal? If not could you address this problem for us?
>>>
>>>We would like to use APRS in the field for portable operation, but sending
>>>
>>>traffic of any length usually results in a disconnect via timeout.
>>>
>>>San Diego ARES is very active in the digital mode and would like to
include APRS.
>>>
>>>Can you help us?
>>>
>>>
>>>
>>>
>>
>
```

---

173. BETA74i.zip and U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Feb 1996 16:06:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960208155437.6189A-100000@greatlakes>
Rendered body type: text/plain

```
This beta contains fixes for the U-2000 and a new MAPFIX19 program:
This version still does not address SYSTEM lockup due to COM BUFFER
OVERFLOWS, but does address most of the other u-2000 issues:

THIS IS A BETA!  If you dont have a U-2000, there is not much need for
you to get this one...

Here is what I know about the U-2000:

1) It can send out a negative WIND DIRECTION.  Fix is to ignore the
   two high order HEX bytes
2) I fixed APRS to display negative temperatures
3) The U-2000 in PACKET mode only sends one valid wind speed/direction
   and then on it sends out 000's for wind.  This is a U-2000 problem
   if you are going to use the U-2000 in REMOTE stand-alone mode only.
4) Your TNC's must ignore all linefeeds, or APRS will not see the
   WX data.  For a stand-alone-remote, be sure the TNC LFIGNORE is
   turned ON.  For APRS receive and a KPC-3, be sure LFSup is ON.
5) To avoid waiting for 5 minutes for U-2000 packets, alternately
   swtch it between packet mode and modem mode.  Each time it enters
   packet mode, it will send one packet.  (These will always have
   good wind, but after the first 5 minutes any future ones will have
   000's.

CAUTION: MAPFIX key commands are all different!  You will have to break
old habits.  The progarm is MAPFIX19.exe but internally it already thinks
it is 20.  I will call it 19 until I release 20 in a full APRS version.
If you use MAPFIX, give it a work out.  I want to finally make it
robust and user friendly....
```

---

174. Remote WX BEACONS/POSITS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Feb 1996 16:18:27 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960208161003.6189B-100000@greatlakes>
Rendered body type: text/plain

You'all were right, It was broke, I just fixed it in 74i (I hope)

WB4APR *PREVIOUS* COMMENT: Actually, in recent versions, this should only
happen the FIRST time you get a BEACON POSIT from the remote WX and
BEFORE you get a WX packet. Once you get a WX packet, it should
overwrite the the WX data into the posit, and from then on any future
BEACON POSITS from the remote TNC will NOT overwrite the P-list...

---

175. Re: [APRSSIG:6629] BETA74i.zip and U-2000

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 08 Feb 1996 13:53:40 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"bruninga@nadn.navy.mil" <bruninga@nadn.navy.mil> (Return requested)
Message-ID: <0511C311A70E4019*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Geez! I hate betas! They're always SO buggy!

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6629] BETA74i.zip and U-2000
Author: bruninga@nadn.navy.mil at Internet
Date: 2/8/96 1:28 PM

...

THIS IS A BETA! ...

---

176. Tiny SHELL COMM program

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Feb 1996 17:28:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960208171708.7664D-100000@greatlakes>
Rendered body type: text/plain

My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
I had always hoped that someone would identify a very simple and basic
COMM program that could be run after SHELLing to DOS. Since no one has
identified such a program, maybe it is time to ask again...

Since APRS is so big, it will have to be a small DOS program.. But it
would be very valuable for APRSdos...

With such a program, a user could do a FILES-DOS to shell to DOS, run the
program and use his TNC to conect to another station, do file transfers,
etc, and then when done, EXIT back to APRS...

---

177. Re:GPS EMI (Magellen Nav 5000DX)

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 08 Feb 1996 16:46:49
To: aprssig@tapr.org
Message-ID: <199602082249.QAA18705@foo.garply.com>
Rendered body type: text/plain

I use my Magellan with an external antenna (The one that looks like a big Egg)
and it's mounted right in back of my dual band mobile antenna for my Yaesu
FT5100 (I would say maybe 10" apart. I have never noticed any EMI at all. I
use the Yaesu constantly while the GPS is running. I have also many times
run the Magellan inside when setting up a tracker, like just a few minutes ago. It
does take a while to lock on to the birds this way but it always does, but no
EMI on any of the equipment in the shack at all. But then again you all know
the old saying (You only get what you pay for), you cannot expect a $269.00
GPS to perform like a $700 unit, nor a $700 unit like a $14,000 one.

Bill KE4EER

>
>Re: EMI caused by GPS receivers....
>
>I've used a Magellen Navigator for a couple of years now when Roving,
>particularly in VHF contests. Learned VERY early on that it produced a
>birdie near 144.202 MHz. Wiped out the calling frequency. When roving, I'd

```
>check my position (to be sure I was in a new/different grid), turn it off to
>operate, and turn it back on when it was time to move.
```

---

178. Re: Tiny SHELL COMM program

From: mark@tetherless.com (Mark Oppenheim)
Date: Thu, 8 Feb 1996 16:40:11 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602090040.QAA28253@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
At 04:38 PM 2/8/96 -0600, Bob Bruninga wrote:
>My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
>I had always hoped that someone would identify a very simple and basic
>COMM program that could be run after SHELLing to DOS....

I vote for WA7MBL's YAPP 2.0 (Shareware)

You can build "startup" and "shutdown" scripts in it, it supports scroll
back buffer (and writing this buffer to disk), turn on/off printer logging,
DOS shell (which can be disabled by eliminating a *.com program that
controls this, the name of which escapes me now) and allows ASCII and YAPP
binary up/downloads etc.

It's a DOS program - 50K, plus the few text files.

Drawback: Only COM1 and COM2 (with standard IRQ's) are supported.

Mark
 KD6KQ
```

---

179. RE: [APRSSIG:6610] W7LUS HF mobile

From: jaykq4ms@nando.net
Date: Thu, 8 Feb 96 23:24:20 EST
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.960208232623.jaykq4ms@>
Rendered body type: text/plain

```
Hi Peter,
Do you travel I-95 very often? The group I'm in isgoing to put up a APRS Digi
in Lizzard Lick, NC in the near future. It'll only be up around 150 ft but we
have a better site comming up.
Let me know,,,,,........

Jay

-------------------------------------
Name:          Jerry Netterville
E-mail:        jaykq4ms@nando.net
Packet         KQ4MS@KE4YOA#.RTP.NC.USA.NOAM
Grid:          FM05qt
Amateur Call:  KQ4MS
               Raleigh, NC
This message was sent by Chameleon
-------------------------------------
23:24:20    02/08/96
```

---

180. 6mtr

From: steve@muskoka.com (Steve Dubois)
Date: Thu, 08 Feb 1996 23:28:46 -0500
To: aprssig@tapr.org
Message-ID: <199602090441.XAA27777@gold.muskoka.com>
Rendered body type: text/plain

```
Greetings from the Great White North..

For anyone interested I am running Aprs via 6mtr on freq.
50.620. Have set beacon to relay and will be looking for anyone else who is
doing the same.

73............de Steve VA3HOI (FN05)
```

---

181. SA Status

From: fehner@cts.com (Barbara Fehner)
Date: Fri, 09 Feb 1996 03:32:08 GMT
To: aprssig@tapr.org
Message-ID: <311ab964.85320816@smtp.cts.com>
Rendered body type: text/plain

```
I thought the members of this list would be interested in the
following bulletins from the GPS newsgroup. I guess that I should
reconsider my design efforts on a cheap DGPS beacon receiver. : )

_____________________________________________________________________
>Todays (2/1/96) Wall Street Journal has an artice about the Rand Corp doing a
>study for the government on GPS/SA. Short and SWEET, there study will recomend
>to Clinton to turn SA OFF. While still having the Air Force maintain the
>system

_____________________________________________________________________
>HR 1530 passed... and it contains a clause having the DoD turn
>SA _off_ unless they can come up with an alternate plan.

>Combined with the RAND study, this looks like it.

>       -Bill
______________________________________________________________________
>The summary requested is already available on the web.  Go to
>the RAND home page (http://www.rand.org/) and you'll find that a research
>brief on our GPS study is the first item under "hot topics."
>
>Jess Cook
>RAND Public Information Director

______________________________________________________________
>HR 1530 (defense appropriations bill, passed and now signed by Clinton)
>effectively prohibits DoD from using SA starting May 1.

>Note that even the (b)(1) plan includes the phrase "without hindering
>the ability of United Sttes military and civil users to have access to
>and use the system".  That's the key phrase...  as I read it, it means
>"turn it off, and leave it off.  Figure out some other way to deny it
>to those we want to deny it to- which does NOT deny usage to US civil
>users."  Reading between the lines, I *think* it means "develop a
>theatre-level or battlefield-level GPS jamming capability that we can
>read through but they can't."

>Kennedy (D-MA) sponsored the bill, hey maybe he's not such a bad guy. :-)

>The full text of the relevant section of HR 1530 included below...

>       -Bill Yerazunis

>       -----

>SEC. 279. GLOBAL POSITIONING SYSTEM.

>(a) CONDITIONAL PROHIBITION ON USE OF SELECTIVE AVAILABILITY FEATURE-
>Except as provided in subsection (b), after May 1, 1996, the Secretary
>of Defense may not (through use of the feature known as `selective
>availability') deny access of non-Department of Defense users to the
>full capabilities of the Global Positioning System.

>(b) PLAN- Subsection (a) shall cease to apply upon submission by the
>Secretary of Defense to the Committee on Armed Services of the Senate
>and the Committee on National Security of the House of Representatives
>of a plan for enhancement of the Global Positioning System that provides for--

>  (1) development and acquisition of effective capabilities to deny hostile
>   military forces the ability to use the Global Positioning System without
>   hindering the ability of United States military forces and civil users to
>   have access to and use of the system, together with a specific date by
>   which those capabilities could be operational; and

> (2) development and acquisition of receivers for the Global Positioning
>  System and other techniques for weapons and weapon systems that provide
>  substantially improved resistance to jamming and other forms of
>  electronic interference or disruption, together with a specific date by
>  which those receivers and other techniques could be operational with
>  United States military forces.
```

---

182. APRS74i

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 08 Feb 1996 23:21:44
To: aprssig@tapr.org
Message-ID: <199602090524.XAA32755@foo.garply.com>
Rendered body type: text/plain

Bob i just installed 74i and when zooming in on my qth it crashes and gives
me the message BACK IN PLOTCURLZ then gives a screen full of numbers
like the following 34L2 86L2 etc etc. Then at the bottom OOPS ERROR 14
very repeatable...

Bill KE4EER

---

183. Re: [APRSSIG:6636] 6mtr

From: "David M. Gaytko / WD4KPD" <cn2859@coastalnet.com>
Date: Fri, 9 Feb 1996 01:03:05 -0500
To: aprssig@tapr.org
Message-ID: <199602090603.BAA20041@abaco.coastalnet.com>
Rendered body type: text/plain

At 22:38 2/8/96 -0600, you wrote:
>Greetings from the Great White North..
>
>For anyone interested I am running Aprs via 6mtr on freq.
>50.620. Have set beacon to relay and will be looking for anyone else who is
>doing the same.
>
>73............de Steve VA3HOI (FN05)
>
>
==
==

will start listening tomorrow AM. will try some xmissions the day after.
can be on only in the morning thru 2pm.

wd4kpd...fm15mm

110w to 7el@30ft.

.........................de sparky>

---

184. Official MACAPRS site

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 9 Feb 1996 01:30:00 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad40a7586718@[199.1.11.133]>
Rendered body type: text/plain

The Official MACAPRS site:
ftp://aprs.rutgers.edu/pub/hamradio/aprs/macaprs/
seems empty ???

One of the WWW sites said the latest version was 2.3.0 (I'am using (2.2.0)
Have I missed finding it somewhere ???

Thanks
73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

185. Re: [APRSSIG:6620] Basics.

From: Scott Miller <scottm@sierra.net>
Date: Fri, 09 Feb 1996 00:07:14 -0800
To: aprssig@tapr.org
Message-ID: <311B00B2.14CD@sierra.net>
Rendered body type: text/plain

Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.

```
>
> JimHi Jim,
Scott here in Tahoe City Ca.
here is an interesting link with a nice explantion.
take care and good luck Scott KE6RKE
http://www.ccnet.com/~rwilkins
```

186. Re: [APRSSIG:6621] Re: Wx Reporting errors

```
From: mwalker@interlog.com (Mike Walker)
Date: Fri, 09 Feb 96 08:06:59 EST
To: aprssig@tapr.org
Message-ID: <199602091307.IAA28094@gold.interlog.com>
Rendered body type: text/plain
```

```
On Thu, 8 Feb 1996 08:58:59 -0600 (CST) you wrote:

>> On Wed, 7 Feb 1996 10:33:37 -0600 (CST) WB4APR wrote:
>>
>> >WB4APR REPLY COMMENT:  The N key shows you the data from all
>> >weather stations.  IN this case, those WX stations are not sending WX,
>> >therefore the N key is showing you that they have no current WX.  I just
>> >never got around to adding additional code to say "this is not WX,
>> >so ignore it..."  Maybe if I have room in a future WX only version...
>> >
>
>WB4APR REPLY COMMENT:  Actually, in recent versions, this should only
>happen the FIRST time you get a BEACON POSIT from the remote WX and
>BEFORE you get a WX packet.  Once you get a WX packet, it should
>overwrite the the WX data into the posit, and from then on any future
>BEACON POSITS from the remote TNC will NOT overwrite the P-list...
>
>If this is NOT working correctly, then I need to fix it.  Pse confirm
>what version of APRS you are using, and if you are seeing TNC WX
>POSITS (BEACON) overwriting WX data on the P-LIST.
>
>Thanks!  I was about to release a new version, but will wait...
>
>
Hi Bob,
I am running v74E and I have tested it with a Wx station who is a Mac users.
He was sending both position reports and wx reports.  Depending on how lucky I
was, I would either see a message similiar to the above, or I would get his wx
report.  He turned off his posits, and now I get nothing but wx reports.

(ooppsss, just heard on the radio, that have found the problem)

I will reply in a later note if you need more.

cheers...mike

Mike Walker                              mwalker@interlog.com
127 High St. W.                              rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

187. Re: [APRSSIG:6634] Re: Tiny SHELL COMM program

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Feb 1996 08:11:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960209081041.11639A-100000@greatlakes>
Rendered body type: text/plain
```

```
On Thu, 8 Feb 1996, Mark Oppenheim wrote:

> At 04:38 PM 2/8/96 -0600, Bob Bruninga wrote:
> >My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
> >I had always hoped that someone would identify a very simple and basic
> >COMM program that could be run after SHELLing to DOS....
>
> I vote for WA7MBL's YAPP 2.0 (Shareware)

WB4APR REPLY COMMENT:

SOUNDS PERFECT.  Have you tried it fropm APRS?  Just do a FILES-DOS and
see if it will run.  Thanks!
```

188. Re: [APRSSIG:6621] Re: Wx Reporting errors

From: rwf <rwf@mindspring.com>
Date: Fri, 9 Feb 1996 08:56:20 -0500
To: aprssig@tapr.org
Message-ID: <199602091356.IAA27375@borg.mindspring.com>
Rendered body type: text/plain

```
Bob wrote:

>If this is NOT working correctly, then I need to fix it.  Pse confirm
>what version of APRS you are using, and if you are seeing TNC WX
>POSITS (BEACON) overwriting WX data on the P-LIST.
>
>Thanks!  I was about to release a new version, but will wait...
>

Bob-  during the short time I had my remote Ulti II up (before it went
whacko), I was running APRS 74C to monitor it.  Every beacon overwrote my WX
posit.

Ralph
```

---

189. Re: [APRSSIG:6620] Basics.

From: Scott Miller <scottm@sierra.net>
Date: Fri, 09 Feb 1996 06:09:07 -0800
To: aprssig@tapr.org
Message-ID: <311B5583.42CA@sierra.net>
Rendered body type: text/plain

```
Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimJim after looking at the cAVe page and reading your posting I'm not
shure your awnsers are there.
where do you live? what kind of tnc / raido do you have?
```

---

190. Re: [APRSSIG:6620] Basics.

From: Scott Miller <scottm@sierra.net>
Date: Fri, 09 Feb 1996 06:46:54 -0800
To: aprssig@tapr.org
Message-ID: <311B5E5E.6CC8@sierra.net>
Rendered body type: text/plain

```
Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimSorry Jim I'm allways hitting the send button to soon.
Have you read the txt files that come with the program?
I think the awnsers you are looking for can be found there.
Scott
```

---

191. Re: [APRSSIG:6643] Re: Tiny SHELL COMM program

From: mark@tetherless.com (Mark Oppenheim)
Date: Fri, 9 Feb 1996 10:12:05 -0800 (PST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199602091812.KAA15846@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
At 07:21 AM 2/9/96 -0600, Bob Bruninga wrote:
>On Thu, 8 Feb 1996, Mark Oppenheim wrote:
>
>> At 04:38 PM 2/8/96 -0600, Bob Bruninga wrote:
>> >My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
>> >I had always hoped that someone would identify a very simple and basic
>> >COMM program that could be run after SHELLing to DOS....
>>
>> I vote for WA7MBL's YAPP 2.0 (Shareware)
>
>WB4APR REPLY COMMENT:
>
>SOUNDS PERFECT.  Have you tried it fropm APRS?  Just do a FILES-DOS and
>see if it will run.  Thanks!

Bob-

I'll give it a try this weekend, and see if anything crashes.  To do a YAPP
file transfer, it requires pins 1-8 and 20 wired (that's on a 25 pin
connector) and hardware flow control set on... will this cause problems with
APRS/DOS?   Otherwise, I think that software flow control is OK for non YAPP
use - I'll try it both ways.

Mark
```

---

192. Re: [APRSSIG:6635] RE: W7LUS HF mobile

From: "William M. McClatchey" <billmcc@atlanta.com>
Date: Fri, 09 Feb 1996 13:53:21 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960209185321.0039c11c@pop.atlanta.com>
Rendered body type: text/plain

```
Excuse me...   Where is "Lizzard Lick, NC" ?

At 10:19 PM 2/8/96 -0600, you wrote:
>Hi Peter,
>Do you travel I-95 very often? The group I'm in isgoing to put up a APRS Digi
>in Lizzard Lick, NC in the near future. It'll only be up around 150 ft but we
>have a better site comming up.
>Let me know,,,,,,........
>
>Jay
>
>-------------------------------------
>Name:          Jerry Netterville
>E-mail:        jaykq4ms@nando.net
>Packet         KQ4MS@KE4YOA#.RTP.NC.USA.NOAM
>Grid:          FM05qt
>Amateur Call:  KQ4MS
>               Raleigh, NC
>This message was sent by Chameleon
>-------------------------------------
>23:24:20    02/08/96
>
>
>

William M. McClatchey, MD, FACP FACR
The Piedmont Clinic
35 Collier Road; Suite 775
Atlanta, Georgia 30367
404-352-3580 (voice)
404-815-0997 (fax)

CIS: 70554,21  InterNet: billmcc@atlanta.com
Amateur Radio Station: KK4C
```

---

193. CANX APRS/GPS DRIVE AZ TO WA

From: DDOBBINS@aol.com
Date: Fri, 9 Feb 1996 13:55:18 -0500
To: aprssig@tapr.org
Message-ID: <960209135518_218146576@mail04.mail.aol.com>
Rendered body type: text/plain

Regret to cancel the drive portion of my upcoming trip from Tucson to Seattle
and points between. Instead I will be "hopping" a flight direct to
Washington. Will still be APRS/GPS mobile in SEATAC and Spokane, and points
between. Possibly a jaunt down to Boise to visit an old friend. Aloha, Dave.

---

194. Digitizing troubles

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Fri, 09 Feb 1996 14:39:34 -0500
To: aprssig@tapr.org
Message-ID: <199602091937.OAA00873@pobox.ee.mtu.edu>
Rendered body type: text/plain

I have a Summagraphics Summa Sketch II Professional model MMII 1812
digitizing tablet and have looked forward to being able to generate maps
with it. All attempts to get MAPFIX (version 1.8) to work with it have been
unsuccessful, however. The tablet, by itself, puts out data in a binary
format incompatible with MAPFIX. I have tried two different Summagraphics
drivers, including one that is supposed to make the tablet look like a
Microsoft mouse, but with only frustration to show for it. These both
produce ASCII data, but in a continuous data stream that quickly crashes
MAPFIX. I have tried both the digitizer and mouse options in MAPFIX, each
with both drivers. Has anyone been successful with a Summagraphics tablet?
If so, how?

Thanks much for any suggestions.

Does anyone perhaps already have a map of Michigan's Upper Peninsula or,
better yet, just the Keweenaw Peninsula?

73,
Doug Brumm   N8OON   Calumet, MI   Very close to THE GREAT LAKE.
dbbrumm@mtu.edu

---

195. Re: [APRSSIG:6634] Re: Tiny SHELL COMM program

From: "David G. Henderson" <daveh@erie.net>
Date: Fri, 09 Feb 1996 14:47:25 -0500
To: aprssig@tapr.org
Message-ID: <199602091943.OAA05141@moose.erie.net>
Rendered body type: text/plain

At 06:53 PM 2/8/96 -0600, you wrote:
>I vote for WA7MBL's YAPP 2.0 (Shareware)
>Mark
> KD6KQ

I would have suggested that too, Mark. But it has been reliably reported to
me that YAPP doesn't work under Windows 95. Not running W95 here, can you
confirm????

73, Dave, N3EOY

---

196. Re: [APRSSIG:6628] Timeout/timer

From: Bob Bruninga <bruninga@nadn.navy.mil> (by way of Robert Abrams <KI6MP@mci.newscorp.com>)
Date: Fri, 9 Feb 1996 15:39:27 -0500 (EST)
To: Aprssig@tapr.org
Message-ID: <199602092039.PAA25976@kafka.delphi.com>
Rendered body type: text/plain

I could, but it violates the philosophy of APRS, and that is that
everyone is monitoring all the time for APRS packets. If you go off line
to pass traffic, then you may miss som very important pacekt. Even worse
is if someone conects to you, and seeing no human response, they leave
you connected, you are effectively OFFLINE until the timeout period. You
would never want to leave yourself so vulnerable to outside events.

The time out is not a problem as long as someone is at both ends, using
the channel to pass tracffic. If someone is NOT at the keayboard
(keeping it busy to avoid the timer) then again, that is NOT when you
want his terminal on the BLUE screen ignoring all APRS traffic.

You will have to give me a complete scenairo and a lot of explaination of
how you see this as a benefit in order to convince me to put such a
potential weakness in APRS, hi hi...

The solution I have always sought, is for someone to find a SMALL and
SIMPLE COMM program that you can SHELL out of APRS, do you COMMS with
normal packet, and then EXIT back to APRS. If you could inspire the
computer hackers out there to help you find such a SMALL COMM program,

then we will all benefit! THanks...

On Thu, 8 Feb 1996, Robert Abrams wrote:

> >Date: Thu, 08 Feb 1996 12:28:43
> >To: aprssig@tapr.org
> >From: Robert Abrams <KI6MP@mci.newscorp.com>
> >Subject: Timeout/timer
> >
> >>Date: Wed, 07 Feb 1996 18:28:59
> >>To: listserv@tapr.org
> >>From: Robert Abrams <KI6MP@mci.newscorp.com>
> >>Subject: Timeout/timer
> >>
> >>>To: aprssig@tapr.org
> >>>From: Robert Abrams <KI6MP@mci.newscorp.com>
> >>>Subject: Timeout/timer
> >>>
> >>>For Bob Bruninga:
> >>>
> >>>Is there a way to adjust or disable the timeout timer while in the
> connect mode
> >>>
> >>>in the dumb terminal? If not could you address this problem for us?
> >>>
> >>>We would like to use APRS in the field for portable operation, but sending
> >>>
> >>>traffic of any length usually results in a disconnect via timeout.
> >>>
> >>>San Diego ARES is very active in the digital mode and would like to
> include APRS.
> >>>
> >>>Can you help us?
> >>>
> >>>
> >>>
> >>>
> >>
> >
>
>

WB4APR REPLY COMMENT:Bob thanks for the response and here is our scenario:

Aprs here in San Diego Co. has over 100 stns on line from time to time.
They are sprinkled throughout the Co. We, in ARES want to take advantage of the
"relay" effect to connect with MBX stns. back in the city of San Diego from
outlying areas where we cannot normally connect on regular packet on other
freqs.

We have worked out a path to get to another freq. from 145.790 utilizing a node
situated on Otay Mt.(elev. 3600 ft).This path gets us to the MBX from which the
local ARES stns can access our emergency traffic.

I like the idea of a comm program we can access from a shell, place the
traffic in a
file, send out the traffic and then back into APRS.

It would still be nice however, to lengthen the timer time to approx. 15
mins or be
adjustable.

Thanks for your consideration and: " keep the faith "

---

197. Re: [APRSSIG:6628] Timeout/timer

From: Robert Abrams <KI6MP@mci.newscorp.com>
Date: Fri, 9 Feb 1996 15:43:16 -0500 (EST)
To: Aprssig@tapr.org
Message-ID: <199602092043.PAA21291@kafka.delphi.com>
Rendered body type: text/plain

>Date: Fri, 09 Feb 1996 12:43:09
>To: Aprssig@tapr.org.
>From: Bob Bruninga <bruninga@nadn.navy.mil> (by way of Robert Abrams
<KI6MP@mci.newscorp.com>)
>Subject: Re: [APRSSIG:6628] Timeout/timer
>

>I could, but it violates the philosophy of APRS, and that is that
>everyone is monitoring all the time for APRS packets. If you go off line
>to pass traffic, then you may miss som very important pacekt. Even worse
>is if someone conects to you, and seeing no human response, they leave
>you connected, you are effectively OFFLINE until the timeout period. You
>would never want to leave yourself so vulnerable to outside events.
>
>The time out is not a problem as long as someone is at both ends, using
>the channel to pass tracffic. If someone is NOT at the keayboard
>(keeping it busy to avoid the timer) then again, that is NOT when you
>want his terminal on the BLUE screen ignoring all APRS traffic.
>
>You will have to give me a complete scenairo and a lot of explaination of
>how you see this as a benefit in order to convince me to put such a
>potential weakness in APRS, hi hi...
>
>The solution I have always sought, is for someone to find a SMALL and
>SIMPLE COMM program that you can SHELL out of APRS, do you COMMS with
>normal packet, and then EXIT back to APRS. If you could inspire the
>computer hackers out there to help you find such a SMALL COMM program,
>then we will all benefit! THanks...
>
>
>
>On Thu, 8 Feb 1996, Robert Abrams wrote:
>
>> >Date: Thu, 08 Feb 1996 12:28:43
>> >To: aprssig@tapr.org
>> >From: Robert Abrams <KI6MP@mci.newscorp.com>
>> >Subject: Timeout/timer
>> >
>> >>Date: Wed, 07 Feb 1996 18:28:59
>> >>To: listserv@tapr.org
>> >>From: Robert Abrams <KI6MP@mci.newscorp.com>
>> >>Subject: Timeout/timer
>> >>
>> >>>To: aprssig@tapr.org
>> >>>From: Robert Abrams <KI6MP@mci.newscorp.com>
>> >>>Subject: Timeout/timer
>> >>>
>> >>>For Bob Bruninga:
>> >>>
>> >>>Is there a way to adjust or disable the timeout timer while in the
>> connect mode
>> >>>
>> >>>in the dumb terminal? If not could you address this problem for us?
>> >>>
>> >>>We would like to use APRS in the field for portable operation, but sending
>> >>>
>> >>>traffic of any length usually results in a disconnect via timeout.
>> >>>
>> >>>San Diego ARES is very active in the digital mode and would like to
>> include APRS.
>> >>>
>> >>>Can you help us?
>> >>>
>> >>>
>> >>>
>> >>>
>> >>
>> >
>>
>>
>
>WB4APR REPLY COMMENT:Bob thanks for the response and here is our scenario:
>
>Aprs here in San Diego Co. has over 100 stns on line from time to time.
>They are sprinkled throughout the Co. We, in ARES want to take advantage of the
>"relay" effect to connect with MBX stns. back in the city of San Diego from
>outlying areas where we cannot normally connect on regular packet on other
freqs.
>
>We have worked out a path to get to another freq. from 145.790 utilizing a
node
>situated on Otay Mt.(elev. 3600 ft).This path gets us to the MBX from which the
>local ARES stns can access our emergency traffic.
>
>I like the idea of a comm program we can access from a shell, place the
traffic in a

>file, send out the traffic and then back into APRS.
>
>It would still be nice however, to lengthen the timer time to approx. 15
mins or be
>adjustable.
>
>Thanks for your consideration and: " keep the faith "
>
>
>
>
>
>

---

198. PicoPacket Announcement

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Fri, 9 Feb 1996 16:36:55 -0500 (EST)
To: aprssig@tapr.org
Cc: File <file@paccomm.com>
Message-ID: <Pine.LNX.3.91.960209162923.30540A-100000@paccomm>
Rendered body type: text/plain

The following is a copy of a letter which will be mailed to each appropriate PicoPacket owner. It is published here since many APRS users use the Pico and are interested in the status.

Please wait for your letter to arrive before acting so that we may keep a scheduled flow running and avoid additional delays. We expect to send about ten letters per work day until everyone is notified.

PicoPacket Warranty Recall Notice

Dear PicoPacket Owner:

This is to notify you of the need to return certain models to the factory for modification. Our policy is to make good equipment and stand behind it. If something is wrong, we will make it right. I apologize for any inconvenience this PicoPacket problem has caused you.

Purpose of Recall

This recall is to eliminate the cause of battery backed memory parameter loss experienced by many units.

Modification Details

This modification will change the operation of the real time clock decoding circuit to eliminate the loss of memory parameters. The power switch on some models will also be modified to eliminate one of the two ON positions. Quickly switching from ON to OFF to ON also contributes to parameter loss.

While the units are at the factory, the latest EPROM version will be installed and any battery pack/cabinet interference problems will be addressed.

Which PicoPacket Models

This recall does not apply to all PicoPackets. It applies only to those units built on circuit board of revision 1.2. The easiest way to identify this revision is to note that it has a power switch on the rear (bottom) while other revision levels do not have a power switch at all. Units without a power switch should not be returned.

Shipping Instructions

1. The following items are attached to this letter:
- Return address label
- PacComm address label
- Priority Mail Label
- $3.00 postage (imprinted). Note: for non-US addresses different arrangements will be made.

2. Place the PicoPacket (and battery pack, if so equipped) in the original PacComm shipping box or other sturdy container. Do not include any cables, manuals, or other accessories. Wrap the PicoPacket in

old newspaper or other padding to prevent damage during shipping.

3. Securely seal the package with tape (never use string), and apply
the return address label, the PacComm address label, the priority
mail label, and the postage. Update the return address if needed.

4. Drop in any US Postal Service mailbox or office.

5. PacComm will modify and test the unit within one or two days.

It will be shipped to the return address on your package by UPS surface
(Parcel post for P.O. Box addresses). You should have the unit back
within 6-10 calendar days, depending on delivery delays.

Please refrain from inquiring about the status of your unit until
at least 14 days have passed since you first sent the unit. We want
to devote our time to modifying the units, not answering inquiries.

Thank you for your cooperation.

Sincerely,

Gwyn Reedy, W1BEL
President

```
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Gwyn Reedy, W1BEL            gwyn@paccomm.com           W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.    +(813) 874-2980  Fax:+(813) 872-8696
4413 N. Hesperides St.               BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA          info@paccomm.com  http://www.paccomm.com
```

---

199. Re: [APRSSIG:6651] Re: Tiny SHELL COMM program

From: mark@tetherless.com (Mark Oppenheim)
Date: Fri, 9 Feb 1996 14:30:37 -0800 (PST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199602092230.OAA21173@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 02:09 PM 2/9/96 -0600, David G. Henderson wrote:
>At 06:53 PM 2/8/96 -0600, you wrote:
>>I vote for WA7MBL's YAPP 2.0 (Shareware)
>>Mark
>> KD6KQ
>
>I would have suggested that too, Mark. But it has been reliably reported to
>me that YAPP doesn't work under Windows 95. Not running W95 here, can you
>confirm????

Hi Dave- I'm not running Windows '95 (aka: The mother of all viruses) here
either (at least for another few months), but I wouldn't know why it won't work.
Hmmm....

Mark

---

200. 6mtr

From: steve@muskoka.com (Steve Dubois)
Date: Fri, 09 Feb 1996 17:41:58 -0500
To: aprssig@tapr.org
Message-ID: <199602092255.RAA06765@gold.muskoka.com>
Rendered body type: text/plain

Greetings from the Great White North..

For anyone interested I am running Aprs via 6mtr on freq.
50.620. Have set beacon to relay and will be looking for anyone else who is
doing the same.

73............de Steve VA3HOI (FN05)

---

201. 6 mtrs

From: steve@muskoka.com (Steve Dubois)
Date: Fri, 09 Feb 1996 17:48:36 -0500
To: aprssig@tapr.org
Message-ID: <199602092301.SAA08425@gold.muskoka.com>
Rendered body type: text/plain

```
Hello all,

Sorry for the confusion. I just sent the same message I sent a
few days ago re: 6mtrs....

However what I meant to send was a thank you to all of you who replied. It
is good to know that there are some other 6mtr stations out there. Many thanks.

Now on to my next venture. I would like to set up a 6mtr gate here at my
qth. Any comments or suggestions would be most greatful. I think there are
some possibilities with 6mtr and of course will depend on propogation. Even
at that if we had enough digi's within range of each other there are some
good possibilities.

Anyway thanks once again. Take care and all best.

73.......de Steve VA3HOI/FN05 /The Great White North
```

---

202. What has happened?

From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Date: Fri, 9 Feb 1996 15:12:16 -0800
To: aprssig@tapr.org
Message-ID: <v01510100ad41844fb5b7@[128.149.100.84]>
Rendered body type: text/plain

```
My mail service was interrupted. Now I fear I have lost my supply of APRS
fixes. Has the list been quiet today?

-Greg

--
Gregory R. LaBorde - KD6MSM         | Internet: laborde@kilroy.jpl.nasa.gov
Jet Propulsion Laboratory           | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET   | Packet  : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive    | Phone   : (818) 393-1107
Pasadena, CA  91109                 |
```

---

203. Re: [APRSSIG:6651] Re: Tiny SHELL COMM program

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 9 Feb 1996 18:18:19 -0600
To: aprssig@tapr.org
Message-ID: <199602100018.SAA02352@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Uh, oh,

Under Win95, I got YAPP by itself to work in a window, but the APRS Dos
shell (File, Dos> gave me a:
"File Allocation Error
Could not start COMMAND, exiting"



At 06:53 PM 2/8/96 -0600, you wrote:
>>I vote for WA7MBL's YAPP 2.0 (Shareware)
>>Mark
>> KD6KQ
>
>I would have suggested that too, Mark.  But it has been reliably reported to
>me that YAPP doesn't work under Windows 95.  Not running W95 here, can you
>confirm????
>
>73, Dave, N3EOY
>
>
---------
J Barry Leonard
DeKalb IL
Subependymoma 1990
E-MAIL:  jleonard@tbcnet.com
```

---

204. Anyone seeing NE PA on 145.79 MHz???

From: lorie <ldajz@epix.net>
Date: Fri, 09 Feb 1996 20:19:22 +0000
To: aprssig@tapr.org
Message-ID: <311BAC4A.7EE0@epix.net>
Rendered body type: text/plain

Howdy APRSers...

Those of us in Northeastern PA are awaiting some warmer weather to up to the mountain aand establish an APRS unit on VHF. As for now, and over the course of this weekend, we will be attempting to "make our presence known" to others in NNJ, SNJ, and NLI. Please send a message if you see any of the following calls. WX3A, WM3L, N3SIN, WC3Z, and yours truely, N3KAE. We will try using WX3A as a digi to get to and through KA3ODJ-8. Thanks for reading .

73 de Al, N3KAE... even though the message name states Lorie (my wife)

---

205. Re: [APRSSIG:6632] Tiny SHELL COMM program

From: RICKLUTZ@aol.com
Date: Fri, 9 Feb 1996 21:49:41 -0500
To: aprssig@tapr.org
Message-ID: <960209214939_218492179@emout07.mail.aol.com>
Rendered body type: text/plain

Bob,

Might I suggest Packom by Jim Wright WB4ZJV. Although the latest date of the program is 1987 it is a full featured packet program with split screen and a lot of extras but still not entirely large. maybe the best would be to put in a shell out command and let the user decide.

Rick   KD4SEV

---

206. Re: [APRSSIG:6650] Digitizing troubles

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Feb 1996 21:54:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960209214928.27188A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 9 Feb 1996, Doug Brumm wrote:

> I have a Summagraphics Summa Sketch II Professional model MMII 1812
> produce ASCII data, but in a continuous data stream that quickly crashes
> MAPFIX. I have tried both the digitizer and mouse options in MAPFIX, each
> with both drivers. Has anyone been successful with a Summagraphics tablet?

WB4APR REPLY COMMENT:

Drivers? All of the tablets I use just have a serial RS-232 output that output serial ascii characters. There are no drivers. You can even look at them with PROCOMM or any dumb terminal program and see the X,Y data. Inside my SUmagrphphics tablet are a bunch of dip switches for setting up all sorts of options. What you want is POINT mode where only one X,Y pair ov values is output each time you press the pen or click the mouse.

Mapfix expects to see the following data at 9600 baud 7 or 8 bits

```
XXXX,YYYY,C  where C is something representing what key is pressed on
             a multip button mouse
OR
XXXX,YYYY  should also work...
```

(I may have the XXX and YY reversed, I cant remember....)

---

207. Re: [APRSSIG:6652] Re: Timeout/timer

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Feb 1996 22:03:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960209215907.27188E-100000@greatlakes>
Rendered body type: text/plain

Concerning someone's request to lengthen the OPS-COM-TNC dumb terminal mode timeout timer....

OH, I see...... You are going to connect to a BBS and not another station... I guess that is different. Lemme think...

I could lengthen the timer for a user if HE INITIATES the OCT mode.... But if someone else connects to HIM, I will keep it at 3 minutes (or whatever it is at now...)

```
Sure, you convinced me.  h i hi

BUT, im not sure how well having a BBS on an APRS freq is going to work
out...
  But that is another subject...


I meant for this message to go back to the individual, but I messed up
and lost the return address...  so here it goes to the sig...
```

---

208. Re: [APRSSIG:6662] Re: Digitizing troubles

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 10 Feb 1996 00:12:32 -0000
To: aprssig@tapr.org
Message-ID: <199602100513.XAA12475@tapr.org>
Rendered body type: text/plain

```
On  9 Feb 96 at 21:02, Bob Bruninga wrote:

> On Fri, 9 Feb 1996, Doug Brumm wrote:
>
> > I have a Summagraphics Summa Sketch II Professional model MMII
> > 1812 produce ASCII data, but in a continuous data stream that
> > quickly crashes MAPFIX. I have tried both the digitizer and mouse
> > options in MAPFIX, each with both drivers. Has anyone been
> > successful with a Summagraphics tablet?
>
> WB4APR REPLY COMMENT:
>
> Drivers?  All of the tablets I use just have a serial RS-232 output
> that output serial ascii characters.  There are no drivers.  You can
> even look at them with PROCOMM or any dumb terminal program and see
> the X,Y data. Inside my SUmagrphphics tablet are a bunch of dip
> switches for setting up all sorts of options.  What you want is
> POINT mode where only one X,Y pair ov values is output each time you
> press the pen or click the mouse.
>
> Mapfix expects to see the following data at 9600 baud 7 or 8 bits
>
> XXXX,YYYY,C  where C is something representing what key is pressed
> on
>              a multip button mouse
> OR
> XXXX,YYYY  should also work...
>
> (I may have the XXX and YY reversed, I cant remember....)
>
>


WJ8T Comment:

I have the same tablet.. does the same thing BUT I have the
drivers...   I USED to use the Tablet when I was running 3.1 windows
under DOS but I crashed the Drive and installed win95.

I have the drivers on my Computer.. If you can FTP, try 205.243.16.75
under the APRS directory... Get 013.EXE and use the SEND command to
configure the Tablet for the proper format.

Have fun.. Questions?  E-Mail me and I will TRY and answer them..

Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
```

---

209. 20 meters

From: KD4EMI@aol.com
Date: Sat, 10 Feb 1996 08:27:26 -0500
To: aprssig@tapr.org, DMOBLEY@encore.com
Message-ID: <960210082726_218709095@emout08.mail.aol.com>
Rendered body type: text/plain

```
I am on 20 meters this weekend looking for activity
14.096.30 USB

If you want to join me, jump in...havent heard much yet!
```

Mike KD4EMI@AOL.COM

---

210. Re: [APRSSIG:6650] Digitizing troubles

From: w2g3zfj@unix.asb.com (bob)
Date: Sat, 10 Feb 1996 09:30:43 -0500
To: aprssig@tapr.org
Message-ID: <199602101433.JAA26899@UNiX.asb.com>
Rendered body type: text/plain

```
Hi Doug

I have a Summagraphics II Professional Plus as well. To get it to work you
need the Summagraphics SEND.com program and use the following data:

SEND /1 /S96 /Czaz8c8cFBe

rather cryptic eh!

This sets ASCII mode, 9600 baud, N,8,1

lower left origin
absolute co-ordinates
point mode
resoloution 200lpi

I put it in a simple bat file, so whenever I digitise maps I just do an
'aprsinit'.

Let me know if you need the SEND program

I find the tablets large size a big advantage when doing maps, used to use a
small HP tablet but was always moving the maps around.

73 de bob w2/g3zfj
Email w2g3zfj@unix.asb.com

>I have a Summagraphics Summa Sketch II Professional model MMII 1812
>digitizing tablet and have looked forward to being able to generate maps
>with it. All attempts to get MAPFIX (version 1.8) to work with it have been
>unsuccessful, however. The tablet, by itself, puts out data in a binary
>format incompatible with MAPFIX. I have tried two different Summagraphics
>drivers, including one that is supposed to make the tablet look like a
>Microsoft mouse, but with only frustration to show for it. These both
>produce ASCII data, but in a continuous data stream that quickly crashes
>MAPFIX. I have tried both the digitizer and mouse options in MAPFIX, each
>with both drivers. Has anyone been successful with a Summagraphics tablet?
>If so, how?
>
>Thanks much for any suggestions.
>
>Does anyone perhaps already have a map of Michigan's Upper Peninsula or,
>better yet, just the Keweenaw Peninsula?
>
>73,
>Doug Brumm     N8OON     Calumet, MI          Very close to THE GREAT LAKE.
>dbbrumm@mtu.edu
>
>
>
```

---

211. 32 mile maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 10 Feb 1996 13:18:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960210130851.28595C-100000@greatlakes>
Rendered body type: text/plain

```
I have been cleaning up my standard MAP distros E, W, M, C, SE maps.
I did a MAPS-HEIRARCHY to see what areas do not have decent coverage at
the 32 mile scale. As a result, I just did the west coast of Oregon and
south alabama.

The problem is that with the hundreds of maps, I can't be sure that
everyone is covered everywhere.  Nor do I want to duplicate maps that
someone else has done.

1)  If anyone lives in an area of APRS activity that does not have one of
the 32 mile (or so) USGS maps that gives roads, rivers, county lines and
administrative boundaries, PLEASE TELL ME.  Give me the LAT/LONG of the
```

needed CENTER.

2) If you are using a 32 mile or larger map that was generated locally
and is NOT in my standard distros, then SEND THEM TO ME. I do not want
maps below this scale, but do want my standard distros to cover everywhere
down to this 32 mile USGS level.

Thanks. P.S. Still waiting for feedback on BETA74i. Only one comment
heard from EER.

---

212. Re: [APRSSIG:6667] 32 mile maps

From: rwf <rwf@mindspring.com>
Date: Sat, 10 Feb 1996 15:50:35 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960210155839.3eaf3a08@mindspring.com>
Rendered body type: text/plain

Bob- Do you have the 32 mile Georgia maps (GA-1 thru Ga-10) that I made?

and

Did you fix (in 74I) the problem that causes hsp lockup when RMC sentences
are present?

It is repeatable here by 2 diff people and 2 diff computers. Have NOT tried
it on 74i yet. I'm still on this 2 month Florida road trip and can't get to
the GPS to reset the string to RMC from GLL right now. It is buried under a
bunch of junk in the back of the van.

I'll try to do it next week.

Ralph N4NEQ

---

213. [APRSSIG:6644] Re: Wx Rep

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Date: 09 Feb 96 11:20:00 -0500
To: aprssig@tapr.org
Message-ID: <a1f_9602101222@panda.org>
Rendered body type: text/plain

From: rwf <rwf@mindspring.com>
Subject: [APRSSIG:6644] Re: Wx Reporting errors

Bob wrote:

>If this is NOT working correctly, then I need to fix it. Pse confirm
>what version of APRS you are using, and if you are seeing TNC WX
>POSITS (BEACON) overwriting WX data on the P-LIST.
>
>Thanks! I was about to release a new version, but will wait...
>

Bob- during the short time I had my remote Ulti II up (before it went
whacko), I was running APRS 74C to monitor it. Every beacon overwrote my WX
posit.

Ralph

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

214. [APRSSIG:6643] Re: Tiny S

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 09 Feb 96 11:20:00 -0500
To: aprssig@tapr.org
Message-ID: <a1d_9602101222@panda.org>
Rendered body type: text/plain

From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6643] Re: Tiny SHELL COMM program

On Thu, 8 Feb 1996, Mark Oppenheim wrote:

```
> At 04:38 PM 2/8/96 -0600, Bob Bruninga wrote:
> >My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
> >I had always hoped that someone would identify a very simple and basic
> >COMM program that could be run after SHELLing to DOS....
>
> I vote for WA7MBL's YAPP 2.0 (Shareware)

WB4APR REPLY COMMENT:

SOUNDS PERFECT.  Have you tried it fropm APRS?  Just do a FILES-DOS and
see if it will run.  Thanks!



--
|Fidonet:  Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

---

215. [APRSSIG:6632] Tiny SHELL

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 09 Feb 96 11:20:00 -0500
To: aprssig@tapr.org
Message-ID: <a1c_9602101222@panda.org>
Rendered body type: text/plain

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6632] Tiny SHELL COMM program

My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
I had always hoped that someone would identify a very simple and basic
COMM program that could be run after SHELLing to DOS.  Since no one has
identified such a program, maybe it is time to ask again...

Since APRS is so big, it will have to be a small DOS program..  But it
would be very valuable for APRSdos...

With such a program, a user could do a FILES-DOS to shell to DOS, run the
program and use his TNC to conect to another station, do file transfers,
etc, and then when done, EXIT back to APRS...



--
|Fidonet:  Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

---

216. [APRSSIG:6645] Re: Basics

From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Date: 09 Feb 96 11:20:00 -0500
To: aprssig@tapr.org
Message-ID: <a20_9602101222@panda.org>
Rendered body type: text/plain

```
From: Scott Miller <scottm@sierra.net>
Subject: [APRSSIG:6645] Re: Basics.

Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
```

```
> JimJim after looking at the cAVe page and reading your posting I'm not
shure your awnsers are there.
where do you live? what kind of tnc / raido do you have?

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

217. [APRSSIG:6646] Re: Basics

From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Date: 09 Feb 96 11:20:00 -0500
To: aprssig@tapr.org
Message-ID: <a21_9602101222@panda.org>
Rendered body type: text/plain

```
From: Scott Miller <scottm@sierra.net>
Subject: [APRSSIG:6646] Re: Basics.

Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimSorry Jim I'm allways hitting the send button to soon.
Have you read the txt files that come with the program?
I think the awnsers you are looking for can be found there.
Scott

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

218. TNC DOES NOT RESPOND TO APRS

From: Grampyruss@aol.com
Date: Sat, 10 Feb 1996 18:18:07 -0500
To: aprssig@tapr.org
Message-ID: <960210181805_419466277@emout05.mail.aol.com>
Rendered body type: text/plain

```
Bob Bruninga WB4APR
Glen-Burnie, MD 21060

fROM: Russ Hulber KA1VMQ
        5 Robinson Dr., Bedford, MA 01730
        TN (617) 275-9313

E-mail address: Grampyruss@aol.com

I am very much interested in your APRS program and
have a copy of it and have been trying to get it
to work for me but for some reason I can't get the
programs to communicate with my Kantronics KamPlus
TNC. If I can get it to work I would be interested
in getting it registered!

When the question comes up, TNC = AEA, PICO OR TAPR?
should be entered? I have tried both PICO & TAPR and
neither one will work!

There is also a choice involving 2 port Kam and I have
tried it with "K" and without, but will not work.
```

I also went to the O, C, T command and could not get the
TNC to respond.

When in the APRS working mode the xmttr did not repond
to a "ping" and the screen showed no indication of
traffic when traffic was indicated on the transceiver.

If you have any suggestions I would appreciate the same,
in addition to my E-mail address I can be reached at
by home BBS KA1VMQ@KB4N.#EMA.#USA.NOAM, usually the
latter part of that string is not necssary anymore.
 73 Russ

---

219. 6 mtr

From: steve@muskoka.com (Steve Dubois)
Date: Sat, 10 Feb 1996 19:03:21 -0500
To: aprssig@tapr.org
Message-ID: <199602110016.TAA27797@gold.muskoka.com>
Rendered body type: text/plain

Sorry,

I am sorry to have to use the sig again but I received a message from a Greg
? in TO which I deleted instead of replying.

Anyway I am running Aprs on 50.620 fm. How is everyone else running fm or ssb??

Tnks in advance..

Steve VA3HOI

---

220. [APRSSIG:6668] Re: 32 mile maps

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Date: 10 Feb 96 15:59:00 -0500
To: aprssig@tapr.org
Message-ID: <309_9602101858@panda.org>
Rendered body type: text/plain

From: rwf <rwf@mindspring.com>
Subject: [APRSSIG:6668] Re: 32 mile maps

Bob- Do you have the 32 mile Georgia maps (GA-1 thru Ga-10) that I made?

and

Did you fix (in 74I) the problem that causes hsp lockup when RMC sentences
are present?

It is repeatable here by 2 diff people and 2 diff computers. Have NOT tried
it on 74i yet. I'm still on this 2 month Florida road trip and can't get to
the GPS to reset the string to RMC from GLL right now. It is buried under a
bunch of junk in the back of the van.

I'll try to do it next week.

Ralph N4NEQ

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

221. [APRSSIG:6669] Re: Wx Rep

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Date: 10 Feb 96 16:55:00 -0500
To: aprssig@tapr.org
Message-ID: <315_9602101907@panda.org>
Rendered body type: text/plain

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Subject: [APRSSIG:6669] Re: Wx Rep

From: rwf <rwf@mindspring.com>
Subject: [APRSSIG:6644] Re: Wx Reporting errors

Bob wrote:

>If this is NOT working correctly, then I need to fix it. Pse confirm
>what version of APRS you are using, and if you are seeing TNC WX
>POSITS (BEACON) overwriting WX data on the P-LIST.
>
>Thanks! I was about to release a new version, but will wait...
>

Bob- during the short time I had my remote Ulti II up (before it went
whacko), I was running APRS 74C to monitor it. Every beacon overwrote my WX
posit.

Ralph

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

222. [APRSSIG:6670] Re: Tiny S

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 10 Feb 96 16:56:00 -0500
To: aprssig@tapr.org
Message-ID: <314_9602101907@panda.org>
Rendered body type: text/plain

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6670] Re: Tiny S

From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6643] Re: Tiny SHELL COMM program

On Thu, 8 Feb 1996, Mark Oppenheim wrote:

> At 04:38 PM 2/8/96 -0600, Bob Bruninga wrote:
> >My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
> >I had always hoped that someone would identify a very simple and basic
> >COMM program that could be run after SHELLing to DOS....
>
> I vote for WA7MBL's YAPP 2.0 (Shareware)

WB4APR REPLY COMMENT:

SOUNDS PERFECT. Have you tried it fropm APRS? Just do a FILES-DOS and
see if it will run. Thanks!

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
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| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

223. [APRSSIG:6667] 32 mile ma

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 10 Feb 96 13:29:00 -0500
To: aprssig@tapr.org
Message-ID: <308_9602101858@panda.org>
Rendered body type: text/plain

From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6667] 32 mile maps

I have been cleaning up my standard MAP distros E, W, M, C, SE maps. I did a MAPS-HEIRARCHY to see what areas do not have decent coverage at the 32 mile scale. As a result, I just did the west coast of Oregon and south alabama.

The problem is that with the hundreds of maps, I can't be sure that everyone is covered everywhere. Nor do I want to duplicate maps that someone else has done.

1) If anyone lives in an area of APRS activity that does not have one of the 32 mile (or so) USGS maps that gives roads, rivers, county lines and administrative boundaries, PLEASE TELL ME. Give me the LAT/LONG of the needed CENTER.

2) If you are using a 32 mile or larger map that was generated locally and is NOT in my standard distros, then SEND THEM TO ME. I do not want maps below this scale, but do want my standard distros to cover everywhere down to this 32 mile USGS level.

Thanks. P.S. Still waiting for feedback on BETA74i. Only one comment heard from EER.

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

224. [APRSSIG:6671] Tiny SHELL

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 10 Feb 96 16:56:00 -0500
To: aprssig@tapr.org
Message-ID: <316_9602101907@panda.org>
Rendered body type: text/plain

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6671] Tiny SHELL

From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6632] Tiny SHELL COMM program

My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool. I had always hoped that someone would identify a very simple and basic COMM program that could be run after SHELLing to DOS. Since no one has identified such a program, maybe it is time to ask again...

Since APRS is so big, it will have to be a small DOS program.. But it would be very valuable for APRSdos...

With such a program, a user could do a FILES-DOS to shell to DOS, run the program and use his TNC to conect to another station, do file transfers, etc, and then when done, EXIT back to APRS...

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.

| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

225. [APRSSIG:6672] Re: Basics

From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Date: 10 Feb 96 16:57:00 -0500
To: aprssig@tapr.org
Message-ID: <313_9602101907@panda.org>
Rendered body type: text/plain

```
From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Subject: [APRSSIG:6672] Re: Basics



From: Scott Miller <scottm@sierra.net>
Subject: [APRSSIG:6645] Re: Basics.

Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimJim after looking at the cAVe page and reading your posting I'm not
shure your awnsers are there.
where do you live? what kind of tnc / raido do you have?

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

---

226. [APRSSIG:6673] Re: Basics

From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Date: 10 Feb 96 16:58:00 -0500
To: aprssig@tapr.org
Message-ID: <317_9602101907@panda.org>
Rendered body type: text/plain

```
From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Subject: [APRSSIG:6673] Re: Basics



From: Scott Miller <scottm@sierra.net>
Subject: [APRSSIG:6646] Re: Basics.

Jim Prentice WA2MZF QCWA 27911 wrote:
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
```

> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimSorry Jim I'm allways hitting the send button to soon.
Have you read the txt files that come with the program?
I think the awnsers you are looking for can be found there.
Scott

--
|Fidonet: Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

227. Re: [APRSSIG:6651] Re: Tiny SHELL COMM program

From: leeb@hargray.com (Lee Bradley)
Date: Sat, 10 Feb 1996 22:26:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602110326.WAA20917@fern.hargray.com>
Rendered body type: text/plain

>At 06:53 PM 2/8/96 -0600, you wrote:
>>I vote for WA7MBL's YAPP 2.0 (Shareware)
>>Mark
>> KD6KQ
>
>I would have suggested that too, Mark. But it has been reliably reported to
>me that YAPP doesn't work under Windows 95. Not running W95 here, can you
>confirm????
>
>73, Dave, N3EOY
>
>
>
Wow, I didn't know that...and my computer too. I have been running Yapp 2.0
since it first came out (have tried many other packet pgms, but always come
back to Yapp.). I just did the F-D trick in APRS and went to dos and called
my y.bat for Yapp and it came up and worked as advertised. I connected to
the local bbs and downloaded a couple files and then exited the pgm. I had
to change dir to aprs as my batch file dumps you back to the route dir. Now
for the other thing, I am running Windows 95 on this machine and Yapp works
fine, as it did in Win 3.0, 3.1, and 3.11. I do not run APRS on this box as
that is on a 386 that is dedicated to all of my ham band stuff. This machine
is my number one box and is used for everything else, plus Navy Mars.

Lee Bradley   W1WXS @ KD4FJ.SC.USA.NA
Email   leeb@hargray.com

 "A mature person is one...who is able to be objective even when deeply
  stirred emotionally."   - Eleanor Roosevelt -

         "When ye encounter disbelievers, strike off their heads."
                                            - The Koran, XLVII -
----

228. mail leak from fidonet ?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 10 Feb 1996 22:19:18 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad431e2e5ae0@[199.1.11.135]>
Rendered body type: text/plain

I have sent mail to :patrick.rosenheim@panda.org requesting a check.
I am getting three copies of aprs mail and they have a
Fidonet trailer.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

229. Where's all these dupes coming from?

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 10 Feb 96 23:36:53 EST
To: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960211043652_102413.375_BHA64-6@CompuServe.COM>
Rendered body type: text/plain

Hey folks!

```
Who's the _________________________________ out there that's refiling messages
          (fill in your favorite expletive!)
```

four and five times from PANDA.NET? C'mon, this isn't funny and it's a total waste of time and, not to mention, money for those of us on a tight budget when we have to spend our valuable internet time receiving multiple duplicate messages!

I am certain that neither Bob nor RWF are doing this intentionally! I'm also having a little doubt about Bob having changed his EMail address unexpectedly...The URL looks a LITTLE strange with multiple @'s....

Hope this is just somebody ACTING stupid and really isn't a symptom of things to come!

While I'm at it, it's REALLY annoying to read complete copies of original messages in replies/comments. Can we either completely drop this practice or, AT LEAST, just quote enough to refresh memories.

Something to think about, PLEASE!

73 de Jim, KU0G

---

230. Re: [APRSSIG:6648] RE: W7LUS HF mobile

From: QRDS81A@prodigy.com (GERALD HASTY)
Date: Sun, 11 Feb 1996 00:27:06 EST
To: billmcc@atlanta.com, aprssig@tapr.org
Message-ID: <013.00866015.QRDS81A@prodigy.com>
Rendered body type: text/plain

```
State(s)                    : nc
Feature Name                : liz* l*
                     National Geographic Names Data Base

              State(s):  NC, North Carolina
          Feature Name:  Lizard Lick
          Feature Type:  ppl
        County Name(s):  Wake
State/County FIPS Code:  37183
  Topographic Map Name:  Knightdale, Zebulon
 Map Reference Code(s):  35078-G4 35078-G3
Geographic Coordinates:  354859N0782231W 354859N0782229W
    Source Coordinates:
             Elevation:
        Forest Name(s):
       Variant Name(s):
           Description:
               History:
                Status:
         Decision List:
     Record Entry Date:
     Biblio. Ref. Code:

                               ----------------

-------- REPLY, Original message follows --------

> Date: Friday, 09-Feb-96 04:13 PM
>
> From: William M. McClatc       \ Internet:    (billmcc@atlanta.com)
> To:   G. L. Hasty              \ PRODIGY:     (QRDS81A)
>
> Subject: [APRSSIG:6648] RE: W7LUS HF mobile
>
> Excuse me...   Where is "Lizzard Lick, NC" ?
>
> William M. McClatchey, MD, FACP FACR
```

> The Piedmont Clinic
> 35 Collier Road; Suite 775
> Atlanta, Georgia 30367
> 404-352-3580 (voice)
> 404-815-0997 (fax)
>
> CIS: 70554,21 InterNet: billmcc@atlanta.com Amateur Radio Station:
KK4C
>
>
>

-------- REPLY, End of original message --------

---

231. Re: [APRSSIG:6674] TNC DOES NOT RESPOND TO APRS

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 11 Feb 1996 12:14:44 +0000 (EST)
To: Grampyruss@aol.com
Cc: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960211121052.3165A-100000@pinegov>
Rendered body type: text/plain

Russ..

I have a KAM and the answer to you question is simple.....

Use a text editor and go into the aprs\system\inittapr.tnc file....

The very first line says PAR 0.....Change it to PAR 4 and you will
be in business....

Like the docs say....APRS runs in 8 bit, no parity, one stop bit mode and
will not operate at any other setting.

Oh, btw, make double sure your abaud setting and aprs speed setting are
identical as well...I run mine at 4800 even though I have a 486X33 machine.

73 es good luck
de Kevin KD4UYR

---

232. WinAprs Prob...

From: "Holstein's" <holstein@erols.com>
Date: Sun, 11 Feb 1996 08:27:35 -0500
To: aprssig@tapr.org
Message-ID: <199602111327.IAA06502@mail.erols.com>
Rendered body type: text/plain

I just ftp'd a copy of WAPRS022.ZIP and I can't run it. It tells me that my
validation number is incorrect...I never gave it a validation number so how
can it be incorrect??? What's the problem?

Also...I ftp'd it twice and both times it had CRC errors.

Help...Help...Help...

HLV

---

233. APRS Users at Orlando Hamfest ??

From: n2czf@gate.net
Date: Sun, 11 Feb 1996 09:53:56 -0500
To: aprssig@tapr.org
Message-ID: <199602111453.JAA42584@osceola.gate.net>
Rendered body type: text/plain

Just to let anyone attending the Orlando Hamfest know a few APRS users will be
attending on at least Saturday. I have spoken to N4NEQ and WB2GNZ recently and
both are planing to attend including myself.

I personally hope to be there by 9am or so and am planing to leave at 2pm the
latest. I will be runing APRS with a notebook on 145.79 along the Florida
Turnpike to the Fairgrounds via I-4 in Orlando. Power output will be 45W to give
you an idea of a possible range.

At the fairgrounds I will be monitoring 145.79 and 446.00 Simplex. If Orlando is
as RF hostile as the Miami hamfest 446.00 will be the best bet, VHF was trashed
last year in the halls.

I hope that most APRS users attending will be there at some common time on

Saturday. We can all meet on the air and group somewhere on the grounds for a
APRS "Bull Session" or eyeball.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

234. Re: [APRSSIG:6687] Re: TNC DOES NOT RESPOND TO APRS

From: Wb2ngz@aol.com
Date: Sun, 11 Feb 1996 10:07:20 -0500
To: aprssig@tapr.org
Message-ID: <960211100719_419804830@emout10.mail.aol.com>
Rendered body type: text/plain

Dear Kevin, KD4UYR:

In a message dated 96-02-11 08:53:31 EST, you write:

>Russ..
>I have a KAM and the answer to you question is simple.....
>Use a text editor and go into the aprs\system\inittapr.tnc file....
>The very first line says PAR 0.....Change it to PAR 4 and you will
>be in business....

>73 es good luck
>de Kevin KD4UYR

Russ stated in his message to the SIG that he is using a KAM PLUS which means that his EPROM does NOT use numbers to designate parity. The KAM PLUS uses words (ODD, EVEN,MARK,SPACE,NONE) instead of numbers for the PAR command. The proper entry in the INITTAPR.TNC file is PAR NONE for the KAM PLUS not PAR 4.

73...Bob
Ponce Inlet, Florida

---

235. [APRSSIG:6668] Re: 32 mile maps

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Sun, 11 Feb 1996 11:03:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I1329A89MQ9AON51@delphi.com>
Rendered body type: text/plain

Ralph I would like to see your maps. I have been working on some covering the central georgia area around macon using data from ftp at usgs. However it was difficult using only a 30 meg HD. So I just installed a new 1 gig HD and now I think I deleted my most up to date maps. Before I start over I would like to see what you already have to avoid duplication of effort. Perhaps we can split the task and do abeter job.

KC4ZGQ@AOL.COM   OR   JKHAM@DELPHI.COM
JOHN F. KRAUS RN

---

236. [APRSSIG:6670] Re: Tiny S

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Sun, 11 Feb 1996 11:03:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I1329GCHVC9AON51@delphi.com>
Rendered body type: text/plain

Bob I will send this to the sig due to general interest. When I got home from work I tried the yapp program from the files-dos and it works without any problem. I second the motion it is a good program that works well without a great deal of tinkering.
Computer here is a homebrew 486 dx4-100 1 gig HD vga monitor 4 meg ram using parts from the 286 that died. No sleepy windows yet just dos 6.2
Will send central ga maps unless ralph has already covered the area.

Just my two cents worth and it only cost five bucks in todays mini dollaretts.
KC4ZGQ@AOL.COM OR JKHAM@DELPHI.COM
JOHN F. KRAUS RN

John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@AOL.COM>

237. Re: [APRSSIG:6655] Re: Tiny SHELL COMM program

From: ASZ@aol.com
Date: Sun, 11 Feb 1996 11:21:24 -0500
To: aprssig@tapr.org
Message-ID: <960211112123_219361623@emout08.mail.aol.com>
Rendered body type: text/plain

```
Mark,

I removed Yapp from my PC, which is running 95, because no matter what I
tried with 95 properties, I couldn't get Yapp to run.

APRS, conversely, ran perfectly for me on 95 even when I loaded in the beta
Win95 in April of 95.

Yapp would come up and unceremoniously go toes up, black screen, sometimes a
piece of yellow line, nada, dead. I changed every property I could see and
twiddle with, but with no success.

I'm sorry to lose Yapp, and if anybody here is running it successfully,
please post your 95 properties settings. I'd love to get it back.

Tony, WB3KGT
```

---

238. new high digi for Southern California

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 11 Feb 1996 11:10:12 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <01FBD311E3F14001*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Just saw it on my map - KD6KQ-3, at 5700' near Lake Arrowhead.  Should
     provide excellent coverage for much of Orange, Riverside and San
     Bernardino counties, and maybe see into the high desert?

     73 - Jon NW6H
```

---

239. OREGON maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 11 Feb 1996 15:08:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960211150702.577A-100000@greatlakes>
Rendered body type: text/plain

```
I jst made several maps of west Oregon, Yakima WA, and Boise ID.  They
are on tapr in ORmaps01.zip.   THought they might beuseful for all the
rain problems out there...
```

---

240. YAPP for APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 11 Feb 1996 15:32:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960211153002.577G-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 11 Feb 1996, John F. Kraus II wrote:

> Bob I will send this to the sig due to general interest.  When I got
> home from work I tried the yapp program from the files-dos and it works
> without any problem.  I second the motion it is a good program that
> works well without a great deal of tinkering.

WB4APR REPLY COMMENT:

Sounds like a winner to me.  What is the latest YAPP version, and does
someone need to write a BRIEF YAPP.txt file for me to put in my README's?
Is YAPP shareware?  What does the author want?  Can I include YAPP in my
distro disks?
```

---

241. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by tapr.org (8.7.3/8.7.2) with SMTP
id SAA00636 for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:00:04 -0600 (CST)
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by tbc2.tbcnet.com
(8.6.12/8.6.12) with SMTP id RAA07635 for <aprssig@tapr.org>; Sun, 11 Feb 1996 17:45:07 -0600
```

Date: Sun, 11 Feb 1996 17:45:07 -0600
Message-Id: <199602112345.RAA07635@tbc2.tbcnet.com>
X-Sender: jleonard@tbcnet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: multipart/mixed; boundary="=====================_824085757==_"
To: aprssig@tapr.org
From: jleonard@tbcnet.com (John B. Leonard)
Subject: Re: [APRSSIG:6667] 32 mile maps
X-Attachments: C:\EUDORA\ILCOUNTY.ZIP;

--=====================_824085757==_
Content-Type: text/plain; charset="us-ascii"

Bob,
Attached is ILCOUNTY.ZIP, with 3 maps of scales 32 mi or greater.

ILNOCNTY.map NO IL County Lines
ILSOCNTY.MAP So IL County Lines
ILLEMONT.MAP A Chicago area map, centered on Lemont IL.

The rest I have made have been 16 mi or less.

>
>2) If you are using a 32 mile or larger map that was generated locally
>and is NOT in my standard distros, then SEND THEM TO ME. I do not want
>maps below this scale, but do want my standard distros to cover everywhere
>down to this 32 mile USGS level.

--=====================_824085757==_
Content-Type: application/mac-binhex40; name="ILCOUNTY.ZIP"
Content-Disposition: attachment; filename="ILCOUNTY.ZIP"

(This file must be converted with BinHex 4.0)

```
:$%P-3dp96P4C,PT*8!"#58j"E@4[F`!!!!",A!!!!!!G5e",!`38!!!!#!"*6C)
IHXdLe`!M!!$[D`!!$!!!!%P-6%906dj8,Ne"8+9pbkiY0j,GA)$q34q`I8%'hf0
l8V"rSVSYf!fSZS#ZKVrIZ4kaGqBj9i1b0ELa6QiQNmN-4J6M3Ih@idHXhekrr[,
E2Mr+M%NF*dKlr6(pkrTa6K9ZDP4qHrh(lrriMrrcqrrmpCGrrI[Ir[El[rrR2hl
lpCIb+QKcr9KrZrllpCHabkZ+a%A@HA@4#E*I@q5!V&FYTJed[QShAD$M9EGSS-[
9Aa'QE0pH-8cC2Pja4"[EeeF,8rCEAQfBSYpjMDfBSYhFVpj0-GUjARf,$VDEVe&
0f@kmaM"PZriD4h5b[rDDcC6pa@XZdF9qkQZ&+IXTVc90dFmiVee-dFrBVpe0dFp
BVle&$rSEmhA#&2f0m6V6P2he9bdP!AYX&qJ*f$BZX!dUHkXAD!RBZ&aJ'J3kl1F
#03%Dphf"N3#MlHX#ai$ITmm,Y!4X2#k`%V$a094q*!)f[SE+cd6!aYG3mD&Q@3C
4%S6Dc1LkmZ(A-,rQhD2kTP'Z)IIVi4h[*e!rS1&EUTYjGE296E6pDZ!5!V39#)$
eDRLVZTV"e6("ZTU!&GZ0pU6RrTLMaecMi+G[TPJKeh"UL36AHqjaJIB'3herqUV
&I@&9i1IZ*ciD9EhAUf+0SMI5)ATV&fb((c!L8#`#0UbNr(-PQI`hq'ppG068dH4
!YSDe-A9kVD62ThHp5VZp0Kj8fhP6h6JI(Gh%eQ!2[CpAi)P[F([)mLIfGlb"UeH
qCEQ"`')&T`LJ[pdHr@d2HPa2BMGGi0ENZ-RQF-2$MPj-kqdeF%-8Mp%$HIF*8'F
a'!qQL[SH#*ZddQjJ0B10ViA2P5"+66$`)HX0F!laNbCcrqQX4RM%(TE!0UJH-34
Sq+2LVC0b&NClda"jF&5)Sf)%Ql@Ub@blQXEA5Hc[)8(`YPC0'`8bk2(IjrNN-G(
2EY"UZ"jGjmiC[S1E3*VLa&US&RVTTP)6lC`A2mPC(iS9GqCVEEh1Qh+9c3p&ZlN
r&#YqpJr&IG1$[LMiYFdU#[@$jd2GN!$1eqE+([jl8#fed9pBJU4ilJMphBrT9Rq
JZ+plPRZB9NrDqG!Y2Z1iQpqcGIrG62hHR[cEK#jr&AfZeUITd'Hmk$iH)%9AT6l
P#jLHTKFmA5pqTUNR-QN9rkm%@qU8S2+Mh!%8BpY3PG1JB6alhJ&'ZYXGi&QV*+J
Af!E3KihQ%d9j5G!5M![`S5["cTmZ-+EBL`$m9Q(AG+K6!E4C#6E!%@1$@HZXZ$,
ZJ(`EG`"4@)T!1eJ123'CZpm"fEVG`FQI%X##`K)`f2T*MeKqL`rJ6qd'Y,+'T&`
[X$LlAjPADVd$6!+@m!HJjpVZ!$h$h"#!2LS!d)ZBPPB6K!4TEmHJjdq`M!5fJ(K
jJCHP%!)6$eQ(,d&kh3*aMcHS8K5kAQPEIfM!j)lVe8Q'b"4C)YY0Naj4I1,kHI4
R6,EiBep[G1kd[@!9aZkdff-2fZdIfVl3q%+VlrX*,8pkIqihdklLFf"PefKhX2-
R'!L"6JV!pCS3$aAI9f"G)!$Q(F#-U1-#23%-$r#!VY4X8r1Zb!kERe@lRilE"CB
(9Nq1X0b(ZZl[er4q%&`e4@ZP$#B([8&,%0Q'mVU)Z5$[EL!NXQpYfMI3%icEdcr
MkKTAK`+(kZR3I`,K"GCbA4&`'C3l!2I(m8,&&HM)'mK9M3jR2N+J*aMCCZ4G)cY
m!bciNL$mN`BfFUM$#cjIjr1L`bq+M45l'CC)!T'!KQ",80da`I6qJJ+%i-K-NYc
Jeb+BqG0dBi*TFF%"S['bPH@RjecLLhj'q&#2dbqajLXSb`&JrI@elL#qJCk0a`1
-#f"Ff*pr!HfRS'HE0fJ*)N&082i8D2$MpKBI-lI@kdfAemYXZ!B5$p*%E!`0N5P
#biML%S4lS#PCqk$Y6KIp'+6$pX'mdd1r"RAj6[XC0#MR5,P"D[4c0,`M&IbJ[k0
aaQ9Z"%d"l$"-Mr5rc!Mj2p,1K6QJV9jrYAQRid@6![6)r""Gp)q3!)C-"G(ckY6
LKIi58PS3pG@TX)0q%bMZER@0RA%lJri6D1d48YV$KZhSdY3b0m+d[@53!)`2A6+
-CB4-dr8L,j6pNJ@bAc)h,YT0EFD3!2I+HFNbZ+L0'GN&jm@P!PT0``Cj-qdb#@3
)9"VBT$3$C)L5(P%ZBG"U'UE0Y*X1Q4'ErFRql(@B6YUT[5lDVD49edqShCXfAqq
QidiAlG8(hDE(KNdT#@S#GRhN-HV35[!B#B`%bmB2A%FG5VDN&94,JQTc#%D%VS3
EerB0p!ISFMMTpT9J*cJ'N4CA4),f$A$-m`lB-la6q`'fV('U)`*SSCDDUU85diD
hbB0e!ef'ZX"1F!akXBETe9US0ffFDCB,X"mBkY2QBUIm,`R5+r8"N3!E6kU2IJI
a!0G$4l-H'GkYhd"U&UkpRTBr9-`EF0Np3E@#i`U%pZ%5K2EK'[b!DA8pYYAe1&E
A-bhfQFTVTPD&L19DK'cPBTaTPN1DmXT+2EXLIdScC2@mdV00D[Z9PMqfE(`@YP'
mXY0QiC@4E@EHYE+IRF"k5"TmfCMRl6YlTJ6BZ4IBr3i`(ZcG")E-V)kpQm#@Xkq
INX!QBMmY`FLI9S*MRb'f5!)K#h23D8J`%U`%1i(YdJ'c&Z*Se%M3%S`%kaXi"T'
hT`8qSLHBhm!f`)S6b0YEhYjbm&K%!MRQRQrDdfrDdh(D26rd2HpjhpEBSe[KHm6
```

```
5)F##%hJlX@UjE6A@F11ej-+Yke`!,PQSBpa9SBHabLX9-6B%d,J3#H`C3U)Hk'S
d2["YBIG`m*2hBBhl(EKX)DIK$3a)rZL)I2"+H`9H2HKql2D0EAV(VXB3E('pFF4
aBhJAf!mHHR-D9S1!*`pheC-!ANY['i2qlA)p(E+URUX0ArPFEETI*k$cklNH!DP
60m`c6JXX0mlUpDc"'HX*UNbi1QD#*RZ[eQ*JUe1ISYmf4DqJb"$"3b"+$[l'1%S
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EYp*@EZ)5'VZF&i(Y0q58F6Ba,d1X%+0Tiai-0N40J"NrrS6G6Y)!e`D'dCXj!'a
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((TjU#%d,M3icr'8NV1bQNY#dFZRS!K1MAh$AUclprr'2G!XdMm#jf&[X-q"H,lM
eYEF(%RU@R3PdpK9UCNR`-,A5jRY,8pqQl+Nk0c)mkCAXTDF$[p92%aH,!Jd3FTP
Ja*Uaca2B@jS69cY!lSXm!(04m"-K6FVG8kMVJ!eSR2BlYV'hd(cU5D'H3MK4%YV
@FGqjVkd"QY*E1qCERqEC5$8MNJ9BGdh,EH34"%fIZ'('NX`NKU!&I+raISE$dT-
X2BQV!fVFSU*U&H%p3,2S8*3lHbCLBXmR3-k)J0c6@JPG[F5'Bj%4r+3VTSjGHA,
"eVTTQlS5TZ!@NPr['VB*XI[Q+8I3%lj*be96,hZ@`"aCLbCm&iSe*SirJTTPk45
HdL8!Z6ZFbpbRXR$1XaZKA-$G,i"EQlUcYmEIG*X@V94Mk$E#mS3i(4*QR,4jUL0
`!5&Xa5)"iPA*`&8cP(hEFFb4DdX)YG"(B2MdF-hk`-Tj-Di*XYp"C(i@,@j+N!!
6NSqZbeRE0k(e#,9Fi&U'lNm`IiH"U98(+c',%%S!-ajBUYU)E!q6)4j6KqYDbj@
TFDf+-bFc1CP8dDH"T&a4-L6!SQXcbL(M`3CcPDMljlfqY'JpLf#,H%pJQJ4(DF(
33I9S6aK+mKQ2`-`XCV-3U9P6l%bCk-l-iQfm2[fP6R&P'!R-92SVJ5UKpXjUSZU
```

```
%AK-brGSMZQ%T$THXhq"@E,PqU`KK*(!B)rS5P,dE#9e`kq2NrX`8T-m&IX28f)H
DrD1DVNi+!mC85k4'!b+I3P$kHbMVID[4p#SK*2#!RQR`RSPar9)MiErYJP%M`Bj
`e1C+'!TCTfP4CVEm920683"PHRpmDqGm+UKD6'@Y#$aa)d21R$+DCj'**YaU1(%
I!fdJr1kSa,3%I*S@r6DIqi0b`cXLa!hK4r'kff*TUJE`IJ5IHKEQC3SrYIb&K@G
F`4"5)G2KlRPa8`4AGI)kdHqZ+!'m4d)N9EiH810kK(-4`(3rTJ%"-i5A9kLJB!P
ZQrAT!YD20Fl'H!SabBq4CYUIN!"1B&Q'&55dZ29K[3BZc&Em`TXc3RB+EdQcAMq
Y)'1$E&TikDmFCG[MEiaK@%8&rFHbrM5FTQ'JT&19NG$cNiAhPkD,+eiV`Xei0BU
T`X6Z!lHTVLDNBUcb!NpSFI-)B*I8l"[H-eTH3AjV`hM(%B)VaMBGU"!!)[`bZbc
iTNE60$[*[#EmT1akPb@8k1X@GbmFH8DeQZ'0p`mYqPL3!02qdl9fGICYmeQ$CE1
2K2@pIKBAC'R!F'2+QcIFQ(,$iTEJ'MYd@q8pbbJ*lF")L1Z-J05$'mS2V)6A!Q5
k,(JU+LJ"ZN+*+3e666X#M`l%A15b6qKKR)$`9Z0%bRX%h(MmZKEY*l@)1bGH,("
&di9(5BKIEM@DA[M5FcZAaeQ@4FiUS#V`%C4YUQS`bh!E!DN@Z3)e'-",6'`ck5M
CQ*qf+KEMCaabC)kDQTY8[QQ`I1AJH+G!D2i"5MNmZ9K!,4IF0V@GCQ1Dp!9XM4k
""e&-#)&VL2jHXBkE1!P`Zdq)['cc2"[`L!C2&Q!BQC`E'Nqh#(MF-`ZQAK83Q"j
Q64rS#Dp6M*Aj9-Hb1TE9U5ZK+GR(fFd0qbqEYajpG!Y-G`+1)B)KZ)AfqrbemR3
%m*P#RP$M%e2Q+fU-fjd!9hITJZf'bfBYciNaVfR8N9ah5N#,j!BIIY#i`16)5#R
,,AVkKqq%p80R9f9cS,MZK*&3G2p$lhI-'HE5Gm4,AYcT@JaPH#hQqF[m(NUYaS%
iT!9&`*G""&l!j1XK3Km*FIDZHIXBi!P6F0[8-CV5c!5XJ0-R(aKa&b+`q19@Si2
eTqc@-bI#QZTD6RIqXLeKj+Gdj*,Mm,ec0,R60ZjUC!&[N!"Qj+JVcpi%bcM5Vi"
bkaZIKMIGI`JQHU!'H&1HZ#UcK8[N'U!KY`6m%MHc!6dK2Yh')a@9DY$V!VbM+J%
-"#2ZUpPG$r"k-)IS9K`jUARTSdYLLD46%Elj`-kl"hi4p!$H!j5Kjefibb$JGS0
`U@RP89-Ik4A!f@QHX'jS-DkmPE@RQGmEITYkENZNT[3EZM+AI1''&Be[hPKMRV6
aG-jc+G,cJp-UCBkVi$E9hRjAZi"U4LjNhkC$XmaQd1d%2@$'HLMT95pJDTU9k,q
SMCE9lV%AkPh[!3NV$Xme(l(`@B0e"!d,'11#@l&1[Da0E'B#HJMj!dIaL-FeI%'
"jcB-3NKCA0#9,@"B-V`LC2-`1hXmj+NiL"PQ-0pk`"X)MTC(fLB!RcbKk3b[BH`
e4KLp`Qed(hV-D(h+[36[9DpTIrkT6XPDe$#&+LY*Nkk$b5dSFLq"*h`E,'hGdcD
"@4[8M`NBrK)EcDTYC6bY&!`p'ITKTUhF4eIYm`qdf,VAh-`6EU(RQP-c'-HNI'B
8m+-PHhEXdJXR%1`,q+,*Aqmm*4hjTL`lqJhq#j2fe*0[ThBDH'VqNpKMVKHPiI0
mmNU!*mdia4&Z)4hp[0d(2BZbb`2ic*+!`kA(3NP!9#+mle204LVQe-DjRE1qc4f
!HFEAQS5T*0!EERekarXjaXB55QP-Icc0j1T+i220eEA`YM88'GUD@KEa$P#`X9!
f(GHjG#,(aFI)5#2b&e9R[bVS%9L`+Xai#Dd)3q#V[iaceG5$9Mh#"m&eb9IcC@!
G1EdB8,KMQ6V"-U$FRE%qKmKdGGkI!KJ#@kcrYe!m0hmD(&&5,HpkEDRq3KI`K4q
lB%A,9lcMM%qaUm&l4pQX)m)Z'N0!BeBN1VKlBf0@2'TN04Kcq)Ze"-p21m$c%il
%q@"43p*cN!!Bp0X&9p1p["q"3jrYRcZZ+q'dkZ@Q6,jaF8)hBDPN'SeVCSY2c%A
ead,r'`[+'$f[`l%8#8a`Pf8NB"'U)i`SDbR%E"@Pabr8+*R%#TF!2RiR-#[R%8L
jS6$G6Ap#klH`l[h4TaHh6I'G`0Hp!0CQY4pVSpL3!29%2PH3!'9r+M6IB4K3dZF
C(!R[JGH$&+5Q@%6`eUYA*jr4`*3NP*RJ2qVP%&CNeh"#&E3!(()%,k'ZXH3A,'p
eeS#qp5F%YFII%Ya#rKa-HBMPX@"Gj`1IVl25$EHDp5em@N+NP*!!D+bl+L%DJ&Q
h%kEHe5Z1%L*Gr&NQeLZYf1048@lKM)F*$"eUS3Hb)lB3-rDXJUDlTFq1i3@A"3d
[Er%YAapDh*TqAM&Dh[5h,-1%$eq5CaPQI[+UN!#IDRkUcbHlAfIem!(m"3HAa9)
9`ZN[A"p,(%ce5lS53`Fq)4&&+BqrkH#@#hr"SDK5SVmD!LYRI`D`2mVAIh"RNlA
i2e",!3)8!"3!!!!)!%P0NKpkc5,A!#-!!1pV!!!-!!!!!!!!!!%!)!!!!!!!!!"
*6%a&68p19#j039"35`%#&!!8!!!!#!!lRR!ISI[jhr!@!!#L5J!!$!!!!!!!!!!
"!#!!!!!U)`!!58a16d019&NZ68&38%X"!K3!&!!!!!J!GfqC(jUq-LNU%!!!Sc3
!!!`!!!!!!!!!!3!J!!!!4$S!!%P-8dp$6P4C,Ne"8&","3B!!!!!!`!$!+i!!!#
B5J!!!!#Zi!!!:
```

```
--=====================_824085757==_
Content-Type: text/plain; charset="us-ascii"

---------
J Barry Leonard
DeKalb IL
Subependymoma 1990
E-MAIL:  jleonard@tbcnet.com


--=====================_824085757==_--
```

---

242. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by tapr.org (8.7.3/8.7.2)
 with SMTP id SAA01026 for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:03:30 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
        with SMTP id RAA14328 for <aprssig@tapr.org>; Sun, 11 Feb 1996 17:44:09 -0500
Date: Sun, 11 Feb 1996 17:44:09 -0500
Message-Id: <2.2.16.19960211174408.403f1dbe@mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Pro Version 2.2 (16)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Georgia 32 mile maps
```

I zipped up the GAMAPS01.ZIP file as requested.

TAPR was down when I tried to FTP, so they are on my site. I'll move them
to TAPR as soon as I can.

my site:

ftp.mindspring.com/users/rwf/aprs

Or via web at   www.mindspring.com/~rwf

243. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from ednet1.osl.or.gov (ednet1.osl.or.gov [204.212.6.40]) by tapr.org (8.7.3/8.7.2) with SMTP
id SAA01431 for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:09:43 -0600 (CST)
Received: by ednet1.osl.or.gov id AA11522
  (5.67a8/IDA-1.5 for aprssig@tapr.org); Sun, 11 Feb 1996 16:06:03 -0800
Date: Sun, 11 Feb 1996 16:06:03 -0800
Message-Id: <199602120006.AA11522@ednet1.osl.or.gov>
From: bgrantha@ednet1.osl.or.gov (bob g. grantham)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:6695] OREGON maps
Reply-To: bgrantha@ednet1.osl.or.gov
```

Tnx a lot , will look into it.
Bob G

--
Bob Grantham
In down-town Waldport, Or.

244. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01754
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:17:02 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00492 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:23 -0500
Received: from panda.UUCP (uucp@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29059 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:16 -0500
Received: by panda.org (0.99.950801)
  id AA01437; 11 Feb 96 11:26:44 -0500
From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Date: 10 Feb 96 19:48:00 -0500
Subject: [APRSSIG:6676] Re: 32 mile maps
Message-ID: <4d5_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org
```

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Subject: [APRSSIG:6676] Re: 32 mile maps

From: rwf <rwf@mindspring.com>
Subject: [APRSSIG:6668] Re: 32 mile maps

Bob- Do you have the 32 mile Georgia maps (GA-1 thru Ga-10) that I made?

and

Did you fix (in 74I) the problem that causes hsp lockup when RMC sentences
are present?

It is repeatable here by 2 diff people and 2 diff computers. Have NOT tried
it on 74i yet. I'm still on this 2 month Florida road trip and can't get to
the GPS to reset the string to RMC from GLL right now. It is buried under a
bunch of junk in the back of the van.

I'll try to do it next week.

Ralph N4NEQ

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

245. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01770
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:17:10 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00498 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:29 -0500
Received: from panda.UUCP (uucp@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29071 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:22 -0500
Received: by panda.org (0.99.950801)
  id AA01446; 11 Feb 96 11:26:52 -0500
From: "james.R..Duncan"@"james.R..Duncan"@*user@*site.*domain.org.org ("james R. Duncan")
Date: 10 Feb 96 23:39:00 -0500
Subject: [APRSSIG:6685] Where's all these dupes coming from?
Message-ID: <4de_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org
```

From: "James R. Duncan" <102413.375@compuserve.com>
Subject: [APRSSIG:6685] Where's all these dupes coming from?

Hey folks!

Who's the ________________________________ out there that's refiling messages
(fill in your favorite expletive!)

four and five times from PANDA.NET? C'mon, this isn't funny and it's a total
waste of
time and, not to mention, money for those of us on a tight budget when we have
to
spend our valuable internet time receiving multiple duplicate messages!

I am certain that neither Bob nor RWF are doing this intentionally! I'm also
having a
little doubt about Bob having changed his EMail address unexpectedly...The URL
looks a LITTLE strange with multiple @'s....

Hope this is just somebody ACTING stupid and really isn't a symptom of things
to
come!

While I'm at it, it's REALLY annoying to read complete copies of original
messages
in replies/comments. Can we either completely drop this practice or, AT LEAST,
just quote enough to refresh memories.

Something to think about, PLEASE!

73 de Jim, KU0G

--
|Fidonet: "james R. Duncan" 1:330/317
|Internet: "james.R..Duncan"@"james.R..Duncan"@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

246. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01795
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:17:14 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00501 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:32 -0500
Received: from panda.UUCP (uucp@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29063 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:18 -0500
Received: by panda.org (0.99.950801)
  id AA01439; 11 Feb 96 11:26:45 -0500
From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Date: 10 Feb 96 19:50:00 -0500
Subject: [APRSSIG:6677] Re: Wx Rep
Message-ID: <4d7_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org
```

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Subject: [APRSSIG:6677] Re: Wx Rep

From: Rwf@Rwf@*user@*site.*domain.org.org (Rwf)
Subject: [APRSSIG:6669] Re: Wx Rep

From: rwf <rwf@mindspring.com>
Subject: [APRSSIG:6644] Re: Wx Reporting errors

Bob wrote:

>If this is NOT working correctly, then I need to fix it. Pse confirm
>what version of APRS you are using, and if you are seeing TNC WX
>POSITS (BEACON) overwriting WX data on the P-LIST.
>
>Thanks! I was about to release a new version, but will wait...
>

Bob- during the short time I had my remote Ulti II up (before it went whacko), I was running APRS 74C to monitor it. Every beacon overwrote my WX posit.

Ralph

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Rwf 1:330/317
|Internet: Rwf@Rwf@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

247. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01819
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:17:41 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00504 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:35 -0500
Received: from panda.UUCP (uucp@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29057 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:14 -0500
Received: by panda.org (0.99.950801)
  id AA01435; 11 Feb 96 11:26:42 -0500
From: Grampyruss@aol.Com (Grampyruss@aol.Com)
Date: 10 Feb 96 18:30:00 -0500
Subject: [APRSSIG:6674] TNC DOES NOT RESPOND TO APRS
Message-ID: <4d3_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org
```

From: Grampyruss@aol.com
Subject: [APRSSIG:6674] TNC DOES NOT RESPOND TO APRS

Bob Bruninga WB4APR
Glen-Burnie, MD 21060

fROM: Russ Hulber KA1VMQ
        5 Robinson Dr., Bedford, MA 01730
        TN (617) 275-9313

E-mail address: Grampyruss@aol.com

I am very much interested in your APRS program and
have a copy of it and have been trying to get it
to work for me but for some reason I can't get the
programs to communicate with my Kantronics KamPlus
TNC. If I can get it to work I would be interested
in getting it registered!

When the question comes up, TNC = AEA, PICO OR TAPR?
should be entered? I have tried both PICO & TAPR and
neither one will work!

There is also a choice involving 2 port Kam and I have
tried it with "K" and without, but will not work.

I also went to the O, C, T command and could not get the
TNC to respond.

When in the APRS working mode the xmttr did not repond
to a "ping" and the screen showed no indication of
traffic when traffic was indicated on the transceiver.

If you have any suggestions I would appreciate the same,
in addition to my E-mail address I can be reached at
by home BBS KA1VMQ@KB4N.#EMA.#USA.NOAM, usually the
latter part of that string is not necssary anymore.
 73 Russ

```
--
|Fidonet:  Grampyruss@aol.Com 1:330/317
|Internet: Grampyruss@aol.Com
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

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248. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

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Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01843
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:17:49 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00507 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:39 -0500
Received: from panda.UUCP (news@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29060 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:16 -0500
Received: by panda.org (0.99.950801)
  id AA01438; 11 Feb 96 11:26:44 -0500
From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 10 Feb 96 19:52:00 -0500
```

```
Subject: [APRSSIG:6678] Re: Tiny S
Message-ID: <4d6_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org




From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6678] Re: Tiny S




From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6670] Re: Tiny S



From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6643] Re: Tiny SHELL COMM program

On Thu, 8 Feb 1996, Mark Oppenheim wrote:

> At 04:38 PM 2/8/96 -0600, Bob Bruninga wrote:
> >My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
> >I had always hoped that someone would identify a very simple and basic
> >COMM program that could be run after SHELLing to DOS....
>
> I vote for WA7MBL's YAPP 2.0 (Shareware)

WB4APR REPLY COMMENT:

SOUNDS PERFECT.  Have you tried it fropm APRS?  Just do a FILES-DOS and
see if it will run.  Thanks!


--
|Fidonet:  Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet:  Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
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| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet:  Bob Bruninga 1:330/317
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| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

---

249. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01866
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:18:00 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00510 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:41 -0500
Received: from panda.UUCP (news@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29064 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:18 -0500
Received: by panda.org (0.99.950801)
  id AA01440; 11 Feb 96 11:26:46 -0500
From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 10 Feb 96 19:54:00 -0500
Subject: [APRSSIG:6679] 32 mile ma
Message-ID: <4d8_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org
```

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6679] 32 mile ma

From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6667] 32 mile maps

I have been cleaning up my standard MAP distros E, W, M, C, SE maps. I did a MAPS-HEIRARCHY to see what areas do not have decent coverage at the 32 mile scale. As a result, I just did the west coast of Oregon and south alabama.

The problem is that with the hundreds of maps, I can't be sure that everyone is covered everywhere. Nor do I want to duplicate maps that someone else has done.

1) If anyone lives in an area of APRS activity that does not have one of the 32 mile (or so) USGS maps that gives roads, rivers, county lines and administrative boundaries, PLEASE TELL ME. Give me the LAT/LONG of the needed CENTER.

2) If you are using a 32 mile or larger map that was generated locally and is NOT in my standard distros, then SEND THEM TO ME. I do not want maps below this scale, but do want my standard distros to cover everywhere down to this 32 mile USGS level.

Thanks. P.S. Still waiting for feedback on BETA74i. Only one comment heard from EER.

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

250. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01925 for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:18:06 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00516 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:44 -0500
Received: from panda.UUCP (uucp@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29066 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:19 -0500
Received: by panda.org (0.99.950801)
  id AA01441; 11 Feb 96 11:26:47 -0500
From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Date: 10 Feb 96 19:56:00 -0500
Subject: [APRSSIG:6680] Tiny SHELL
Message-ID: <4d9_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6680] Tiny SHELL

From: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org (Bob Bruninga)
Subject: [APRSSIG:6671] Tiny SHELL

From: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: [APRSSIG:6632] Tiny SHELL COMM program

My OPS-COMM-TNC dumb terminal mode was only intended as a debugging tool.
I had always hoped that someone would identify a very simple and basic
COMM program that could be run after SHELLing to DOS. Since no one has
identified such a program, maybe it is time to ask again...

Since APRS is so big, it will have to be a small DOS program.. But it
would be very valuable for APRSdos...

With such a program, a user could do a FILES-DOS to shell to DOS, run the
program and use his TNC to conect to another station, do file transfers,
etc, and then when done, EXIT back to APRS...

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
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--
|Fidonet: Bob Bruninga 1:330/317
|Internet: Bob.Bruninga@Bob.Bruninga@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

251. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA01953
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:18:09 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00519 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:46 -0500
Received: from panda.UUCP (news@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29068 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:21 -0500
Received: by panda.org (0.99.950801)
  id AA01443; 11 Feb 96 11:26:49 -0500
From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Date: 10 Feb 96 19:57:00 -0500
Subject: [APRSSIG:6681] Re: Basics
Message-ID: <4db_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org

From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Subject: [APRSSIG:6681] Re: Basics

From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Subject: [APRSSIG:6672] Re: Basics

From: Scott Miller <scottm@sierra.net>
Subject: [APRSSIG:6645] Re: Basics.

Jim Prentice WA2MZF QCWA 27911 wrote:

```
>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimJim after looking at the cAVe page and reading your posting I'm not
shure your awnsers are there.
where do you live? what kind of tnc / raido do you have?

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet:  Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org
```

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252. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from toto.pn.com (toto.pn.com [205.136.64.8]) by tapr.org (8.7.3/8.7.2) with SMTP id SAA02006
for <aprssig@tapr.org>; Sun, 11 Feb 1996 18:18:14 -0600 (CST)
Received: from pioneer.ci.net (pioneer.ci.net [205.136.67.65]) by toto.pn.com (8.6.11) with ESMTP
   id QAA00522 for <aprssig@tapr.org>; Sun, 11 Feb 1996 16:10:49 -0500
Received: from panda.UUCP (news@localhost) by pioneer.ci.net (8.6.12) with UUCP
   id QAA29067 for aprssig@tapr.org; Sun, 11 Feb 1996 16:05:19 -0500
Received: by panda.org (0.99.950801)
  id AA01442; 11 Feb 96 11:26:48 -0500
From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Date: 10 Feb 96 19:57:00 -0500
Subject: [APRSSIG:6682] Re: Basics
Message-ID: <4da_9602111126@panda.org>
Organization: Fidonet: PandA's Den BBS PandA's Den BBS <-> Internet Gateway
To: aprssig@tapr.org




From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Subject: [APRSSIG:6682] Re: Basics




From: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org (Scott Miller)
Subject: [APRSSIG:6673] Re: Basics



From: Scott Miller <scottm@sierra.net>
Subject: [APRSSIG:6646] Re: Basics.

Jim Prentice WA2MZF QCWA 27911 wrote:
```

>
> Hello to all. I have been subscribed for a few weeks or better now and
> understanding somewhat what is all going on and most interested.
>
> However wonder if someone can point me into or some others that may
> come on line to some basics of what all this is about vs jumping right
> in the middle. Lots of various comments as to what to do and why but
> for newcomer it can be a bit confusing. An email a few weeks back was
> helpfull in what to set the tnc to etc so we dont plaster various junk
> out. But I for one would like to have some more details.
>
> Worked a few stations on HF but just short one liners etc. So again
> any information more specific would be appreciated.
>
> Thanks.
>
> JimSorry Jim I'm allways hitting the send button to soon.

Have you read the txt files that come with the program?
I think the awnsers you are looking for can be found there.
Scott

--
|Fidonet: Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

--
|Fidonet: Scott Miller 1:330/317
|Internet: Scott.Miller@Scott.Miller@*user@*site.*domain.org.org
| Web URL: http://www.panda.org
| Standard disclaimer: The views of this user are strictly their own.
| PandA's Den BBS FidoNet < > internet gateway - email info@panda.org

---

253. Re: [APRSSIG:6692] Re: Yapp

From: tedant@usa.pipeline.com (Theodore Antanaitis)
Date: Sun, 11 Feb 1996 16:55:21 -0500
To: aprssig@tapr.org
Message-ID: <9602112155.AA29185@pipe8>
Rendered body type: text/plain

Has anyone had success using Yapp with an HSP?

I have not been succesful and have had to replace the HSP with
a serial cable to communicate properly with the THC.

I would be interested in the Yapp configuration file if anyone has
gotten this to work.
--
TNX

Theodore Antanaitis WA7ZZB

---

254. Lost mail

From: Lee Ziegenhals <n5lyt@tapr.org>
Date: Sun, 11 Feb 1996 18:44:33 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.960211183852.12822C-100000@gristle.datarace.com>
Rendered body type: text/plain

Due to a glitch while upgrading the operating system on tapr.org, several
pieces of mail were lost or mangled on the APRSSIG mailing list. These
losses all occured between about 17:45 and 18:20 CST on Sunday, 11 November.

If you submitted mail to the APRSSIG mailing list Sunday afternoon and it did
not get posted correctly, you'll need to resend it. Please accept my
apologies for the error.

Lee Ziegenhals

255. ult2000 & aprs74i

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sun, 11 Feb 1996 18:25:42 -0800
To: aprssig@tapr.org
Message-ID: <199602120225.SAA23831@poseidon>
Rendered body type: text/plain

Attn, Bob Bruninga/WB4APR
  APRS VER74e and Ulti2000, locking up keyboard frequently, causing reboot of
program. Apparent collision of data sent at same time. 15 second update from
ult2000 sends, "GETTING WX STATION DATA", at top of screen inbetween range
and times boxes.. Transmits WX data every 9 minutes. Wind dir/spd and temp sent
correctly, but Barometer in error. If 3009in, reports indicates B019 Inches.
Ocassionaly B018", seems to be stuck at 3019, even if actual pressure rises or
drops. Now Ult2000 shows Baro of 3003, is transmiting on air B017...
  Acquired Ver74i, from TAPR last evening, after looking 4 other BBS's, not
having the screen lockups as before, but can lock it up, and time box upper
right will flash "comm buffer overflow" continuously until you break WX data
connection. Returns to normal operation of APRS keyboard. Can then reconnect
Ult2a connection and 15 second updates resume, and ops normal again.
   I lost LOG setting of ULTimeter program, called Peet and they got me back
up and running, via phone conversation. Also advised to contact them in 2 1/2
weeks for new Version & Program update, Bill had talked to you, day before.
I mentioned Baro error, would look into it..
   Any other bugs, will advise. Anyone else on sig have unusual occurances with
Ultim2000 and program ?? Pse advise.
         73's & Enjoy, Bill/WB6LPG (wbliss@coastside.net)
NNNN

WBB/WB6LPG

---

256. APRS PROBLEM NOT SOLVED

From: Grampyruss@aol.com
Date: Sun, 11 Feb 1996 21:45:48 -0500
To: kheyboer@pinegov.co.pine11as.f1.us
Cc: aprssig@tapr.org
Message-ID: <960211214547_319339282@mail04.mail.aol.com>
Rendered body type: text/plain

Hi Kevin, Russ KA1VM here,
Thanks for your come back to my frustration regarding my
inability to make the APRS program function with my
Kamplus TNC. I changed the PAR from 0 to 4 as you recommended,
still can't talk to the TNC in the command setting, after I
go thru all the recommended settings for APRS and arrive at
the point where I do a "Ping" the transmitter does not
respond since there is no communication to it nor do I see
any response on the screen from input from received info
from the transceiver.
My son-in-law is using this program on his KPC3 and has no
problem at all (he can be reached at NO1R@KB4N.#EMA/USA/NA
(U MAY NOT NEED ALL THE GARBAGE AFTER KB4N), he lead me to
the program and has a considerable knowledge of all this
protocol etc. and is very frustrated at this point, can't
understand why we can not communicate with the Kam+ in the
command mode!)
He feels there just has to be some setting when using the
Kam+ that is peculiar (to say the least about the Kam+)
that we haven't been able to discern).

bruning@nadn.navy.mil (Bob Bruninga) replied and suggests
the following:
RE: PICO & TAPR, neither one will work, use T for TAPR
RE: 2 PORT KAM and I have tried it with "K" and without
    but will not work. Use K for KAM.

I also went to the O, C, T command and could not get the TNC
to respond (my experience also).
He asks the follwing questions:
What baud rate Ans. 4800
What other softwares Ans. KaGold, however, when I use APR
I start from DOS, kaGold has not been loaded.
Have you tried PAR none? Ans. Yes, that was the setting before
I change the setting as you recommended.
Have you read trouble.txt Ans. No, I was hoping this would be
an uncomplicated answer that would not tax the tar out of my
limited knowledge (I know when all else fails, read the
instructions but these instructions are not simple for non-

software giants, is there something about the Kam+ that is
different from the usual TNC'S, why does their KPC3 work ok?)

Are you running the KAM+ or the KPC3? If you are running the
Kam+ would you give me all the settings you use stepXstep. Did
you have any problems getting your TNC to respond when you
did the O, C, T command sequence or was it that you din't find
it necssary.

Your help is very much appreciated!
73 Russ Grampyruss@aol.com
        or ka1vmq@kb4n

---

257. Re:32 Mile Maps

From: jleonard@tbcnet.com (John B. Leonard)
Date: Sun, 11 Feb 1996 21:35:53 -0600
To: aprssig@tapr.org
Message-ID: <199602120335.VAA09783@tbc2.tbcnet.com>
Rendered body type: text/plain

My apologies to the SIG. A message that was intended for APR got sent to
the SIG.

Sorry!

---------
J Barry Leonard
DeKalb IL
E-MAIL: jleonard@tbcnet.com

---

258. Trying Again, HELP

From: Tom & Linda MacKay <mackay@lr.net>
Date: Sun, 11 Feb 1996 22:22:15 -0500
To: aprssig@tapr.org
Message-ID: <199602120336.WAA12110@ns1.lr.net>
Rendered body type: text/plain

I have a KPC, Ver6 with a KAM factory HSP switch, and A Eagle Accunav sport
GPS. I still can not get it to work.

When APRS comes up I see a message in the upper right "HSP timed out"
and then I see it try to communicate with NMEA and then times out again.

Can anyone tell me what the exact commands that have to be set in the KPC3
to make it work with an Eagle. Also is there anything else I should be doing
to make this work.

Help is needed we have been struggleing with this for two weeks and time is
running out before we start out trip.

Tom
N1HQF

---

259. Re: [APRSSIG:6714] Trying Again, HELP

From: n2czf@gate.net
Date: Sun, 11 Feb 1996 23:49:55 -0500
To: aprssig@tapr.org
Message-ID: <199602120449.XAA08036@osceola.gate.net>
Rendered body type: text/plain

What HSP Switch are you using ??? I do know from expirience that 90% of the HSP
problems are with no voltage going to the HSP adapter. Seems that many laptops
do not have the necessary voltage to power the HSP unit at the serial port which
it expects. I forget which pin it is right now, but I THINK it is pin 5, it has
been 6 months since I lived thru that ordeal.

Don't give up, I got mine to work the night before my 1,200 mile trip. The
pressure was really on for me since I dropped $1,900 2 weeks before on a color
notebook just so I could run APRS on the trip.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

260. RE:APRS PROBLEM NOT SOLVED

From: Larry Griffin <largriff@onramp.net>
Date: Sun, 11 Feb 1996 23:10:15 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Message-ID: <01BAF8D6.1E182AA0@lub14.onramp.net>
Rendered body type: text/plain

```
Grampyruss@aol.com wrote:
...could not get the TNC to respond.
What other softwares Ans. KaGold...

AB5GE REPLY:

Make sure that your KaGOLD setup is leaving the TNC in COMMAND MODE,
not HOST MODE.

Larry Griffin <largriff@onramp.net>
```

---

261. Message Leaks AGAIN!

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 12 Feb 96 00:12:24 EST
To: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960212051223_102413.375_BHA96-3@CompuServe.COM>
Rendered body type: text/plain

```
Can somebody PLEASE get this silliness fixed?  Out of 23 message received
tonight, 18 were multiple-dupes of message I read YESTERDAY!  Somebody,
somewhere has a problem.

NOTE:  Whatever you do, do NOT send replies to messages that have return
addresses that say something such as:

   bobbruninga@tapr.sig@*org.*domain.*org.*org

Beware of the mail address.  Maybe we can stop this without too much trouble!

73 de Jim, KU0G
```

---

262. Re: [APRSSIG:6712] APRS PROBLEM NOT SOLVED

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Mon, 12 Feb 1996 00:56:50 -0500
To: aprssig@tapr.org
Message-ID: <199602120556.AAA14325@sun.lssu.edu>
Rendered body type: text/plain

```
>What other softwares Ans. KaGold, however, when I use APR
>I start from DOS, kaGold has not been loaded.

    I am gonna make a WAG, based on first reaction to reading this message.

    Your KAM is still in the host mode when you bail out of KAGOLD, and
remains there due to the backup memory. Check the KAM+ manual for the
keyboard sequence to bring the
KAM back to native mode. Keep in mind, if I am correct, the terminal program
will still have to talk to the tnc at the correct baud rate and on the
correct port. Good luck.

                                 Pete, wa4hei
```

---

263. Re: [APRSSIG:6712] APRS PROBLEM NOT SOLVED

From: bob <w2g3zfj@unix.asb.com>
Date: Mon, 12 Feb 1996 09:21:20 -0500
To: aprssig@tapr.org
Message-ID: <199602121421.JAA27817@UNiX.asb.com>
Rendered body type: text/plain

```
Hi Russ

Just a suggestion but you need to put the KAM into EXPERT mode before aprs
can be used. Can't remembr the command at the moment but its in the book.

Hope this helps

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com


At 20:54 11/02/96 -0600, you wrote:
>Hi Kevin, Russ KA1VM here,
>Thanks for your come back to my frustration regarding my
>inability to make the APRS program function with my
>Kamplus TNC. I changed the PAR from 0 to 4 as you recommended,
>still can't talk to the TNC in the command setting, after I
```

>go thru all the recommended settings for APRS and arrive at
>the point where I do a "Ping" the transmitter does not
>respond since there is no communication to it nor do I see
>any response on the screen from input from received info
>from the transceiver.
>My son-in-law is using this program on his KPC3 and has no
>problem at all (he can be reached at NO1R@KB4N.#EMA/USA/NA
>(U MAY NOT NEED ALL THE GARBAGE AFTER KB4N), he lead me to
>the program and has a considerable knowledge of all this
>protocol etc. and is very frustrated at this point, can't
>understand why we can not communicate with the Kam+ in the
>command mode!)
>He feels there just has to be some setting when using the
>Kam+ that is peculiar (to say the least about the Kam+)
>that we haven't been able to discern).
>
>bruning@nadn.navy.mil (Bob Bruninga) replied and suggests
>the following:
>RE: PICO & TAPR, neither one will work, use T for TAPR
>RE: 2 PORT KAM and I have tried it with "K" and without
>   but will not work. Use K for KAM.
>
>I also went to the O, C, T command and could not get the TNC
>to respond (my experience also).
>He asks the follwing questions:
>What baud rate Ans. 4800
>What other softwares Ans. KaGold, however, when I use APR
>I start from DOS, kaGold has not been loaded.
>Have you tried PAR none? Ans. Yes, that was the setting before
>I change the setting as you recommended.
>Have you read trouble.txt Ans. No, I was hoping this would be
>an uncomplicated answer that would not tax the tar out of my
>limited knowledge (I know when all else fails, read the
>instructions but these instructions are not simple for non-
>software giants, is there something about the Kam+ that is
>different from the usual TNC'S, why does their KPC3 work ok?)
>
>Are you running the KAM+ or the KPC3? If you are running the
>Kam+ would you give me all the settings you use stepXstep. Did
>you have any problems getting your TNC to respond when you
>did the O, C, T command sequence or was it that you din't find
>it necssary.
>
>Your help is very much appreciated!
>73 Russ Grampyruss@aol.com
>   or ka1vmq@kb4n
>
>
>

---

264. [Fwd: SA to go offline May 1 - <text of HR 1530>]

From: BOB DERDERIAN <n2iph@MCI.NEWSCORP.COM>
Date: Mon, 12 Feb 1996 09:17:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602121417.JAA30407@kafka.delphi.com>
Rendered body type: text/plain

Received this today from matt, WA2TPX, an APRS user here in SNJ. Thought it
would interest everyone, hi.
BTW, I am going to be moving my iNet connection to another provider soon, so
may be OOS for a few days.
73 all, Bob n2iph@who.knows.where??

==========paste=========================>>

>Date: Mon, 12 Feb 1996 09:01:26 -0500
>From: Matt Wilson <matt@cyberenet.net>
>Organization: Caesar's Hotel/Casino - Atlantic City NJ
>To: Bob Derderian <n2iph@mci.newscorp.com>
>Subject: [Fwd: SA to go offline May 1 - <text of HR 1530>]
>Content-Disposition: inline
>
>Path:
news.cyberenet.net!news.sprintlink.net!news.intelenet.com!unogate!mvb.saic.c
om!news.mathworks.com!satisfied.apocalypse.org!news2.near.net!atlantic.merl.
com!uranus.merl.com!not-for-mail
>From: wsy@merl.com (Bill Yerazunis)
>Newsgroups: sci.geo.satellite-nav
>Subject: SA to go offline May 1 - <text of HR 1530>

```
>Date: 7 Feb 1996 15:40:46 -0500
>Organization: Mitsubishi Electric Research Labs
>Lines: 46
>Distribution: world
>Message-ID: <4fb2oe$c5@uranus.merl.com>
>NNTP-Posting-Host: uranus.merl.com
>
>
>HR 1530 (defense appropriations bill, passed and now signed by Clinton)
>effectively prohibits DoD from using SA starting May 1.
>
>Note that even the (b)(1) plan includes the phrase "without hindering
>the ability of United Sttes military and civil users to have access to
>and use the system".  That's the key phrase...  as I read it, it means
>"turn it off, and leave it off.  Figure out some other way to deny it
>to those we want to deny it to- which does NOT deny usage to US civil
>users."  Reading between the lines, I *think* it means "develop a
>theatre-level or battlefield-level GPS jamming capability that we can
>read through but they can't."
>
>Kennedy (D-MA) sponsored the bill, hey maybe he's not such a bad guy. :-)
>
>The full text of the relevant section of HR 1530 included below...
>
>       -Bill Yerazunis
>
>       -----
>
>SEC. 279. GLOBAL POSITIONING SYSTEM.
>
>(a) CONDITIONAL PROHIBITION ON USE OF SELECTIVE AVAILABILITY FEATURE-
>Except as provided in subsection (b), after May 1, 1996, the Secretary
>of Defense may not (through use of the feature known as `selective
>availability') deny access of non-Department of Defense users to the
>full capabilities of the Global Positioning System.
>
>(b) PLAN- Subsection (a) shall cease to apply upon submission by the
>Secretary of Defense to the Committee on Armed Services of the Senate
>and the Committee on National Security of the House of Representatives
>of a plan for enhancement of the Global Positioning System that provides for--
>
>  (1) development and acquisition of effective capabilities to deny hostile
>   military forces the ability to use the Global Positioning System without
>   hindering the ability of United States military forces and civil users to
>   have access to and use of the system, together with a specific date by
>   which those capabilities could be operational; and
>
> (2) development and acquisition of receivers for the Global Positioning
>  System and other techniques for weapons and weapon systems that provide
>  substantially improved resistance to jamming and other forms of
>  electronic interference or disruption, together with a specific date by
>  which those receivers and other techniques could be operational with
>  United States military forces.
>
>
>
=================end of forwarded msg====================snip!!
```

---

265. {ult2000 & aprs74i}

From: gwelte@northernnet.com (George A. Welte)
Date: Mon, 12 Feb 1996 14:21:11 -0600
To: aprssig@tapr.org
Message-ID: <v01530500ad44fb012628@[206.24.45.43]>
Rendered body type: text/plain

Bill wanted to know if anyone else on the sig was having unusual occurances with the U-2000 and the APRS program.

I have a U-2000 with an AEA 232MBX and the output from the U-2000 seems to be okay but I'm just getting the "raw" data on the APRS screen and not the processed weather information. My output looks similar to this example:

```
                $ULTW00000000008F000027DE0002CEBA0001036601670447
```

Others have had this same problem and I think Bob is still working on it at this time, so will wait for a corrected version to be developed.

George A. Welte
Land of Paul Bunyan & Babe
1st City on the Mississippi
Bemidji, Minnesota 56601

266. Re: [APRSSIG:6711] ult2000 & aprs74i

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 12 Feb 1996 15:34:54 -0500 (EST)
To: aprssig@tapr.org
Rendered body type: text/plain

```
Message-ID: <Pine.SUN.3.91.960212153213.13799E-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII


Reply to Bill Bliss:  Glad to hear from you again.  Thanks for feedback...

THe U-2000 BAROMETER transmitted over the air is in MILLIBARS..  no
matter what you have set for local display.  Could that be what you are
seeing?
```

---

267. What Gives?

From: Will Flor <willf@rrgroup.com>
Date: Mon, 12 Feb 96 14:37:50 -0600
To: aprssig@tapr.org
Message-ID: <9602122038.AA03346@inc.net>
Rendered body type: text/plain

```
Does anybody know why everything posted to this mailing list
winds up in the Usenet newsgroup "news:ucsb.compsci.grad"?
Could this be related to the bizarre
stuff going on recently with mangled
return addresses?  In the newsgroup,
everybody's address is bogus.  This is
really weird.

73 de Will KB9JTT
```

---

268. Re: [APRSSIG:6714] Trying Again, HELP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 12 Feb 1996 15:40:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960212153807.13799G-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 11 Feb 1996, Tom & Linda MacKay wrote:

> I have a KPC, Ver6 with a KAM factory HSP switch, and A Eagle Accunav sport
> GPS. I still can not get it to work.
>
> Can anyone tell me what the exact commands that have to be set in the KPC3
> to make it work with an Eagle. Also is there anything else I should be doing
> to make this work.

WB4APR REPLY COMMENT:  If you are in HSP, and running APRS, then there are
NO commands in the TNC that need any special settings except for INTFACE
TERMINAL.  In HSP, the GPS does NOT talk to the TNC, but to APRS.  If you
are making a stand alone tracker, then read the TNC version 6.0 detailed
instructions for setting up the TNC to talk to the GPS...
```

---

269. OS2 / WinAPRS?

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Mon, 12 Feb 1996 14:54:44 MST-0700
To: aprssig@tapr.org
Message-ID: <728CEFA524B@ceis.uhcolorado.edu>
Rendered body type: text/plain

```
Has anyone tested or gotten WINAPRS beta to work on OS2?  I
have not been able to.

Has anyone successfully PKZIPPED and PKUNZIPPED the
OLE32S13.EXE file that is needed to run WINAPRS on a
Windows 3.1x machine?  The .exe file downloads OK at 14.4
in about 90 minutes from ncsa.uiuc.edu but is 3,072,788
bytes long and therefore will not fit on a 1.4 MB floppy.
I downloaded it on my OS2 computer that is used for
internet connections and now need to copy it to my APRS
system which is Windows 3.11.  My internet computer is
running OS2, warped, so even transferring the file to
another computer running Windows using Laplink or
equivalent running under DOS usually does not work!  We
have not yet bought the EXPENSIVE OS2 equivalent of Laplink
```

here at work.

Suggestions?

Before you even ask, the only reason I am running warped OS2 is that one Building Automation System application we use at work ONLY runs under OS2 Warp. Therefore, my internet access is OS2 wether I like it or not if I do not want to pay the premium at home to use Prodigy! Let's see, a 90 minute file transfer using Prodigy would cost? And then I still have to get the file from the "office" machine to the notebook!

Art Smith - KB1TX
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757 FAX - (303)270-4710
als@ceis.uhcolorado.edu

---

270. APRS INterview with BOb and Daytin

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 12 Feb 1996 17:07:18 -0600 (CST)
To: aprssig@tapr.org (APRS SIG)
Message-ID: <199602122307.RAA07786@tapr.org>
Rendered body type: text/plain

Hi APRS SIG.

Wanted to update you on a few things.

1. We have added the Ham Radio and More Show from 1/21/96 which featured Bob Bruninga, WB4APR, Author of APRS, on the TAPR Amateur Audio Page. Ham Radio and More is an hour long interview program hosted once a week. TAPR is making selected talks available via our RealAudio Server.

Note that we only have 5 connections enabled currently, due to the potential impact on our current Internet link.

Check out the other two radio news pages we are now supporting with RealAudio as well.

2. We should be announcing shortly TAPR's plan for Dayton. Expect to see one or two hours of APRS during the TAPR Digital Forum. The Sprouls will be at the TAPR booth this year -- and as has been announced by them -- they expect to have the Windows version of APRS ready for release. Plus TN-95, DAS, and other new kits and publications! Lots to look at this year at the TAPR booth! The Friday PackBash will be in a much larger facility -- which should really improve things. We will not run our of space for dinner and have rooms available for SIG meetings and the like. I think there should be a APRS SIG Meeting then -- but haven't discussed it in detail yet with Keith.

Anyway -- that all for now. Just wanted to drop these notes off.

The SIG looks good. Keep up the good work.

Cheers - Greg, WD5IVD
Pres TAPR

---

271. Exiting Kantronics Host or GPS Mode

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 12 Feb 96 18:08:33 EST
To: aprssig@tapr.org
Message-ID: <199602122308.SAA19888@gold.interlog.com>
Rendered body type: text/plain

I have added the following string to the tapr.tnc file in the system subdirectory. It helps to make sure that your Kantronics tnc comes up in command mode in case it was in Host or GPS mode.

□Q□

will exit the mode.

You can make the □ characters by holding down the ALT key on you keyboard, making sure the numlock is on and pressing 192 while the ALT key is held down.

It is described in all the Kantronics manuals as exiting host mode.

(If you want, you could cut and paste the above in a file), or just make sure
you have a file somewhere on your PC call something like reset.tnc and make
sure the □Q□ is the first line. Then send it to the TNC with any
communications program.

Good luck...mike

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

---

272. Re: [APRSSIG:6725] OS2 / WinAPRS?

From: mwalker@interlog.com (Mike Walker)
Date: Mon, 12 Feb 96 18:12:05 EST
To: aprssig@tapr.org
Message-ID: <199602122312.SAA20561@gold.interlog.com>
Rendered body type: text/plain

On Mon, 12 Feb 1996 16:10:10 -0600 (CST) you wrote:

>Has anyone tested or gotten WINAPRS beta to work on OS2? I
>have not been able to.
>
>Has anyone successfully PKZIPPED and PKUNZIPPED the
>OLE32S13.EXE file that is needed to run WINAPRS on a
>Windows 3.1x machine? The .exe file downloads OK at 14.4
>in about 90 minutes from ncsa.uiuc.edu but is 3,072,788
>bytes long and therefore will not fit on a 1.4 MB floppy.
>I downloaded it on my OS2 computer that is used for
>internet connections and now need to copy it to my APRS
>system which is Windows 3.11. My internet computer is
>running OS2, warped, so even transferring the file to
>another computer running Windows using Laplink or
>equivalent running under DOS usually does not work! We
>have not yet bought the EXPENSIVE OS2 equivalent of Laplink
>here at work.
>
>Suggestions?
>
>Before you even ask, the only reason I am running warped
>OS2 is that one Building Automation System application we
>use at work ONLY runs under OS2 Warp. Therefore, my
>internet access is OS2 wether I like it or not if I do not
>want to pay the premium at home to use Prodigy! Let's see,
>a 90 minute file transfer using Prodigy would cost? And
>then I still have to get the file from the "office" machine
>to the notebook!
>
>
Art,
I was able to move it around by using pkzip and having it span disks. Check
the help file. I couldn't get it to run under win/os2, but it did work in
windows. An old fashion dos backup will also work, with a couple of disks.
How about booting dos on the Warped machine and using laplink? You should also
be able to run laplink in a Dos Box under Warp. I didn't have any problem when
I was using it.

Good luck...mike

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

---

273. Re: [APRSSIG:6668] Re: 32 mile maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 12 Feb 1996 18:25:18 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602130025.SAA00656@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob, I've some maps for Texas that I've been playing with but nothing real
great to speak of. A lot of mine are refinements of existing maps based on
GPS tracks and subsequent corrections.

I'll try to get them updated and sent off over the next couple of days.

```
Regards, Gerry
n5jxs@tamu.edu
```

---

274. MFJ data Radio

From: "Steve Settle" <sds@ansel.intersource.COM>
Date: Mon, 12 Feb 1996 19:54:39 +0000
To: aprssig@tapr.org
Message-ID: <199602130054.TAA04642@ansel.intersource.com>
Rendered body type: text/plain

```
Greetings:
     Back around Christmas, there was some discussion about the MFJ
Data transceivers and their functioning 145.79 mhZ .Have these
problems and/or concerns been resolved???
     Thanks in advance,
     WD9EVK (1st registered user in Indiana, last to implement ?)
********************************
     Steve Settle WD9EVK
     sds@intersource.com
********************************
```

---

275. Re: [APRSSIG:6730] MFJ data Radio

From: William Richarz <wricharz@ix.netcom.com>
Date: Mon, 12 Feb 1996 21:15:18 -0500
To: aprssig@tapr.org
Message-ID: <199602130216.SAA11091@ix10.ix.netcom.com>
Rendered body type: text/plain

```
At 07:01 PM 2/12/96 -0600, you wrote:
>Greetings:
>     Back around Christmas, there was some discussion about the MFJ
>Data transceivers and their functioning 145.79 mhZ .Have these
>problems and/or concerns been resolved???
>     Thanks in advance,
>     WD9EVK (1st registered user in Indiana, last to implement ?)
>********************************
>     Steve Settle WD9EVK
>     sds@intersource.com
>********************************

My radio is still at MFJ.  They have had it for over a month.  Jim Shurdin
at MFJ told me at first that they had to send it to the designer of the radio.
This was done so I was told.  I called back a couple of weeks later & he
said they had a batch of bad crystals for 145.79, which was what I suggested
the problem could be, before reluctently sending it to them.  I am still
waiting for the radio, Jim said they would put a new crystal from their
Vendor, Standard Crystal Co., whoever they might be, and be sure it was on
frequency.  Will report to the SIG how I come out.

73 de Bill WA4VAF
>
==========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
==========================================================================
```

---

276. Re: [APRSSIG:6721] {ult2000 & aprs74i}

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 12 Feb 1996 22:58:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960212225738.17606A-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 12 Feb 1996, George A. Welte wrote:

> I have a U-2000 with an AEA 232MBX and the output from the U-2000 seems to
> be okay but I'm just getting the "raw" data on the APRS screen and not the
> processed weather information.  My output looks similar to this example:
>                 $ULTW00000000008F000027DE0002CEBA0001036601670447

WB4APR REPLY COMMENT:

version BETA74i was supposed to have fixed that.  But so far I havent
received any feedback one way or the other....
```

---

277. MAGELLAN TRAILBLAZER

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Mon, 12 Feb 1996 23:39:16 -0500 (EST)
To: aprssig@tapr.org, jkham@delphi.com
Message-ID: <01I156XFMCEA9FNCJY@delphi.com>
Rendered body type: text/plain

```
Just a quick post to ask the following questions about the Magellan
Trailblazer XL.

1  Will it work with APRS?

2  What is the output of the data port? IE pin out.

3  Can the existing antenna be remoted about 3-6 feet without needing an
   external amplified antenna?

4  Is there a site on the Internet that has more information on the
   Magellan?

Please reply to <KC4ZGQ@AOL>  or  <JKHAM@DELPHI.COM>  rather than the
sig unless your reply is of interest to all.

John F. Kraus II RN


John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@AOL.COM>
```

278. Re: [APRSSIG:6730] MFJ data Radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 12 Feb 1996 23:42:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960212233746.17606H-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 12 Feb 1996, Steve Settle wrote:

>      Back around Christmas, there was some discussion about the MFJ
> Data transceivers and their functioning 145.79 mhZ .Have these
> problems and/or concerns been resolved???

WB4APR REPLY COMMENT:  Well, I have been purposefully silent, hihi..  I
bought 5 of them and immediately put one on a tower 75 miles away in th
emiddle of winter.  It now sounds sick.  But its my own fault for not
putting in a heater and thermostat to keep the thing at a somewhat
constant temperature.  But, until I drive 150 miles round trip, i wont
know what is wrong, so do not feel like I should hammer it yet.

A second one is in my den.  It works fine, but I dont like the way its
transmitter sounds by ear.  But I cant complain until I at least make an
attempt to tune it up..

So in my case, they appear just fine, and the price was right, but the
jury is still out as to whether they are really on frequency...
```

279. Re: YAPP and HSP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 12 Feb 1996 23:49:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960212234540.17606I@greatlakes>
Rendered body type: text/plain

```
On Tue, 13 Feb 1996, Theodore Antanaitis wrote:

> I have used YAPP for quite a few years and have been most satisfied with
> it, *BUT*, I found that [at least in my configuration] the HSP interface
> circuit precluded YAPP from conversing with my TNC......

WB4APR REPLY COMMENT:   I assume that the YAPP is looking for either the
DSR and or CTS lines to be asserted.  This would be atrivial addition to
the HSP switch to jumper these two pins to the available +v already found...
Can anyone confirm which or both of these signals make YAPP happy?
```

280. aprs & Samscallbook?

From: wbpk1@aztec.asu.edu (GILBERT E. LEECH)
Date: Mon, 12 Feb 1996 22:32:18 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9602130532.AA13858@aztec.asu.edu>
Rendered body type: text/plain

How can I run samscall book while in aprs?

---

281. RE: new high digi for Southern California

From: mark@tetherless.com (Mark Oppenheim)
Date: Tue, 13 Feb 1996 01:27:14 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602130927.BAA13691@gorgor.pa.tetherless.com>
Rendered body type: text/plain

At 01:28 PM 2/11/96 -0600, Jon T Adams wrote:

> Just saw it on my map - KD6KQ-3, at 5700' near Lake Arrowhead. Should
> provide excellent coverage for much of Orange, Riverside and San
> Bernardino counties, and maybe see into the high desert?
>
> 73 - Jon NW6H

Jon- you're "sorta right and sorta wrong"

KD6KQ-3 is not really "new" in that it's been up since around August, but on 145.010. This exists as a link from the Northern Calif APRS activity on that channel and primarily serves the high desert, which is shielded from the LA basin. Several Bay Area stations digipeat via this system down through the San Joaquin valley and into the high desert (Apple Valley through Lancaster/Palmdale to the Tehachapi's is covered) and Inyo-Kern county (Ridgecrest) of Southern California using about 3-4 digi hops, averaging 100 miles/hop. This has caused a number of the stations in the High Desert and the San Joaquin valley to set-up and get interested in APRS (it's very boring when you - and maybe your buddy- are the only ones on APRS!).

This last weekend, I decided to check out APRS activity on 145.790 MHz, as in the past, there was very little of this activity on this channel (for the out-of-towners, most of the APRS activity in the Los Angeles basin is on the full duplex repeater, 146.745 MHz), and was surprised to see all of the basin activity on .790 - including a whole bunch of stations down in San Diego! So, that's why it may have been the first time you had seen it. If you look at the PHG circles, you can see the effect of the offset gain due to the shading due to the local terrain.

Unfortunately, KD6KQ-3 is on the north side of the mountains, (but still near the top) so coverage into the LA basin is "spotty". It returned to 145.010 late Sunday morning .

Hope it didn't cause too much confusion!

Mark
KD6KQ

---

282. Re: [APRSSIG:6722] Re: ult2000 & aprs74i

From: schiers@ibm.net (Robert Schiers)
Date: Tue, 13 Feb 96 01:24:46
To: aprssig@tapr.org
Message-ID: <199602131252.MAA31536@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <Pine.SUN.3.91.960212153213.13799E-100000@greatlakes>, on 02/12/96 at 02:50 PM,
Bob Bruninga <bruninga@nadn.navy.mil> said:

>Reply to Bill Bliss: Glad to hear from you again. Thanks for
>feedback...
>
>THe U-2000 BAROMETER transmitted over the air is in MILLIBARS.. no
>matter what you have set for local display. Could that be what you are
>seeing?

I would bet your next paycheck on it, Bob. If you multiply his reading in inches of mercury by 33.857, I bet you get the value in mb. 33.857 or so is the constant to convert inches of Hg to mb.

73,

hasan schiers, N0AN
----
schiers@ibm.net

```
----------------------------------------------------------
```

283. Re: [APRSSIG:6728] Re: OS2 / WinAPRS?

From: schiers@ibm.net (Robert Schiers)
Date: Tue, 13 Feb 96 01:11:27
To: aprssig@tapr.org
Message-ID: <199602131252.MAA97859@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
>On Mon, 12 Feb 1996 16:10:10 -0600 (CST) you wrote:

>>Has anyone tested or gotten WINAPRS beta to work on OS2?  I
>>have not been able to.
>>
>>Has anyone successfully PKZIPPED and PKUNZIPPED the
>>OLE32S13.EXE file that is needed to run WINAPRS on a
>>Windows 3.1x machine?  The .exe file downloads OK at 14.4
>>in about 90 minutes from ncsa.uiuc.edu but is 3,072,788
>>bytes long and therefore will not fit on a 1.4 MB floppy.

1. I used Pcopy (a dos utility that copies large files
across floppies and combines them on the other end). It is
shareware available on many bbs's.

2. You are downloading the wrong file if you want to run
it on a Win-OS/2 machine. The latest Win-32s code that WILL
run under Win-OS/2 is beta version 1.25. Do not...I repeat,
DO NOT even try to run version 1.30 of Win32s under OS/2.
It is very well established that it will not work, and you
will just waste your time.

If you are running OS/2 for windows and have a full version
of windows available and then boot to dos (not a dos window) then 1.30
would work, but not inside OS/2.

I run Warp Connect on two machines and follow the fido net
backbone of most os/2 echoes and this topic has been discussed to death.
You can't get there from here with Win32s 1.30. Since I have another
machine, I put Win95 on it and am running Win APRS on it without
difficulty. The Ultimeter U-2000 works  perfectly with the WinAPRS code,
something I have been unable to do with ANY version of dos APRS. Bob is
working on the  problem, but it is giving him fits.

Hope this helps you figure out what to do. 73,


The question remains, will WinAPRS run under Win32s 1.25 beta? My guess
is yes.


hasan schiers, N0AN
----------------------------------------------------------
schiers@ibm.net
----------------------------------------------------------
```

284. Re: [APRSSIG:6725] OS2 / WinAPRS?

From: jneely@eden.com (Jim Neely)
Date: Tue, 13 Feb 96 07:18:26 EST
To: aprssig@tapr.org
Message-ID: <199602131336.HAA17417@matrix.eden.com>
Rendered body type: text/plain

```
Use PKZIP and zip it to multiple diskettes.  The help screen on PKZIP will show you how.

I'm surprised that WinAPRS won't run in a Win/OS2 session.  Warp is usually easier to get a Windows
program running in than Win 3.1,

Good luck...jn


On Mon, 12 Feb 1996 16:10:10 -0600 (CST) you wrote:

>Has anyone tested or gotten WINAPRS beta to work on OS2?  I
>have not been able to.
>
>Has anyone successfully PKZIPPED and PKUNZIPPED the
>OLE32S13.EXE file that is needed to run WINAPRS on a
>Windows 3.1x machine?  The .exe file downloads OK at 14.4
>in about 90 minutes from ncsa.uiuc.edu but is 3,072,788
```

>bytes long and therefore will not fit on a 1.4 MB floppy.
>I downloaded it on my OS2 computer that is used for
>internet connections and now need to copy it to my APRS
>system which is Windows 3.11. My internet computer is
>running OS2, warped, so even transferring the file to
>another computer running Windows using Laplink or
>equivalent running under DOS usually does not work! We
>have not yet bought the EXPENSIVE OS2 equivalent of Laplink
>here at work.
>
>Suggestions?
>
>Before you even ask, the only reason I am running warped
>OS2 is that one Building Automation System application we
>use at work ONLY runs under OS2 Warp. Therefore, my
>internet access is OS2 wether I like it or not if I do not
>want to pay the premium at home to use Prodigy! Let's see,
>a 90 minute file transfer using Prodigy would cost? And
>then I still have to get the file from the "office" machine
>to the notebook!
>
>
>
>Art Smith - KB1TX
>Facilities Engineer, Engineering Services
>University Hospital, Denver, Colorado, USA
>Voice - (303)270-3757 FAX - (303)270-4710
>als@ceis.uhcolorado.edu
>
>
Jim Neely
jneely@eden.com WA5LHS@tapr.org

---

285. Re: [APRSSIG:6693] Re: Tiny SHELL COMM program

From: jleonard@tbcnet.com (John B. Leonard)
Date: Tue, 13 Feb 1996 10:11:35 -0600
To: aprssig@tapr.org
Message-ID: <199602131611.KAA27746@tbc2.tbcnet.com>
Rendered body type: text/plain

Here's what's worked for me re: Shell Comm and YAPP:

1. I couldn't get APRS File-Dos to work no matter what I did. It (Win95)
kept telling me it either couldn't find COMMAND, or didn't have enuf memory.
(Thanks for your help, Jim)

2. Rather than mess with it further, I knew APRS behaved itself as
minimized, although I suspect it suspends operation while minimized.

3. I used that feature to allow me to start YAPP.exe from a desktop
shortcut, just as I configured APRS74e.exe the same way. So, when within
APRS, I hit ALT-ESC, which minimizes the APRS program, and then start YAPP
from the desktop. It works flawlessly, (used it to con to the local BBS)
and when I'm through, exit YAPP normally (ALT-X, Y for yes), return to the
desktop, and restart, or maximize to full screen, the APRS program which is
on the taskbar. A word of caution! YAPP.CFG may send your TNC shut-down
commands which won't work with APRS, like MON OFF, which is the default.
You may wish to change them. Also, make sure the COMM and BAUD rate in
YAPP.CFG are the same as with APRS.

5. The only problem I've seen so far is while APRS is minimized, some
callsigns get "scrambled". The thing I've done for that is simply DELETE
them from the P-list, and wait for their re-transmission.

ps.- I caused myself all kinds of problems by trying to get DOS programs to
work with 95 until I call M/S and asked them what I was doing wrong. The
person I talked to suggested that 90% of DOS programs will run OK if one
goes to EXPLORER, click on the file that starts the DOS program
(APRS74E.EXE), go to FILE, Create Shortcut, then move it (the Shortcut just
created) to the Desktop. He could have told me to read the manual, but he
didn't. Starting DOS programs from the Desktop has worked very well (not
perfect, mind you).

>Mark,
>
>I removed Yapp from my PC, which is running 95, because no matter what I
>tried with 95 properties, I couldn't get Yapp to run.
>
>APRS, conversely, ran perfectly for me on 95 even when I loaded in the beta

```
>Win95 in April of 95.
>
>Yapp would come up and unceremoniously go toes up, black screen, sometimes a
>piece of yellow line, nada, dead. I changed every property I could see and
>twiddle with, but with no success.
>
>I'm sorry to lose Yapp, and if anybody here is running it successfully,
>please post your 95 properties settings. I'd love to get it back.
>
>Tony, WB3KGT
>
>
---------
J Barry Leonard
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

286. Trakker Icon

From: ke4eer@AIRnet.net (William Nolle)
Date: Tue, 13 Feb 1996 10:19:44
To: aprssig@tapr.org
Message-ID: <199602131622.KAA02824@foo.garply.com>
Rendered body type: text/plain

```
Bob i'm surprized i don't see a GPS standalone tracker icon for a simple
PICKUP. I see them for firetrucks 18 wheelers, Jeep, etc. How about making
one available for us folks down south here (Like a pickup with maybe a gun
rack in the back window), (Or beer cans in the back at least)!!!

Bill KE4EER
ke4eer@AIRnet.net
```

287. Tracker Icon

From: ke4eer@AIRnet.net (William Nolle)
Date: Tue, 13 Feb 1996 10:29:15
To: aprssig@tapr.org
Message-ID: <199602131631.KAA02949@foo.garply.com>
Rendered body type: text/plain

```
Bib i was just checking the SYMBOL.TXT and if there's no room or whatever
for a pickup, could the BUS be changed to a pickup (After all how many
people drive buses anyway) Hi...I would like to see an SSID-2 to be a pickup.

Bill KE4EER
```

288. RE: [APRSSIG:6743] Tracker Icon

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 13 Feb 1996 11:50:33 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960213115033.208016b1@exame2.dseg.ti.com>
Rendered body type: text/plain

```
RE: Pickup ICON versus Bus ICON.
Well, I guess not many of us drive busses, but busses are often used in the
larger public service events. We regularly use three or four busses to
transport runners who drop out of the Dallas White Rock Marathon, and have
seen as many as 20 - 25 busses used in the WalkAmerica event when all the
participates were requested to park remotely from the event and were bussed
to the walk site - (also around White Rock Lake). Just FYI.

   Claude
   K5DTN
```

289. Phoenix

From: dwetzel@uswest.com
Date: Tue, 13 Feb 1996 11:13:53 -0600
To: aprssig@tapr.org
Message-ID: <120ca210@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
I'm temporarily in Tempe, AZ -

What's the prime vhf frequency for APRS in Phoenix, and are there maps on
tapr.org for the Phoenix area?

Thanks!
```

Doug
KC7CO

---

290. Re: [APRSSIG:6725] OS2 / WinAPRS?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 13 Feb 1996 13:39:20 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602131939.NAA08208@solar.cs.tamu.edu>
Rendered body type: text/plain

Real work (and Cows In Space) have stopped me from experimenting with OS/2 implementation of WinAPRS. I asked, but never got a reply as to which Win32s module the Bros. SProul crafted WinAPRS to, so it's gonna be trial and error.

OS/2 has a 32 bit Windows implementation built in, if you're using Warp or Warp Connect. It's not the latest. There are varying opinions as to whether one can shim and trim the later versions of Win32s into place in OS/2... but I guess I'll have to experiment now.

Regards, Gerry
n5jxs@tamu.edu

---

291. Re: [APRSSIG:6725] OS2 / WinAPRS?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 13 Feb 1996 13:41:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602131941.NAA08233@solar.cs.tamu.edu>
Rendered body type: text/plain

Forgot to mention: If you can boot the machine in DOS (not a DOS window or DOS full screen session) and do a LapLink Clone, it'll work under OS/2 from there. Attempting to clone LapLink, or WinLink, in OS/2 fails because the *Link packages are not typical polite programs.

73, gerry

---

292. 4WD off-road APRS

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Tue, 13 Feb 1996 11:55:37 -0800
To: aprssig@tapr.org
Message-ID: <v01520d02ad45eefaa0a2@[129.131.31.10]>
Rendered body type: text/plain

This last weekend I had the opportunity to experiment with APRS during a Land Rover off-road trip to the New Idria (Coalinga), CA area. The following contains my impressions of using this versatile program in an often-harse environment.

My setup consisted of a Toshiba TS2200 laptop, a Kantronics KPC-3 TNC, Yeasu FT-530 radio, Motorola PVT-6 GPS unit, and AC adapter with Triplite power inverter. The inverter was bought at the last minute due to the dubious charge levels of the three laptop batteries. I used the AEA APRS serial adapter so that I could run HSP mode with both the TNC and GPS input through my single serial port. I ran the KPC-3 with the internal 9VDC battery.

During our 5 hour drive to the off-road site, the TNC and radio were kept off and the GPS monitored. This gave a change to play with APRS and see how the GPS position updates were saved and kept the map centered on our vehicle. It was interesting to see the difference between the vehicle and the road we travelled on, which was minimal at the map's 64 mile radius but augmented at a zoom of 4 miles. The AEA serial cable performed very well, and I retrieved both RMC and GGA strings from the GPS.

Previous to the trip, I had prepared 8, 4, and 2 mile radius maps of the area we were expecting to travel in. Using the USGS DLG data from the CDROM and my own map generation program (MapEdit), I was able to create the following maps with under 3000 points:
- 8 miles with highways and secondary roads.
- 4 miles with the above plus class 4 roads (streets)
- 2 miles with the above plus streams and 4WD/trails

This area is rural, so the density of the maps was not very high. These maps did very well in the places they covered, but they didn't cover one area where we drove thru 50ft. visibility fog and looking for an important turnoff! I experimented when creating the maps and expanded the resolution from 640x350 to 2048x1024. This made for much smoother creeks and twisty roads when under extreme zoom-in of 0.25 miles.

For the actual off-road driving, I kept the laptop on my lap. On rough roads I often closed the lid in order to hang on to it better. The display was grayscale VGA, and was readable in directly sunlight as well as at night. During the entire time, I was able to track our progress on the digital map and once even used it to verify our position on our leader's USGS paper map. It was only moderately helpful while navagating due to the dated (1979) data the digital maps were created with.

One experiment I tried was putting a stand-alone tracker on another Rover to watch the update of his position on my screen. The tracker consisted of a AEA PK-12 TNC, an Icom 2-AT radio, another PVT-6 GPS unit, and a 12VDC 2amp/hour battery. I did receive a few transmissions from the tracker, but then abruptly stopped. Seems the 12VDC battery with it's cigarette lighter plug did not hold very tightly and the bouncing from the Rover jarred it loose. The other interesting item was putting the tracker and it's mag-mount antenna on the Rover -- Land Rovers have aluminum body panels! So I improvised and put the tracker and the antenna inside the hood-mounted spare tire, which is steel. For the time the tracker transmitted, it was pretty interesting to watch how the convoy of Rovers spread out and bunched up as we moved along.

Once I turned on the laptop's TNC and radio, I was amazed to find all sorts of APRS traffic appearing on my screen on 145.01MHz. We were travelling at fairly high altitude in the Western side of the San Joaquin Valley, and must have been near a major digipeater. I must've gotten a screen and a half of position updates, from Chico to Bakersfield and even WA6MTZ from Newberry Springs! I tried to ping whatever digis I saw, but I was unable to raise anyone. It sure made an interesting California map!

APRS made an interesting addtion to our paper maps, and enabled the GPS to show something other than lat/lon. The driver I went with now wants to become a ham and install some of this eqipment in his Rover!

As a last comment, I agree with Bob's warning on the opening screen of APRS: "Not to be used for Navigation". While APRS shows a pretty picture, you are very likely to go somewhere that you won't have the detailed maps for, and there is no substitute for an up-to-date paper map.

73, jan
kc6uth

```
 Jan Anthony Barglowski       Phone:  (619) 927-1057
 Computer Graphics Dude       Internet: jan@vislab.navy.mil
 VisLab, China Lake           Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA
```

---

293. Re: [APRSSIG:6742] Trakker Icon

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 13 Feb 1996 13:59:24 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602131959.NAA08561@solar.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:

> Bob i'm surprized i don't see a GPS standalone tracker icon for a simple PICKUP. I see them for firetrucks 18 wheelers, Jeep, etc. How about making one available for us folks down south here (Like a pickup with maybe a gun rack in the back window), (Or beer cans in the back at least)!!!

I agree. And how's about a cow, while you're at it. Oh. And a doughnut, too, for a new project with the University Police Department?

73, gerry
n5jxs@tamu.edu

---

294. Re: [APRSSIG:6744] RE: Tracker Icon

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 13 Feb 1996 14:19:09 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602132019.OAA09015@solar.cs.tamu.edu>
Rendered body type: text/plain

Claude 995-5040 pager 4541 sez:

> RE: Pickup ICON versus Bus ICON.
> Well, I guess not many of us drive busses, but busses are often used in the larger public service events. We regularly use three or four busses to transport runners who drop out of the Dallas White Rock Marathon, and have

> seen as many as 20 - 25 busses used in the WalkAmerica event when all the
> participates were requested to park remotely from the event and were bussed
> to the walk site - (also around White Rock Lake). Just FYI.

I've been asked if we can track up to 60 busses here at Texas A&M. Looks like
they want to find if the drivers really did leave 'em in the pasture with the
Cows...

gerry

---

295. Re: [APRSSIG:6745] Phoenix

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Tue, 13 Feb 1996 13:23:46 -0700
To: aprssig@tapr.org
Message-ID: <199602132023.NAA02969@usr3.primenet.com>
Rendered body type: text/plain

HF - 10.15.151.5   VHF - 145.079

At 12:27 PM 2/13/96 -0600, you wrote:
>I'm temporarily in Tempe, AZ -
>
>What's the prime vhf frequency for APRS in Phoenix, and are there maps on
>tapr.org for the Phoenix area?
>
>Thanks!
>
>Doug
>KC7CO
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

296. Phoenix maps and info

From: "George J. Poland" <w8fwf@treknet.net>
Date: Tue, 13 Feb 1996 13:28:56 -0700
To: aprssig@tapr.org
Message-ID: <199602131403.OAA00812@dns.treknet.net>
Rendered body type: text/plain

Hi Doug (kc7co)
Since you are not at your home QTH I will answer via the sig.
The Phoenix group uses 145.79 mhz for APRS.
you can down load phx maps from 938-7528 APRS BBS.(Phoenix number)
I will be sure to check the BBS and if the maps are not there I will insert
them for you.
73, George - W8FWF

---

297. Using the mouse in mapfix in Win95.

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 13 Feb 1996 13:05:27 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960213210527.006a3d78@mail.cts.com>
Rendered body type: text/plain

Has anyone gotten the mouse to work with mapfix in Win95? I can get it to
work in DOS and Win 3.1 but not in Win95. It does work in DOS 7.0 by
restarting Win95 in the MS-DOS mode.

Barbara KK6IB
E-Mail: fehner@cts.com

---

298. Re: [APRSSIG:6725] OS2 / WinAPRS?

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 13 Feb 1996 13:05:25 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960213210525.006b3448@mail.cts.com>
Rendered body type: text/plain

Zip the .exe file with PKZIP using the disk spanning option. This will put
it on 2 disks. Then put the last disk in the Win machine and extract the
file to a TEMP directory using the -d (directory info) switch. It will ask
for the first disk and then will make a disk 1 and disk 2 directory off the
Temp directory. Close any open programs and run the setup.exe in the disk 1

```
directory.

Barbara KK6IB
E-Mail: fehner@cts.com

________________________________________________________________________________
>Has anyone successfully PKZIPPED and PKUNZIPPED the
>OLE32S13.EXE file that is needed to run WINAPRS on a
>Windows 3.1x machine?  The .exe file downloads OK at 14.4
>in about 90 minutes from ncsa.uiuc.edu but is 3,072,788
>bytes long and therefore will not fit on a 1.4 MB floppy.

>
>Art Smith - KB1TX
>Facilities Engineer, Engineering Services
>University Hospital, Denver, Colorado, USA
>Voice - (303)270-3757  FAX - (303)270-4710
>als@ceis.uhcolorado.edu
>
```

---

299. APRS75 and MAPFIX20!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Feb 1996 16:16:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960213161147.29688F-100000@greatlakes>
Rendered body type: text/plain

```
A culmination of lots of diddling...
* Both programs now have the proper 3/4 aspect ratio for map borders
* New MAPFIX20 has APRS type menus instead of ctrl-alt keys
* Railroads are now bright white.  Toggle them dark with MAPS-FEATURES-*
* Better Error trap.  It doesnt dump you to DOS! (To force an error,
  stay in the USA maps and zoom below 8 miles on Montreal.. That
  map needs to be re-sized to stay within the nominal recommended values)
Ver 74i:
* Fixed WXsyms so that the alternate NWS WX syms would work again
* Fixed negative temperatures from the U-2000 just in time for spring
* Fixed CRASH on U-2000 negative wind direction
* Fixed remoteWX posits from overwriting WX data
* Still havent fixed U-2000 lockups with 16550 UART FIFO's.  Not that
  I dont know how, it is just a total re-write of my drivers...
* Fixed bug that prevented AEA TNC's from seeing 9 character calls
* Added more filtering for non-aprs (NetRom) packets to prevent crashes
* MAJOR re-arrangement of USA maps so that fewer maps are in USA distro
  and moved them to regional E, SE, M, C, W map distributions.
Ver 74h:
* Fixed problems observed during the Space Shuttle SPRE mission
* Fixed OPS-FIND-[gridsquare command that did not work for E hemisphere
* Made it so that a * had to be seen in the DIGI field for CONGRATS.
  Many TNC's echo their own packets and gave false CONGRATS!
* Fixed it so that dual ports with unproto paths xxx/yyy would work
  properly with the SPACE mode to auto reset timers on hearing the DIGI
```

---

300. New SoCal APRS Digi

From: Mike Musick <71301.3106@compuserve.com>
Date: 13 Feb 96 16:23:25 EST
To: <aprssig@tapr.org>
Message-ID: <960213212325_71301.3106_FHJ52-1@CompuServe.COM>
Rendered body type: text/plain

```
>145.010...This exists as a link from the Northern Calif APRS activity on
>that channel and primarily serves the high desert, which is shielded from
>the LA basin.

Mark -

OK...let me get this right...you have an APRS digi on 145.010 which covers the
High Desert? This is of interest as I am prepping for a St. Louis-to-SFO car
trip, and if everything goes together right it will be an APRS event. (I'll
"announce" once I verify that it all works!)

Coming in I-40/US66, where should I expect to start getting into the digi
system? Should I run RELAY,WIDE or RELAY,WIDE,WIDE or what? Figuring on running
145.790 for most of the trip until getting to California, I mostly need to know
where to change frequencies. We won't be getting below the San Gabriels, so
there will be no concern about the 146.745 repeater.

The system on .010 sounds pretty comprehensive. My Calif. route over about a
week is expected to be Needles, Barstow, Cajon, Lancaster, Mojave, Tehachapi,
```

Bakersfield, Paso Robles, Stockton, SFO, and then out via I-80. Are there any significant gaps to be aware of, and is the entire route on 145.010?
...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.4h on an HP200LX palmtop

---

301. DOS MAP STANDARDS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Feb 1996 16:30:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960213161704.29688G-100000@greatlakes>
Rendered body type: text/plain

APRSdos maps were originally intended to have x,y values between 0 and 999 (for brevity). THen last year I made limits of 1024 and 2048 so that I could compress the maps by over 50% in disk space and loading speed. But these limits are only REQUIRED if you plan to save the map in the COMPRESSED format (most are not)..

BUT THERE IS ANOTHER REASON why you should keep close to these values, and that is that I assume those limits when doing a crash check before plotting each point to avoid an overflow error when ZOOMING. Maps that do not stay within those ranges may crash on intense zooming. The MONTREAL map is such a map. Zoom below 8 miles and crashola.

It is easy to see if a map is not conforming to these limits. Just load it in MAPFIX. All of its points should be within the 1024 by 2048 yellow box. A little spillover is not going to crash, but if 50% or 99% of your map is outside of this yellow box, then it should be re-scaled to fit.

ALL MAPMAKERS: Please review your maps and re-origin or re-ppd them to get close to these limits. ANother reason for doing this is that it allows us to make some better assumptions about map coverage between WinAPRS and APRSdos. If you see any of my maps that need fixing. PLEASE report them to me... Thanks!

---

302. Re: [APRSSIG:6744] RE: Tracker Icon

From: ke4eer@AIRnet.net (William Nolle)
Date: Tue, 13 Feb 1996 15:51:31
To: aprssig@tapr.org
Message-ID: <199602132153.PAA16947@foo.garply.com>
Rendered body type: text/plain

>RE: Pickup ICON versus Bus ICON.
>Well, I guess not many of us drive busses, but busses are often used in the
>larger public service events. We regularly use three or four busses to
>transport runners who drop out of the Dallas White Rock Marathon, and have
>seen as many as 20 - 25 busses used in the WalkAmerica event when all the
>participates were requested to park remotely from the event and were bussed
>to the walk site - (also around White Rock Lake). Just FYI.
>
>   Claude
>   K5DTN
>

Ok Claude, but one event over a one year period is not like 1000 pickup that are used with APRS around the country, specially in the South East. Well if not the Bus then i will ask again how many Helicopters or whatever Hi.

Bill KE4EER

---

303. Re: [APRSSIG:6745] Phoenix

From: jkerns@usit.net (jim kerns)
Date: Tue, 13 Feb 1996 17:19:28 -0500
To: aprssig@tapr.org
Message-ID: <199602132221.RAA13586@use.usit.net>
Rendered body type: text/plain

>I'm temporarily in Tempe, AZ -
>
>What's the prime vhf frequency for APRS in Phoenix, and are there maps on
>tapr.org for the Phoenix area?
>
>Thanks!
>
>Doug
>KC7CO

>Doug: the USA or maplist.wes already contains a detailed street level map
of Phoenix
Ariz. it has the streets and avenues all named. Zoom in on Phoenix and take
a look.
There is also a nice central Arz. map made by one of locals up near Prescott
and has all the Prescott streets shown.
73
Jim N4PUQ>
>

---

304. Re: [APRSSIG:6748] 4WD off-road APRS

From: jkerns@usit.net (jim kerns)
Date: Tue, 13 Feb 1996 17:27:39 -0500
To: aprssig@tapr.org
Message-ID: <199602132229.RAA14423@use.usit.net>
Rendered body type: text/plain

>This last weekend I had the opportunity to experiment with APRS during a
>Land Rover off-road trip to the New Idria (Coalinga), CA area. The
>following contains my impressions of using this versatile program in an
>often-harse environment.
>
>My setup consisted of a Toshiba TS2200 laptop, a Kantronics KPC-3 TNC,
>Yeasu FT-530 radio, Motorola PVT-6 GPS unit, and AC adapter with Triplite
>power inverter. The inverter was bought at the last minute due to the
>dubious charge levels of the three laptop batteries. I used the AEA APRS
>serial adapter so that I could run HSP mode with both the TNC and GPS input
>through my single serial port. I ran the KPC-3 with the internal 9VDC
>battery.
>
>During our 5 hour drive to the off-road site, the TNC and radio were kept
>off and the GPS monitored. This gave a change to play with APRS and see
>how the GPS position updates were saved and kept the map centered on our
>vehicle. It was interesting to see the difference between the vehicle and
>the road we travelled on, which was minimal at the map's 64 mile radius but
>augmented at a zoom of 4 miles. The AEA serial cable performed very well,
>and I retrieved both RMC and GGA strings from the GPS.
>
>Previous to the trip, I had prepared 8, 4, and 2 mile radius maps of the
>area we were expecting to travel in. Using the USGS DLG data from the
>CDROM and my own map generation program (MapEdit), I was able to create the
>following maps with under 3000 points:
>- 8 miles with highways and secondary roads.
>- 4 miles with the above plus class 4 roads (streets)
>- 2 miles with the above plus streams and 4WD/trails
>This area is rural, so the density of the maps was not very high. These
>maps did very well in the places they covered, but they didn't cover one
>area where we drove thru 50ft. visibility fog and looking for an important
>turnoff! I experimented when creating the maps and expanded the resolution
>from 640x350 to 2048x1024. This made for much smoother creeks and twisty
>roads when under extreme zoom-in of 0.25 miles.
>
>For the actual off-road driving, I kept the laptop on my lap. On rough
>roads I often closed the lid in order to hang on to it better. The display
>was grayscale VGA, and was readable in directly sunlight as well as at
>night. During the entire time, I was able to track our progress on the
>digital map and once even used it to verify our position on our leader's
>USGS paper map. It was only moderately helpful while navagating due to the
>dated (1979) data the digital maps were created with.
>
>One experiment I tried was putting a stand-alone tracker on another Rover
>to watch the update of his position on my screen. The tracker consisted of
>a AEA PK-12 TNC, an Icom 2-AT radio, another PVT-6 GPS unit, and a 12VDC
>2amp/hour battery. I did receive a few transmissions from the tracker, but
>then abruptly stopped. Seems the 12VDC battery with it's cigarette lighter
>plug did not hold very tightly and the bouncing from the Rover jarred it
>loose. The other interesting item was putting the tracker and it's
>mag-mount antenna on the Rover -- Land Rovers have aluminum body panels!
>So I improvised and put the tracker and the antenna inside the hood-mounted
>spare tire, which is steel. For the time the tracker transmitted, it was
>pretty interesting to watch how the convoy of Rovers spread out and bunched
>up as we moved along.
>
>Once I turned on the laptop's TNC and radio, I was amazed to find all sorts
>of APRS traffic appearing on my screen on 145.01MHz. We were travelling at
>fairly high altitude in the Western side of the San Joaquin Valley, and
>must have been near a major digipeater. I must've gotten a screen and a
>half of position updates, from Chico to Bakersfield and even WA6MTZ from
>Newberry Springs! I tried to ping whatever digis I saw, but I was unable

>to raise anyone. It sure made an interesting California map!
>
>APRS made an interesting addtion to our paper maps, and enabled the GPS to
>show something other than lat/lon. The driver I went with now wants to
>become a ham and install some of this eqipment in his Rover!
>
>As a last comment, I agree with Bob's warning on the opening screen of
>APRS: "Not to be used for Navigation". While APRS shows a pretty picture,
>you are very likely to go somewhere that you won't have the detailed maps
>for, and there is no substitute for an up-to-date paper map.
>
>73, jan
>kc6uth
>
>
> Jan Anthony Barglowski   Phone: (619) 927-1057
> Computer Graphics Dude   Internet: jan@vislab.navy.mil
> VisLab, China Lake   Packet: KC6UTH@WA6YBN.#SOCA.CA.US.NA
>
Jan: Very interesting comments. I have been APRS/HSP with MFJ 1274C, Yeasu
FT 900 and Garman 50 on western trips and have been very pleased with
results. Will be mobile again in mid march from Tn. to SW Ariz. GPS/HSP>
>
>Jim N4PUQ
>

---

305. Re: [APRSSIG:6753] Using the mouse in mapfix in Win95.

From: jleonard@tbcnet.com (John B. Leonard)
Date: Tue, 13 Feb 1996 16:51:27 -0600
To: aprssig@tapr.org
Message-ID: <199602132251.QAA31905@tbc2.tbcnet.com>
Rendered body type: text/plain

Thanks Barbara. I hadn't even thot about restarting in DOS-mode. Thot I'd
lost the mouse in MAPFIX/WIN95 forever.

>Has anyone gotten the mouse to work with mapfix in Win95? I can get it to
>work in DOS and Win 3.1 but not in Win95. It does work in DOS 7.0 by
>restarting Win95 in the MS-DOS mode.
>
>Barbara KK6IB
>E-Mail: fehner@cts.com
>

J Barry Leonard
DeKalb IL
E-MAIL: jleonard@tbcnet.com

Information on the Kishwaukee Amateur Radio Club (DeKalb IL)
Hamfest can be seen at:
http://tbcnet.com/~jleonard/hamfest.htm

---

306. FINAL CALL 20 or 17 Meter APRS??

From: KD4EMI@aol.com
Date: Tue, 13 Feb 1996 18:46:00 -0500
To: aprssig@tapr.org
Message-ID: <960213184559_143405948@mail02.mail.aol.com>
Rendered body type: text/plain

Ok guys, last call...

Is ANYONE operating on other that 30 meters HF..?

IS anyone interested in 20 meters of 17 meters?

Looking especially for Europe stations...?

Send the freq youd like to try and Im there !

FYI   Here is some info you guys might like to know about.
I live in an apt that allows me to have several antennas on the balcony.

I finally broke down and purchased a MFJ loop antenna (10-30MHZ)
I had heard good and bad.   Well my antenna is at 30 feet and
Ive worked a ton of new stations. I works great. Worked Croatia on RTTY,
and almost every state on APRS direct... Lots of new stations every day.
IT's not too good for local stuff, but its a real dx magnet.. (My buddies
with the beams cant believe it !)

```
I highly recomend this antenna and if anyone has specific questions, please
direct it to me personally..

73 MIke
KD4EMI@AOL.COM
```

---

307. Re: [APRSSIG:6695] OREGON maps

From: loflinj@mail.yamhillesd.k12.or.us (Jack Loflin)
Date: Tue, 13 Feb 1996 16:15:24 -0800
To: aprssig@tapr.org
Message-ID: <v01540700ad46d9fea599@[198.237.200.234]>
Rendered body type: text/plain

```
>I jst made several maps of west Oregon, Yakima WA, and Boise ID.  They
>are on tapr in ORmaps01.zip.   THought they might beuseful for all the
>rain problems out there...

I dunno about the rain...but would sure like to see em!  Thanks, I'll go
take a look...

        -Jack
```

---

308. EXE75.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Feb 1996 19:17:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960213190722.2725A-100000@greatlakes>
Rendered body type: text/plain

```
The complete version 75 upgrade file is in 72cto75.zip and is over 900K
long.  The latest APRS75.zip is only 1040K.  But the Upgrade file has
additinal maps that are not in the basic APRS75.zip.  So you should get
the upgrade file..

But for those who just want to test the new EXE without all the other
upgraded baggage, I just posted EXE75.zip which only has the new EXE and
the new MAPFIX20.

I also uploaded my updated regional map distro packages:
Emaps09.zip has some new Maine maps
Mmaps04.zip has new maps of WImadison, WItrego, MIuppercentral,
Cmaps09.zip has COnwest and COswest, fixed TXBexar...
Wmaps07.zip has lots of new Oregon, plus WAYakima, IDBoise
SEmaps09.zip has better south ALA and Georgia Plus NCwin-grn

If you get the 72cto75.zip, ALL OF THESE NEW MAPS ARE INCLUDED
```

---

309. Re: [APRSSIG:6740] Re: OS2 / WinAPRS?

From: schiers@ibm.net (Robert Schiers)
Date: Tue, 13 Feb 96 23:41:18
To: aprssig@tapr.org
Message-ID: <199602140143.BAA41041@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <199602131336.HAA17417@matrix.eden.com>, on 02/13/96 at 07:45 AM,
   jneely@eden.com (Jim Neely) said:

>Use PKZIP and zip it to multiple diskettes.  The help screen on PKZIP
>will show you how.

>I'm surprised that WinAPRS won't run in a Win/OS2 session.  Warp is
>usually easier to get a Windows program running in than Win 3.1,

>Good luck...jn


>On Mon, 12 Feb 1996 16:10:10 -0600 (CST) you wrote:

>>Has anyone tested or gotten WINAPRS beta to work on OS2?  I
>>have not been able to.
>>
>>Has anyone successfully PKZIPPED and PKUNZIPPED the
>>OLE32S13.EXE file that is needed to run WINAPRS on a
>>Windows 3.1x machine?

>Jim Neely
>jneely@eden.com        WA5LHS@tapr.org
```

```
The problem is the version of win32s for win3.1. Only versions 1.15 and
1.25 beta work with OS/2's version of Win-OS2. Version 1.30 (the latest)
will NOT work, period.

If WinAPRS will run under version 1.15 or 1.25 of win32s, then all is
well, just get the right version. If not, Win 3.1 will have to be run in
its native mode (not under os/2) and then version 1.30 will
work...although you will have completely given up on OS/2 at that point.

I run two machines with OS/2 Warp Connect and love it. BUT,
for WinAPRS, I configured a third machine under Win95 and it works
perfectly. 73,


hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

---

310. Re: [APRSSIG:6725] OS2 / WinAPRS?

From: Sean Smithers <seans@magick.net>
Date: Tue, 13 Feb 1996 20:53:13 -48000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9602132007.C11844-0100000@gp.magick.net>
Rendered body type: text/plain

```
Got a null modem cable? You probably have comm programs on both machines.
Windows Terminal and OS/2 PM Terminal should give you the basic tools.
Just hook them together with the serial ports and initiate a file
transfer using xmodem, zmodem, etc.

Long before we had LapLink, we had XModem and XModem was King.
=============================================================================
Sean Smithers
Internet:   seans@gp.magick.net
CompuServe: 70132,136
Packet:     N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Mon, 12 Feb 1996, Art Smith wrote:

> have not yet bought the EXPENSIVE OS2 equivalent of Laplink
> here at work.
>
> Suggestions?
>
>
>
> Art Smith - KB1TX
> Facilities Engineer, Engineering Services
> University Hospital, Denver, Colorado, USA
> Voice - (303)270-3757  FAX - (303)270-4710
> als@ceis.uhcolorado.edu
>
>
```

---

311. UR tnc gone byebye?

From: Robert Abrams <KI6MP@mci.newscorp.com>
Date: Wed, 14 Feb 1996 00:04:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602140504.AAA11844@kafka.iguide.com>
Rendered body type: text/plain

```
>Date: Tue, 13 Feb 1996 17:49:38
>To: Jon T. Adams
>From: Robert Abrams <KI6MP@mci.newscorp.com>
>Subject: UR tnc gone byebye?
>
>Yo Jon de Bob in San Diego. We have received no stns from LA the last few days.
>KM6KU came on today using KI6MP-10 as a path.
>Bernie and I are guessing that you are off the air or at least UR tnc is not
>available on 145.790. There are a few stns in UR area that use you as a
>"high-level" digi and reach S.D. just fine.
>Pse reply directly or via APRSSIG as I check in there daily.
>Best 73 and:
>
>" keep the faith ".
>
```

312. APRS75 Problem

From: ke4eer@AIRnet.net (William Nolle)
Date: Tue, 13 Feb 1996 23:52:16
To: aprssig@tapr.org
Message-ID: <199602140554.XAA07148@foo.garply.com>
Rendered body type: text/plain

```
Is there anyone else that is having a lot of problems with APRS75. Boy i sure
am. First it would not install because it could not find the map directory  so i
did a APRS75/NEW and it installed just fine except it crashed due to not
enough memory. So i figured i would boot from a system floppy to complete
the the whole setup, that worked and didn't need to boot with the floppy
after that but now when zoomed into our local 32 mile map it crashes when
i just ove the cursor with the arrow keys no mather what direction i go. When
it crashes i get an ERROR 14 with a screenfull of numbers, almost the exact
same thing i got with version 74i. No problem at all with 74e....

Bill KE4EER
```

---

313. Re: [APRSSIG:6749] Re: Trakker Icon

From: "James R. Duncan" <102413.375@compuserve.com>
Date: 13 Feb 96 23:11:22 EST
To: Gerald J Creager <gerry@cs.tamu.edu>
Cc: "(unknown)" <APRSSIG@tapr.org>
Message-ID: <960214041122_102413.375_BHA165-1@CompuServe.COM>
Rendered body type: text/plain

```
OK, so I'm hip on the cow-tipping you guys are up to, but isn't it just a LITTLE
difficult
to get them thar heffer with their high-tech hats to ride a bus?  A semi, maybe,
but a BUS?

Once again, with tongue prominently displayed in cheek....

73 de Jim, KU0G
```

---

314. MAPS

From: Scott Miller <scottm@sierra.net>
Date: Tue, 13 Feb 1996 23:18:48 -0800
To: aprssig@tapr.org
Message-ID: <31218CD8.4363@sierra.net>
Rendered body type: text/plain

```
Hi SIG,
I am looking for someone who likes making maps.
I have one goal in life besides becoming a grandfather,
-and I haven't been doing to well at that-and that is bringing
aprs to the intire free world,and maby beond.
I'm half owner of kb6jc-3 digi on donner summit which connects
the Lake Tahoe area to the rest of Ca.
My partner kb6jc and I have two more digi's doing up in the next
week or two to beef up marginal coverage of the Lake Tahoe area.
One of which will be on the east slope of the sierras
IT WILL SEE RENO.
I hope to have at least ten people chomping at the aprs bit
by the time the digi's go on line.
Also the TARA club in south Lake Tahoe has asked me to
give them an APRS demo at their next meeting-I think they have 150 members-
When I zoom below 8 mi.at s.Lake Tahoe I crash.
I'm useing camaps06.I need maps for South Lake Tahoe,Reno,Carson City and
Fallon for now if anyone would like to help out please let me know
I can always ask Ken w7kke he has been very generous with his tallent
in the past.Thanks Scott
```

---

315. symbols

From: Scott Miller <scottm@sierra.net>
Date: Tue, 13 Feb 1996 23:27:26 -0800
To: aprssig@tapr.org
Message-ID: <31218EDE.211E@sierra.net>
Rendered body type: text/plain

```
Hi SIG and Bob,
I don't know if new symbols are a possibility or not
I know how buisy you are but if you ever get a chance
I could use a snowcat and a snowmobile.
just thought I'd throw it out there.
Thanks     Scott
```

---

316. MFJ Data Radio vs. Tekk

```
From: "Al Z., N3KAE" <ldajz@epix.net>
Date: Wed, 14 Feb 1996 08:14:12 +0000
To: aprssig@tapr.org
Message-ID: <312199D4.5322@epix.net>
Rendered body type: text/plain
```

```
Howdy,

I've been on this SIG and have seen alot of discontent regarding the
MFJ Data Radio for APRS applications.  I've talked with a few Packet
network gurus in my area and they have suggested the Tekk radios
offered through Paccomm.  Well a few questions...

Is anyone using the Tekk for an APRS digi ?

Do they align well for 145.79 ?

Is Paccomm really on-line ?  I keep getting a DNS error ?

Tnx for reading...

73 de Al, N3KAE
```

---

317. Re: [APRSSIG:6747] Re: OS2 / WinAPRS?

```
From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Wed, 14 Feb 1996 07:30:53 MST-0700
To: aprssig@tapr.org
Message-ID: <7516A18771E@ceis.uhcolorado.edu>
Rendered body type: text/plain
```

```
Gerry:

Unfortunately the Compaq AERO running OS@ Warped  will not
boot in DOS from the PCMCIA card A Drive!

Also, the OS2 backup program appears to be not compatable
with the DOS program.  I have not tried the CPS backup
program yet to see if I can copy the file that way.

There is a OS2 equivalent of LapLink that will transfer
files and programs to and from DOS and Windows, but it
costs $495 so we have not been able to justify it.

The joys of working with OS2!

Art Smith
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757  FAX - (303)270-4710
als@ceis.uhcolorado.edu
```

---

318. RE: TEKK Radio

```
From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 14 Feb 96 9:54:08 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824309648.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain
```

```
The TEKK radio is 440 ONLY!  They do NOT have a 2m version.. I have asked..
It is a VERY good radio, we have used them in balloons a lot..


Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

319. Re: [APRSSIG:6772] MFJ Data Radio vs. Tekk

```
From: JAgrelo@aol.com
Date: Wed, 14 Feb 1996 10:55:01 -0500
To: aprssig@tapr.org
Message-ID: <960214105500_221903928@emout07.mail.aol.com>
Rendered body type: text/plain
```

```
In a message dated 96-02-14 09:36:25 EST, you write:
```

```
>>I've been on this SIG and have seen alot of discontent regarding the
>MFJ Data Radio for APRS applications.  I've talked with a few Packet
>network gurus in my area and they have suggested the Tekk radios
>offered through Paccomm.  Well a few questions...
>
>Is anyone using the Tekk for an APRS digi ?
>
>Do they align well for 145.79 ?

Last I knew the Tekk radio's were UHF 440 range only.

 73 de Joe N2OOC
-------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-------------------------------------------------------------------------------
-----------------
```

320. Help with upload

From: jbc5@po.cwru.edu (Joe Carter)
Date: Wed, 14 Feb 1996 11:05:12 -0500
To: aprssig@tapr.org
Message-ID: <199602141605.LAA14767@slc5.INS.CWRU.Edu>
Rendered body type: text/plain

```
I downloaded John Baum's new Ohio maps Ohmaps05.zip from his LLBBS and
would like to upload them to the Tapr ftp site.  Could someone give me a
quick help on how to upload them.  I am using Netscape/Eudora.
                        Thanks,
                        Joe, AA8SF
                        jbc5@po.cwru.edu
```

321. Re: Help with upload

From: sproul@ap.org (Mark Sproul)
Date: Wed, 14 Feb 1996 11:38:30 -0500
To: aprssig@tapr.org
Cc: jbc5@po.cwru.edu
Message-ID: <v0213050bad47c0570153@[165.1.27.20]>
Rendered body type: text/plain

```
>I downloaded John Baum's new Ohio maps Ohmaps05.zip from his LLBBS and
>would like to upload them to the Tapr ftp site.  Could someone give me a
>quick help on how to upload them.  I am using Netscape/Eudora.
>                        Thanks,
>                        Joe, AA8SF
>                        jbc5@po.cwru.edu
>


Dont bother, I have it done

Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://pilot.njin.net/~msproul
___________________________________________________________________________
```

322. Re: [APRSSIG:6773] Re: OS2 / WinAPRS?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 14 Feb 1996 10:54:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602141654.KAA23851@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Art Smith sez:
>
```

```
> Unfortunately the Compaq AERO running OS@ Warped  will not
> boot in DOS from the PCMCIA card A Drive!

Interesting.  I'll have to ask a friend in Austin who claims no problem with
this!  I'll let you know.

> Also, the OS2 backup program appears to be not compatable
> with the DOS program.  I have not tried the CPS backup
> program yet to see if I can copy the file that way.

True, and never advertised to be.  OS/2 backup and DOS backup are different
programs, formats, etc.  Lots more OS/2 has to plan on keeping track of,
especially with EAs and long file names.

> There is a OS2 equivalent of LapLink that will transfer
> files and programs to and from DOS and Windows, but it
> costs $495 so we have not been able to justify it.

When I bought the Aero, it came with WinLink.  I DOS-booted the sucker, cloned
WinLink to the C drive, and rebooted to OS/2 and it's run ever since.

> The joys of working with OS2!

Well, actually, I *do* prefer it to a half-baked monitor advertised as an
operating system and wrapped in a poorly done GUI... or such is still my
opinion of Win9x.  The thing that nails most folks is that OS/2 is an
operating system and as such is somewhat more complex and has more inherent
opportuinities for FUBAR than DOS or windows.  But these things are inherent
in the power of an OS.

73, gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

323. Phoenix

From: dwetzel@uswest.com
Date: Wed, 14 Feb 1996 06:15:46 -0600
To: aprssig@tapr.org
Message-ID: <12210f60@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Thanks to all of you who updated me on the Phoenix area.  I received a great
map direct from George, w8fwf, and brought up Mac APRS just fine.  What I don't
have now is the serial cable from my Mac to my tnc.  Murphy has it in Salt Lake
City, on my desk.  @##$@$%@!!.
:-(

Doug
KC7CO
```

324. Re: [APRSSIG:6770] MAPS

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
Date: Wed, 14 Feb 1996 10:01:47 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602141801.KAA22451@archimedes.vislab.navy.mil>
Rendered body type: text/plain

```
>
> Hi SIG,
> I am looking for someone who likes making maps.
...
> Also the TARA club in south Lake Tahoe has asked me to
> give them an APRS demo at their next meeting-I think they have 150 members-
> When I zoom below 8 mi.at s.Lake Tahoe I crash.
> I'm useing camaps06.I need maps for South Lake Tahoe,Reno,Carson City and
> Fallon for now if anyone would like to help out please let me know
> I can always ask Ken w7kke he has been very generous with his tallent
> in the past.Thanks Scott
>

Scott:

I played around and made a 4mi map centered on 39:55:00N, 120:00:00W, and am
cooking up a 2mi on the same center.  Let me know if you want to FTP 'em from
my site or give me your email address and I'll send 'em to ya...
```

```
73, jan
kc6uth

jan@vislab.navy.mil
```

---

325. Re: Calif APRS Freqs

From: Mike Musick <71301.3106@compuserve.com>
Date: 14 Feb 96 11:18:51 EST
To: <aprssig@tapr.org>
Message-ID: <960214161850_71301.3106_FHJ90-2@CompuServe.COM>
Rendered body type: text/plain

```
Mark and Ken -

Many thanks to you both for the lowdown on California APRS. I will pop over to
the FTP site in a couple of moments here and grab the California maps.
Incidentally, there are some extremely detailed maps of the Bay Area for the
Mac and Win versions. When SA gets turned off they will *really* be useful!

Seeing the two votes for "WIDE,WIDE" certainly addresses that issue! This
shouldn't be a problem as I plan to run 50W on the APRS rig, provided that it
doesn't give headaches with other equipment in the car. The new PicoPacket
(hopefully with the bugs fixed) will be arriving in the next day or so, so
there are testing and configuration issues to solve. I'll be running the HP on
this trip for a PC, but might take it offline now and then for other chores,
and then just beacon position.

Thanks for the warnings, Mark; however, I lived out there for my first 27 years
and am all too familiar with the tule fogs (and the chain collisions on US99).
And, Ken, my mother-in-law lives up on the hill in Belmont, so I guess I can
sit on her balcony and rain RF on you. ;-)

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.2.0 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.5 on an HP200LX palmtop
```

---

326. APRS75

From: ke4eer@AIRnet.net (William Nolle)
Date: Wed, 14 Feb 1996 12:34:05
To: aprssig@tapr.org
Message-ID: <199602141836.MAA32268@foo.garply.com>
Rendered body type: text/plain

```
Well Bob did some real testing this morning and found that it MUST be a
memory problem only because when booting from a system disk i couldn't get
it to crash (So far). And yes it does recover from the ERR 14.

I got the following screen upon moving the cursor,

LM,PM:8    -1
A$:P
C$:
ES$
Back in Plot Curlz 34LZ 86LZ (etc etc)
OOPS! ERR 14

Hitting enter scrolled the screen twice then when i hit the space bar
it recovered and went back to the map, but when at the 128 mile
level when i moved cursor it crashed again with the above error screen.

It looks like i'm bordering running low on memory with to many TSR's and this
is what may be causing this problem altough i never had this problem untill
74i and 75....

Bill KE4EER
```

---

327. Re: 75 and CO maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 14 Feb 1996 13:39:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960214133221.8376B-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 14 Feb 1996, Art Smith wrote:

> Ran APRS75 in DOS window on OS2 machine. Used MC to select .wes
```

> No detail of CO except state line shows at below 256 miles!

WB4APR REPLY COMMENT: ***** CONCERNING APRS75 and ALL MAPS *****

Everyone may have to change old habits. I moved LOTS of maps out of MAPLIST.USA and moved them into the regional distros. To see the boundaries of Eas, Mid, Cen, Wes, SEast, go to whole USA and hit MAPS-ALT. Here are some additional notes about COLORADO:

* Colorado is in MAPLIST.cen not .wes
* I left off the .map in the MAPLIST.cen list for COswest. so this needs to be edited to add the .map.
* LAST NIGHT I began new 32 mile maps for Denver and Pueblo. Was going to post them today, but noticed that COL SPRS is right on the edge between both so I want to re-do them to overlap better. Will be done by tomorrow, thursday..

---

328. V75

From: Michael Walker <mwalker@gold.interlog.com>
Date: Wed, 14 Feb 1996 14:48:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960214144502.10838A-100000@gold.interlog.com>
Rendered body type: text/plain

Hi Bob and all others

I downloaded version 75 from TAPR via FTP this morning and unzipped it and it ran just fine. I only spent about 10 minutes playing with it, but it ran fine until I had to leave for work. I have left it up and running.

I run is under an os/2 dos box 24 hours a day, 7 days a week.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

---

329. Does 74e need a math co-processor to run?

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Wed, 14 Feb 1996 12:10:18 -0500
To: aprssig@tapr.org
Message-ID: <3122177A.717@dgp.toronto.edu>
Rendered body type: text/plain

Does APRS74e need a math co-processor?

I am attempting to codger together a dual 1.2MB floppy based AT 286-12 APRS system entirely out of junk box components.

(appliance operators forgive me, you won't understand this).

While everything works fine running from a floppy on a 486DX-66, running on the no math co-processor 286 aborts with an "oops error 6" message.

Do I need to scrounge a math co-processor for APRS74E to run?

I do have a 80287-3 which runs away too hot for my liking in the 12MHz AT. I guess I could take a page from INTEL's approach to hot chips: put a fan on it.

If I recall, the 287 runs at 1/2 the 286 clock speed. My 287-3 is rated at 3MHz while the 286-12 drives it at 6MHz.

---

330. Re: [APRSSIG:6774] RE: TEKK Radio

From: Wayne Harrell <wharrell@surfsouth.com>
Date: Wed, 14 Feb 1996 17:23:57 -0500
To: aprssig@tapr.org
Message-ID: <199602142223.RAA18902@cindy.surfsouth.com>
Rendered body type: text/plain

At 08:57 AM 2/14/96 -0600, you wrote:

>
>The TEKK radio is 440 ONLY! They do NOT have a 2m version.. I have asked..
>It is a VERY good radio, we have used them in balloons a lot..
>
>
>Keith

```
>
>Keith Sproul                             Ham Radio: WU2Z
>Student Housing Network Coordinator      ksproul@noc.rutgers.edu
>Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
>http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
>
>
>
Hello Keith do you have the number for the TEKK radio's. I talked with them
a while
back and have lost the number. Also are you aware of the frequency they have as
standard?

Thanks
Wayne WD4LYV
```

---

331. Thoughts on Personal Notes...

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 14 Feb 1996 14:54:05 -0600
To: aprssig@tapr.org
Message-ID: <199602142054.OAA13849@tbc2.tbcnet.com>
Rendered body type: text/plain

```
I am forwarding this to the APRSSIG.  Hope there's something in there that
everyone finds humorous.

jbl


>I am posting this on the behalf of Gilles, who wished to share some thoughts on
>the matter...
>----------------------------------------------------------------------
>Originally posted on Laugh of the Day mailing list:
>
>THE NATURAL LIFE CYCLE OF MAILING LISTS
>
>Every list seems to go through the same cycle:
>
>1.  Initial enthusiasm (people introduce themselves, and gush alot about
>    how wonderful it is to find kindred souls).
>
>2.  Evangelism (people moan about how few folks are posting to the list,
>    and brainstorm recruitment strategies).
>
>3.  Growth (more and more people join, more and more lengthy threads
>    develop, occasional off-topic threads pop up).
>
>4.  Community (lots of threads, some more relevant than others; lots of
>    information and advice is exchanged; experts help other experts as
>    well as less experienced colleagues; friendships develop; people
>    tease each other; newcomers are welcomed with generosity and
>    patience; everyone -- newbie and expert alike -- feels comfortable
>    asking questions, suggesting answers, and sharing opinions).
>
>5.  Discomfort with diversity (the number of messages increases
>    dramatically; not every thread is fascinating to every reader;
>    people start complaining about the signal-to-noise ratio; person 1
>    threatens to quit if *other* people don't limit discussion to
>    person 1's pet topic; person 2 agrees with person 1; person 3
>    tells 1 & 2 to lighten up; more bandwidth is wasted complaining
>    about off-topic threads than is used for the threads themselves;
>    everyone gets annoyed).
>
>6a. Smug complacency and stagnation (the purists flame everyone who asks
>    an 'old' question or responds with humor to a serious post;
>    newbies are rebuffed; traffic drops to a doze-producing level of a
>    few minor issues; all interesting discussions happen by private
>    email and are limited to a few participants; the purists spend
>    lots of time self-righteously congratulating each other on keeping
>    off-topic threads off the list).
>
>OR
>
>6b. Maturity (a few people quit in a huff; the rest of the participants
>    stay near stage 4, with stage 5 popping up briefly every few
>    weeks; many people wear out their second or third 'delete' key,
>    but the list lives contentedly ever after).
>
>
```

```
>
>Gilles Frydman<=>The Kosher Frog <=> gilles@dorsai.org
>   -------------------------------------------------------------------------
>        The Internet Cancer Lists Archives
>                 http://www.medinfo.org:
>---------------------------------------------------------------------------
>
>
>--
>E. Loren Buhle, Jr., Ph.D          INTERNET: BUHLEL01@MCRCR6.MED.NYU.EDU
>*** The views expressed here are mine and do not reflect the views or
>*** opinions of my employer or this resource!         Phone: 610-622-4293
>P.O. Box 7806                  Philadelphia, PA 19101   FAX: 610-622-1343
>
-----------------------------------------------------------------
J Barry Leonard
DeKalb IL
Subependymoma 1990
E-MAIL:  jleonard@tbcnet.com

Information on the Kishwaukee Amateur Radio Club (DeKalb IL) Hamfest can be
seen at:
http://tbcnet.com/~jleonard/hamfest.htm
```

---

332. Re: [APRSSIG:6777] Re: Help with upload

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Wed, 14 Feb 1996 23:03:28 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9602142326.A4661-a100000@acme>
Rendered body type: text/plain

```
On Wed, 14 Feb 1996, Mark Sproul wrote:

> >I downloaded John Baum's new Ohio maps Ohmaps05.zip from his LLBBS and
> >would like to upload them to the Tapr ftp site.  Could someone give me a
> >quick help on how to upload them.  I am using Netscape/Eudora.
> >                        Thanks,
> >                        Joe, AA8SF
> >                        jbc5@po.cwru.edu

> Dont bother, I have it done
>
> Mark
         Thanks Guys. I hope to have .06 ready before Dayton. It should cover
all Interstates in Ohio for mobile operations

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249 - Ohio Map Maker
Cruise Missile Address:  39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
```

---

333. 7.5 Maps dir

From: "Thomas H. Busch" <TOMB@avoca.nwscc.sea06.navy.mil>
Date: Thu, 15 Feb 1996 08:55:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <829ADA9205E@avoca.nwscc.sea06.navy.mil>
Rendered body type: text/plain

```
Hi

The version 7.5 I downloaded from TAPR can't seem to find the MAPS
directory.  I unzipped it with -d and it exists and has maps in it.

Tom
```

---

334. Re: [APRSSIG:6786] RE: TEKK Radio

From: JAgrelo@aol.com
Date: Thu, 15 Feb 1996 09:19:48 -0500
To: aprssig@tapr.org
Message-ID: <960215091946_144896914@emout04.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-02-14 18:39:41 EST, you write:

>Hello Keith do you have the number for the TEKK radio's. I talked with them
>a while back and have lost the number. Also are you aware of the frequency
they have as standard?
>
>Thanks
```

>Wayne WD4LYV

I am not Keith but here is the address & phone number.

Ask TEKK what freq's the offer.

TEKK INC. 226 NW PARKWAY, KANSAS CITY, MO 64150
FAX (816)746-1093
PH (800)521-TEKK

73 de Joe N2OOC

```
-----------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-----------------------------------------------------------------------------
-----------------
```

335. COlorado, Nevada, MAPFIX21

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 12:47:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960215124349.24077A-100000@greatlakes>
Rendered body type: text/plain

I just posted NEWFIX21.zip which contains approximately

CODnvr
COPueblo
NVnwest
USAwest
USAcen
and a new MAPFIX21 ** This is because I didnt like the D key for the
DISPLAY menu. I was always using D for DELETE with EDIT locked on. So
this new version changed the name of the DISPLAY menu to SETUP MENU using
the S key...

336. Re: [APRSSIG:6785] Does 74e need a math co-processor to run?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 13:01:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960215125829.24077B-100000@greatlakes>
Rendered body type: text/plain

On Wed, 14 Feb 1996, Greg Blair wrote:

> Does APRS74e need a math co-processor?
> While everything works fine running from a floppy on a 486DX-66, running
> on the no math co-processor 286 aborts with an "oops error 6" message.

WB4APR REPLY COMMENT: NO. #6 is an overflow error. COuld be caused by
math problems, but most likely is a missing MAPLIST file or the FIRST map
you are trying to load. On a Floppy, the CONFIG file moved with you from
one machine to the other. It may be trying to load a MAP that you were
ZOOMED into on the other machine, but which is NOT present on the 2nd
machine.

337. APRS time-syncing is Important

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 13:23:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960215130313.24077C-100000@greatlakes>
Rendered body type: text/plain

From: G. Robert Merchant <hi010@cleveland.Freenet.Edu>

Hi Bob, we used APRS in a Cleveland road rallye last weekend. All APRS
mobiles contributed their log files to a central pool..for me to
compile. The PROBLEM: one station was running EST, another was running
UTC. Some clocks were off by three to 15 minutes... What a mess!

APR REPLY: Everyone should use the alt-SETUP-GPS-TIMEsync command
during any special event. BUT SINCE this is an ongoing problem,
I will discuss with Sproul Bros an ON-AIR command so that one station can
force a time-sync to GPS of all stations on frequency...

---

338. Re: [APRSSIG:6789] 7.5 Maps dir

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 13:35:46 -0500 (EST)
To: aprssig@tapr.org
Rendered body type: text/plain

Message-ID: <Pine.SUN.3.91.960215133333.24077F-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 15 Feb 1996, Thomas H. Busch wrote:

> The version 7.5 I downloaded from TAPR can't seem to find the MAPS
> directory. I unzipped it with -d and it exists and has maps in it.

APR REPLY: RESTART from scratch with APRS75/new. Your new 75 is using
your old config file which apparently is pointing to a MAP which is NO
LONGER in the MAPLIST.USA. or whatever is your CONFIG'ed MAPLIST.

If you dont want to re-enter all of you CONFIG stuff, then edit your
CONFIG file to use MAPLIST.USA, and a range of 1024 to force it to
load a map that it can find...

---

339. Re: [APRSSIG:6793] APRS time-syncing is Important

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Thu, 15 Feb 1996 15:32:35 -0600
To: aprssig@tapr.org
Message-ID: <199602152134.PAA29654@tapr.org>
Rendered body type: text/plain

```
>The PROBLEM:  one station was running EST, another was running
>UTC. Some clocks were off by three to 15 minutes...  What a mess!
>
>APR REPLY:  Everyone should use the alt-SETUP-GPS-TIMEsync command
>during any special event.  BUT SINCE this is an ongoing problem,
>I will discuss with Sproul Bros an ON-AIR command so that one station can
>force a time-sync to GPS of all stations on frequency...
>
Just wanted to say what a novel and sane idea your solution is; will you
limit that time sync by range so only APRS sites that are direct or in a
certain radius get set; so as to eliminate any time lag due to multiple hop's?
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good
```

---

340. Re: [APRSSIG:6793] APRS time-syncing is Important

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 15 Feb 96 16:35:20 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824420120.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS (and hence WinAPRS, but it isn't implemented yet) has had the ability
to set the clock to the LOCAL GPS time..

This has been in MacAPRS since the first release....

The problem is that when you go out over the air, and the packet gets
repeated several times, it can be MANY seconds later...

In the situation in the Cleveland road rally, the desire would be to assign
a SINGLE station as the 'TIME KEEPER', and have it send out a TIME SYNC
packet, and everyone that was hearing that AND THAT WANTED TO, could sync
onto that time..

In actuality, this is very easy to do, the question is IS THIS WHAT IS
WANTED?

```
I would like to hear some comments pro and con...

My comments:


PRO:    For the 'special event' situation, this would be a GREAT idea.

CON:    I don't want MY clock goofed up by what time YOU think it is...


Let me know what you think.....

Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

341. Re: [APRSSIG:6790] RE: TEKK Radio

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 15 Feb 1996 16:07:58 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602152207.QAA20810@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Just to drop a little experience into the hat...

I've been using the Tekk KS-900 (silver box, larger) radios for about a year
on the Cows In Space project with only one apparent failure, and that looks
like a dead crystal.

The radios are pretty rugged and work well in environmental extremes.  I don't
have data about submerged operations, since the pastures we use are in the
winter dought periods:-)

Frequency stability as well as performance are better than I would have
expected in a radio shamelessly abstracted from Motorola's Apps notes.  They
continue to put out 2 watts religiously.

I may have just been lucky (Yeah, Gwyn, I really know better) but I've been
able to get 19.2 kpbs performance out of them without swapping front-end
filters.  On this, your mileage may vary.  Several of us here in town also
have 'em on amateur applications, and they just keep on working.  Well.

73, gerry
--
Gerry Creager  N5JXS                *  SAREX Co-Investigator
gerry@cs.tamu.edu                   *     A little radio that lets kids talk
                                    *       to astronauts, and smile
******************************************************************************
```

---

342. Re: [APRSSIG:6793] APRS time-syncing is Important

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 15 Feb 1996 16:15:32 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602152215.QAA20982@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Bob Bruninga sez:
>
> I will discuss with Sproul Bros an ON-AIR command so that one station can
> force a time-sync to GPS of all stations on frequency...

I really like this idea!

Gerry
```

---

343. Re: [APRSSIG:6796] Re: APRS time-syncing is Important

From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Date: Thu, 15 Feb 1996 14:24:54 -0800
To: aprssig@tapr.org
Message-ID: <v01520d01ad48f0d57fd5@[129.131.31.10]>
Rendered body type: text/plain

```
>I would like to hear some comments pro and con...
>
>My comments:
```

```
>
>
>PRO:    For the 'special event' situation, this would be a GREAT idea.
>
>CON:    I don't want MY clock goofed up by what time YOU think it is...
>
>
>Let me know what you think.....

OK, how about a "time query", just like the position and wx queries?  By
default this function would stay off unless invoked.  One station could be
designated "time server".  Then during an event a bulletin could be sent
asking all involved to set their clocks this way...

Another idea is to set the clock automatically from any valid GPS string,
unless the time isn't sent over the air (I can't remember offhand).

73, jan
kc6uth
```

---

344. 20 or 17 meter gateways

From: KD4EMI@aol.com
Date: Thu, 15 Feb 1996 17:53:12 -0500
To: aprssig@tapr.org
Message-ID: <960215175309_145277081@emout06.mail.aol.com>
Rendered body type: text/plain

```
I have yet to recieve one reply for 20 or 17 meter gateway.

I guess if someone wants to do it later, keep me in mind.

Mike KD4EMI@AOL.COM
```

---

345. Re: [APRSSIG:6796] Re: APRS time-syncing is Important

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 18:26:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960215180249.357B-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 15 Feb 1996, Keith Sproul wrote:
>
> The problem is that when you go out over the air, and the packet gets
> repeated several times, it can be MANY seconds later...
>
WB4APR REPLY COMMENT:   Since the on-air protocols only report to the
minute, and errors less than one minute have no effect on my dead
reckoning and loging, I would be happy with half minute accuracy...
Here are my thoughts:

PROBLEM:  Because of the way some TNC's have implemented the GPS timing,
you can NOT tell if an on-air GGA report is in real time, or delayed by an
indefinite time, (Days in some cases..  THe TNC just keeps beaconing the
OLD GPS posit and time...)

I suggest the following:

* A user setup function says that you will accept over-the-air GPS timing
  commands or not.  The defualt is YES

* A station known to be in GPS sync can MANUALY activate a periodic
  APRS-GPS-TIMESYNC packet.  This packet only contains the UTC DATE, HOUR
  and MINUTE.  When it is time to be transmitted, it will be initiated
  at the Start of the minute. (00 seconds).  As long as it is received
  within say 15 seconds, it will be close enough for all my purposes with
  dead reckoning etc...

Remember that the time from when the PC initiates the packet, until it even
gets transmitted is also ambiguous due to channel busy...  So I see
no reason to try to do better than a minute.  On receive, I will probably
add 5 seconds if heard direct, and 10 seconds if heard via a digi to make
up for average delays.  Just a guess....
```

---

346. Re:Time sync

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Thu, 15 Feb 96 17:21:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <3123C36D@rsvl_gw.rsvl.unisys.com>

Rendered body type: text/plain

```
For what its worth, I agree with Keith (see below) about WANTING to sync
time.  The general field of time synch is not as easy as it may appear to
be, unless everybody is on a specific reference time, such as UTC.  (Which
is obviously the way She wanted it to be.)  Unfortunately, it doesn't work
out that way.

However, *almost* anything is better than every station in a network keeping
their own time.  I think Keith's idea is good enough to work, simple enough
to implement, and will provide *good enough* time (within several seconds,
which is MORE than adequate).

Good idea.  Hope to see it some time

Donn


<CUT>
 the desire would be to assign a SINGLE station as the 'TIME KEEPER',
and have it send out a TIME SYNC packet, and everyone that was hearing that
AND THAT WANTED TO, could sync onto that time..

In actuality, this is very easy to do, the question is IS THIS WHAT IS
WANTED?

I would like to hear some comments pro and con...

My comments:
PRO:    For the 'special event' situation, this would be a GREAT idea.
CON:    I don't want MY clock goofed up by what time YOU think it is...
Keith
<CUT>
```

---

347. Re: [APRSSIG:6799] Re: APRS time-syncing is Important

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 18:31:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960215182914.357C-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 15 Feb 1996, Jan A. Barglowski wrote:

> Another idea is to set the clock automatically from any valid GPS string,
> unless the time isn't sent over the air (I can't remember offhand).

WB4APR REPLY COMMENT:   Thats what the PC alt-SETUP-GPS-TIMSYNC command
does.  It will take the time from the next GPS string no matter whether
local or over the air.  BUT it should be used with caution, since some
TNC's continnue to report OLD posits...
```

---

348. RE: [APRSSIG:6799] Re: APRS time-syncing is Important

From: "Sadowski,P O4 USAF JCSAR/EDD" <sadowskp@jcsar.nellis.af.mil>
Date: Thu, 15 Feb 96 15:48:00 cst
To: aprssig <aprssig@tapr.org>
Message-ID: <3123AB8E@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

```
Time syncing is important... how about having a polling only response
for position / wx / DF info ????   From a prearranged list of course...  Or
is it already there and I have been too blind to see it???

ALOHA
AH6LS
 ----------
From: aprssig
To: aprssig
Subject: [APRSSIG:6799] Re: APRS time-syncing is Important
Date: Thursday, February 15, 1996 4:38PM

>I would like to hear some comments pro and con...
>
>My comments:
>
>
>PRO:    For the 'special event' situation, this would be a GREAT idea.
>
>CON:    I don't want MY clock goofed up by what time YOU think it is...
>
```

```
>
>Let me know what you think.....

OK, how about a "time query", just like the position and wx queries?  By
default this function would stay off unless invoked.  One station could be
designated "time server".  Then during an event a bulletin could be sent
asking all involved to set their clocks this way...

Another idea is to set the clock automatically from any valid GPS string,
unless the time isn't sent over the air (I can't remember offhand).

73, jan
kc6uth
```

---

349. APRS7

From: bobhill@ns.pan-tex.net (bob hill)
Date: Thu, 15 Feb 1996 17:03:39 -0800
To: aprssig@tapr.org
Message-ID: <199602160103.RAA07374@ns.pan-tex.net>
Rendered body type: text/plain

```
Hello Bob:

Yes , I sent you a check for $33.00 to register for the APRS7 program and I had
written you a note to be included with the check but it did not get put in the
envelop.

I got your return card today in the mail and I brought it home and was doing
several things around the computers and tried the program.  But my problem is I
told myself to put the card in a safe place so I would have my number.  Well I
have looked in the trash and all around the radio bench and I have put it up too
good because I can not find it now.

I think my number from memory is 15659.   Could you vertify that and if wrong
please send me my number over e-mail and also send the text that was written
on the post card.

Thanks and 73,
Bob Hill, W5FBQ
```

---

350. APRS75

From: "Tony Flusche" <Tony_Flusche@compuware.com>
Date: Thu, 15 Feb 96 18:19:09 EDT
To: aprssig@tapr.org
Message-ID: <199602160125.AA03829@stargate.compuware.com>
Rendered body type: text/plain

```
Bob did you include the DF fixes in 75? Also first time I ran 75 I had
     a bogus call in my plist, cmAB6BR lowercase cm uppercase callsign. cm
     is the first part of my grid square. Happened only the first time.
     Noticed it created CFIG73. not CFIG75. 73 AB6BR
```

---

351. Re: [APRSSIG:6799] Re: APRS time-syncing is Important

From: "Earl Boatman KB0NRK" <eboatman@phoenix.net>
Date: Thu, 15 Feb 1996 19:30:43 +0000
To: aprssig@tapr.org
Message-ID: <199602160130.TAA25646@mail.phoenix.net>
Rendered body type: text/plain

```
> Date:          Thu, 15 Feb 1996 16:38:34 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:6799] Re: APRS time-syncing is Important

> >I would like to hear some comments pro and con...
> >
> >My comments:
> >
> >
> >PRO:    For the 'special event' situation, this would be a GREAT idea.
> >
> >CON:    I don't want MY clock goofed up by what time YOU think it is...
> >
> >
> >Let me know what you think.....
>
> OK, how about a "time query", just like the position and wx queries?  By
> default this function would stay off unless invoked.  One station could be
> designated "time server".  Then during an event a bulletin could be sent
> asking all involved to set their clocks this way...
>
> Another idea is to set the clock automatically from any valid GPS string,
> unless the time isn't sent over the air (I can't remember offhand).
>
> 73, jan
> kc6uth
>
I have a program that looks up the time from the navy time site and
sets my computer.  If you can make it any site can be the time server
not just a gps site?.

Thanks

_______________________________________________________
Earl A. Boatman KB0NRK              Barque Elissa
eboatman@mail.phoenix.net           Three Masted, 202ft
1414 winnie                         Pier 21
Galveston, TX, 77550                Galveston, TX.
(409) 762-2098                      (409) 763-1877
_______________________________________________________
```

---

352. Re: [APRSSIG:6806] APRS75

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 15 Feb 1996 21:03:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960215210246.4129B-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 15 Feb 1996, Tony Flusche wrote:

>      Bob did you include the DF fixes in 75? Also first time I ran 75 I had
>      a bogus call in my plist, cmAB6BR lowercase cm uppercase callsign. cm
>      is the first part of my grid square. Happened only the first time.
>      Noticed it created CFIG73. not CFIG75. 73 AB6BR

WB4APR REPLY COMMENT:

Nope. Still havent gotten back to DF.  the cm is also the first part of cmd:
hi hi
```

---

353. Time Sync for APRS..

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 15 Feb 96 21:42:27 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824438547.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
Okay, here goes.....

The way I see it, I am going to implement the following:

This will be in MacAPRS soon, and WinAPRS in the not too distant future..


In MacAPRS, there is a command "SET TIME FROM GPS", in the Macintosh version,
this will ONLY work from a LOCAL GPS LIVE signal, and NOT from over the air
PACKETS..  It takes the NEXT VALID TIME signal from the GPS data, and sets
the clock accordingly..

I am going to add a command SYNC TIME that will sync to a UTC TIME packet
received over the air..

The TIME received over the air will be a NEW FORMAT, or will be a NMEA
format, (Currently undecided, comments?)  The time that will in hrs minutes
AND seconds...   This is because we CAN get better than one minute accuracy
at this, especially in the case were we are all listening to the same digi,
which is usually the case in special events..

(I like the idea of having it set so that it will only affect stations within
a given radius of the sending station)


The SYNC TIME COMMAND will be a ONE-SHOT deal, meaning that it will set a
flag to SYNC on the NEXT TIME PACKET it sees, then it will CLEAR the flag and
NOT do it again unless the user re-selects the command.
```

```
The TIME will ALWAYS be in UTC (as received from the GPS), but the computers
will set the LOCAL clocks according to their UTC offset..

To SEND a time sync packet, it MUST be EITHER:

        MANUALLY DONE, ONE PACKET AT A TIME...

        OR

        Have a REAL GPS (Yes MacAPRS/WinAPRS knows if it is LOCAL data)
        on line and receiving VALID data from the GPS..
        Then you will be able to tell it to send the data out on a periodic
        basis...  It will NOT allow this to be done more than once every
        hour for AUTOMATIC transmissions (use manual for more often)

The reason for allowing a MANUAL time packet to be sent is if your special
event has a LOT of GPS's running in the field, but no GPS units at the
stations with people at them...



Mark (KB2ICI) even commented that he wouldn't even mind having his clock set
on a DAILY basis to be sync-ed up to a KNOWN accurate time clock..


I have some GPSs here, and if some of the local people wanted this info,
I would go so far as to put one on FULL TIME, and send out a TIME SYNC
Packet every night at 00:00z..

I would also recommend to NOT sync up to time packets from HF...  :-)



Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

354. APRS TIME SYNC

From: Wb2ngz@aol.com
Date: Thu, 15 Feb 1996 22:53:42 -0500
To: aprssig@tapr.org
Message-ID: <960215225341_223415003@emout06.mail.aol.com>
Rendered body type: text/plain

```
We have APRS folks out there who can't find their registration numbers,
can't configure APRS75, haven't got a clue what parity to use and you want
them to be able to reset MY APRS time clock to THEIR time? While you're
reconfiguring your next APRS version Bob, please include a parameter called
INCOMING CONFIGURATION:
(Y)es, (N)o, (M)aybe, (H)ell NO, (O)nly if KE4EER says it's okay.

73...Bob, WB2NGZ
```

---

355. Re: [APRSSIG:6796] Re: APRS time-syncing is Important

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 15 Feb 1996 21:55:27 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602160355.VAA25889@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Keith Sproul sez:
>
>
> MacAPRS (and hence WinAPRS, but it isn't implemented yet) has had the ability
> to set the clock to the LOCAL GPS time..
> ...
> The problem is that when you go out over the air, and the packet gets
> repeated several times, it can be MANY seconds later...

Actually, one should sync from a close, and known, GPS if possible.

> In the situation in the Cleveland road rally, the desire would be to assign
> a SINGLE station as the 'TIME KEEPER', and have it send out a TIME SYNC
> packet, and everyone that was hearing that AND THAT WANTED TO, could sync
> onto that time..

Bad idea:  Induces 'way too much opportunity for system latency.  Update from
one of the GPS trackers.
```

```
> PRO:  For the 'special event' situation, this would be a GREAT idea.
>
> CON:  I don't want MY clock goofed up by what time YOU think it is...

So you get your clock (at least the minutes) set to GPS time.  What's the
malfunction?  Most fo us are trying to keep reasonable time...

If there's a way to get all APRS bases to periodically update the clock from a
GPS, that's great.  I agree with Dave Barow, that a zero-digi path may be
acceptable.  Get  couple of digi's in there, and we're dead!

73, gerry
```

---

356. Re: [APRSSIG:6809] Time Sync for APRS..

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Thu, 15 Feb 1996 23:01:29 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199602160401.XAA18592@newworld.bridge.net>
Rendered body type: text/plain

```
>The TIME received over the air will be a NEW FORMAT, or will be a NMEA
>format, (Currently undecided, comments?)  The time that will in hrs minutes
>AND seconds...   This is because we CAN get better than one minute accuracy
>at this, especially in the case were we are all listening to the same digi,
>which is usually the case in special events..
>
Most of the NMEA strings contain date and time. What I would say is that
any such string could be used, e.g. RMC or GGA from a stand alone
tracker. I think there is even one that only has time info that would be
perfect for transmitting from with Mac/WinAPRS. Also, I'd like a limit on
the amount of error the program will correct. Most computer clocks are
reasonably accurate, and if there is bogus data on the net (say more than
a few of minutes) I wouldn't want my clock reset, but maybe a warning
that tells me about the discrepancy would be nice. The program could put
a message in the message window saying 'Warning...invalid clock
syncronization data' or some such.

>(I like the idea of having it set so that it will only affect stations within
>a given radius of the sending station)
>
Rather than using distance, I would say it is more important to limit it
to at most a single digi...longer paths would add more potental to get
hung up on a busy channel.
>

Steve  KO4HD
```

---

357. Re: [APRSSIG:6801] Re: APRS time-syncing is Important

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 15 Feb 1996 22:07:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602160407.WAA26039@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Bob Bruninga sez:

Apologies for enclosing the entire message, but I feel it's pertinent.

> WB4APR REPLY COMMENT:   Since the on-air protocols only report to the
> minute, and errors less than one minute have no effect on my dead
> reckoning and loging, I would be happy with half minute accuracy...
> Here are my thoughts:
>
> PROBLEM:  Because of the way some TNC's have implemented the GPS timing,
> you can NOT tell if an on-air GGA report is in real time, or delayed by an
> indefinite time, (Days in some cases..  THe TNC just keeps beaconing the
> OLD GPS posit and time...)
>
> I suggest the following:
>
> * A user setup function says that you will accept over-the-air GPS timing
>   commands or not.  The defualt is YES
>
> * A station known to be in GPS sync can MANUALY activate a periodic
>   APRS-GPS-TIMESYNC packet.  This packet only contains the UTC DATE, HOUR
>   and MINUTE.  When it is time to be transmitted, it will be initiated
>   at the Start of the minute. (00 seconds).  As long as it is received
>   within say 15 seconds, it will be close enough for all my purposes with
>   dead reckoning etc...
>
> Remember that the time from when the PC initiates the packet, until it even
> gets transmitted is also ambiguous due to channel busy...  So I see
> no reason to try to do better than a minute.  On receive, I will probably
> add 5 seconds if heard direct, and 10 seconds if heard via a digi to make
> up for average delays.  Just a guess....

I think this is acceptable, although the scientist and engineer in me says
it's a work-around and not a real solution.  I think I'll lay down 'til THAT
feeling goes away :-)

Bob, if it's been thru more than about 2 digi's I'd dump it.

73, gerry
```

358. Re: [APRSSIG:6809] Time Sync for APRS..

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 15 Feb 1996 22:15:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602160415.WAA26163@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Works for me!

gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

359. Re: [APRSSIG:6774] RE: TEKK Radio

From: voyager@ve6eei.ampr.ab.ca (Evan E. Idler)
Date: Thu, 15 Feb 1996 22:01:04
To: aprssig@tapr.org
Cc: voyager@ve6eei.ampr.ab.ca
Message-ID: <voyager.14.0016053E@ve6eei.ampr.ab.ca>
Rendered body type: text/plain

```
In article  aprssig@tapr.org writes:
>From: aprssig@tapr.org
>Subject: [APRSSIG:6774] RE: TEKK Radio
>Subject: [APRSSIG:6774] RE: TEKK Radio


>The TEKK radio is 440 ONLY!  They do NOT have a 2m version.. I have asked..
>It is a VERY good radio, we have used them in balloons a lot..


>Keith

>Keith Sproul                              Ham Radio: WU2Z
>Student Housing Network Coordinator      ksproul@noc.rutgers.edu
>Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
>http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home

Hi there, There is another radio very similar to the  TEKK radio
Made By MAXON.  They make both a VHF and UHF radio. 2 and 5 watt
versions.

Both the VHF and UHF radios are capable of 9600 baud packet, and
with the addition of a switch are cabable of 4 channels.  (The
trim caps are also missing, but the board has spots for 4 pairs
of XTALS.)

The VHF radio is a DM-0510 (I can't remember for sure) and
the UHF radio is a DM-0530 (I know for sure, I use one.)

The radio's are a little larger than the TEKK radio's, but use
the same DB-9 style data connector for the power/data, and the
BNC antenna connector.

73
Evan

ve6eei
ve6eei@ve6eei.ampr.ab.ca
ve6eei@ve6eei.ampr.org
```

360. Re: [APRSSIG:6803] Re: APRS time-syncing is Important

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Fri, 16 Feb 1996 09:11:19 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9602160811.AA14190@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

```
I think it's simply a bad idea to try to sync time over AX.25.  It
really won't solve the problem at all on busy links.  When I send a
packet to my TNC to be transmitted, I have NO IDEA *when* it will
actually be transmitted.  On extremely busy channels, which we have
a lot of over here in Europe, it can sometimes be well over a minute
or more.  And that's just for the first hop of a multi-hop path.

Don't misunderstand.  I think it would be really cool to have on-the-air
time sync, but via packet radio as it exists today is NOT the way to do
it.  I don't object to having some functionality added to APRS/MacAPRS
as on quiet channels in some areas it would probably work quit well as
long as everyone understood that there can still be a very high error
in the time reported.

We should instead focus our efforts on stressing to everyone who runs
APRS the importance of keeping accurate time.  For example, those in the
U.S. can sync. up to WWV and those here in Europe can use the 77-KHz
time standard frequency and $10 radio-controlled clocks.  Unattended
stations which can't adjust their TNC/compute clocks every day or so
should find a way to make the TNC clocks more accurate or syncronized
with a time standards station -- but not on the air using shared-
channel/AX.25/CSMA!

I was trying to think of a way to encourage/force users to keep their
clocks accurate.  The S/W mod. idea is the best I could think of, but
I wouldn't call it a "time sync" function -- that's too misleading,
especially to new users who don't fully understand e.g. how packet works.
We need to think of a name so people don't forget that it's not a very
good way to sync up our clocks at all.

Meanwhile, we need to come up with a cheap radio-controlled clock that
works with the time standards stations and connects to your serial port
(perhaps with a clever way to share the port with TNC/GPS/weather stations).
Such devices are already on the market, but are rather expensive, esp.
in the U.S. (I hear).

73,

--Shannon, DL6SEU (AKA N7APC)
```

---

361. Re: [APRSSIG:6810] APRS TIME SYNC

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 16 Feb 1996 02:35:46
To: aprssig@tapr.org
Message-ID: <199602160838.CAA24419@foo.garply.com>
Rendered body type: text/plain

```
>  We have APRS folks out there who can't find their registration numbers,
>can't configure APRS75, haven't got a clue what parity to use and you want
>them to be able to reset MY APRS time clock to THEIR time? While you're
>reconfiguring your next APRS version Bob, please include a parameter called
>INCOMING CONFIGURATION:
>(Y)es, (N)o, (M)aybe, (H)ell NO, (O)nly if KE4EER says it's okay.
>
>73...Bob, WB2NGZ

NOW WHAT THE HELL DID I DO WRONG........
>
>
>
```

---

362. Conxall Connectors

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 16 Feb 1996 13:40:33 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested) (Receipt notification requested)
Message-ID: <0126031248951007*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

```
Hello,
     Can anyone on the list tell me where I might find the plastic type
     "Conxall" connectors. I need a 7-pin type to connect to a GPS
```

```
reciever.

Thanks,
Cardwell Smith
```

---

363. APRS net time

From: Bob Derderian <n2iph@cyberenet.net>
Date: Fri, 16 Feb 1996 08:58:33 -0500
To: aprssig@tapr.org
Message-ID: <31248D89.50C9@cyberenet.net>
Rendered body type: text/plain

```
Well, I am suprised! the Time sync topic seems to be very popular and
even dicussed rationally, maybe there is hope for this SIG yet!!

Having read the past 20 or so replies on the topic, I think there are
some good ideas here. I like Keith's version the best overall I think.

I would like to see the following parameters in the time-sync function
of aprs in whatever flavor you happen to be using:

1.)     Limit to one digi in path.
Any further away and the time data is too old to be useful. And in
keeping with the intent to sync local, specialized nets for events which
appears to be the most useful application of this function.

2.)     Only one designated time-server per area, possiblly easiest to
implement this by limiting to a aprs station with the computer online
24hr/day (maybe a WIDE or GATE or Wx station).

3.)     Default should be query-mode, i.e. the operator must manually
query the local time-server for sync data. (I also would not want my
clock being reset by some remote station). Option would be to enable a
once-per-day auto-sync mode to the local time server. Computer clocks
are accurate enough for our purposes to keep in reasonable sync for 24
hours at least. TNC clocks are probably not so accurate, but TNCs (most
of them I believe) have a time tweak function built in, why not use that
on stand alone stations? It requires setting the time agaiinst a known
standard and manually tweaking the fudge-factor to get the TNC clock to
keep good time.

4.)     All time sync should be in UTC, with adjustment made on the
local machine for time offset from the parameter already entered into
the configuration of aprs.


Glad to see everyone pulling together on this one, the time sync
function has some viable uses buthas the potential to be disruptive
 to the net and/or abused if not carefully implemented.

73...Bob
```

---

364. RE: [APRSSIG:6809] Time Sync for APRS..

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Fri, 16 Feb 1996 8:43:55 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960216084355.20803f28@exame2.dseg.ti.com>
Rendered body type: text/plain

```
Hi, Keith and the sig. Keith's comments re time sync from GPS and the
distribution thereof are the best I've heard so far in this thread. Go with
it, Keith!

    73 Claude
       K5DTN
```

---

365. Re: [APRSSIG:6818] Conxall Connectors

From: rawding <rawding@inetworld.net>
Date: Fri, 16 Feb 1996 07:39:15 +0000
To: aprssig@tapr.org
Message-ID: <312434A3.6D0D@inetworld.net>
Rendered body type: text/plain

```
Cardwell H Smith wrote:
>
>      Hello,
>      Can anyone on the list tell me where I might find the plastic type
>      "Conxall" connectors. I need a 7-pin type to connect to a GPS
>      reciever.
>
>      Thanks,
>      Cardwell Smith

You can order them from Conxall at 708-834-7504 but they will be
rather expensive.  You can get then cheaper from Electro Shield at
513-767-1054. I think they both have minimum orders.

Let me know what you find out and good luck.

-------------------------------------------------------------------
rawding@inetworld.net
N1OFZ@W1CDM.#SOCAL.CA

http://www.inetworld.net/~rawding
```

366. time

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 16 Feb 1996 10:57:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960216104033.10105A-100000@greatlakes>
Rendered body type: text/plain

```
We could use the format:        !APRS2 DD:HH:MM:SS

It wouldnt make any difference to me if we use the letter T instead of 2...

How we interpret it and when, is sort of up to the user....  Im leaning
towards implementing my setup something like this:

Accept on-air TIME either (D)irect only, 1,2,or n hops, or (N)one? [N] __

Send TIME  (D)aily at..., (O)n the hour, or (I)mmediately, or (N)one? [N] __
```

367. Re: [APRSSIG:6817] Re: APRS TIME SYNC

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 16 Feb 1996 10:28:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602161628.KAA01918@solar.cs.tamu.edu>
Rendered body type: text/plain

```
William Nolle sez:
>
>
> >  We have APRS folks out there who can't find their registration numbers,
> >can't configure APRS75, haven't got a clue what parity to use and you want
> >them to be able to reset MY APRS time clock to THEIR time? While you're
> >reconfiguring your next APRS version Bob, please include a parameter called
> >INCOMING CONFIGURATION:
> >(Y)es, (N)o, (M)aybe, (H)ell NO, (O)nly if KE4EER says it's okay.
> >
> >73...Bob, WB2NGZ
>
> NOW WHAT THE HELL DID I DO WRONG........

Probably nothing, but we're trying to invent something :-)))
```

368. APRS75

From: gwelte@northernnet.com (George A. Welte)
Date: Fri, 16 Feb 1996 10:37:42 -0600
To: aprssig@tapr.org
Message-ID: <v01530501ad4a0bdeafb5@[206.24.45.45]>
Rendered body type: text/plain

```
I Have APRS75 running with the U2000 and AEA232 TNC.  I'm operating the
system as a remote weather site at this time since I only have one Serial
Port that I can use for APRS.  In the set-up I go through and validate APRS
on Port 2 and get it up and running.  Then I go back and validate the
weather mode on port 2.

All I get on the screen is the blue symbol of a weather station plus when I
enter the "n"key I get the following screen:  NØWBU    000:00   MPH   F.
APRS is not reading the U2000 for some reason.

The weather station is putting out a string of information so I know it is
working.
```

Is there a better way of validating both the APRS and the WEATHER together
for a remote weather station when only one port can be utilized.

Any other clues from anyone - Your help is appreciated.

George A. Welte
Land of Paul Bunyan & Babe
1st City on the Mississippi
Bemidji, Minnesota 56601

---

369. Re: [APRSSIG:6809] Time Sync for APRS..

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
Date: Fri, 16 Feb 1996 10:11:50 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602161811.KAA07608@archimedes.vislab.navy.mil>
Rendered body type: text/plain

> (I like the idea of having it set so that it will only affect stations within
> a given radius of the sending station)

I like Keith's proposal as well, except for this. Out here in the desert our
digis are way high and about every 60 mi or so. If we could have the number
of digi hops be a factor rather than the distance, I think it would work better.

On the other hand (refuting myself) relaying the time info thru only *one*
digi out here can change the time in a *huge* radius!

73, jan
kc6uth

---

370. Re: [APRSSIG:6824] APRS75

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 16 Feb 1996 13:15:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960216131004.10105F-100000@greatlakes>
Rendered body type: text/plain

Im confused. To me, a "remote wx site" means ony a TNC, radio and a
U-2000. THere is no APRS at that site...

The only way that APRS will work with the Ultemeters is to have a
dedicated COM port for the instrument...

If you are saying that you disconnect the TNC, and only want to see your
own WX on your OWN screen, then I suppose a single port should work. Be
sure you are in data logger mode on the U-2000 and you must wait the
APRS-POSRATE time before an update will occur. Should default to 20
seconds I think... If im missing something, try me again...

On Fri, 16 Feb 1996, George A. Welte wrote:

> I Have APRS75 running with the U2000 and AEA232 TNC. I'm operating the
> system as a remote weather site at this time since I only have one Serial
> Port that I can use for APRS. In the set-up I go through and validate APRS
> on Port 2 and get it up and running. Then I go back and validate the
> weather mode on port 2.
>
> All I get on the screen is the blue symbol of a weather station plus when I
> enter the "n"key I get the following screen: N=D8WBU   000:00   MPH   F.
> APRS is not reading the U2000 for some reason.
>
> The weather station is putting out a string of information so I know it is
> working.
>
> Is there a better way of validating both the APRS and the WEATHER together
> for a remote weather station when only one port can be utilized.
>
> Any other clues from anyone - Your help is appreciated.
>
> George A. Welte
> Land of Paul Bunyan & Babe
> 1st City on the Mississippi
> Bemidji, Minnesota 56601
>
>
>

WB4APR REPLY COMMENT:

371. MIM Modules

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Fri, 16 Feb 1996 13:30:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9602161339.A27848-9100000@acme>
Rendered body type: text/plain

Any appliation information relating to the MIM module would be appreciated.

Would anyone care to share details relating to their own special applications?

How about specifics on various sensors (e.g., barometric & altimetric
pressure, voltage & current monitoring, etc.).

73s to all - de Joe W8RIK

---

372. As long as you are including options like the number of hops, here are a couple suggestions:

From: Simon Quellen Field <sfield@wpo.borland.com>
Date: Fri, 16 Feb 1996 10:21:44 -0800
To: bruninga@nadn.navy.mil, aprssig@tapr.org
Message-ID: <s1245a65.021@wpo.borland.com>
Rendered body type: text/plain

As long as you are including options like the number of hops, here are a couple suggestions:

1. Only accept times that are within N seconds of what I think the current time is.

2. Only accept times that are EARLIER than what I think the time is. That way, if I am
    accepting times on a busy channel or through digipeaters, I will accept the most direct
    an un-delayed time.

>>> Bob Bruninga <bruninga@nadn.navy.mil> 02/16/96 08:00am >>>
We could use the format: !APRS2 DD:HH:MM:SS

It wouldnt make any difference to me if we use the letter T instead of 2...

How we interpret it and when, is sort of up to the user.... Im leaning towards implementing my setup
something
like this:

Accept on-air TIME either (D)irect only, 1,2,or n hops, or (N)one? [N] __

Send TIME (D)aily at..., (O)n the hour, or (I)mmediately, or (N)one? [N] __

---

373. Re: [APRSSIG:6826] Re: APRS75

From: gwelte@northernnet.com (George A. Welte)
Date: Fri, 16 Feb 1996 15:48:56 -0600
To: aprssig@tapr.org
Message-ID: <v01530500ad4a56515a44@[206.24.45.45]>
Rendered body type: text/plain

Bob--Thanks for your reply to my question- I know that a remote site
only uses
the radio, tnc and a U-2000. I'm refering to the initial set up of the TNc
that will be used at the remote site. In other words the configuration of
the commands and also do both
the APRS validation and the Wx validation have to be entered in to the
remote TNC. If so
how can this be done if only one port is available? After I get the remote
set up I monitor it with a separate radio, tnc & monitor. Iknow this is
probably confusing and I've tried lots of variations but not the right one
- I guess.
****

>Im confused. To me, a "remote wx site" means ony a TNC, radio and a
>U-2000. THere is no APRS at that site...
>
>The only way that APRS will work with the Ultemeters is to have a
>dedicated COM port for the instrument...
>
>If you are saying that you disconnect the TNC, and only want to see your
>own WX on your OWN screen, then I suppose a single port should work. Be
>sure you are in data logger mode on the U-2000 and you must wait the
>APRS-POSRATE time before an update will occur. Should default to 20

```
>seconds I think...  If im missing something, try me again...
>
>On Fri, 16 Feb 1996, George A. Welte wrote:
>
>> I Have APRS75 running with the U2000 and AEA232 TNC.  I'm operating the
>> system as a remote weather site at this time since I only have one Serial
>> Port that I can use for APRS.  In the set-up I go through and validate APRS
>> on Port 2 and get it up and running.  Then I go back and validate the
>> weather mode on port 2.
>>
>> All I get on the screen is the blue symbol of a weather station plus when I
>> enter the "n"key I get the following screen:  N=D8WBU    000:00   MPH   F.
>> APRS is not reading the U2000 for some reason.
>>
>> The weather station is putting out a string of information so I know it is
>> working.
>>
>> Is there a better way of validating both the APRS and the WEATHER together
>> for a remote weather station when only one port can be utilized.
>>
>> Any other clues from anyone  -  Your help is appreciated.
>>
>> George A. Welte
>> Land of Paul Bunyan & Babe
>> 1st City on the Mississippi
>> Bemidji, Minnesota 56601
>>
>>
>>
>
>WB4APR REPLY COMMENT:

George A. Welte
Land of Paul Bunyan & Babe
1st City on the Mississippi
Bemidji, Minnesota 56601
```

---

374. Time sync stinks heres why!

From: KD4EMI@aol.com
Date: Fri, 16 Feb 1996 18:17:43 -0500
To: aprssig@tapr.org
Message-ID: <960216181743_424466921@emout07.mail.aol.com>
Rendered body type: text/plain

```
I have been following with great interest all the time sync stuff.

Several great points have been made.  The issue originated by a
user who, during an event had a problem.

Solution #1
Write software

Solution #2
Operators are responsible for ensureing that their radios are on freq,
and operating properly.
Here's a novel idea....set your clocks if needed !!
Whats the big deal!   Too much effort and bandwith on this guys!!
Just insure that your system is operating properly!

I tend to agree with the guy who wrote that people cant even set their
digi paths correctly, no thanks guys, I'll set my own clock !

Mike   KD4EMI@AOL.COM
Flames always make me smile !
```

---

375. Re: [APRSSIG:6816] Re: APRS time-syncing is Important

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 16 Feb 1996 16:32:59 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "S.Miller@RUS.Uni-Stuttgart.DE" <S.Miller@RUS.Uni-Stuttgart.DE> (Return requested)
Message-ID: <04AF33125223B017*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Ummmmmm....  Uhhh... Shannon's right.  I check all my computer clocks
     once a week or more often (usually) against WWV, and make sure that
     they're within a second or two or three or five.  I think that it's
     gotta be the operator's responsibility to make sure his equipment is
     on time.
```

However, it would be really cool to have an automated time code system. There's the dial up service to WWV, to get a time tick over the phone. Anyone with a modem can do that, and that could be part of the APRS code. Or, use the GPS receiver's time code output. Maybe there's some soul out there who would want to take one of the Motorola receivers on a chip, build a neat little 10MHz receiver, receive the time code generated by WWV, and serial-output it to our computers. That would be nice. There are commercial boards available for the PC that do this, but are expensive.

I for one, would not prefer to use some one else's time code transmitted over the air to base my whole computer's operating system. How would I know it was right? Unless, of course, it was KE4EER's. %^)

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6816] Re: APRS time-syncing is Important
Author: S.Miller@RUS.Uni-Stuttgart.DE at Internet
Date: 2/16/96 12:27 AM

I think it's simply a bad idea to try to sync time over AX.25. It really won't solve the problem at all on busy links. When I send a packet to my TNC to be transmitted, I have NO IDEA *when* it will actually be transmitted. On extremely busy channels, which we have a lot of over here in Europe, it can sometimes be well over a minute or more. And that's just for the first hop of a multi-hop path.

Don't misunderstand. I think it would be really cool to have on-the-air time sync, but via packet radio as it exists today is NOT the way to do it. I don't object to having some functionality added to APRS/MacAPRS as on quiet channels in some areas it would probably work quit well as long as everyone understood that there can still be a very high error in the time reported.

We should instead focus our efforts on stressing to everyone who runs APRS the importance of keeping accurate time. For example, those in the U.S. can sync. up to WWV and those here in Europe can use the 77-KHz time standard frequency and $10 radio-controlled clocks. Unattended stations which can't adjust their TNC/compute clocks every day or so should find a way to make the TNC clocks more accurate or syncronized with a time standards station -- but not on the air using shared- channel/AX.25/CSMA!

I was trying to think of a way to encourage/force users to keep their clocks accurate. The S/W mod. idea is the best I could think of, but I wouldn't call it a "time sync" function -- that's too misleading, especially to new users who don't fully understand e.g. how packet works. We need to think of a name so people don't forget that it's not a very good way to sync up our clocks at all.

Meanwhile, we need to come up with a cheap radio-controlled clock that works with the time standards stations and connects to your serial port (perhaps with a clever way to share the port with TNC/GPS/weather stations). Such devices are already on the market, but are rather expensive, esp. in the U.S. (I hear).

73,

--Shannon, DL6SEU (AKA N7APC)

---

376. Re: [APRSSIG:6830] Time sync stinks heres why!

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 16 Feb 1996 19:23:11
To: aprssig@tapr.org
Message-ID: <199602170125.TAA32756@foo.garply.com>
Rendered body type: text/plain

What an EGO, you don't need to tell everyone your so great, and also that you are capable of setting a clock!. Did you ecer take a good long look at EMI and what it stands for, if you do you will see what i'm talking about hi..

Bill KE4EER

>I have been following with great interest all the time sync stuff.
>
>Several great points have been made. The issue originated by a

>user who, during an event had a problem.
>
>Solution #1
>Write software
>
>Solution #2
>Operators are responsible for ensureing that their radios are on freq,
>and operating properly.
>Here's a novel idea....set your clocks if needed !!
>Whats the big deal!   Too much effort and bandwith on this guys!!
>Just insure that your system is operating properly!
>
>I tend to agree with the guy who wrote that people cant even set their
>digi paths correctly, no thanks guys, I'll set my own clock !
>
>Mike   KD4EMI@AOL.COM
>Flames always make me smile !
>
>

377. Re: [APRSSIG:6829] Re: APRS75

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 16 Feb 1996 21:14:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960216210555.17463A@greatlakes>
Rendered body type: text/plain

On Fri, 16 Feb 1996, George A. Welte wrote:

> I know that a remote site only uses the radio, tnc and a U-2000. I'm
> refering to the initial set up of the TNc that will be used at the
> remote site. In other words the configuration of the commands and also
> do both the APRS validation and the Wx validation have to be entered in
> to the remote TNC.

WB4APR REPLY COMMENT: Ah ha!. APRS has nothing to do with a remote
site. You set up that TNC according to the TNC instructions and the
suggestions in my WX.txt. Use a DUMB terminal program. Do NOT use APRS
since APRS will change the TNC settings that it likes, NOT what is needed
at the remote site. WX validation only works when you plug in a
Ultimeter to APRS...

378. Re: [APRSSIG:6743] Tracker Icon

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 16 Feb 1996 21:26:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960216212532.8720A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Tue, 13 Feb 1996, William Nolle wrote:

> Bib i was just checking the SYMBOL.TXT and if there's no room or whatever
> for a pickup, could the BUS be changed to a pickup (After all how many
> people drive buses anyway) Hi...I would like to see an SSID-2 to be a pickup.
>

You forget that a bus may be the likely spot for a stand alone tracker in
a special event.

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

379. MacARS 2.4.0

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 16 Feb 96 21:35:19 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824524519.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS 2.4.0 is now up on the servers...

        msproul.rutgers.edu   (also called aprs.rutgers.edu)

        ftp.tapr.org

This version HAS been long in coming.. But it has a lot of new stuff in it.

        * MAPS BETTER MAPS MORE MAPS ETC...

MacAPRS now supports polygon filled maps. A POLYGON feature is like a lake or city, that is filled in with COLOR instead of just a line around the object.
The NICE thing about this is that the NEW map formats are 100% backwards compatible, and 100% compatible with WinAPRS
If you put a NEW map into an OLDER version of MacAPRS (or WinAPRS) you will simply get the line AROUND the object. In the newer versions, you will get the object filled in..
Cities (populated places) are now filled in with YELLOW..
Lakes are filled in with DARK BLUE
Vegetation (Parks, etc) are filled in with GREEN
..and I am working on lots more stuff.
This is mainly due to date with more info coming from the DCW (Digital Chart of the World) CDs...
Check out the Web Pages with the new maps..!!

* LABEL RANGE
  In the past, MacAPRS has totally ignored the label RANGE.
  Now, the labels in Maps behave just like on the DOS version.
  i.e. they show up when they are supposed to.

* You can now PRINT from any of the LIST windows
  (Before you could ONLY print from the MAP window)

* All of the LIST windows have been re-done and are more consistent
  (There are couple of cosmetic problems, ignore them)

* The first pass at the TIME SYNC (Manual Sending) is implemented
  It DOES send the time over the air, but nothing gets done with it.
  (If you haven't been reading the SIG in the last few days, ignore this)

* You can now have up to 64 sub-directories in the MAPS folder.
  The PREVIOUS limit was 32..
  Yes, somebody exceeded it, Right DAVE :-}

* You can SORT the messages in the MESSAGE window by clicking on the COLUMN you want to sort by..
  The DEFAULT (obviously) is sorted by DATE/TIME received.
  But you can now sort by WHO FROM, WHO TO, Message, and of course Date/Time Received.

* The WHEN list is much different, it now has a bar-graph instead of just a list of numbers.

* The DIM-OUT time-out value will cause stations that have NOT been seen in the specified time to show up in ITALICS in the STATION LIST.
  The DEFAULT values are to TIME-OUT in 24 hours, and DIM-OUT in 18 hours. If a station appears in ITALICS in the STATION list, it will disappear 'soon'.. If you don't like the ITALICS, Just leave the DIM-OUT value at zero.

* MAP LIST
  Due to the MENU limitation in WINDOZE (you can only see as many menu items as will fit on the screen WITHOUT scrolling), we added a WINDOW that shows all of the available maps, and other info about them.. You can double-click on any one of these and it will bring that map up in a new window..

* Automatic handling of PC-APRS Maps.
  In the past, if you wanted to use maps from the PC/DOS version of APRS, you had to CONVERT them, using the CONVERT command under the FILE menu.
  NOW, you can simply throw the maps into the MAPS directory and MacAPRS will read them directly.. no conversion needed..

* Weather Display
  If you have a Peet Bros weather station, there has been a couple additions to the current weather display, including hi/lo times.

** Memory Leaks
  There were a couple of problems that caused the program to chew up memory as you used it, especially if you loaded/reloaded lots of different maps..

Keith

PS: See, we haven't just been doing WinAPRS, in fact, I don't touch the
Windoze stuff.. Mark does all of that..

```
Keith Sproul                              Ham Radio: WU2Z
Student Housing Network Coordinator       ksproul@noc.rutgers.edu
Rutgers University Computing Services     908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/       908 821-4828 Home
```

---

380. One Last TIME

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 16 Feb 1996 21:43:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960216213437.17463C-100000@greatlakes>
Rendered body type: text/plain

Keith and I will work out the details. No one's clock will be adjusted
unless he authorizes it.

For the future, GPS IS TIME. W3IWI Tom CLark has been excited about the
fantastic potential for near microsecond (I dont know exactly, I may be
off by orders of magnitude). But even the cehapest Garmin OEM cards now
come with GPS time pulses STANDARD!

Review past articles about coherent CW and seeing signals N dB below the
noise! In my opinion, the avid experimenter will certainly have a
permanent GPS receiver in his shack for precise time. Imagine doing EME
with 100 watts and a beam (and precise time to drive the DSP!)

I have several of the 8 channel Garmin boards on order. If I like them,
we might be able to make a mass purchase and make them available for
about $149...

Having your own GPS is the ONLY real way to get PRECISE time over the air.
(for around a hundred bucks...?)

---

381. Re: [APRSSIG:6832] Re: Time sync stinks heres why!

From: KD4EMI@aol.com
Date: Fri, 16 Feb 1996 22:59:26 -0500
To: aprssig@tapr.org
Message-ID: <960216225924_424660805@mail06.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-02-16 21:00:54 EST, you write:

```
>Subj:  [APRSSIG:6832] Re: Time sync stinks heres why!
>Date:  96-02-16 21:00:54 EST
>From:  ke4eer@airnet.net (William Nolle)
>Sender:        aprssig@tapr.org
>Reply-to:      aprssig@tapr.org
>To:    aprssig@tapr.org
>
>What an EGO, you don't need to tell everyone your so great, and also that
>you are capable of setting a clock!. Did you ecer take a good long look at
>EMI and what it stands for, if you do you will see what i'm talking about
>hi..
>
>Bill KE4EER
>-------------------
```

And you wonder why people single you out for flames...geeez...
Mike   KD4EMI

---

382. Re: [APRSSIG:6834] Re: Tracker Icon

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 16 Feb 1996 22:13:56
To: aprssig@tapr.org
Message-ID: <199602170416.WAA30121@foo.garply.com>
Rendered body type: text/plain

Well this looks like it's all in for not since Bob doesn't seam to want to address
this request anyway Hi. The question was very simple how many users use
busses or Helicopters versus pickups, i think that will speak for itself. I would
still like to see one for a pickup in any case!!..

Bill KE4EER

>On Tue, 13 Feb 1996, William Nolle wrote:

>
>> Bib i was just checking the SYMBOL.TXT and if there's no room or whatever
>> for a pickup, could the BUS be changed to a pickup (After all how many
>> people drive buses anyway) Hi...I would like to see an SSID-2 to be a pickup.
>>
>
>You forget that a bus may be the likely spot for a stand alone tracker in
>a special event.
>
>Richard Amirault   N1JDU   Boston, Massachusetts USA
>amirault@tiac.net   "Go Fly A Kite"
>
>

---

383. Re: [APRSSIG:6822] time

From: rwf <rwf@mindspring.com>
Date: Fri, 16 Feb 1996 23:34:36 -0500
To: aprssig@tapr.org
Message-ID: <199602170434.XAA12408@borg.mindspring.com>
Rendered body type: text/plain

At 10:00 AM 2/16/96 -0600, WB4APR wrote:
>We could use the format: !APRS2 DD:HH:MM:SS
>
>It wouldnt make any difference to me if we use the letter T instead of 2...
>

No. Don't use APRST. We already have APRSM and APRSW. We need to save the T
for the TI-99/4A version :).

:)

Ralph N4NEQ

---

384. APRS75 'BUG'

From: Tony Flusche <76357.176@compuserve.com>
Date: 16 Feb 96 23:57:51 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <960217045751_76357.176_FHR25-1@CompuServe.COM>
Rendered body type: text/plain

Hi. Every time I try the FILE DOS command APRS crashes with:
Illegal function call line 0 of APRSW 2205:538D
Hit any key to return to system.
Running on a Toshiba T3100 laptop 640k 286 DOS 6.22 73 Tony AB6BR

---

385. Re: [APRSSIG:6837] Re: Time sync stinks heres why!

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 16 Feb 1996 23:16:36
To: aprssig@tapr.org
Message-ID: <199602170519.XAA02256@foo.garply.com>
Rendered body type: text/plain

It don't realy bother me if they do singlle me out for flames, i can take it.
But kindly in the future don't associate my name with a message i didn't
have anything to do with (Thank you in advance)....

Bill KE4EER

>
>And you wonder why people single you out for flames...geeez...
>Mike   KD4EMI
>
>

---

386. Time Sync Proposal

From: Mike Musick <71301.3106@compuserve.com>
Date: 17 Feb 96 01:15:27 EST
To: <aprssig@tapr.org>
Message-ID: <960217061527_71301.3106_FHJ27-2@CompuServe.COM>
Rendered body type: text/plain

I agree with the request for a remote time sync protocol. It would be a
wonderful luxury for everybody in a time-sensitive event to have a GPS for
accurate timekeeping whether they were mobile or not, but the key word here is
luxury. Time sync is critical for local events, and when you cannot depend on
100% availability of GPS time standard at every station, *someone* has to set
that standard.

Also, an application that I have in mind for an APRS network is an automated RDF system, and the ability to remote time sync is important to me; I would like to avoid the extra cost of putting GPS's at fixed sites just for timekeeping purposes.

Sloppiness in timekeeping is an authentic problem, and provision for a master/slave relationship is certainly consistent with professional-grade event communications management.

What I would like to see, adding to or amending the suggestions so far.

1) A tiered "enable" system: [N]one; [O]nce only, on next sync; [A]lways sync to master; [M]aster station.

2) A specific "sync to" station, in the normal alias or callsign formats. I think allowing just any station throwing out a time sync beacon to reset your clock is courting problems.

3) The digi hop limit is important, and I think should not only be user specifiable, but also limited to a max of two.

4) I know it's too much to ask, but I wish there was a way to prevent retries on clock sync packets. If you didn't hear it the first time, tough, 'cause a retry will have the wrong time.

The argument voiced about the problems of AX.25 traffic getting in the way is legit. However, it's my feeling that if the APRS event is critical enough to make sure that everyone's sundials are all pointing north, then it's critical enough to find a frequency with less contention.

Generally, I think everyone has to realize that time sync'ing this way is less than perfect - we're not going to get nanosecond precisions here. But with the way I've seen PC clocks drift (and their owners sometimes completely oblivious to that fact), there's got to be at least the provision for a mechanism which gets everyone in an event support situation roughly timed on the same minute.
  ...mm

---

387. Re: [APRSSIG:6835] MacARS 2.4.0

From: rwf <rwf@mindspring.com>
Date: Sat, 17 Feb 1996 07:57:51 -0500
To: aprssig@tapr.org
Message-ID: <199602171257.HAA01355@borg.mindspring.com>
Rendered body type: text/plain

At 08:48 PM 2/16/96 -0600, K Sproul wrote:
>
>MacAPRS 2.4.0 is now up on the servers...

snip

>This version HAS been long in coming.. But it has a lot of new stuff in it.

snip

```
>       * LABEL RANGE
>         In the past, MacAPRS has totally ignored the label RANGE.
>         Now, the labels in Maps behave just like on the DOS version.
>         i.e. they show up when they are supposed to.
```

I am glad to see this! Does WimAPRS do this? I am still on the road with the non-Windows 95 Laptop.

snip

>   * Automatic handling of PC-APRS Maps.

I know Bob W. will appreciate this!

---

388. Re: [APRSSIG:6836] One Last TIME

From: Shannon Miller <smiller@SSD.intel.com>
Date: Sat, 17 Feb 1996 11:44:51 +0100
To: aprssig@tapr.org
Message-ID: <3125B1A3.7BFB0778@SSD.intel.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Keith and I will work out the details.  No one's clock will be adjusted
> unless he authorizes it.
>
> For the future, GPS IS TIME.  W3IWI Tom CLark has been excited about the
...

Right, so hopefully it isn't difficult at all for all GPS owners
to keep the right time (perhaps they need a software hack still to
parse the time string from the GPS unit over the serial line and set
the computer clock and TNC clock accordingly).

I like the idea of limiting the number of digis for time announcements
on the air.  Perhaps not even allow *any* digis.  Or maybe that's too
restrictive.

Also, the announcements should of course be UI vs. connected frames.
No retries for those who miss a time announcement!

Perhaps RFC-957, RFC-1769, RFC-778, RFC-1305 and other RFCs for time
sync. on the Internet could provide more ideas here for making
something work on the air that's good enough.  As long as we never
call it "precise sychronization!"  ;-)

--Shannon, DL6SEU

References:  http://www.eecis.udel.edu/~mills/ntp/refclock.html
             http://www.cnde.iastate.edu/time.html
             http://www.bldrdoc.gov/doc-tour/doctour.html
             http://www.cis.ohio-state.edu/htbin/rfc/rfc778.html
             http://www.cis.ohio-state.edu/htbin/rfc/rfc1769.html
             http://www.cis.ohio-state.edu/htbin/rfc/rfc1305.html
             http://www.cis.ohio-state.edu/htbin/rfc/rfc957.html
```

---

389. U-2000 support in WinAPRS

From: schiers@ibm.net (Robert Schiers)
Date: Sat, 17 Feb 96 13:26:17
To: aprssig@tapr.org
Message-ID: <199602171333.NAA71226@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
Just a brief note to those of you who have been unable to
get the DOS version of APRS to work with your Peet Bros.
U-2000.

The beta WinAPRS (.2.4) code released yesterday works
perfectly with the U-2000. The beta code currently only
supports serial I/O under Win95 or NT so Win3.1/Win32s will
not cut it yet. Mark is working hard on it.

If Wx is your primary interest and you have a U-2000, it
is well worth looking at even the beta code, if you have
Win95 or Win NT.  (This version also supports CDROM callbook lookup of
several of the common CD-ROMs as well)

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

---

390. Re: [APRSSIG:6838] Re: Tracker Icon

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 17 Feb 1996 09:24:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960217092144.18220C-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 16 Feb 1996, William Nolle wrote:

> Well this looks like it's all in for not since Bob doesn't seam to want
> to address this request anyway Hi.
> The question was very simple how many users use
> busses or Helicopters versus pickups, i think that will speak for itself.

WB4APR REPLY COMMENT:   SOrry Bill.  IT IS BEING ADDRESSED and has been
the subject of PRIVATE messges between Sprouls and myself.
```

391. Re: [APRSSIG:6840] APRS75 'BUG'

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 17 Feb 1996 09:27:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960217092453.18220D-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 16 Feb 1996, Tony Flusche wrote:

> Hi. Every time I try the FILE DOS command APRS crashes with:
> Illegal function call line 0 of APRSW 2205:538D
> Hit any key to return to system.
> Running on a Toshiba T3100 laptop 640k 286 DOS 6.22 73 Tony AB6BR

WB4APR REPLY COMMENT:  Are you runing in F7 high-res labels mode?
THat is the only thing I can think of that is a function that may not be
supported on all laptops.   2) Mine does that if i dont have neough
memory.  Mine has 558k and works fine.  My other PC with less, will
crash.  Ill look its memory up next time I fire it up..
```

392. Maps

From: ke4eer@AIRnet.net (William Nolle)
Date: Sat, 17 Feb 1996 08:29:29
To: aprssig@tapr.org
Message-ID: <199602171431.IAA13305@foo.garply.com>
Rendered body type: text/plain

```
For those users in Madison Wisconson, i have made a grid of 1.5 mile (3 mile)
maps (15 in all) of Madison WI. there where several users wanting these maps
and i forgot who they where!. These where about the hardest maps i ever
made due to the many,many bugs in the software. It looks to me since the
basis of APRS is MAPS that there would be someone that would take the ball
and improve the mapmaking software at sometime. There was one map in the
grid (1.5 mile) that after building the map and was in the chaining process
just quit and locked up my machine, yet would run all the way trough at 1.4
miles, now i know it's not a memory problem!. Anyway i will post the maps on
Tapr as MADISON.ZIP you will have to add them to your own maplist.

Bill KE4EER
ke4eer@AIRnet.net
```

393. Re: [APRSSIG:6819] APRS net time

From: quarry@q.continuum.net (Chip)
Date: Sat, 17 Feb 1996 10:05:04 -0500
To: aprssig@tapr.org
Message-ID: <v01530500ad4b9e032201@[199.0.52.95]>
Rendered body type: text/plain

```
At 8:18 2/16/96, Bob Derderian wrote:

> 4.)     All time sync should be in UTC, with adjustment made on the
> local machine for time offset from the parameter already entered into
> the configuration of aprs.

One thing that might be considered is to have the recieving computer
process the information a bit.  What I am suggesting is that the computer
see how far off it's time is and make a correction factor that can be
used to keep the time in synch without constant remote adjustments.  This
will need a little consistently.  This idea will work especially well on
the computer taking a direct GPS time correction.  It will also be
reasonable to use on a computer which gets it's time correction from a
single APRS station.

Just an idea.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net  (alternate: emmet2@aol.com)
    -   FidoNet to: Chip@1:320/301.0 or .1
my home page:     http://q.continuum.net/~quarry/
TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

394. Re: [APRSSIG:6830] Time sync stinks heres why!

From: quarry@q.continuum.net (Chip)
Date: Sat, 17 Feb 1996 10:19:08 -0500
To: aprssig@tapr.org
Message-ID: <v01530501ad4b9f54712b@[199.0.52.96]>

Rendered body type: text/plain

At 17:21 2/16/96, KD4EMI@aol.com wrote:

> Solution #2
> Operators are responsible for ensureing that their radios are on freq,
> and operating properly.
> Here's a novel idea....set your clocks if needed !!
> Whats the big deal!   Too much effort and bandwith on this guys!!
> Just insure that your system is operating properly!

I think it would be useful, especially for keeping computers in synch
during a special event (ie a race where time is critical).

Besides, all suggestions have been that it is an optional feature to
utilize the time data or ignore it.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
    -   FidoNet to: Chip@1:320/301.0 or .1
my home page: http://q.continuum.net/~quarry/
TRAUG home page: http://q.continuum.net/~quarry/TRAUG.html

---

395. WinAPRS for NT 3.51, Where???

From: "William M. McClatchey" <billmcc@atlanta.com>
Date: Sat, 17 Feb 1996 11:00:30 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960217160030.00307d28@pop.atlanta.com>
Rendered body type: text/plain

Where can the current beta of WinAPRS be donwloaded?

Is it generally available?

What is the anticipated release date of the commercial product?

I want to use it on my home network using Win NT 3.51 and the DSP2232 AEA TNC.

William M. McClatchey, MD FACP FACR
The Piedmont Clinic
35 Collier Road
Suite 775
Atlanta, GA 30367

404-352-4427(voice) 404-815-0997(fax)
InterNet: billmcc@atlanta.com CIS: 70554,21
Amateur Radio Station KK4C

"Only if you know enough, can you hope to do enough."

---

396. APRS Kam+ problem update

From: Grampyruss@aol.com
Date: Sat, 17 Feb 1996 13:15:17 -0500
To: aprssig@tapr.org
Message-ID: <960217131515_424952452@emout04.mail.aol.com>
Rendered body type: text/plain

Bob,

I sent you an earlier Email regarding the problem I was
having running your share ware APRS program. I finally
found out that there were two basic problems as shown
below. Problem #1 was avoided by allowing the Windows
program to load up and then exiting to DOS and creating
a BAT file that opens and runs APRS from DOS only.

Problem #2 was found to be caused by the KaGold software
that leaves the program in "HOST" mode as described in
the KaGold software manual, pg 99 which is described
below.

Accessing the TNC from the TERMINAL application shows
COM PORT 2 which is used for my modem.
COM PORT 1 which is used for the TNC shows no setting
for the baud rate and selecting baud rate 4,800 cannot
be "saved as" unless a directory/file/ext is entered

which I would have to assume would have to become part of the APRS start up routine. However, not being a software Guru, I am not certain if their is still a conflict with the KaGold software program as it does it's exit procedure or if I choose the "terminal" exit mode In KaGold what that involves in the start up program for that program. Before I call Interflex to see if I could resolve this problem I thought I would ask your advice and thoughts on the subject. I am sure that there will be other hams running KaGold that will eventually learn about APRS and run into the same problem.

Thanks, Grampyruss@aol.com

Problem #1

```
386MAX Version 7.01

An application has violated system integrity:

A Priveleged operation exception at 0070:06F4 has occurred

MM> A progrm has attempted to use system resources im-
properly, or to use non-sharable resources already in
use. The 286/486 processor has reported this event to us
so we may assist you in diagnosing the problem.

Temporarily remove one or more of your device drivers and/
or resident programs to find the program in conflict with
those resources. use 386UTIL /D  /M to identify device
drivers and resident programs. For reference, the last
last program to load is

C:WINDOWS\SYSTEM\WIN386.EXE

If a specific vendor's program can be removed to prevent
this conflict, please contact that vendor. Qualities
Technical Support is ready to work with you and the vendor
to resolve this problem.

MM> Press any key to reboot the system
```

Problem #2

KaGold Manual page 99

TNC Mode on Exit is either HOST or Command mode. Use HOST mode UNLESS YOU PLAN TO USE OTHER PRGRAMS. If you run some other modem type program, you can always "pop" the TNC out of HOST mode (if applicable) as described by the TNC supplier. Typically, this means sending three Control C characters to an AEA tnc or FEND Q FEND (Alt-192) to a Kantronics tnc.

==

Note: If you elect to exit in CMD mode, the contents of the shutdown.tnc are sent, followed by the contents of HOST2CMD.TNC file. This is important to remember, and a good way to set special parameters when existing (I think this word should be "exiting") in CMD mode.

---

397. Re: [APRSSIG:6836] One Last TIME

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 17 Feb 1996 13:06:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602171906.NAA15915@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

>
> For the future, GPS IS TIME. W3IWI Tom CLark has been excited about the
> fantastic potential for near microsecond (I dont know exactly, I may be
> off by orders of magnitude). But even the cehapest Garmin OEM cards now
> come with GPS time pulses STANDARD!

Make that 50 ns accuracies

> Having your own GPS is the ONLY real way to get PRECISE time over the air.
> (for around a hundred bucks...?)

Indeed.

gerry

---

398. Re: [APRSSIG:6843] Re: MacARS 2.4.0

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 17 Feb 96 14:17:47 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824584667.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Of course WinAPRS will do this... I am not sure if it is in 0.2.4 or not, but it will definately be in the next release..

In fact, 2.4.0 didn't do it as well as it should, and now 2.4.1 is up on the servers...

Keith

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

399. Re: [APRSSIG:6851] WinAPRS for NT 3.51, Where???

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 17 Feb 96 14:44:19 EST
To: aprssig@tapr.org
Cc: billmcc@atlanta.com
Message-ID: <CMM-RU.1.4.824586259.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The CURRENT release of WinAPRS is on   aprs.rutgers.edu and will be on TAPR before the end of the day today...

If you go read the original announcments (up on the Web)

http://aprs.rutgers.edu/APRS/

It is schedlued for version 1.0 at Dayton 1996..

Keith

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

400. Davis WX station

From: KSwaggart@aol.com
Date: Sat, 17 Feb 1996 20:48:03 -0500
To: aprssig@tapr.org
Message-ID: <960217204802_224776494@emout06.mail.aol.com>
Rendered body type: text/plain

A few weeks ago I recall some messages regarding the output coding from the Davis weather station. If anyone has the conversions I would appreciate if they would pass them along to me. Intent is to build a little program to covert the Davis output into an APRS readable wx report format using a spare 286 PC.

Tnx es 73,
Ken, W7KKE
kswaggart@aol.com

---

401. Re: Automobile icon MacAPRS

From: "Jerry" <jerdptro@xnet.com>
Date: Sat, 17 Feb 1996 20:27:26 +0000
To: aprssig@tapr.org
Message-ID: <199602180226.UAA17277@flood.xnet.com>
Rendered body type: text/plain

Howdy from 9 land,
I am running Kam+ in mobile with Garmin45. I am running as a -9
which shows up on DOS aprs as an auto. On MacAprs I have to insert
{>} into the btext area in order for mac to recognized the car icon.

My question. If I include the {>} in the btext area, it won't show
on the screen until I beacon. Has anyone put the {>} into the LT
(locate text) buffer with any success.

I am gg to try, but was curious of other who run aprs mobile with
kam+ wanting to display auto icon on the mac. This is the only way
the auto tracker feature works.

Thanks,
Jerry
N9VHW
2mtr<>30mtr Chicagoland Gate
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

---

402. WinAprs

From: theojkat@voicenet.com (Ted Katz)
Date: Sun, 18 Feb 1996 03:12:05 GMT
To: aprssig@tapr.org
Message-ID: <312697dd.2527045@mail.voicenet.com>
Rendered body type: text/plain

I am running Winaprs 2.2 on win95 and NT 351, The TNC is a PK900.

I can recieve info and the map show a call and object, but no
transmit??
If I switch to aprs74 that is shutdown Winaprs and the run aprs (dos).
APRS runs as expected.
The only mods I made to the .cfg was my call and position. Is there a
ascii file that I can get at that contains the TNC setup?
Ted N3OWM

---

403. Low cost GPS receivers.

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sat, 17 Feb 1996 21:37:45 -0600
To: aprssig@tapr.org
Message-ID: <9602172137.AA45061@oscar.telalink.net>
Rendered body type: text/plain

I am looking for a low cost GPS receiver for a standalone tracker I am putting
together. I have a low cost transmitter and am considering the MIM module or a
used KPC-3. I saw some mention of $100 GPS receivers in a message. I don't
need a display just serial output and an antenna.

TIA

Bruce, KQ4TV

---

404. Re: [APRSSIG:6857] Re: Automobile icon MacAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 17 Feb 96 22:58:05 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824615885.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> On MacAprs I have to insert {>} into the btext area in order for
> mac to recognized the car icon.

Jerry...

You need to go into the GPS SETTINGS and set the SSID icons to the DEFAULT..

Chances are that you have the SSID -9 set to something else, possibly
nothing..

Keith..

```
Keith Sproul                              Ham Radio: WU2Z
Student Housing Network Coordinator       ksproul@noc.rutgers.edu
Rutgers University Computing Services     908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/       908 821-4828 Home
```

---

405. Re: [APRSSIG:6670] Re: Tiny S

From: RICKLUTZ@aol.com
Date: Sun, 18 Feb 1996 00:11:40 -0500
To: aprssig@tapr.org
Message-ID: <960218001139_325431260@emout06.mail.aol.com>
Rendered body type: text/plain

```
unfortunately one can not shell out prperly from win95 i keep getting out of
mem errors so i guess this will not work at least for now
```

---

406. Files on TAPR

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 18 Feb 96 0:12:55 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824620375.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
I have done some clean-up on at the TAPR ftp site..

I moved the following:

        PC maps into the folder  PCMaps

        DOS utilities into the folder    DOSMisc

        the MacGPS programs into the folder    MacGPS

I have also deleted some of the OLDER versions of PC APRS..

There are SEVERAL things up there that I don't know what is..

If you have put stuff up there, or if you do so in the future, PLEASE let me
know what it is by direct e-mail, NOT via the SIG..

Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

407. Re: [APRSSIG:6861] Re: Tiny S

From: jleonard@tbcnet.com (John B. Leonard)
Date: Sun, 18 Feb 1996 07:18:36 -0600
To: aprssig@tapr.org
Message-ID: <199602181318.HAA29732@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Don't worry about the Shell in Win95

While in APRS, hit ALT-ESC, which will minimize the APRS program.  Then
start your packet program.  When you're finished, click back on APRS.


>unfortunately one can not shell out prperly from win95 i keep getting out of
>mem errors so i guess this will not work at least for now
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
subependymoma 1990
DeKalb IL
E-MAIL:  jleonard@tbcnet.com

Visit the Kishwaukee Amateur Radio Club's Hamfest, to be held at the
Sandwich IL Fairgrounds on Sunday, May 5, 1996.
```

---

408. Re: [APRSSIG:6856] Davis WX station

From: rwf <rwf@mindspring.com>
Date: Sun, 18 Feb 1996 08:18:37 -0500
To: aprssig@tapr.org
Message-ID: <199602181318.IAA12743@borg.mindspring.com>
Rendered body type: text/plain

```
At 08:03 PM 2/17/96 -0600, kswaggart@aol.com wrote:

> Intent is to build a little program to >covert the Davis output into an
APRS readable wx report format using a spare 286 PC.


Sounds like a job for EMI and his Basic Stamp(s).
```

409. Re: [APRSSIG:6864] Re: Davis WX station

From: KD4EMI@aol.com
Date: Sun, 18 Feb 1996 09:06:07 -0500
To: aprssig@tapr.org
Message-ID: <960218090606_147189272@emout07.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-02-18 08:56:08 EST, you write:

>From:  rwf@mindspring.com (rwf)
>Sender:        aprssig@tapr.org
>Reply-to:      aprssig@tapr.org
>To:    aprssig@tapr.org
>
>At 08:03 PM 2/17/96 -0600, kswaggart@aol.com wrote:
>
>> Intent is to build a little program to >covert the Davis output into an
>APRS readable wx report format using a spare 286 PC.
>
>
>Sounds like a job for EMI and his Basic Stamp(s).
>
>

did someone call me ??

I'll start licking right away !!

But seriously...clue me in...Whats the format with that thing, and what does
it need to be changed into.
Cant this be done with the software ?
If its needed I'll make an adapter, no sweat... Or maybe I'll just sell aprs
wx monitors..>!!
Those monitors are so expensive !  Id wanted one till I saw the price !
What is it $300 plus bucks...gees, thats a year of cable and the wx channel
is included !  :)

Let me know if you need some help.
Mike   KD4EMI@AOL.COM
```

---

410. Re: [APRSSIG:6858] WinAprs>> PK-900

From: n2czf@gate.net
Date: Sun, 18 Feb 1996 11:44:09 -0500
To: aprssig@tapr.org
Message-ID: <199602181644.LAA48806@osceola.gate.net>
Rendered body type: text/plain

```
Read the bottom of the Win APRS config file, you MUST have either the KAM or the
PK-900 selection in there for it to work. Just delete the KAM line and you are
set.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

411. MacAPRS v. 2.4.0

From: N9APP@aol.com
Date: Sun, 18 Feb 1996 13:12:54 -0500
To: APRSSIG@tapr.org
Message-ID: <960218131253_325702071@emout10.mail.aol.com>
Rendered body type: text/plain

```
To Mark or Keith Sproul / or anyone that can help.

I downloaded the new version of MacAPRS v. 2.4 from your FTP site and
retrieved the .sit file.  When I try to unstuffit using the Stuffit Expander
program that you and I worked with at the Wheaton Hamfest here in Chicago,
nothing happens.  I drag the .sit file to the Expander program icon, and I
can see the Expander window open.  After 2 seconds the program closes itself
with no action report and no expanded file.   I then started the Stuffit
Expander program by itself.  I selected "expand..." from the files menu and
selected the .sit file.  Again, about 2 seconds of hard disk action then
nothing.  Again, no expanded file or error reports.

Now I went to the Stuffit program and selected the "Binary decode" section
and tried that on the .sit file.  This time I got indications of CRC errors
in the starting bits.  It stated that the program could not be decoded.

One thing that makes me courious is that if I look at the .sit file through
```

"Get Info", it is described as a America OnLine document file. I wouldn't think this would make any difference but you never know. Perhaps my AOL software is doing something to it.

For Info:
I have Expander version 3.5.2 from the hamfest and
Stuffit version 1.5.1

Is the file on the FTP bad (I'm sure not likely...worth asking) or what might I be doing wrong?

Thanks for your help guys!

Randy Broadwell - N9APP
St. Charles Illinois
N9APP@AOL.COM

---

412. 80M Gate in SE FL Coming Back

From: n2czf@gate.net
Date: Sun, 18 Feb 1996 14:42:34 -0500
To: aprssig@tapr.org
Cc: kheyboer@pinegov.co.pinellas.fl.us
Message-ID: <199602181942.OAA24262@osceola.gate.net>
Rendered body type: text/plain

I have no excuse but lazyness for not puting the 80M gate back up in the past 2 weeks, sorry. During my VERY short stay at the Orlando Hamfest I found the lazy man's way out of TNC cables, a pre-made MFJ cable for a KAM to Kenwood HT and I bought it.

Later tonight (Sunday) once I clean the desk up I will have the 80M and 30M gate up and runing 24hrs 7days a week for good. Let's try to get some activity going again, I know that the Orlando bunch had a better chance to get thru via 80M in Tampa to the SE than on 2M, hopefully the 2M side will become reality in the near future.

The frequency is 3.585 LSB and it will probably take a couple of days before the regular bunch zero beats together again as before.

73's and hope to see you there!
De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

413. Re: [APRSSIG:6867] MacAPRS v. 2.4.0

From: "Jerry" <jerdptro@xnet.com>
Date: Sun, 18 Feb 1996 13:48:30 +0000
To: aprssig@tapr.org
Message-ID: <199602181947.NAA17249@flood.xnet.com>
Rendered body type: text/plain

TAKE HEART...
I had the same problem..so I just d/l'd on the mac itself and was able to get the program running. I did have a problem addressing the TNC so Keith told me to delete the APRS prefrence file in the system files are of the mac and reconfigure the 2.4.0 program and your serial ports on the mac. MAKE sure you have your registration number handy...after all that...it purred like a kitten...THE best release yet.....
Jerry
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

---

414. one more try

From: KD4EMI@aol.com
Date: Sun, 18 Feb 1996 17:08:02 -0500
To: aprssig@tapr.org
Message-ID: <960218170802_147432855@mail04.mail.aol.com>
Rendered body type: text/plain

I am on 18.107 USB .
Aprs is on line.
Looking for contacts.
If you know ANYONE that isnt on the sig but wants to
get on 17 meters let them know...!!!

Hope to hear something...ANYTHING!! (Its lonely up there !)

73 Mike KD4EMI

---

415. WinAprs isn't working here.

From: "Holstein's" <holstein@erols.com>
Date: Sun, 18 Feb 1996 18:17:34 -0500
To: aprssig@tapr.org
Message-ID: <199602182317.SAA29712@mail.erols.com>
Rendered body type: text/plain

I've tried running WinAprs 022 and 024 and neither have worked. I changed the Config File to have my call sign, position, and validation number. I will try it with the default validation number but I don't suspect better results.

I cannot open the VHF TNC port to get any i/o between APRS and the TNC. I have no trouble using another terminal program so it's definately in the WinAprs software.

Help.

---

416. Re: [APRSSIG:6871] WinAprs isn't working here.

From: "Jerry" <jerdptro@xnet.com>
Date: Sun, 18 Feb 1996 18:32:55 +0000
To: aprssig@tapr.org
Message-ID: <199602190031.SAA07018@flood.xnet.com>
Rendered body type: text/plain

IF you are running Windows 3.1....WINAPRS isn't working with that software yet. Code is being written as we speak. If you are running WIN95, check your port settings in the Control Panel and make sure you have the proper baud rate in WINAPRS set in the config file, as well as the correct port.

Don't give up. If ur using WIN95...it works, if not....you may want to try the MAC version 2.4.0...It is awesome...I run both and my mac announces spots and messages.......enuf commercial...

GOOD LUCK....
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

---

417. Re: [APRSSIG:6871] WinAprs isn't working here.

From: Lou Sposa <lousposa@aksi.net>
Date: Mon, 19 Feb 1996 07:02:42 -0500
To: aprssig@tapr.org
Message-ID: <199602191202.HAA14718@ns.aksi.net>
Rendered body type: text/plain

I've done the same things you have. Read the revision.txt file. It says "Open TNC does not work. It does not give an error and you will thinkm its working but it is not."
I fooled with this most of yesterday (Sunday). Just noticed the line in the text about 5 minutes ago.(Monday AM) I am able to send, but not receive.

At 05:20 PM 2/18/96 -0600, you wrote:
>I've tried running WinAprs 022 and 024 and neither have worked. I changed
>the Config File to have my call sign, position, and validation number. I
>will try it with the default validation number but I don't suspect better
>results.
>
>I cannot open the VHF TNC port to get any i/o between APRS and the TNC. I
>have no trouble using another terminal program so it's definately in the
>WinAprs software.
>
>Help.
>
>
>
>

Lou Sposa
79 Fiesta Way
Ft Lauderdale, FL 33301-1414
954-523-5122
954-523-1262/Fax
lousposa@aksi.net

```
lousposa@aol.com
```

---

418. Re: [APRSSIG:6873] Re: WinAprs isn't working here.

```
From: "Jerry" <jerdptro@xnet.com>
Date: Mon, 19 Feb 1996 07:14:21 +0000
To: aprssig@tapr.org
Message-ID: <199602191313.HAA22644@flood.xnet.com>
Rendered body type: text/plain
```

```
Lou WAPRS doesn't work yet with Win3.1, is that what ur running?
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com
```

---

419. Re: [APRSSIG:6865] Re: Davis WX station

```
From: sproul@ap.org (Mark Sproul)
Date: Mon, 19 Feb 1996 09:11:52 -0500
To: aprssig@tapr.org
Message-ID: <v02130506ad4e35716b7e@[165.1.27.20]>
Rendered body type: text/plain
```

```
>In a message dated 96-02-18 08:56:08 EST, you write:
>
>>From:  rwf@mindspring.com (rwf)
>>Sender:        aprssig@tapr.org
>>Reply-to:      aprssig@tapr.org
>>To:    aprssig@tapr.org
>>
>>At 08:03 PM 2/17/96 -0600, kswaggart@aol.com wrote:
>>
>>> Intent is to build a little program to >covert the Davis output into an
>>APRS readable wx report format using a spare 286 PC.
>>
>>
>>Sounds like a job for EMI and his Basic Stamp(s).
>>
>>


In very short order, the Davis unit will be supported by MacAPRS and
WinAPRS, so dont go to to much trouble.  We have the docs on the format and
it will probably be in the next release.

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

420. Cookbook

```
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Mon, 19 Feb 1996 08:15:10 -0600
To: aprssig@tapr.org
Message-ID: <9602191415.AA09802@omnifest.uwm.edu>
Rendered body type: text/plain
```

```
May I respectfully suggest that someone write a "cookbook" for
MacAPRS?  I am trying (very) to set up MacAPRS and I keep making dumb
errors.
        The documentation that I was able to find is in Word format
- and MY translator doesn't seem to recognize that.  Is a text version
available.

        I can't seem to get to the preferances setting area.

Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu
```

---

421. (no subject)

```
From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain
```

```
Date: Mon, 19 Feb 1996 05:23:14 -1000 (HST)
From: Dave Creek <dcreek@pixi.com>
To: aprssig@tapr.org
Subject: Time
X-Sender: dcreek@imap-server.pixi.com
Message-ID: <Pine.PCW.3.91.960219045938.10015B-100000@mothra10.pixi.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
```

After going back and reading this thread, it looks like everyone is
overlooking a very good system for updating the computer clock.
Most ISP's have a Network Time Server (NTS) running on their server.
These are typically Stratum 3 servers, that is they are two levels below
a Stratum 1 system which is usually driven by a cesium or rubidium
standard.
Software is available over the Internet. A good source is the US Naval
Observatory at http://tycho.usno.navy.mil/. This site also has
documentation on the various NTP servers and their accuracy.
Before I got on the Internet, I used a program that called the NBS site
at Boulder, CO. which automaticly updated my PC clock. After I got an
account with an ISP, I started using a program called Timesync.exe. My
ISP had not implemented an NTS at that time, so I was accessing a Stratum
2 NTS at Jet Propulsion Lab in Pasadena, CA. Every morning I would call
the NBS site in Boulder and sync the PC clock and then access the NTS
server at JPL and sync from there. I never saw any change in my PC clock
to the nearest second. After Pixi.com drought an NTS on line, I did the
same test daily for several weeks with the same accuracy. Given the
limits of the PC clock system, I believe this is as good an accuracy as
can be expected.

I hope this is some help.

As the other Dave from Hawaii says, it's time for the beach.

73 es Aloha,

Dave Creek, NH6BA
Ewa Beach, HI
dcreek@pixi.com

---

422. Ft Worth Cowtown Marathon Maps

From: Mike Heskett <mheskett@StarText.NET>
Date: Mon, 19 Feb 1996 09:27:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602191527.JAA09042@lepton.startext.net>
Rendered body type: text/plain

Bob, KC5EJK, has uploaded for me the maps we will use for the 1996 Cowtown
Marathon this saturday (2/24). The zip file with maplist.ftw and 15 1 mile
maps is COWTOWN.ZIP. He also uploaded a COWTOWN.TXT that explains the zip
file. Thank you to those of you that have sent messages on how to build maps.

Mike
WB5QLD

---

423. Re: [APRSSIG:6853] Re: One Last TIME

From: sp35@cornell.edu (Steven Powell)
Date: Mon, 19 Feb 1996 10:45:12 +0000
To: aprssig@tapr.org
Message-ID: <v02130501ad4e0092dbda@[128.84.224.150]>
Rendered body type: text/plain

>Bob Bruninga sez:
>>
>> For the future, GPS IS TIME. W3IWI Tom CLark has been excited about the
>> fantastic potential for near microsecond (I dont know exactly, I may be
>> off by orders of magnitude). But even the cehapest Garmin OEM cards now
>> come with GPS time pulses STANDARD!
>
Gerry Creager adds:

>Make that 50 ns accuracies

No -- not the complete story. It would be typically 50 nS without the
intentional degradation of the GPS signal by the D.oD. This intentional
degradation is called Selective Availability. A 150 meter degradation in
position translates into a timing inaccuracy of 500 nS. This is the level
of expected accuracy for a standard GPS receiver operating in a
non-differential mode.

```
The typical timing output from a GPS receiver consists of serial data plus
a synchronizing pulse.  This is often called "1 pps" or "one pulse per
second".  The edge of the 1 pps corresponds precisely to the roll-over of a
UTC second.  So to precisely set a PC clock you need to read the serial
data AND synchronize to the edge of the 1 pps.

Fortunately, a 1pps signal is standard on most GPS engines so the
capability is there for time sync to less than a microsecond.





Steven Powell                   Space Plasma Physics Group
sp35@cornell.edu                      Cornell University
N2BU
607-255-6236 (FAX)
607-255-4551 (Phone)
```

---

424. How I Make Maps.

From: Ozzie N4SCY <ozzie@digital.net>
Date: Mon, 19 Feb 1996 11:30:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960219112813.20191A-100000@digital.net>
Rendered body type: text/plain

```
Hi there,

I've been working on making maps around Titusville FL, and have an
interesting technique. I get a fairly good street map, then copy it
using an ordinary copier - onto graph paper! I use the closely
spaced graph paper I find at the drug store, or the Five & Dime. The
only problem here is making sure the map stays straight on the glass
as I close the top over the original, so that streets line up with
the lines on the paper.

After that, I just put my own numbers along the top and side of the
page, and take my new paper map and Model-100 laptop with me to the
laundromat to enter coordinates while the laundry is cooking. I
transfer the straiht ASCII text file to my PC when I get home. I also
use WordStar in Non-Document mode, or (on a Windows based machine),
I'll use Notepad. My problem now is coming up with a "range" for the map.

   Question: Is there a mathematical relationship between the
   range milage, and the distance between the 0,0 coordinate
   and the Map Center coordinate? What about "Pixels Per Inch"?

The real question is, How do I pull the RANGE and PPI numbers out of
thin air? Is there a rule of thumb? Thanks for the help.


     Ozzie

Robert Osband       +1 407 635-4166 (Numeric Pager)
PO Box 6841         n4scy@amsat.org (Internet)
Titusville  FL      Ozzie Osband @ 1:374/73 (FidoNet)
USA  32782          http://ddi.digital.net/~ozzie (WWW)

| YOU CAN'T BREAK THE RULES, but once you know what
| they are, you can abuse the hell out of them!
|       - The Cheshire Catalyst
```

---

425. How I Make Maps.

From: Ozzie N4SCY <ozzie@digital.net>
Date: Mon, 19 Feb 1996 11:06:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960219110620.18593A-100000@digital.net>
Rendered body type: text/plain

```
j
```

---

426. Picking a TNC

From: Robert Busch <0006867555@mcimail.com>
Date: Mon, 19 Feb 96 12:15 EST
To: APRS SIG <aprssig@tapr.org>
Message-ID: <30960219171503/0006867555DC6EM@MCIMAIL.COM>
Rendered body type: text/plain

Given a rule that says I can have only one HF and one VHF radio and only one
DOS/Windows PC and one TNC, it has been useful to read the sig messages as I
pick the one TNC. But the sig messages cause a question: is it better
to buy a packet only TNC and avoid the complications that always(?) come with
more options and flexibility and be happy with APRS and packet only, or is it
better to put up with some pain to also have other HF modes? Only one example,
for instance, would be a KAM Plus or a KPC3? Price plays, of course, but
buying a replacement TNC later to gain more modes makes the price question
a false one; two are not cheaper than one.

Bob Busch
WB3KXJ
Laurel MD

---

427. Re: [APRSSIG:6879] Re: One Last TIME

From: jra@ag9v.ampr.org
Date: Mon, 19 Feb 1996 13:19:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602191819.NAA06042@ag9v.ampr.org>
Rendered body type: text/plain

You (Steven Powell) write:

[about GPS precise timing]

>No -- not the complete story. It would be typically 50 nS without the
>intentional degradation of the GPS signal by the D.oD. This intentional
>degradation is called Selective Availability. A 150 meter degradation in
>position translates into a timing inaccuracy of 500 nS. This is the level
>of expected accuracy for a standard GPS receiver operating in a
>non-differential mode.
>

I don't know if Tom, W3IWI, reads this list (if he does, he'll probably jump
in here) but his "totally accurate clock" project uses a Motorola GPS engine
to derive the 50ns accuracies Gerry mentioned, despite SA. He's verified that
performance against USNO.

--
John Ackermann   AG9V
Internet: jra@ag9v.ampr.org
Packet: AG9V@N8ACV.#DAY.OH.USA

---

428. QTH APRS CURSOR DEFAULT

From: Wb2ngz@aol.com
Date: Mon, 19 Feb 1996 13:56:59 -0500
To: aprssig@tapr.org
Message-ID: <960219135658_426310321@emout09.mail.aol.com>
Rendered body type: text/plain

This may be old news for the experienced, unregistered APRS users but I
thought I would pass it along anyway. The registered users do not need
this modification as the configuration file saves your latitude/longitude
location.
   In order to make the APRS cursor default to your location when you load
the MAPLIST.xx that you use for your area make the following changes to
the first two lines in the MAPLIST.xx file:

```
28.8775 , Default LAT DEFAULT
81.318  , Default LON startup
```

Change the numbers above to YOUR latitude/longitude coordinates in decimal
degree format (mine are 29.08881 and 80.93507).

   To convert degrees/minutes/seconds to decimal degree format use the
   following calculation:

   To convert 80 degrees, 56 minutes, 6.27 seconds

```
   Divide the seconds by 60:                6.27/60 =  0.1045
   Add the result to the minutes:    56 + 0.1045 = 56.1045
   Divide result by 60:                     56.1045/60 =  0.93507
   Add the result to the degrees:   80 + 0.93507 = 80.935075 decimal deg.
```

With the change to MAPLIST.xx file the cursor will default to your LAT/LON
coordinates and when you enter your house on the map all you have to do
is enter "I", "M" and since your LAT/LON will already be correct, just
press ENTER, ENTER then select "B" for building and "Q" for QTH.

73...de WB2NGZ, Bob in Ponce Inlet, Florida

---

429. PUT YOUR TOWN ON APRS

From: Wb2ngz@aol.com
Date: Mon, 19 Feb 1996 13:57:07 -0500
To: aprssig@tapr.org
Message-ID: <960219135707_426310840@emout04.mail.aol.com>
Rendered body type: text/plain

When I first started using APRS I found that my town "Daytona Beach" was
not shown on the APRS maps so I used the following method to add "Daytona
Bch."
to my USAseast.map. You might want to use the same procedure to add your
city to APRS if it's not there already.

To put the "Daytona Bch." label on the USAseast APRS map. Load the
USAseast.map file into an ASCII word processor (The USAseast.map file can
be found in the APRS\MAPS directory). Add the following line to the end of
the file
(in the label area):

Daytona Bch.,29.11,80.99,256

   "Daytona Bch." is the label to be printed on the USAseast.map, "29.11" is
the
latitude for the label in decimal degree format, "80.99" is the longitude in
decimal
degree format and "256" is the range at which the label "Daytona Bch." will
appear. Enter the data exactly as shown or it won't work. Make sure you note
the commas
and the periods and don't confuse one with the other, it won't work. Do not
try to
use the name "Daytona Beach" instead of "Daytona Bch." The program will only
recognize 12 characters in the city name and "Daytona Beach" is 13 characters
long...count em'.
   Now when you load APRS and zoom into the Daytona Beach area you
will see "Daytona Bch." on the map when the USAseast map loads.

73...de WB2NGZ...Bob in Ponce Inlet, Florida

---

430. Re: Ft Worth Cowtown Marathon Maps

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 19 Feb 1996 13:06:40 -0600
To: aprssig@tapr.org
Message-ID: <v02130502ad4e768cd5fd@[199.1.154.5]>
Rendered body type: text/plain

> The zip file with maplist.ftw and 15 1 mile Maps
> Thank you to those of you that have sent messages on how to build maps.
> Ft Worth Cowtown Marathon Maps

Take a look !!!

Mike has done a very exelent job with these maps and has
customized them with MANY labels for the Marathon special event.

I now wish I had done something like that with the Dallas
White Rock Marathon.PC maps that Bill KE4EER sent me.
   ### (Thanks again Bill) ###

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

431. SA to be turned off May 1, 1996

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 19 Feb 1996 13:15:00 -0600
To: aprssig@tapr.org
Message-ID: <3128CC34.20E5@onramp.net>
Rendered body type: text/plain

I've heard that the DOD is going to turn off GPS SA May 1, 1996!
Is there any truth to this?

Please, let it be so!

```
Larry Griffin <largriff@onramp.net>
```

---

432. Re: [APRSSIG:6879] Re: One Last TIME

```
From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 19 Feb 1996 13:35:27 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602191935.NAA10744@solar.cs.tamu.edu>
Rendered body type: text/plain
```

```
Steven Powell sez:
>
> Gerry Creager adds:
>
> >Make that 50 ns accuracies
>
> No -- not the complete story.  It would be typically 50 nS  without the
> intentional degradation of the GPS signal by the D.oD.  This intentional
> degradation is called Selective Availability.  A 150 meter degradation in
> position translates into a timing inaccuracy of 500 nS.  This is the level
> of expected accuracy for a standard GPS receiver operating in a
> non-differential mode.

Sorry to have to put it this way, but W3IWI is *SEEING* consistent 50 ns
accuracies using L1 C/A code on a 6-channel receveiver.  Check
ftp://aleph.gsfc.nasa.gov/pub/tac (if I remember correctly).

I guess I'm as familiar with SA as anyone, and more familiar in its
implementation than some.  Your numbers are reasonable, but your 150 meter
degradation is in error.  the 95th percentile number is 100 meters, with an
RMS error over precisely 24 hours of zero. plus or minus sommon mode noise.

> The typical timing output from a GPS receiver consists of serial data plus
> a synchronizing pulse.  This is often called "1 pps" or "one pulse per
> second".  The edge of the 1 pps corresponds precisely to the roll-over of a
> UTC second.  So to precisely set a PC clock you need to read the serial
> data AND synchronize to the edge of the 1 pps.

The "edge" depends on the manufacturer.  Some use leading edge, some the
trailing edge.  Check your docs: your mileage may vary.

One should recall that in determining time, only one satellite is required,
and observations are made over a long integration period, effectively negating
SA.  If one were to apply digital filter technology (Kalman, 7th-9th order)
one could well eliminate most all of the effect of SA, accepting the
relatively constant computational delays.

Gerry

On another front... How go the elephants?  We had some minor (well, major)
data problems with Trial 2 of Cows In Space, but thanks to Bob, that's
settled.  We're looking at Trial 3 in about 3 weeks, if all goes well.

73, gerry
```

---

433. Re: [APRSSIG:6887] SA to be turned off May 1, 1996

```
From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Mon, 19 Feb 1996 15:58:58 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199602192058.PAA14117@newworld.bridge.net>
Rendered body type: text/plain
```

```
>I've heard that the DOD is going to turn off GPS SA May 1, 1996!
>Is there any truth to this?
>
Congress did pass a law requiring them to do this, but there is a
loophole. This date can be extending if prior to this date DOD provides
congress with a timetable for R&D of an alternate jamming method. There
is no limit on when this R&D needs to be completed, so if DOD says we'll
do it in 10 years, they don't need to turn the SA off. What do you think
is going to happen???

Steve KO4HD
```

---

434. Cows in ??

```
From: dwetzel@uswest.com
Date: Mon, 19 Feb 1996 14:29:27 -0600
To: aprssig@tapr.org
Message-ID: <128e0960@acmspgw1.mnet.uswest.com>
```

Rendered body type: text/plain

```
On another front... How go the elephants?  We had some minor (well, major)
data problems with Trial 2 of Cows In Space, but thanks to Bob, that's
settled.  We're looking at Trial 3 in about 3 weeks, if all goes well.

73, gerry



Hey Gerry, how about a short synopsis of the Cows in Space program?  I mentioned
that at an APRS presentation to one of the Utah clubs and got a huge reaction
about it.  I'd love to have some more details for future shows!

Thanks!

Doug
KC7CO
```

---

435. Re: [APRSSIG:6807] Re: APRS time-syncing is Important

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 19 Feb 1996 16:29:13 EST
To: <aprssig@tapr.org>
Message-ID: <19FEB96.17806036.0283.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
>> Date:          Thu, 15 Feb 1996 16:38:34 -0600 (CST)
>> Reply-to:      aprssig@tapr.org
>> From:          jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
>> To:            aprssig@tapr.org
>> Subject:       [APRSSIG:6799] Re: APRS time-syncing is Important
>
>> >>>>>to bob and others
>> >CON:    I don't want MY clock goofed up by what time YOU think it is...
>> >My $.02 worth my kpc 3 got messed up one time because i forgot
>> >to turn off the gps beacons blt 1 i think and it still sent this
>>>>info out on the air using the last gps data it rx 72hrs old
>>>> this would have made a few people mad! to reset ther clocks 72 hrs
>>
>>Another idea is to set the clock automatically from any valid GPS str ing,
>>>>What defines a valid gps string? if my gps loses signal it sends
>>>>out its last time and pos even if its days old.
>>>>i like the idea of a specific gps time station this station
>>>>could also be the station that sends the "shut down beacon"
>>>>for our freinds in space on 145.80.
>>>>i still am one who does not want my station/computer messed w/
>>>>with out a choice in the mater even if the time sync is the defalt
>>>>a switch to cut it off would be nice or And having limited access
>>>>to the time sync versionwhich sends this info out.
>>>>this comes from having 3 stations in our are 10 miles apart set to
>>>>MANUAL WIDE!
Thanks Lynn
N4YCI  at uga athens ga
```

---

436. Re: One Last TIME

From: sp35@cornell.edu (Steven Powell)
Date: Mon, 19 Feb 1996 16:53:13 +0000
To: aprssig@tapr.org
Message-ID: <v02130503ad4e5806517d@[128.84.224.150]>
Rendered body type: text/plain

```
>I don't know if Tom, W3IWI, reads this list (if he does, he'll probably jump
>in here) but his "totally accurate clock" project uses a Motorola GPS engine
>to derive the 50ns accuracies Gerry mentioned, despite SA.  He's verified that
>performance against USNO.

Thanks for pointing me toward Tom's work.  His "Totally Accurate Clock" is
described on the Internet at:

ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/announce.tac

Tom points out that indeed Selective Availability does affect time
accuracy, but these affects can be reduced by averaging the timing data
from all of the satellites that a receiver is tracking.  He uses a Motorola
PVT-6 receiver with timing option A.  This particular receiver does the
required  averaging to mitigate the effects of Selective Availability on
timing.
```

```
Steven Powell                   Space Plasma Physics Group
sp35@cornell.edu                      Cornell University
N2BU
607-255-6236 (FAX)
607-255-4551 (Phone)
```

---

437. Re: [APRSSIG:6871] WinAprs isn't working here.

From: schiers@ibm.net (Robert Schiers)
Date: Mon, 19 Feb 96 22:41:49
To: aprssig@tapr.org
Message-ID: <199602192252.WAA15161@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <199602182317.SAA29712@mail.erols.com>, on 02/18/96 at 05:20 PM,
   "Holstein's" <holstein@erols.com> said:

>I've tried running WinAprs 022 and 024 and neither have worked.  I
>changed the Config File to have my call sign, position, and validation
>number.  I will try it with the default validation number but I don't
>suspect better results.

>I cannot open the VHF TNC port to get any i/o between APRS and the TNC.
>I have no trouble using another terminal program so it's definately in
>the WinAprs software.

>Help.

If you are running under Win 3.1/win32s that feature doesn't work yet and
is documented in the readme file. If running
under win95 or win-nt it does work perfectly, as I am using
it now and have been since beta 22.

73,



hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

---

438. Multi-maps

From: dwetzel@uswest.com
Date: Mon, 19 Feb 1996 16:21:01 -0600
To: aprssig@tapr.org
Message-ID: <128fa7c0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
I would also like to see mk100v20 make more maps at a time.  But with the advent
of WinAPRS and its MacAPRS map translator, we also need to be able to have the
mkmap tool series generate maps with an unlimited number of points and segments
without blowing up.  Admittedly, the DLG data isn't the best as far as
completeness is concerned, but with the ability of WinAPRS and MacAPRS to
display maps far in excess of 2000 points, we also need a generation tool to use
with the DLG data to match them.

Any takers?

Doug
KC7CO
```

---

439. Re: [APRSSIG:6874] Re: WinAprs isn't working here.

From: Lou Sposa <lousposa@aksi.net>
Date: Mon, 19 Feb 1996 18:21:10 -0500
To: aprssig@tapr.org
Message-ID: <199602192321.SAA19954@ns.aksi.net>
Rendered body type: text/plain

```
Jerry,
No I'm using Win 95.
However, in looking over the revision.txt file, it looks like it refers only
to win 3.1 regarding OPEN TNC not working.
I'll check tonight with some one locally who is running WIN 95 and WAPRS.
He' got it working. Now I just have to figure out what I'm doing wrong.

At 07:29 AM 2/19/96 -0600, you wrote:
>Lou WAPRS doesn't work yet with Win3.1, is that what ur running?
```

>Jerry Di Pietro
>N9VHW
>Streamwood, IL
>jerdptro@xnet.com
>
>
>

Lou Sposa
79 Fiesta Way
Ft Lauderdale, FL 33301-1414
954-523-5122
954-523-1262/Fax
lousposa@aksi.net
lousposa@aol.com

---

440. Re: [APRSSIG:6890] Cows in ??

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 19 Feb 1996 17:53:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602192353.RAA15899@solar.cs.tamu.edu>
Rendered body type: text/plain

> Hey Gerry, how about a short synopsis of the Cows in Space program? I mentioned
> that at an APRS presentation to one of the Utah clubs and got a huge reaction
> about it. I'd love to have some more details for future shows!

OK, you aske for it. On 24 Jan 1996, we instrumented 16 cows with Motorola GPS receivers, PacComm TNCs and Tekk radios. We also put identical packages on 2 fence posts that have the benefit of having been surveyed to sub-centimeter accuracy (WGS-84/94). These serve as checks on both the GPS SA dither and to use for post-processing data inputs to reduce the realtime-corrected DGPS data for better than 5 meter positions.

9 of 16 boxes on the animals and 1 of 2 fixed stations worked. We're trying now to determine the failure modes on all the bad boxes. We were able to get a total of 12 cows and both fence posts going after 24 intense hours of work and substitution... but no realtime troubleshooting

The differential reference station used was a Trimble 4000SSi Geodetic Surveyer talking to a PacComm Wireless Economy Modem (commercial Tiny-2) and driving a Tekk KS-900.

The entire system was painstakingly tested one box at a time on the night before the group left for the La Copita Research Area.

We got 4 days (about 92 hours) of data from the cows and fence posts. We discovered some interesting glitches that I thought I'd tested.

1. The 80 yard and even the 30 foot position filters are much too granular for our study. That's our fault for not determining it earlier. It's a good idea for most folks' APRS use.

2. The NMEA log prior to v 75 is actually a GPGGA log. We changed to GPGLL sentences to decrease airtime and get more precision (a whole digit, corresponding to about 1/2 meter resolution). We didn't get much data. As soon as the test sentences were overwritten with real data, the NMEA log stopped recording data. THIS HAS BEEN FIXED and (listening, Bob?) *IS* WORKING AS ADVERTISED.

3. With only superhuman work I was able to reconstruct the logged data from the APRS .hst files for the entire period and apply the post-processing routines via spreadsheet (it's not sophisticated, just effective).I was able to get comfortable with the idea of 0.9-2.4 meter error (more or less) using that approach.

4. Because of the filters, we had a lot of lost datapoints in the track histroy files. Cows, you see, move forward a step, graze straight ahead, graze left, graze right, swish their tails and then move another meter or less. Takes them a long time to move >30 feet (10 meters) and a REAL long time to move 80 meters. We lost all our dwell-time data because I had not adequately tested the NMEA log, which would have generally given us timing data as well as positioning data.

5. We backed off from 15 second updates per cow to 1 minute per cow with 5 second updates per RTCM DGPS update. We had relatively few collisions and will continue this next time.

6. For Trial 3, I will be telling the fence posts to send a GGA sentence with both time and position integrated (as well as a good indicator of DGPS

activity) at 15 or 30 minute intervals, while the cows will be asked to send GGA sentences once per hour in addition to their GLL updates on a minute by minute basis.

7. As a monitoring tool, APRS was wonderful. Once animal managed to dislodge the instrument package. The grad student was able to look at the pasture map and drive right up to the package for retrieval. Another animal went down to calve. Mother and son are doing well, and we know when she went down and where!

I think that's about it. I do not want to send out track history or map data 'til after Trial 3 and an abstract have gone in. After tha, it'll be available for review. I intend to submit an abstract to the Institute of Navigation on this one.

73, gerry
n5jxs@tamu.edu

---

441. Re: [APRSSIG:6859] Low cost GPS receivers.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Feb 1996 19:10:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960219190712.25130C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 17 Feb 1996, Bruce W. Martin wrote:

> I am looking for a low cost GPS receiver for a standalone tracker I am
> putting together. I have a low cost transmitter and am considering the
> MIM module or a used KPC-3. I saw some mention of $100 GPS receivers
in a message. I don't > need a display just serial output and an antenna.

WB4APR REPLY COMMENT:

Ijust received mmy OEM 8 channel GPS cards from Garmin today! After a little experminetation, I am considering a bulk purchase so I can pass along quantity pricing. Hopefully I can do it for less than $159 or so....

But availability is at least a month away...

---

442. APRS TIME SYNC

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 19 Feb 96 19:12:43 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824775163.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The following a 'long' message about the TIME stuff..

I like the conversation that has been brought up by this topic because there have been MANY good points made by a bunch of different people, and nobody has come out yelling at anyone else.. Most of the points made have been well thought out and presented quite nicely...

However... I think some people might be missing the point..

In MOST cases, people with computers at home/base stations do a 'pretty' good job of keeping their clocks correct..

If they have GPS's, it is even easier, because APRS (both MacAPRS and PC APRS, and soon, WinAPRS) can set the clock from the GPS..

The issue that was ORIGINALLY brought up was that a group of people were out in the field working on a special event, presumably with lap-tops/portables of some kind.. These (at least the older ones) quite often loose time, especially if they have been setting around for awhile not being used (who wants to use an 8088 lap-top when they DON'T have to? hi hi)

The PROBLEM WAS:

The people on participating in the special event ended up with DIFFERENT times on DIFFERENT computers.
At the END of the event, when they tried to collaborate all of the data together, the time differences goofed them up..

The REQUESTED SOLUTION WAS:

They would like a way to be able to SELECTIVELY sync all of the clocks of the PARTICIPATING people to a SINGLE clock..

They did NOT request:

The ability to FORCE their time on everybody else!

Then, some other people said:

"NEAT, You mean I can sync MY time to YOUR GPS/(or other ACCURATE Time device), WITHOUT spending MY money myself? NEAT!!!

So Bob and I have had several rounds of discussions on this, some on the SIG and some in private e-mail..

What we have come up with is a (currently evolving) protocol for a computer with a KNOWN GOOD TIME to be able to send that time out over the air.

All APRS stations that are listening, obviously RECEIVE this packet, but UNLESS!!!!!!!! the user has SPECIFICALLY chosen to SYNC THEIR computer to this time packet, the software just ignores it..

Now, the problems come up as follows:

How many times has this packet been digi-peated before I heard it?
(The software can tell by where the * is in the stream)

How long did the ORIGINAL packet sit in the TNC before being xmited?
(Nobody knows, and this is a problem)

How accurate is the time that was actually sent?
(well.. now that IS a good question)

To solve the ORIGINAL problem, (see WAY above), it didn't matter if the time was CORRECT, as long as EVERYBODY PARTICIPATING was in REASONABLY close agreement.. IN WHICH CASE, the problems above don't matter..

I personally can see some advanced Balloon Tracking applications that might want this...

Second Problem..

How ACCURATE is the time being sent...???

Well, in general, it has the potential of being much more accurate than some of the OLDER clocks in 286's etc...

Yeah, so it MIGHT be anywhere from 5 seconds off to a minute or so..
Oh well... BUT THAT IS STILL BETTER THAN CLOCK DRIFT OVER A MONTH!

Now, how do WE (Keith, Mark, and Bob) resolve this..

Well, we make it so that the time that gets sent is as accurate as possible, and make it DIFFICULT for the end-user to send a WRONG time..

We make the RECEIVE end USER SET-ABLE ONLY, i.e. NOT automatic, and the default is ALWAYS NO!!

We put some 'common sense' into the program, and make it ignore data that is out-of-line... i.e. MORE than xxx time from our 'current' time..

Does this solve everything?

No....

In Computer Networks, MANY MANY MANY computers sync over EtherNet, EtherNet can have LOTS of collisions and delays, yeah, I know it is in the fraction of a second realm instead of many seconds, But... The computers quite often need to be within a couple of seconds, or stuff can get messed up.

In the AX-25 world, we are lucky if the computers are within 10 minutes..

So, the solutions presented will by FAR be better than that...

And in the case of the Cleveland Road Rally, they will have a solution to their original problem... Not, the solution to the common cold...

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

443. Re: Mapfix20

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Feb 1996 19:29:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960219192742.25130G-100000@greatlakes>
Rendered body type: text/plain

On Sun, 18 Feb 1996, James A Warakois wrote:

> Due to the USGS data disk my map of Rhode Island (centered on one of the
> faithful digis is how I do it)..NEEDS a COLOR CHANGE ON SOME OF THE ROADS
> Its a small state but does have Interstate and Major Thoroughfares.
> Well, anyhow, There doesn"t seem to be a control function to change colors
> As far as I can tell all of the other functions work fine (I VERY MUCH LIKE
> THE CHANGE IN THE MENU STRUCTURE) But there is no COLOR CHANGE...

WB4APR REPLY COMMENT:
It is EDIT-CHANGE. Did I leave it off the HELP screen? oops

---

444. Re: [APRSSIG:6875] Re: Davis WX station

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Feb 1996 19:42:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960219194058.25130I-100000@greatlakes>
Rendered body type: text/plain

On Mon, 19 Feb 1996, Mark Sproul wrote:

> >>> Intent is to build a little program to >covert the Davis output into an
> >>APRS readable wx report format using a spare 286 PC.
> >>
> In very short order, the Davis unit will be supported by MacAPRS and
> WinAPRS, so dont go to to much trouble. We have the docs on the format and

WB4APR REPLY COMMENT: Same goes for APRSdos, but Im not promising a date...

---

445. Re: [APRSSIG:6880] How I Make Maps.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Feb 1996 20:07:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960219194710.25130K-100000@greatlakes>
Rendered body type: text/plain

On Mon, 19 Feb 1996, Ozzie N4SCY wrote:

> interesting technique. I get a fairly good street map, then copy it
> using an ordinary copier - onto graph paper! (keeping NORTH alignment)
> After that, I just put my own numbers along the top and side of the
> page, and enter coordinates while the laundry is cooking. I
> transfer the straiht ASCII text file to my PC when I get home.
> My problem now is coming up with a "range" for the map.
>
> The real question is, How do I pull the RANGE and PPI numbers out of
> thin air? Is there a rule of thumb? Thanks for the help.

WB4APR REPLY COMMENT: Sounds like a great technique. Here goes:

1) ALL you need to get your map perfect, is the LAT/LONG of your ORIGIN (0,0 in your numbering system) and the PIX-PER-DEGREE which establishes the scale

2) You simply find two LATITUDE tic marks. If they are at 123 and 456 on your map, then the difference is 333 of your "pixels" equaling the difference in latitude! If the TIC marks are one degreee apart, then your PPD is 333. If they are one "minute" apart, then your PPD is 60*333 or 19980 PPD. I suspect your answer is somwhere between these...

The CENTER and RANGE of an APRS map has *NO* relationship to anything
mathematical about the map. It is just the eyeball center of interest
and it is listed in the MAPLIST to tell APRS when to use this map.

*** HOWEVER *** we are trying to standardize most APRS maps to stay
within the numeric values of 0 and 1024 in Latitude and 0 and 2048 in
Longitude since my COMPRESSION algoriothm can use numbners within those
limits. A SIDE benefit of this standardization, is that you can pretty
well guess the center of the map based on its ORIGIN and its PPD...
The center will be at 1024,512 and the range will be about 32768/PPD.
(but you need to convert these to LAT/LONG and MINUTES(miles) to put them
in the MAPLIST.

---

446. Re: [APRSSIG:6898] APRS TIME SYNC

From: KD4EMI@aol.com
Date: Mon, 19 Feb 1996 20:37:23 -0500
To: aprssig@tapr.org
Message-ID: <960219203722_226204174@mail02.mail.aol.com>
Rendered body type: text/plain

One note about the time..

Remember folks many of use use programs that mess up the clocks
in our systems.

When I am saving the earth from Kilrathi space invaders, my clock
always gets messed up.
I usually have to reset it b4 booting aprs
Mike KD4EMI

---

447. Re: [APRSSIG:6900] Re: Davis WX station

From: KD4EMI@aol.com
Date: Mon, 19 Feb 1996 20:39:06 -0500
To: aprssig@tapr.org
Message-ID: <960219203905_226205555@mail02.mail.aol.com>
Rendered body type: text/plain

Whats the price diff on those wx stations ?

Mike KD4EMI

---

448. U-2000 manufacturing defect

From: "David G. Henderson" <daveh@erie.net>
Date: Mon, 19 Feb 1996 21:09:23 -0500
To: aprssig@tapr.org
Message-ID: <199602200203.VAA09639@moose.erie.net>
Rendered body type: text/plain

For those of you who purchased a Peet Bros. U-2000 before 1996, you may wish
to call Peet Bros about the manufacturing defect that they experienced with
the Temp/Humidity sensor.

The sensor and the cable junction box will be replaced (free I'm told).
Temp, humidity and barometer are inaccurate with units that were shipped.

73, Dave, N3EOY

---

449. Re: [APRSSIG:6882] Picking a TNC

From: jpatt@aztec.asu.edu (JOHN PATTERSON)
Date: Mon, 19 Feb 1996 20:08:31 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9602200308.AA20562@aztec.asu.edu>
Rendered body type: text/plain

>
>
>Given a rule that says I can have only one HF and one VHF radio and only one
>DOS/Windows PC and one TNC, it has been useful to read the sig messages as I
>pick the one TNC. But the sig messages cause a question: is it better
>to buy a packet only TNC and avoid the complications that always(?) come with
>more options and flexibility and be happy with APRS and packet only, or is it
>better to put up with some pain to also have other HF modes? Only one example,
>for instance, would be a KAM Plus or a KPC3? Price plays, of course, but
>buying a replacement TNC later to gain more modes makes the price question
>a false one; two are not cheaper than one.
>
>Bob Busch

```
>WB3KXJ
>Laurel MD
>
>
Hi Bob
I would get the tnc with more modems rather than limit your packet
options.
There are a lot of interesting modes to be in
73,Jack..W9JIU
>

--

This is from Jack and/or Betty in Tucson,Arizona

Best Regards
```

450. Re: [APRSSIG:6904] U-2000 manufacturing defect

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 19 Feb 1996 23:50:20 -0600
To: aprssig@tapr.org
Message-ID: <3129611C.2208@onramp.net>
Rendered body type: text/plain

```
David G. Henderson wrote:
>
> For those of you who purchased a Peet Bros. U-2000 before 1996, you may wish
> to call Peet Bros about the manufacturing defect that they experienced with
> the Temp/Humidity sensor.
>
> The sensor and the cable junction box will be replaced (free I'm told).
> Temp, humidity and barometer are inaccurate with units that were shipped.

That's good to know!  I ordered my U-2000 upgrade in late December and got it
in early January.  The Temp/Humidity accuracy has been pretty bad, off by
as much as 10 degrees and 40%.  But the barometer seems quite good, usually
within .01" or .02", compared to readings from NWS 8 miles from my QTH.

Larry Griffin  AB5GE  <largriff@onramp.net>
```

451. Re: [APRSSIG:6898] APRS TIME SYNC

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Tue, 20 Feb 1996 01:28:32 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199602200628.BAA17352@newworld.bridge.net>
Rendered body type: text/plain

```
>       How long did the ORIGINAL packet sit in the TNC before being xmited?
>       (Nobody knows, and this is a problem)
>
At the risk of flogging the subject to death...

If you set FULLDUP ON, the the packet will get transmitted as soon as the
TNC sees it...if the channel is busy, there will be a collision, but no
bad time will be receieved...perhaps sending several clock messages a few
seconds apart would increase the chances of everyone that is listening
getting a packet...They still could get hung up in the digi though.

Steve, KO4HD
```

452. Selective Availability Loophole

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Tue, 20 Feb 1996 02:08:32 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199602200708.CAA18970@newworld.bridge.net>
Rendered body type: text/plain

```
Several people have questioned me about the conditions on the
congressional mandate to eliminate SA, here is the text from the 1996
budget...

 SEC. 279. GLOBAL POSITIONING SYSTEM.

       (a) Conditional Prohibition on Use of Selective
     Availability Feature.--Except as provided in subsection (b),
     after May 1, 1996, the Secretary of Defense may not (through
     use of the feature known as ``selective availability'') deny
     access of non-Department of Defense users to the full
```

capabilities of the Global Positioning System.
(b) Plan.--Subsection (a) shall cease to apply upon
submission by the Secretary of Defense to the Committee on
Armed Services of the Senate and the Committee on National
Security of the House of Representatives of a plan for
enhancement of the Global Positioning System that provides
for--
(1) development and acquisition of effective capabilities
to deny hostile military forces the ability to use the Global
Positioning System without hindering the ability of United
States military forces and civil users to have access to and
use of the system, together with a specific date by which
those capabilities could be operational; and
(2) development and acquisition of receivers for the Global
Positioning System and other techniques for weapons and
weapon systems that provide substantially improved resistance
to jamming and other forms of electronic interference or
disruption, together with a specific date by which those
receivers and other techniques could be operational with
United States military forces.

Subsection B sure sounds like a big loophole to me!

73 de Steve

---

453. Re: [APRSSIG:6907] Re: APRS TIME SYNC

From: Larry Griffin <largriff@onramp.net>
Date: Tue, 20 Feb 1996 01:53:05 -0600
To: aprssig@tapr.org
Message-ID: <31297DE1.2E06@onramp.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >   How long did the ORIGINAL packet sit in the TNC before being xmited?
> >   (Nobody knows, and this is a problem)
> >
> At the risk of flogging the subject to death...
>
> If you set FULLDUP ON, the the packet will get transmitted as soon as the
> TNC sees it...if the channel is busy, there will be a collision, but no
> bad time will be receieved...perhaps sending several clock messages a few
> seconds apart would increase the chances of everyone that is listening
> getting a packet...They still could get hung up in the digi though.
>
> Steve, KO4HD

Now THAT is a GREAT IDEA! Syncing could reliably get to within 1 or 2
seconds for direct paths!

Larry Griffin AB5GE
<largriff@onramp.net>

---

454. Re: [APRSSIG:6907] Re: APRS TIME SYNC

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Tue, 20 Feb 1996 09:08:01 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9602200808.AA16552@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Steve Dimse writes:
> If you set FULLDUP ON, the the packet will get transmitted as soon as the
> TNC sees it...if the channel is busy, there will be a collision, but no
> bad time will be receieved...

A GREAT idea. Of course all digi's involved should also be full-duplex
digis, if possible. The APRS software could remember the current state
of the FULLDUP setting, set FULLDUP ON (if it's not already), send out
the TIME PACKET, and then restore the original FULLDUP setting (if it wasn't
already full duplex).

Collisions will occur, but if the TIME PACKET is sent rarely,
all other stations subscribing to the TIME PACKET service should
sync up within a few transmissions, and everyone else, who are
following half-duplex CSMA rules, will hopefully not get too upset.

--Shannon, DL6SEU (and N7APC)

455. Re: [APRSSIG:6910] Re: APRS TIME SYNC

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Tue, 20 Feb 1996 04:19:49 -0500 (EST)
To: <aprssig@tapr.org>
Message-ID: <199602200919.EAA23409@newworld.bridge.net>
Rendered body type: text/plain

>Steve Dimse writes:
>> If you set FULLDUP ON, the the packet will get transmitted as soon as the
>> TNC sees it...if the channel is busy, there will be a collision, but no
>> bad time will be receieved...
>
>A GREAT idea. Of course all digi's involved should also be full-duplex
>digis, if possible. The APRS software could remember the current state
>of the FULLDUP setting, set FULLDUP ON (if it's not already), send out
>the TIME PACKET, and then restore the original FULLDUP setting (if it wasn't
>already full duplex).

It's really not practical to change the digis to fulldup just for the time packets, and leaving them on fulldup would be a huge mess. In the setting which people seem to want to use the time protocol, most stations would probably be in direct range of the time station. If it has to go thru a digi there will be a loss accuracy, but this isn't designed for precise needs.

---

456. Re: [APRSSIG:6911] Re: APRS TIME SYNC

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Tue, 20 Feb 1996 10:45:02 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9602200945.AA16669@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Steve Dimse writes:
>
> >A GREAT idea. Of course all digi's involved should also be full-duplex
>
> It's really not practical to change the digis to fulldup just for the
> time packets, and leaving them on fulldup would be a huge mess. In the
> setting which people seem to want to use the time protocol, most stations
> would probably be in direct range of the time station. If it has to go
> thru a digi there will be a loss accuracy, but this isn't designed for
> precise needs.

Oh, I *meant* that the digi's should actually BE full-duplex, not half-duplex digis with their TNC's set with FULLDUP ON. If the digi(s) in the path are half-duplex (e.g., operate on the same freq. for input and output), then we're back to the original problem and will just have to live with it.

Here in Europe probably the vast majority of the 70cm (where most of the packet activity takes place) digipeaters are full-duplex with the standard (for Europe) 7.6 MHz freq. split, so the FULLDUP ON idea might work very well here. I don't know how many digis in the U.S. are full-duplex. But even if there are not many, I agree that the "time standard stations" could be chosen such that all stations can hear *a* time standard station directly or at least not through any half-duplex digipeaters.

--Shannon, DL6SEU (AKA N7APC)

---

457. I'm Not Running WIN31 Thank You!

From: "Holstein's" <holstein@erols.com>
Date: Tue, 20 Feb 1996 07:39:34 -0500
To: APRSSIG@tapr.org
Message-ID: <199602201239.HAA08300@mail.erols.com>
Rendered body type: text/plain

After being asked at least 25 times now in reply to my WinAPRS isn't working here message this is my answer...NO...I am not using WIN31...I am using WIN95.

I've reinstalled WinAPRS 024.
Changed my callsign and location.
Ran WinAPRS.

I get no recieve or transmit and when I try to open the VHF TNC port I get an error. I've checked my Windows Serial port settings and they are correct for COM2 and are the same as my TNC is set for.

And please don't e-mail me any more telling me to buy a Mac...you couldn't pay me enuf to own one anyway.

Thanx & 73

---

458. Re: [APRSSIG:6896] Re: Cows in ??

From: ASZ@aol.com
Date: Tue, 20 Feb 1996 08:58:31 -0500
To: aprssig@tapr.org
Message-ID: <960220085830_327495962@emout05.mail.aol.com>
Rendered body type: text/plain

On gerry's Cows in Space>>

gerry, I might have overlooked it, but why are you tracking the cows?

Tony WB3KGT

---

459. Re: [APRSSIG:6914] Re: Cows in ??

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 20 Feb 1996 10:14:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602201614.KAA24932@solar.cs.tamu.edu>
Rendered body type: text/plain

ASZ@aol.com sez:
>
> gerry, I might have overlooked it, but why are you tracking the cows?

Smart-aleck response: Because they paid me to.

Research answer: Texas A&M University and the Texas Agriculture Experiment Station received a USDA grant to investigate animal-land ecology interactions, with particular interest in the migration of ticks (especially the Lone Star tick) on cattle. The cattle-tick problem is a $250 million/year issue for the beef industry in Texas alone, and led to the original quarentine of Texas cattle in the 1880's when the big cattle drives swept north. Although we have been pretty successful in controlling ticks in this country, Mexico has not, and a quarantine region near the Texas-Mexaco border still exists.

We're looking at several things:

1. Forage patterns of the animals on pasture and mesquite thicket at different growing periods of the year, including drought/winter and wet/spring and summer

2. Dwell times in foliage mots where the animals might acquire ticks

3. Animal preference for several different types of mesquite thicket to pastureland reclamation (for years, PhDs have been telling ranchers, "This is what the cows prefer," describing a variety of reclamation methods. We have 5 different methods represented on the pasture we're grazing. For the first time since they started giving PhD's in Range Science, we're asking the COWS, rather than the PhDs, what the cows like best)

4. Roughage and nutrition capability of the pasture at various growing phases

5. Roughage and nitrogen utilization of the different types of forage, and at different growing seasons

6. Herd sociodynamics (how long it takes the cattle to return to normal grazing patterns after being handled, significant for future studies)

7. Proof of concept for this type of tracking system and development of refinements

73, gerry
n5jxs@tamu.edu

---

460. Portland, OR

From: dwetzel@uswest.com
Date: Tue, 20 Feb 1996 09:17:48 -0600
To: aprssig@tapr.org
Message-ID: <129e9100@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Does anyone have detailed maps of Portland, OR created? I'm going to be there from Sunday, Feb 26, through Monday Mar 4. I'll be taking the trusty MacAPRS Duodock, and this time I WILL remember the serial cable!

Thanks!!

Doug
KC7CO
dwetzel@uswest.com

---

461. Re: [APRSSIG:6897] Re: Low cost GPS receivers.

From: dwetzel@uswest.com
Date: Tue, 20 Feb 1996 09:33:30 -0600
To: aprssig@tapr.org
Message-ID: <129ec950@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Ijust received mmy OEM 8 channel GPS cards from Garmin today! After a
little experminetation, I am considering a bulk purchase so I can pass
along quantity pricing. Hopefully I can do it for less than $159 or so....

But availability is at least a month away...

Bob, any chance you can get the Garmin docs text scanned and put up on the tapr
server so we can start planning?

Doug
KC7CO

---

462. Re: [APRSSIG:6905] Re: Picking a TNC

From: dwetzel@uswest.com
Date: Tue, 20 Feb 1996 09:40:38 -0600
To: aprssig@tapr.org
Message-ID: <129ee5b0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

____
Subject: [APRSSIG:6905] Re: Picking a TNC
From: aprssig@tapr.org at Internet-Mail
Date: 2/19/96 21:22

>
>
>Given a rule that says I can have only one HF and one VHF radio and only one
>DOS/Windows PC and one TNC, it has been useful to read the sig messages as I
>pick the one TNC. But the sig messages cause a question: is it better
>to buy a packet only TNC and avoid the complications that always(?) come with
>more options and flexibility and be happy with APRS and packet only, or is it
>better to put up with some pain to also have other HF modes?

>Bob Busch
>WB3KXJ
>Laurel MD

I have an MFJ-1276 which does 300/1200 packet, pactor, and fax - it's a nice and
relatively inexpensive compromise (I paid $139) and can also be upgraded with
MFJ plug in higher speed modem options.

I also have a PK232, which I love. Don't limit yourself to packet only - there
is much fun on the other modes!

Doug
KC7CO

---

463. Re: [APRSSIG:6903] Re: Davis WX station

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Tue, 20 Feb 1996 10:34:10 -0700
To: aprssig@tapr.org
Message-ID: <199602201734.KAA29399@usr5.primenet.com>
Rendered body type: text/plain

About $600.00

At 07:50 PM 2/19/96 -0600, you wrote:
>Whats the price diff on those wx stations ?
>
>Mike KD4EMI

```
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

464. Re: [APRSSIG:6917] Re: Low cost GPS receivers.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Feb 1996 12:58:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960220125752.5857B-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 20 Feb 1996 dwetzel@uswest.com wrote:

> Ijust received mmy OEM 8 channel GPS cards from Garmin today!  After a
> little experminetation, I am considering a bulk purchase so I can pass
> along quantity pricing.  Hopefully I can do it for less than $159 or so....
>
> Bob, any chance you can get the Garmin docs text scanned and put up on the tapr
> server so we can start planning?

WB4APR REPLY COMMENT:
There would be a copyright problem with that, but I will extract what is
needed once I am happy with this model.
```

465. Illinois and Texas

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Feb 1996 13:00:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960220125858.5857C-100000@greatlakes>
Rendered body type: text/plain

```
I just did two 32 mile maps.  One of the area between Peoria and
Bloomington Illinois, and the other of Austin Texas area.

They are in newil-tx.zip just posted on tapr..
```

466. Re: [APRSSIG:6916] Portland, OR

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 20 Feb 96 13:26:28 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.824840788.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>Does anyone have detailed maps of Portland, OR created?


I will create them tonight and put them up on TAPR and RUTGERS..

Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

467. Re: [APRSSIG:6922] Re: Portland, OR

From: dwetzel@uswest.com
Date: Tue, 20 Feb 1996 12:52:37 -0600
To: aprssig@tapr.org
Message-ID: <12a1b550@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Thanks, Keith!

Doug
______________________________________________________________________________
Subject: [APRSSIG:6922] Re: Portland, OR
From:    aprssig@tapr.org at Internet-Mail
Date:    2/20/96  12:29


>Does anyone have detailed maps of Portland, OR created?


I will create them tonight and put them up on TAPR and RUTGERS..
```

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

468. Re: [APRSSIG:6827] MIM Modules

From: dmccutch@esd.dl.nec.com
Date: Tue, 20 Feb 1996 15:14:57 -0600
To: aprssig@tapr.org
Message-ID: <12a39910@imagate.ima.esd.dl.nec.com>
Rendered body type: text/plain

I have been very happy with mine, the only drawback I have found is the symbol plotted by APRS is tied to the character sent in the position string, rather than the ssid of the mim.

Dave KB5VQT

---

469. Looking for a low cost GPS

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Tue, 20 Feb 1996 15:45:14 -0600
To: aprssig@tapr.org
Message-ID: <9602201545.AA14684@oscar.telalink.net>
Rendered body type: text/plain

I'll try this again since William Nolle, KE4EER told me it was blank the first time I sent this.

I am looking for a low cost GPS receiver for a standalone tracker I am putting together. I have a low cost transmitter and am considering the MIM module or a used KPC-3. I saw some mention of $100 GPS receivers in a message. I don't need a display just serial output and an antenna.

TIA

Bruce, KQ4TV

---

470. Olympic Torch WEST

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Feb 1996 18:08:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960220180031.12162A-100000@greatlakes>
Rendered body type: text/plain

Enclosed is a BACKUP file of the route of the Olympic Torch from 27 April to May 15th out in the WEST. (LA to Denver)... Cut it out and place it in your BAKS directory. Then you can FILES-LOAD it to see the route. Look on the P-LIST and you will see that some of the legs are by train..

WE DO NOT KNOW IF APRS will be on the torch entourage, but we are working on it via sensitive negotiations. Do not meddle in any such negotiations, but start getting READY! This is the route, and please be sure that your City has good APRS digipeater coverage through your town and in between! I will post the rest of the USA when we finish them...

```
-------------------CUT HERE ----------------- & save as TORCHW.bk
c, 40.234 , 114.906 , 512
l,W3ADO     051329 @051329/APRS 7.3d on line.
p,LAngeles  291541 *291541/3402.99N/11811.88W/April 27th
p,S.Monica  291542 *291542/3401.07N/11830.12W/April 27th
p,MnhttnBch 291544 *291544/3352.91N/11823.87W/April 27th
p,HuntBch   291546 *291546/3344.27N/11804.67W/April 27th
p,LagunaBch 291548 *291548/3332.75N/11747.39W/April 28th
p,CapistBch 291559 *291559/3324.59N/11737.28W/April 28th
p,Oceanside 291612 *291612/3311.62N/11723.83W/April 28th
p,Carlsbad  291613 *291613/3309.70N/11720.95W/April 28th
p,DelMar    291614 *291614/3258.42N/11715.66W/April 28th
p,LaJolla   291615 *291615/3250.73N/11715.89W/April 28th
p,SanDiego  291618 *291618/3241.84N/11706.05W/April 28th
p,OtayLakes 291620 *291620/3237.27N/11655.02W/April 28-29
p,Jacumba   291622 *291622/3237.26N/11609.65W/April 29th
p,Calexico  291646 *291646/3240.32N/11528.96W/April 29th
p,Yuma      291649 *291649/3243.92N/11436.64W/April 29-30th train
p,Phoenix   291651 *291651/3333.35N/11210.22W/April 30th
p,SunCity   291654 *291654/3345.82N/11230.37W/April 30th
p,Kingman   291656 *291656/3512.99N/11402.22W/April 30-1st
```

```
p,Boulder   201628 *201628/3559.98N/11447.52W/May 1st
p,Henderson 201631 *201631/3603.82N/11459.03W/May 1st
p,Las Vegas 201632 *201632/3610.06N/11508.62W/May 1st train
p,Barstow   201634 *201634/3453.26N/11700.93W/May 2nd train
p,Santa Barb201636 *201636/3427.33N/11950.85W/May 2nd train
p,San luis O201639 *201639/3518.21N/12039.80W/May 2nd train
p,San Jose  201651 *201651/3719.76N/12153.34W/May 2nd train
p,Santa Clar201645 *201645/3721.44N/12156.95W/May 3rd
p,Sunnyvale 201655 *201655/3723.13N/12203.66W/May 3rd
p,San Mateo 201713 *201713/3733.69N/12219.50W/May 3rd
p,Foster Cit201714 *201714/3734.04N/12216.49W/May 3rd
p,SanFran   291701 *291701/3744.66N/12225.09W/May 3-4th
p,Napa      291705 *291705/3814.42N/12217.41W/May 5th
p,Davis     291707 *291707/3832.18N/12144.29W/May 4th
p,Sacrament 291708 *291708/3834.09N/12128.26W/May 4th   train
p,Redding   301550 *301550/4034.80N/12222.49W/May 4-5th train
p,KlamthFal 301555 *301555/4210.79N/12147.92W/May 5th   train
p,Eugene    301558 *301558/4350.62N/12300.88W/May 5th
p,Corvallis 301559 *301559/4438.61N/12302.80W/May 5th
p,Salem     301601 *301601/4459.96N/12255.36W/May 5th
p,OregonCty 301604 *301604/4521.06N/12237.58W/May 5th
p,Portland  301604 *301604/4531.61N/12238.54W/May 5-6th
p,St.Helens 301606 *301606/4552.24N/12250.05W/May 6th
p,ColumbCty 301615 *301615/4553.20N/12250.05W/May 6th
p,Rainier   301617 *301617/4603.75N/12256.77W/May 6th
p,Longview  301618 *301618/4608.54N/12256.77W/May 6th
p,Centralia 301620 *301620/4642.61N/12257.96W/May 6th
p,Olympia   301621 *301621/4704.68N/12253.16W/May 6-7th
p,Tacoma    171725 *171725/4713.91N/12226.39W/May 7th
p,Gig Hrbr  171726 *171726/4719.67N/12235.51W/May 7th
p,Bremerton 171727 *171727/4735.03N/12241.26W/May 7th
p,Seattle   171727 *171727/4738.39N/12219.65W/May 7th & 8th
p,Renton    171728 *171728/4729.74N/12212.92W/May 8th
p,Yakima    171729 *171729/4634.06N/12028.28W/May 8th
p,Pendleton 171735 *171735/4538.38N/11846.52W/May 8th & 9th train
p,Boise     171731 *171731/4331.65N/11609.08W/May 9th train
p,Pocatello 171732 *171732/4255.16N/11226.35W/May 9th train
p,Ogden     171736 *171736/4117.24N/11159.46W/May 9th train & 10th
p,N.SaltLk  171734 *171734/4056.11N/11153.70W/May 10th
p,SaltLkCty 171734 *171734/4043.63N/11153.69W/May 10th & 11th
p,Echo      301625 *301625/4056.03N/11123.88W/May 11th
p,Cheyenne  301627 *301627/4105.62N/10450.28W/May 11th
p,Greeley   301629 *301629/4029.39N/10432.28W/May 12th
p,Denver    301631 *301631/3943.31N/10455.31W/May 12th
p,ClrdoSprg 301632 *301632/3849.55N/10447.63W/May 12-13th
p,Limon     301636 *301636/3916.42N/10346.18W/May 13th
p,Brush     301637 *301637/4017.85N/10338.50W/May 13th
p,Sterling  301639 *301639/4044.72N/10300.10W/May 13th
p,Ovid      301642 *301642/4052.39N/10237.06W/May 13th
p,Julesburg 301643 *301643/4058.15N/10223.62W/May 13th
p,Kearney   301645 *301645/4035.11N/09837.05W/May 14-15th
r,TIME * TICK:02-06-1996 16:26:29
```

---

471. Other interesting Info

From: "Sadowski,P O4 USAF JCSAR/EDD" <sadowskp@jcsar.nellis.af.mil>
Date: Tue, 20 Feb 96 15:51:00 cst
To: aprssig <aprssig@tapr.org>
Message-ID: <312A450B@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Out of curiosity, has there been any interest in a query - response mechanism.... rather than blind broadcast mechanism ?? By that I mean, the "master" (and any station can call itself the master) asks specific "slaves" (and likewise - if it is queried then it is a slave) for their position... or the wx at that location... or the DF cut direction..
or ??? whatever....

This might allow a "round robin" query of info... like in a directed net rather than arbitrary blind xmsns.... also would allow multiple "events" to use the same "freq" without all xmsns cluttering up screen - ex. emergency response personnel being tracked independently from racer positions....

just a thought.... maybe allow high dynamic query of race leaders.. while only infrequent query of end of pack positions....

Just a thought....

ALOHA
AL
AH6LS
sadowskp@jcsar.nellis.af.mil

---

472. MapEdit v1.1

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
Date: Tue, 20 Feb 1996 17:53:23 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199602210153.RAA04634@archimedes.vislab.navy.mil>
Rendered body type: text/plain

Hello All!

I've recently updated the MapEdit program to read in USGS DLG data. Along with reading the data, it also reduces the points automatically. MapEdit is available at:
  http://www1.ridgecrest.ca.us/~jan/me/

MapEdit's features include:
- Total manipulation of every map feature, point, and label.
- Real-time pan and zoom of the map.
- No point limit, although things do get slow after 10,000 points :-)
- USGS DLG Read, with ability to pick which objects to read, like trails, railroads, streams, etc.
- Automatic "joining" (aka chaining). This joins features "straight", so that the thinning routines are more efficient.
- Vector-based thinning routine to eliminate needless points. This can be adjusted by the user to perform extreme thinning.
- 5% radius increase, if desired.
- Can use the entire APRS 2048x1024 area to draw the new map inside, rather than 640x350. This gives smoother features at high zoom.

In the future, I'm thinking of adding a USGS "gridding" option, to let the user enter in a center, starting radius, ending radius, and let it crunch all night.

>From just my own notes and comparisons, I've noticed MapEdit can make a map with 10% fewer points then other USGS maps I've generated. And this is all automatically. If you were to use the MapEdit functions to further move and delete points you could probably get another 10%. Of course, everyone's map is very different so I only claim this for maps I've done...

MapEdit runs using the Tcl/Tk language, and has been tested under a few of the SGI and SUN machines we have. Once the TIX extension (used to open files and other miscellaneous features) for Windows is released, it should run under Windoze, too. Please go to the Web page for more info...

---

473. Re: [APRSSIG:6927] Other interesting Info

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Feb 1996 22:14:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960220220655.12747C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 20 Feb 1996, Sadowski,P O4 USAF JCSAR/EDD wrote:

> Out of curiosity, has there been any interest in a query - response
> mechanism.... rather than blind broadcast mechanism ??
>
> This might allow a "round robin" query of info... like in a directed net
> rather than arbitrary blind xmsns....   also would allow multiple "events"
> to use the same "freq" without all xmsns cluttering up screen - ex.

WB4APR REPLY COMMENT: You can pretty well do all of what you request simply by proper operator setup in any fiven net.

1) You can already Query any station individually with the QUERY command. All other stations naturally default to the 15 minute rate, and this allows you to query the ones you want. So if you want a queried net, just tell everyone to set to 30 minute reporting, and Query the ones you want.

2) Already, multiple things can share the frequency. Set ALT-SETUP-MODES-SPECIAL and all such stations will only see themselves. BUT everyone else can watch them...

3) Select ALT-SETUPS-MODES-ALTNET and only those ALTNET stations will see themselves, and NO ONE else will notice them unless these monitoring

stations set CONTROLS-FILTERS-OTHER.

4) Set up to send your packets to any other NON-APRS TO callsign and no one will see you. Set CONTROLS-FILTER-OTHER ON and you can see them. Use BUDLIST to filter out all APRS traffic

SO, LOTS of ways to do everything you ask using the flexibility built into APRS and into every TNC...

474. S. A.

From: KD4EMI@aol.com
Date: Tue, 20 Feb 1996 22:24:03 -0500
To: aprssig@tapr.org
Message-ID: <960220222403_149420144@emout07.mail.aol.com>
Rendered body type: text/plain

Whats the word on Selective Availability.

Is there someone who is in the know in this group that can tell us if its going off or if its staying on ?

Thanks.

Mike
KD4EMI@AOL.COM

475. Re: [APRSSIG:6926] Olympic Torch WEST

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 20 Feb 1996 20:20:15 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"bruninga@nadn.navy.mil" <bruninga@nadn.navy.mil> (Return requested)
Message-ID: <06F2F312A9D7F033*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Southern California has an excellent (and growing) APRS presence on 145.79 which can right now cover most of the route from Santa Monica to east of San Diego. By summertime, I expect that the coverage will even be better, with added high-level stuff to improve coverage. It will be tough though, once you go east of Jacumba as there's no activity from that part of eastern San Diego county all the way to Phoenix. Strategically placed machines at the top of the west escarpment of the Imperial Valley (Mt Laguna, Monument Pk, etc) and at Telegraph Pass east of Yuma would extend the coverage all the way to about 100-150 miles from Phoenix. What's going on in Arizona?

When coming back into California from Nevada there's currently no coverage from LV all the way to about Barstow, then there's some coverage on 145.01? into the central valley.

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6926] Olympic Torch WEST
Author: bruninga@nadn.navy.mil at Internet
Date: 2/20/96 3:54 PM

Enclosed is a BACKUP file of the route of the Olympic Torch from 27 April to May 15th out in the WEST. (LA to Denver)... Cut it out and place it in your BAKS directory. Then you can FILES-LOAD it to see the route. Look on the P-LIST and you will see that some of the legs are by train..

WE DO NOT KNOW IF APRS will be on the torch entourage, but we are working on it via sensitive negotiations. Do not meddle in any such negotiations, but start getting READY! This is the route, and please be sure that your City has good APRS digipeater coverage through your town and in between! I will post the rest of the USA when we finish them...

```
-------------------CUT HERE ----------------- & save as TORCHW.bk
c, 40.234 , 114.906 , 512
l,W3ADO     051329 @051329/APRS 7.3d on line.
p,LAngeles  291541 *291541/3402.99N/11811.88W/April 27th
p,S.Monica  291542 *291542/3401.07N/11830.12W/April 27th
p,MnhttnBch 291544 *291544/3352.91N/11823.87W/April 27th
p,HuntBch   291546 *291546/3344.27N/11804.67W/April 27th
p,LagunaBch 291548 *291548/3332.75N/11747.39W/April 28th
p,CapistBch 291559 *291559/3324.59N/11737.28W/April 28th
p,Oceanside 291612 *291612/3311.62N/11723.83W/April 28th
```

```
p,Carlsbad  291613 *291613/3309.70N/11720.95W/April 28th
p,DelMar    291614 *291614/3258.42N/11715.66W/April 28th
p,LaJolla   291615 *291615/3250.73N/11715.89W/April 28th
p,SanDiego  291618 *291618/3241.84N/11706.05W/April 28th
p,OtayLakes 291620 *291620/3237.27N/11655.02W/April 28-29
p,Jacumba   291622 *291622/3237.26N/11609.65W/April 29th
p,Calexico  291646 *291646/3240.32N/11528.96W/April 29th
p,Yuma      291649 *291649/3243.92N/11436.64W/April 29-30th train
p,Phoenix   291651 *291651/3333.35N/11210.22W/April 30th
p,SunCity   291654 *291654/3345.82N/11230.37W/April 30th
p,Kingman   291656 *291656/3512.99N/11402.22W/April 30-1st
p,Boulder   201628 *201628/3559.98N/11447.52W/May 1st
p,Henderson 201631 *201631/3603.82N/11459.03W/May 1st
p,Las Vegas 201632 *201632/3610.06N/11508.62W/May 1st train
p,Barstow   201634 *201634/3453.26N/11700.93W/May 2nd train
p,Santa Barb201636 *201636/3427.33N/11950.85W/May 2nd train
p,San luis O201639 *201639/3518.21N/12039.80W/May 2nd train
p,San Jose  201651 *201651/3719.76N/12153.34W/May 2nd train
p,Santa Clar201645 *201645/3721.44N/12156.95W/May 3rd
p,Sunnyvale 201655 *201655/3723.13N/12203.66W/May 3rd
p,San Mateo 201713 *201713/3733.69N/12219.50W/May 3rd
p,Foster Cit201714 *201714/3734.04N/12216.49W/May 3rd
p,SanFran   291701 *291701/3744.66N/12225.09W/May 3-4th
p,Napa      291705 *291705/3814.42N/12217.41W/May 5th p,Davis
    291707 *291707/3832.18N/12144.29W/May 4th p,Sacrament
291708 *291708/3834.09N/12128.26W/May 4th   train p,Redding
301550 *301550/4034.80N/12222.49W/May 4-5th train p,KlamthFal
301555 *301555/4210.79N/12147.92W/May 5th   train p,Eugene
301558 *301558/4350.62N/12300.88W/May 5th p,Corvallis 301559
*301559/4438.61N/12302.80W/May 5th
p,Salem     301601 *301601/4459.96N/12255.36W/May 5th
p,OregonCty 301604 *301604/4521.06N/12237.58W/May 5th
p,Portland  301604 *301604/4531.61N/12238.54W/May 5-6th
p,St.Helens 301606 *301606/4552.24N/12250.05W/May 6th
p,ColumbCty 301615 *301615/4553.20N/12250.05W/May 6th
p,Rainier   301617 *301617/4603.75N/12256.77W/May 6th
p,Longview  301618 *301618/4608.54N/12256.77W/May 6th
p,Centralia 301620 *301620/4642.61N/12257.96W/May 6th
p,Olympia   301621 *301621/4704.68N/12253.16W/May 6-7th
p,Tacoma    171725 *171725/4713.91N/12226.39W/May 7th
p,Gig Hrbr  171726 *171726/4719.67N/12235.51W/May 7th
p,Bremerton 171727 *171727/4735.03N/12241.26W/May 7th
p,Seattle   171727 *171727/4738.39N/12219.65W/May 7th & 8th
p,Renton    171728 *171728/4729.74N/12212.92W/May 8th
p,Yakima    171729 *171729/4634.06N/12028.28W/May 8th
p,Pendleton 171735 *171735/4538.38N/11846.52W/May 8th & 9th train
p,Boise     171731 *171731/4331.65N/11609.08W/May 9th train
p,Pocatello 171732 *171732/4255.16N/11226.35W/May 9th train p,Ogden
   171736 *171736/4117.24N/11159.46W/May 9th train & 10th p,N.SaltLk
 171734 *171734/4056.11N/11153.70W/May 10th
p,SaltLkCty 171734 *171734/4043.63N/11153.69W/May 10th & 11th
p,Echo      301625 *301625/4056.03N/11123.88W/May 11th
p,Cheyenne  301627 *301627/4105.62N/10450.28W/May 11th
p,Greeley   301629 *301629/4029.39N/10432.28W/May 12th p,Denver
   301631 *301631/3943.31N/10455.31W/May 12th p,ClrdoSprg
301632 *301632/3849.55N/10447.63W/May 12-13th p,Limon
301636 *301636/3916.42N/10346.18W/May 13th p,Brush     301637
*301637/4017.85N/10338.50W/May 13th p,Sterling  301639
*301639/4044.72N/10300.10W/May 13th
p,Ovid      301642 *301642/4052.39N/10237.06W/May 13th
p,Julesburg 301643 *301643/4058.15N/10223.62W/May 13th
p,Kearney   301645 *301645/4035.11N/09837.05W/May 14-15th
r,TIME * TICK:02-06-1996 16:26:29
```

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476. RE: [APRSSIG:6913] I'm Not Running WIN31 Thank You!

From: steve@muskoka.com
Date: Tue, 20 Feb 96 23:21:40 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.960220232753.Steve@steve.muskoka.com>
Rendered body type: text/plain

On Tue, 20 Feb 1996 06:51:01 -0600 (CST) Holstein's wrote:
>Received: from tapr.org (tapr.org [206.210.220.85]) by gold.muskoka.com (8.6.12/8.6.9) with ESMTP id IAA24565 for <steve@muskoka.com>; Tue, 20 Feb 1996 08:38:22 -0500
>Received: from tapr.org (localhost [127.0.0.1]) by tapr.org (8.7.3/8.7.3/1.8) with SMTP id GAA06013; Tue, 20 Feb 1996 06:51:01 -0600 (CST)
>Date: Tue, 20 Feb 1996 06:51:01 -0600 (CST)
>Message-Id: <199602201239.HAA08300@mail.erols.com>
>Reply-To: aprssig@tapr.org

>Originator: aprssig@tapr.org
>Sender: aprssig@tapr.org
>Precedence: bulk
>From: "Holstein's" <holstein@erols.com>
>To: aprssig@tapr.org
>Subject: [APRSSIG:6913] I'm Not Running WIN31 Thank You!
>X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
>X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
>Content-Type: text/plain; charset="us-ascii"
>X-Mailer: Windows Eudora Light Version 1.5.2

>I get no recieve or transmit and when I try to open the VHF TNC port I get
>an error. I've checked my Windows Serial port settings and they are correct
>for COM2 and are the same as my TNC is set for.
>
Greetings,

I have been watching your demise for a while now. Sounds identical to the problem I was having with tpk a couple of yrs ago. I found that the baud rate was at fault. It appears your computer is not talking to the tnc..
Same thing I went through.. I had baud rate set too low for the program even though both the tnc and computer were set the same. As soon as I set the baud up to a faster pace everything communicated.. I would go over your baud setting on both the computer and tnc again.. Maybe just maybe ...Hi..:-)

Regards....de Steve VA3HOI

---

477. Re: Ft Worth Cowtown Marathon Maps

From: William Neal <wmn3@dfw.net>
Date: Tue, 20 Feb 1996 23:46:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960220234421.1a6f5912@dfw.net>
Rendered body type: text/plain

At 13:19 2/19/96 -0600, Robert Winingham wrote:
>> The zip file with maplist.ftw and 15 1 mile Maps
>> Thank you to those of you that have sent messages on how to build maps.
>> Ft Worth Cowtown Marathon Maps
>
>Take a look !!!
>
>Mike has done a very exelent job with these maps and has
>customized them with MANY labels for the Marathon special event.
>
>I now wish I had done something like that with the Dallas
>White Rock Marathon.PC maps that Bill KE4EER sent me.
>   ### (Thanks again Bill) ###
>
>
>73
>
>Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
>
>
>

I'd like to use those neat new maps... But for some reason once I "M C" to the "FTW" extension (Maplist.ftw) or the "TX" extension (maplist.tx) the screen goes blank (shows only APRS dialog boxes) once it calls the Dallas map up.

I even tried to "*" comment out the TXDallas.map, on the FTW and TX maplist files... No luck. Anyone have suggestions?
William Neal, Sgt, USAF (Ret.)
----
wmn3@dfw.net

P.O. Box 1433
Hurst, TX 76053-1433

Home 817-788-8550
Page 817-452-9787

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478. RE: [APRSSIG:6930] SA

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 21 Feb 1996 01:56:01
To: APRSSIG@tapr.org
Message-ID: <199602210656.BAA06075@mail-e2a-service.gnn.com>
Rendered body type: text/plain

```
On Monday, Feb. 19 Larry Griffin asked:

>I've heard that the DOD is going to turn off GPS SA
>May 1, 1996! Is there any truth to this?

 On Monday, Feb. 19 Steve Dimse replied:

>Congress did pass a law requiring them to do this, but
>there is a loophole. This date can be extending if prior
>to this date DOD provides congress with a timetable for
>R&D of an alternate jamming method. There is no limit
>on when this R&D needs to be completed, so if DOD says
>we'll do it in 10 years, they don't need to turn the SA
>off. What do you think is going to happen???

     I think you hit the nail on the head, Steve.  But
let me put in MY two cents (for which I expect to have
my head handed to me!)

     While we no longer live in a world in which we're
scared about the rooskies blowing us to kingdom come,
there are still plenty of loonies out there who'd just
LOVE to lob some black-market ukrainian nukes at us.
So despite the obvious advantages shutting off SA would
be for you and I, Joe & Jane Ham, I must disagree with
what amounts to giving away some of our (and I know
you're going to groan at this one) national security.

     I think the question is this: Does the average ci-
tizen actually NEED the accuracy provided by undiluted
GPS positioning?  If the difference is "only" 300 feet,
is that (not including projects such as cows in space,
and other business and research work, for which allow-
ances have already been made) REALLY crucial to you and
me?  While it's nice to track something (or yourself)
with such precision, I'd rather sleep better.


Arte Booten  (N2ZRC@aol.com)  OR  (N2ZRC@gnn.com)
 (Packet Radio:  N2ZRC@N2NSA.#BRONX.NY.USA.NA)
***Packet Radio address for non-commericial use only***
  ***and must be limited to ASCII files less than 2 kb.***
```

---

479. Re: [APRSSIG:6922] Re: Portland, OR

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Wed, 21 Feb 1996 06:57:20 -0600
To: aprssig@tapr.org
Message-ID: <9602211257.AA16074@omnifest.uwm.edu>
Rendered body type: text/plain

```
>Does anyone have detailed maps of Portland, OR created?


I will create them tonight and put them up on TAPR and RUTGERS..

Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home

        WOW!!!!  Talk about "customer service"!
        We are talking FANTASTIC people here!
Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu
```

---

480. Re: [APRSSIG:6933] Re: Ft Worth Cowtown Marathon Maps

From: Mike Heskett <mheskett@StarText.NET>
Date: Wed, 21 Feb 1996 09:04:05 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602211504.JAA24018@lepton.startext.net>
Rendered body type: text/plain

```
At 11:52 PM 2/20/96 -0600, you wrote:

>>
>
>I'd like to use those neat new maps... But for some reason once I "M C" to
```

>the "FTW" extension (Maplist.ftw) or the "TX" extension (maplist.tx) the
>screen goes blank (shows only APRS dialog boxes) once it calls the Dallas
>map up.
>
>I even tried to "*" comment out the TXDallas.map, on the FTW and TX maplist
>files... No luck. Anyone have suggestions?
>William Neal, Sgt, USAF (Ret.)
>---------------------
>wmn3@dfw.net
>---------------------
>
>
The distributed maplist was cloned from the maplist.tx and maps from
CMAPS03.ZIP. There is also a
TXMAPS01.ZIP file and this may be where the modified Dallas map came from.
You could copy the
maplist entries for the 15 maps and insert them in your maplist.
Sorry.

Mike
WB5QLD

---

481. Re: [APRSSIG:6935] Re: Portland, OR

From: dwetzel@uswest.com
Date: Wed, 21 Feb 1996 09:33:16 -0600
To: aprssig@tapr.org
Message-ID: <12b3df30@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

>Does anyone have detailed maps of Portland, OR created?

I will create them tonight and put them up on TAPR and RUTGERS..

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

This is a FANTASTIC map of the Portland/Vancouver area! Many Thanks!

Doug
KC7CO

---

482. Re: [APRSSIG:6934] RE: SA

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 21 Feb 1996 08:48:03 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960221082404.106G-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

On Wed, 21 Feb 1996, Arte Booten wrote:

>
> I think the question is this: Does the average ci-
> tizen actually NEED the accuracy provided by undiluted
> GPS positioning?

While gps may be an affordable toy for yourself, a large percentage of
units are in the hands of citizens who rely on them as an aid to navigation.
In low visibility conditions the difference in accuracy can become a life
or death issue. Returning to port without seeing either side of the harbor
entrance is something I have experienced but not enjoyed. Accurate gps
positioning also means that we can now use the gps as an anchor alarm.
No prudent navigator relys on any one device but there are times when you
may have to gamble your life and the lives of others on your best card.

Bob - wd6dod
skipper "Stormy Petrel"
hwm@netcom.com

---

483. Screen Capture

From: dwetzel@uswest.com
Date: Wed, 21 Feb 1996 10:47:42 -0600
To: aprssig@tapr.org
Message-ID: <12b4f750@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Some weeks ago there was a thread regarding screen captures and a utility to do them in DOSAPRS - which I have unwisely discarded.

If anyone has that discussion archived, I would appreciate a direct email -

Thanks!!

Doug
dwetzel@uswest.com
KC7CO

---

484. Re: [APRSSIG:6939] Screen Capture

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 21 Feb 1996 13:19:13 -0600
To: aprssig@tapr.org
Message-ID: <199602211919.NAA06953@tbc2.tbcnet.com>
Rendered body type: text/plain

Doug, the name of the utility is GRABBER, which, I think is on TAPR.

You can do the same thing (almost), if you have Windows. Start Windows, start APRS within Windows. Bring up a map you want, then hit "ALT-Prt Scrn". The image will go to the Clipboard, then you can go to Paintbrush, or a Gif viewer program within Windows, paste from the clipboard, and save it the way you want.

>Some weeks ago there was a thread regarding screen captures and a utility
to do
>them in DOSAPRS - which I have unwisely discarded.
>
>If anyone has that discussion archived, I would appreciate a direct email -
>
>Thanks!!
>
>Doug
>dwetzel@uswest.com
>KC7CO
>

---

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com

http://tbcnet.com/~jleonard/n9vjq.htm

---

485. Re: [APRSSIG:6938] RE: SA

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 21 Feb 1996 13:58:52 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602211958.NAA19695@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Lorenzini sez:

> While gps may be an affordable toy for yourself, a large percentage of
> units are in the hands of citizens who rely on them as an aid to navigation.
> In low visibility conditions the difference in accuracy can become a life
> or death issue. Returning to port without seeing either side of the harbor
> entrance is something I have experienced but not enjoyed. Accurate gps
> positioning also means that we can now use the gps as an anchor alarm.
> No prudent navigator relys on any one device but there are times when you
> may have to gamble your life and the lives of others on your best card.

To which end you've missed a point. Differential correction is available with relatively low cost solutions for reception. If your requirement for precision is such that you would benefit from removal of the SA-induced error, I suspect you would be much better served by DGPS wherein the errors are corrected on the fly. It also offers you better accuracy than de-dithering would.

I can take either side of the SA on-off issue. However, if you do not understand the limitations of common mode navigational and positional error within the system and the preferential methods for countering it, you should not discuss just how much better your track histories will be with SA off vice on.

Gerry

---

486. SA

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 21 Feb 1996 14:59:55
To: APRSSIG@tapr.org
Message-ID: <199602212000.PAA21660@mail-e2a-service.gnn.com>
Rendered body type: text/plain

Hoo boy! I knew I was opening up a can of worms. My earlier posting was obviously MHO, and I humbly and publicly concede to your arguments for shutting off SA before this thread gets out of hand.

As I operate APRS from my shack, not mobile, and don't own a GPS unit, I was expressing an opinion based on looking in from the outside. I can now see some of the many advantages of having such accuracy and thank those who posted all those responses for your experiences. 73

PS: I got my exact latitude and longitude from DeLorme Street Atlas USA V. 3.0, which is accurate to 1/100 minute, and doesn't seem to suffer from SA dilution 8-{)

Arte Booten (N2ZRC@aol.com) OR (N2ZRC@gnn.com)
(Packet Radio: N2ZRC@N2NSA.#BRONX.NY.USA.NA)
Packet Radio address for non-commericial use only
and must be limited to ASCII files less than 2 kb.

---

487. re: SA and on/off

From: "Baker, Donn B RV" <dbb4@PO7.RV.unisys.com>
Date: Wed, 21 Feb 96 15:56:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <312B958F@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

Just to start an argument.....

As a part of the recent (current ?) discussion about SA being turned off, Gerry wrote:

"Differential correction is available with relatively low cost solutions for reception."

That is correct, as we all know. The US Coast Guard transmits correction data for boats; the FAA is talking about transmitting correction data for aircraft; and in most cities, you can subscribe to a "MUZAK"-like service for the data.

HOWEVER.... If its so easy and cheap to "defeat" the supposed security of SA, what good is it ? Are you trying to say that a terrorist won't use differential correction because its "spoiled ?" I'm sure that that is NOT any kind of deterent. Besides, there are a LOT easier and cheaper ways of delivering ANY kind of device... HE, nuclear, or CBW, than with an airplane, or boat with GPS controlling an autopilot.

Much more importantly, why are two government agencies spending goverment dollars to UNDO something that another government agency is doing ???

I think that the problem is that technology has overtaken the original system design. In the late '60's, when originally designed, GPS receivers were expected to be VERY expensive and complex. The military could afford them because they had to. Civilians certainly would not. That's VERY far from the reality of today. The rules changed, but the bureaucrats didn't!

73 de Donn
WA2VOI EN35ja

---

488. Re: [APRSSIG:6941] RE: SA

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 21 Feb 1996 13:55:39 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960221131334.122C-100000@mm.wd6dod.ampr.org>

Rendered body type: text/plain

```
On Wed, 21 Feb 1996, Gerald J Creager wrote:

> To which end you've missed a point.  Differential correction is available with
> relatively low cost solutions for reception.  If your requirement for
> precision is such that you would benefit from removal of the SA-induced error,
> I suspect you would be much better served by DGPS wherein the errors are
> corrected on the fly.  It also offers you better accuracy than de-dithering
> would.

  Differential is only available in selected areas. If one is in a area
where one must use a suscription service it is by now means low cost. In
addition having to now rely (purchase) two receivers does improve
reliability.


> I can take either side of the SA on-off issue.  However, if you do not
> understand the limitations of common mode navigational and positional error
> within the system and the preferential methods for countering it, you should
> not discuss just how much better your track histories will be with SA off vice
> on.
>
> Gerry

  That sounds like just so much technobable Gerry. I'am well aware of the
limitation of gps accuracy having the opportunity to use gps plotting on a
real USGS chart while observing my position over long periods of time, but
that does not alter the fact that most mariners like myself will enjoy
an improvement by a factor of one 95% of the time without SA. May I remind
you of the incident of the tug towing the barge which hit a bridge in low
visibility which caused the wreak of the amtrack train with loss of life.
One of he conclusions of the NTSB board was that if the tug had accurate
gps positioning this incident could have been avoided. I don't wish to
engage in an offtopic debate on this and do not intend to reply to your
response but I could not resist presenting my opinion.

Bob
hwm@netcom.com
```

---

489. LISTS

From: firebird <firebird@idola.net.id>
Date: Thu, 22 Feb 1996 05:13:12 +0700
To: aprssig@tapr.org
Message-ID: <9602212213.AA17948@elang.idola.net.id>
Rendered body type: text/plain

[Empty message body]

---

490. Re: [APRSSIG:6906] Re: U-2000 manufacturing defect

From: schiers@ibm.net (Robert Schiers)
Date: Wed, 21 Feb 96 23:06:20
To: aprssig@tapr.org
Message-ID: <199602212309.XAA78870@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <3129611C.2208@onramp.net>, on 02/20/96 at 12:06 AM,
   Larry Griffin <largriff@onramp.net> said:

>David G. Henderson wrote:
>>
>> For those of you who purchased a Peet Bros. U-2000 before 1996, you may
>> to call Peet Bros about the manufacturing defect that they experienced w
>> the Temp/Humidity sensor.
>>
>> The sensor and the cable junction box will be replaced (free I'm told).
>> Temp, humidity and barometer are inaccurate with units that were shipped

>That's good to know!  I ordered my U-2000 upgrade in late December and
>got it  in early January.  The Temp/Humidity accuracy has been pretty
>bad, off by  as much as 10 degrees and 40%.  But the barometer seems
>quite good, usually  within .01" or .02", compared to readings from NWS 8
>miles from my QTH.

>Larry Griffin  AB5GE  <largriff@onramp.net>

What does the Temp/Humidity sensor have to do with the barometer? I
bought my U-2000 before Xmas, but did not buy the outside temp/humidity
sensor. I have noticed NO problems whatever with the barometer (whose
```

sensor is inside the indoor display unit). Can anyone else verify this
claim that the barometer is inaccurate with untis that were shipped prior
to Jan 1, 1996? I don't get the connection between the two sensors..they
are completely different devices and located in two housings (one inside
and the other outside).

hasan schiers, N0AN
----
schiers@ibm.net
----

491. Re: [APRSSIG:6939] Screen Capture

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Wed, 21 Feb 1996 18:12:21 -0000
To: aprssig@tapr.org
Message-ID: <199602212312.RAA17075@tapr.org>
Rendered body type: text/plain

On 21 Feb 96 at 12:04, dwetzel@uswest.com wrote:

> Some weeks ago there was a thread regarding screen captures and a
> utility to do them in DOSAPRS - which I have unwisely discarded.
>
> If anyone has that discussion archived, I would appreciate a direct
> email -
>
> Thanks!!
>
> Doug
> dwetzel@uswest.com
> KC7CO
>

ME too!   Like HE said......
Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM

492. Re: [APRSSIG:6947] Re: Screen Capture

From: ke4eer@AIRnet.net (William Nolle)
Date: Wed, 21 Feb 1996 20:01:33
To: aprssig@tapr.org
Message-ID: <199602220205.UAA25196@foo.garply.com>
Rendered body type: text/plain

I have re-posted GRABBER.ZIP unto the TAPR site, i don't know why it was
deleted. By the way included you will find a file named KE4EER.EXE captured
with grabber, run it and see our APRS activity in the area. And have fun!.

Bill KE4EER

>On 21 Feb 96 at 12:04, dwetzel@uswest.com wrote:
>
>> Some weeks ago there was a thread regarding screen captures and a
>> utility to do them in DOSAPRS - which I have unwisely discarded.
>>
>> If anyone has that discussion archived, I would appreciate a direct
>> email -
>>
>> Thanks!!
>>
>> Doug
>> dwetzel@uswest.com
>> KC7CO
>>
>
>
>ME too!   Like HE said......
>Sam Nabkey - WJ8T
>Internet: snabkey@wingsbbs.com
>amprnet: wj8t@w8dc.ampr.org
>AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
>
>

493. Re: [APRSSIG:6946] Re: U-2000 manufacturing defect

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Wed, 21 Feb 1996 21:28:24 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960222022824.0068828c@mail.one.net>
Rendered body type: text/plain

```
Frankly, I'm kind of curious too!  I also bought only the upgrade kit for
the U2000.  I use the existing temp senosr without humidity.  I guess I'd
have to say I don't really know if the barometer is accurate.  To be honest,
I don't see a correlation either.

Bob
N8NGA





At 05:16 PM 2/21/96 -0600, you wrote:
>In <3129611C.2208@onramp.net>, on 02/20/96 at 12:06 AM,
>   Larry Griffin <largriff@onramp.net> said:
>
>>David G. Henderson wrote:
>>>
>>> For those of you who purchased a Peet Bros. U-2000 before 1996, you may
>>> to call Peet Bros about the manufacturing defect that they experienced w
>>> the Temp/Humidity sensor.
>>>
>>> The sensor and the cable junction box will be replaced (free I'm told).
>>> Temp, humidity and barometer are inaccurate with units that were shipped
>
>>That's good to know!  I ordered my U-2000 upgrade in late December and
>>got it  in early January.  The Temp/Humidity accuracy has been pretty
>>bad, off by  as much as 10 degrees and 40%.  But the barometer seems
>>quite good, usually  within .01" or .02", compared to readings from NWS 8
>>miles from my QTH.
>
>>Larry Griffin  AB5GE  <largriff@onramp.net>
>
>What does the Temp/Humidity sensor have to do with the barometer? I
>bought my U-2000 before Xmas, but did not buy the outside temp/humidity
>sensor. I have noticed NO problems whatever with the barometer (whose
>sensor is inside the indoor display unit). Can anyone else verify this
>claim that the barometer is inaccurate with untis that were shipped prior
>to Jan 1, 1996? I don't get the connection between the two sensors..they
>are completely different devices and located in two housings (one inside
>and the other outside).
>
>hasan schiers, N0AN
>-----------------------------------------------------------
>schiers@ibm.net
>-----------------------------------------------------------
>
>
FROM MY WORLD
    ----TO YOUR WORLD
           ----THROUGH THE VIRTUAL WORLD

"NEVER PART WITHOUT LOVING WORDS TO THINK OF DURING
YOUR ABSENCE.  IT MAY BE THAT YOU WILL NOT MEET AGAIN
IN LIFE"...........JOHN PAUL RICHTER
```

---

494. Re: [APRSSIG:6946] Re: U-2000 manufacturing defect

From: W2HOB@aol.com
Date: Wed, 21 Feb 1996 21:40:01 -0500
To: aprssig@tapr.org
Message-ID: <960221213958_228149849@mail06.mail.aol.com>
Rendered body type: text/plain

```
For all interested in the U-2000 inaccuracies...

I experienced probelms with OUTSIDE TEMP and OUTSIDE HUMIDITY
as others on the SIG have noted. BAROMETER tracked ok  with info put
out by the Weather Channel and local airports. The Barometer is
UNAFFECTED.

I called Peet Bros and the nice lady said early TEMP sensors never
received a coating of protective spray so it will be replaced FREE. The
early HUMIDITY sensors required a capacitor in the junction box which
it didn't receive. On demand, PEET is replacing both sensors FREE but
```

```
at NET 30 cause they want the inaccurate devices mailed back and if
they don't receive them in 30-days, you'll be billed for the NEW sensors.
Mine are already pack up and will be mailed before I even get their
replacements.

I have dealt with PEET BROS on several ocassions and I have nothing
but good things to say about those folks. They stand behind their products.

73 de Boyd
w2hob@aol.com
```

---

495. PKZipFix

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Wed, 21 Feb 1996 20:08:46 -0800
To: aprssig@tapr.org
Message-ID: <199602220408.UAA26902@poseidon>
Rendered body type: text/plain

```
Hi Youall,
    Anyone on the sig can advise where I can locate a shareware copy of the
PKZipFix program ?.
    When tryng to un-zip several APRS Map programs lately, I get the following
error message:
    " Searching ZIP: WMAPS07.ZIP
      PKUNZIP: (WO4) Warning! WMAPS07.ZIP - error in ZIP use PKZipFix

      PKUNZIP: (E11) No file(s) found. "

Tried several combinations trying to get maps unziped, but no luck. Can anyones
on the sig advise, where to obtain PKZipFix, thanks in advance.
    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN
WBB/WB6LPG
```

---

496. Re: [APRSSIG:6950] Re: U-2000 manufacturing defect

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Wed, 21 Feb 1996 23:28:26 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960222042826.00680924@mail.one.net>
Rendered body type: text/plain

```
My experience as well!  I've had there equipment for several years.
*************************************************************************
At 08:50 PM 2/21/96 -0600, you wrote:
>For all interested in the U-2000 inaccuracies...
>
>I experienced probelms with OUTSIDE TEMP and OUTSIDE HUMIDITY
>as others on the SIG have noted. BAROMETER tracked ok  with info put
>out by the Weather Channel and local airports. The Barometer is
>UNAFFECTED.
>
>I called Peet Bros and the nice lady said early TEMP sensors never
>received a coating of protective spray so it will be replaced FREE. The
>early HUMIDITY sensors required a capacitor in the junction box which
>it didn't receive. On demand, PEET is replacing both sensors FREE but
>at NET 30 cause they want the inaccurate devices mailed back and if
>they don't receive them in 30-days, you'll be billed for the NEW sensors.
>Mine are already pack up and will be mailed before I even get their
>replacements.
>
>I have dealt with PEET BROS on several ocassions and I have nothing
>but good things to say about those folks. They stand behind their products.
>
>73 de Boyd
>w2hob@aol.com
>
>
FROM MY WORLD
    ----TO YOUR WORLD
           ----THROUGH THE VIRTUAL WORLD

"NEVER PART WITHOUT LOVING WORDS TO THINK OF DURING
YOUR ABSENCE.  IT MAY BE THAT YOU WILL NOT MEET AGAIN
IN LIFE"..........JOHN PAUL RICHTER
```

---

497. Re: U-2000 manufacturing defect

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 21 Feb 1996 23:07:22 -0600

To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB00B2.41308C60@toshy>
Rendered body type: text/plain

There has NOT been any problem with the barometers in Ultimeter 2000s.

There WAS a problem with some of the early outdoor temp/humidity sensors and the junction boxes that were ordered before the end of '95.

The temp/humidity sensors did not have conformal coating on the sensor leads and were subject to errors caused by condensation between the leads. To avoid this problem new sensors are coated after the leads are soldered.

The junction boxes were allowing a small amount of AC coupling to feed into the sensor, causing temp readings to be a few degrees high. This was resolved with the addition of a bypass capacitor.

Both items are being replaced free, provided you return the original parts within 30 days.

Larry Griffin <largriff@onramp.net>

---

498. U-2000 in remote packet operation

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 21 Feb 1996 23:13:31 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB00B2.430E2600@toshy>
Rendered body type: text/plain

How many people are using or intend to use Ultimeter 2000s in remote packet mode?

Please reply direct to <largriff@onramp.net>
Larry Griffin

---

499. Manual WX Reporting

From: JohnN2YHK@aol.com
Date: Thu, 22 Feb 1996 00:20:12 -0500
To: aprssig@tapr.org
Message-ID: <960222002011_150424066@emout08.mail.aol.com>
Rendered body type: text/plain

Hello All,

I am new to APRS (2 wks old), and just have a quick question.

When I manually input WX reports in APRS75, I enter W-E and put in my report.

I notice that it changes my Posit and Beacon lines. It removes my old beacon text and enters the Comments field from WX, and my posit line only contains WX info.

Is there a way to keep my original posit and beacon lines and enter WX reports (i.e. R000/T000.....) as well?

I have to currently change them back manually. And if it has anything to do wirh it... I am not currently a registered user (as I said, I am new to this aspect of packet).

TNX!

73 de John, N2YHK

```
Packet:        N2YHK @ WB2QJA.#ENY.NY.USA.NA
Internet:      n2yhk@weca.org                          <--- NEW ADDRESS !!!
               JohnN2YHK@aol.com
               hsku28b@prodigy.com
              John.Ruggiero@2625-111.mx1.fidonet.org <--- CHANGED ADDRESS !!!
WWW Site:      http://pages.prodigy.com/n2yhk    <--- NEW SITE / NEW PAGE !!!
TaPARC E-Mail: TaPARC@aol.com
```

---

500. Re: [APRSSIG:6951] PKZipFix

From: ku0g@sprynet.com
Date: Wed, 21 Feb 1996 21:38:37 -0800
To: aprssig@tapr.org
Message-ID: <199602220538.VAA12606@sprynet.com>
Rendered body type: text/plain

Bill...

If nobody else can point you in the direction, let me know and I'll post a copy of it for you there!!

```
73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
Alt. EMail:  102413.375@compuserve.com
Packet:  KU0G @ KU0G.#NWMO.MO.USA.NOAM
```

---

501. Re: [APRSSIG:6951] PKZipFix

From: schwab@cent.com (Chris Schwab)
Date: Thu, 22 Feb 1996 01:06:02 -0500
To: aprssig@tapr.org
Message-ID: <199602220607.AAA23235@ns.cent.com>
Rendered body type: text/plain

```
>Hi Youall,
>    Anyone on the sig can advise where I can locate a shareware copy of the
>PKZipFix program ?.
>    When tryng to un-zip several APRS Map programs lately, I get the following
>error message:
>    " Searching ZIP: WMAPS07.ZIP
>      PKUNZIP: (WO4) Warning! WMAPS07.ZIP - error in ZIP use PKZipFix
>
>      PKUNZIP: (E11) No file(s) found. "
>
>Tried several combinations trying to get maps unziped, but no luck. Can anyones
>on the sig advise, where to obtain PKZipFix, thanks in advance.
>    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
>NNNN
>WBB/WB6LPG

PKZIPFIX should come with the pkz204g.exe package. Try the following steps,
and see
if it works ... If not, you can contact me via email , and I will email you the
program ...

Try this if you can't get a good copy of WMAPS07.ZIP ...

At a dos prompt, type "PKZIPFIX WMAPS07.ZIP" then press enter.

This will create a file called "PKFIXED.ZIP" .. Try unziping that. That should
solve your problems.

73 Chris



=======================================================
                  Chris Schwab
          KD4PHS @ W4DPH.#TPA.FL.USA.NOAM
                kd4phs@amsat.org
  Assistant Scoutmaster Boy Scout Troop 488 Largo FL
             http://cent.com/schwab
         Sysop Odyssey BBS (813)319-0398
      Fidonet : 1:3603/73 -or- 1:3603/20030
=======================================================
```

---

502. Change of internet address

From: Robert Abrams <KI6MP@mci.newscorp.com>
Date: Thu, 22 Feb 1996 01:13:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199602220613.BAA22018@camus.iguide.com>
Rendered body type: text/plain

```
My new internet address is:

rgabrams@delphi.com

Please change ASAP
```

---

503. Re: [APRSSIG:6947] Re: Screen Capture

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 22 Feb 1996 02:04:07 -0600
To: aprssig@tapr.org
Message-ID: <v02130501ad51d18dc4c8@[199.1.11.116]>
Rendered body type: text/plain

I have just used Command-Shift-3 for the last 12 years.   :-)

When you upload files to TAPR APRSSIG upload area it might help if
you also upload a .txt file telling what it is. This way the file
house cleaning file robot might not remove it.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

504. Re: Peet Bros. U-2000

From: Bob Sayers <bsayers@implex.co.uk>
Date: Thu, 22 Feb 96 10:32:07 GMT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.960222103419.bsayers@>
Rendered body type: text/plain

>>I have dealt with PEET BROS on several ocassions and I have nothing
>>but good things to say about those folks. They stand behind their products.
>>

I couldn't agree more - they were happy to ring me in the UK (where their
products are not currently sold) to talk about my order!

regards,

Bob

```
--------------------------------------------------------
Bob Sayers, West Midlands Emergency Planning Unit,
West Midlands Fire Service, Lancaster Circus, Birmingham
eMail:                                        bsayers@epline.implex.co.uk
Telecom Gold/Copost:           10092:LLA3058
AX.25:                                      G8IYK
ampr:                                        g8iyk
'phone:     0121-380-7611               fax:  0121-359-5108
Date: 02/22/96                    Time: 10:32:07
--------------------------------------------------------
```

505. Re: [APRSSIG:6951] PKZipFix

From: jneely@eden.com (Jim Neely)
Date: Thu, 22 Feb 96 07:02:33 EST
To: aprssig@tapr.org
Message-ID: <199602221302.HAA29268@matrix.eden.com>
Rendered body type: text/plain

PKZIPFIX is part of the package with PKZIP. Look for PKZ201.exe.

jn

On Wed, 21 Feb 1996 22:27:46 -0600 (CST) you wrote:

>Hi Youall,
>   Anyone on the sig can advise where I can locate a shareware copy of the
>PKZipFix program ?.
>   When tryng to un-zip several APRS Map programs lately, I get the following
>error message:
>   " Searching ZIP: WMAPS07.ZIP
>   PKUNZIP: (WO4) Warning! WMAPS07.ZIP - error in ZIP use PKZipFix
>
>   PKUNZIP: (E11) No file(s) found. "
>
>Tried several combinations trying to get maps unziped, but no luck. Can anyones
>on the sig advise, where to obtain PKZipFix, thanks in advance.
>   73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
>NNNN
>WBB/WB6LPG
>
>

Jim Neely
jneely@eden.com WA5LHS@tapr.org

506. Re: [APRSSIG:6943] re: SA and on/off

From: Jack Warren <warren@uicc.com>
Date: Thu, 22 Feb 1996 08:48:16 -0500
To: aprssig@tapr.org
Cc: warren@nhEngMailHub.uicc.com
Message-ID: <96Feb22.085027est.5380-1@firewall.uicc.com>
Rendered body type: text/plain

```
Mr. Baker says:

"Besides, there are a LOT easier and cheaper ways of
delivering ANY kind of device... HE, nuclear, or CBW, than with an airplane,
or boat with GPS controlling an autopilot."

I'd probably do what they're doing right now; put the GPS RX on the bomb!!

Jack
```

---

507. Re: [APRSSIG:6815] RE: TEKK Radio

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 22 Feb 1996 06:55:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960222065316.28082E-100000@paccomm>
Rendered body type: text/plain

```
On Thu, 15 Feb 1996, Evan E. Idler wrote:

> Hi there, There is another radio very similar to the  TEKK radio
> Made By MAXON.  They make both a VHF and UHF radio. 2 and 5 watt
> versions.
>
> Both the VHF and UHF radios are capable of 9600 baud packet, and
> with the addition of a switch are cabable of 4 channels.  (The
> trim caps are also missing, but the board has spots for 4 pairs
> of XTALS.)
>
> The VHF radio is a DM-0510 (I can't remember for sure) and
> the UHF radio is a DM-0530 (I know for sure, I use one.)

VHF is DM-0515

>
> The radio's are a little larger than the TEKK radio's, but use
> the same DB-9 style data connector for the power/data, and the
> BNC antenna connector.

This radio was in discussion about 3 months ago on the SIG. I published
the MAXON specs here and there was a lot of discussion. However, not a
single order was placed by anyone.

Does anyone want the specifications again? Contact me directly.
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Gwyn Reedy, W1BEL            gwyn@paccomm.com           W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.    +(813) 874-2980  Fax:+(813) 872-8696
4413 N. Hesperides St.               BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA          info@paccomm.com  http://www.paccomm.com
```

---

508. Re: [APRSSIG:6955] Manual WX Reporting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 22 Feb 1996 09:11:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960222090921.19316H-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 21 Feb 1996 JohnN2YHK@aol.com wrote:

> When I manually input WX reports in APRS75, I enter W-E and put in my report.
> I notice that it changes my Posit and Beacon lines.  It removes my old beacon
> text and enters the Comments field from WX, and my posit line only contains
> WX info.
> Is there a way to keep my original posit and beacon lines and enter WX
> reports (i.e. R000/T000.....) as well?

WB4APR REPLY COMMENT:

NO.  Your Position report is a POSIT plus a comment field.  THe WX goes in
the comment field.
```

---

509. Great band opening

From: Jeff Ward <jward@gulf.net>
Date: Thu, 22 Feb 1996 08:35:00 -0600
To: aprssig@tapr.org
Message-ID: <199602221435.IAA05723@marlin.gulf.net>
Rendered body type: text/plain

The southeast and south has had a great 2m band-opening all night. Here in the
Florida panhandle I've got 80+ stations from South Florida, Georgia, Alabama,
Tennessee, North Carolina, South Carolina, and 5 or 6 stations in Texas (some
of whom I've heard direct)!!! Band openings are pretty frequent here, so
it's not that big a deal, but...I have NEVER seen any APRS stations in
Louisiana and Mississippi on 2m!!! Where are you guys?

Jeff Ward, N4TRY

---

510. Band Opening

From: deang@MAIL.SYNTRON.COM
Date: Thu, 22 Feb 96 08:39:16 CST
To: aprssig@tapr.org
Message-ID: <9601228250.AA825007156@MAIL.SYNTRON.COM>
Rendered body type: text/plain

Is everyone enjoying the same band conditions that we are? 2m has
been wide open from Texas to Florida for the past 2 days.

```
        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
```

---

511. RE: [APRSSIG:6954] U-2000 in remote packet operation

From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
Date: Thu, 22 Feb 96 09:52:00 PST
To: aprssig <aprssig@tapr.org>
Message-ID: <312CAD5D@ubmed.buffalo.edu>
Rendered body type: text/plain

Hi Larry:
I am trying to use the U2000 in the remote mode, as I did the U2.
When I first set it up, it locked up all the local aprs users software, and
since it was going thru a gate, I suspect it locked up stations all over!
Needless to say, it is now only beaconing, and not transmitting data, until
Bob has the software bug (DOS error 6 I think) resolved.
73, Greg, KE2VW

```
 ----------
|From: aprssig
|To: aprssig
|Subject: [APRSSIG:6954] U-2000 in remote packet operation
|Date: Wednesday, February 21, 1996 11:28PM
|
|How many people are using or intend to use Ultimeter 2000s in remote packet
|mode?
|
|Please reply direct to <largriff@onramp.net>
|Larry Griffin
|
|
```

---

512. Re: [APRSSIG:6941] RE: SA

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 22 Feb 1996 08:55:35 -0600
To: aprssig@tapr.org
Message-ID: <9602221455.AA32105@omnifest.uwm.edu>
Rendered body type: text/plain

Gerry,
A little on the sharp side maybe? How are we Dummies going to
learn if you don't help us? I too thought that if SA was turned off then
I could get 50' accuracy. In reading some of your messages I gather that
is not quite realistic.
In your "spare" time (between 3 and 4 in the morning) could you
explore some of the other options that you refer to?

Dave , N9UNR
dbarrow@omnifest.uwm.edu

---

513. Re: [APRSSIG:6942] SA

```
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 22 Feb 1996 09:04:45 -0600
To: aprssig@tapr.org
Message-ID: <9602221504.AA21256@omnifest.uwm.edu>
Rendered body type: text/plain
```

```
I tried to convince my XYL that the reason I NEEDED a GPS was to
get locations of repeaters for my "job" as repeater frequency coordinator
of Wisconsin.
        I too have started using "Streets & Alleys" <Street Atlas, USA>.

        Did you here about the Racine, WI repeater whose coordinates
placed it in the middle of Lake Michigan?  About on the WI-MI state
line on a line between Evanston and Benton Harbor......  Or the Wausau, WI
repeater that SA tells me is actually in a suburb of Detroit?

        You'd (we'll I do anyway) think that with all of the location
information available they could do better than that.

Dave Barrow, N9UNR
FC-WI   WAR/MACC
n9unr@execpc.com
dbarrow@omnifest.uwm.edu
```

514. Re: [APRSSIG:6969] Re: SA

```
From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Thu, 22 Feb 1996 16:32:22 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9602221532.AA19696@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain
```

```
David W. Barrow III writes:
>         Did you here about the Racine, WI repeater whose coordinates
> placed it in the middle of Lake Michigan?  About on the WI-MI state
> line on a line between Evanston and Benton Harbor......  Or the Wausau, WI
> repeater that SA tells me is actually in a suburb of Detroit?

Do you mean     ^^    "Streets & Alleys" or "Selective Availability?"
You state that SA is giving you totally bogus locations, but it's not
clear which "SA" you're talking about here!

--Shannon, DL6SEU
```

515. New Stuff!

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 22 Feb 1996 11:48:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960222113622.23136A-100000@greatlakes>
Rendered body type: text/plain
```

```
Just posted NEWFIX22.zip.  It has all new things since version 7.5:
Remember to always use PKUNZIP -d so that everything goes in the
correct directories...

* MAPFIX22 fixes the TASKS-IMPORT command so that the import matches
  the white border
* Includes USAswest.map which was omitted from 75 distro
* Includes a new COlorado.map that replaces the old CODenver
* New backup files for the Olympic Torch run.  TORCHw.bk and TORCHm.bk.
  The East coast files are not finished yet.  These files can be LOADED
  or RPELAYED so you can see the 15,000 mile route of the torch all
  across the US.  Whether or not we are successful in getting APRS
  officially in the entourage, please be sure you have adequate digi
  coverage in your area, both into and out of town...!

REMINDER:  MAPFIX menus are all new, plus I finally changed the aspect
ratio to match the PC screen.  Be sure to tell me if I broke anything.

APRS75 distro significanlty re-arranged my big MAPS, and which maps are
in the various E, W, M, C and SE distros.  Be sure to do the MAPS-CHANGE
to your maplist.  Then, if the map selection and overlay does not work
in YOUR area, please tell me. I cant zoom in everywhere to see if I
screwed something up...  I need your feedback...
```

516. Re: [APRSSIG:6967] RE: U-2000 in remote packet operation

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 22 Feb 1996 11:54:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960222114955.23136B-100000@greatlakes>
```

Rendered body type: text/plain

```
On Thu, 22 Feb 1996, Young, Gregory wrote:

> I am trying to use the U2000 in the remote mode, as I did the U2.
> When I first set it up, it locked up all the local aprs users software, and
> Needless to say, it is now only beaconing, and not transmitting data,  until
> Bob has the software bug (DOS error 6 I think) resolved.

WB4APR REPLY COMMENT:  The problem is that every now and then the U-2000
may output a NEGATIVE wind direction.  This will crash any APRS74..  It
has been fixed in APRS75.  So plese put it back on the air.. BUT to a
minimum UNPROTO path until everyone has a chance to upgrade.  Do NOT go
via GATE. thanks.
```

---

517. Re: [APRSSIG:6946] Re: U-2000 manufacturing defect

From: "David G. Henderson" <daveh@erie.net>
Date: Thu, 22 Feb 1996 12:54:50 -0500
To: aprssig@tapr.org
Message-ID: <199602221749.MAA24079@moose.erie.net>
Rendered body type: text/plain

```
At 05:16 PM 2/21/96 -0600, you wrote:
>Can anyone else verify this
>claim that the barometer is inaccurate with untis that were shipped prior
>to Jan 1, 1996? I don't get the connection between the two sensors..they
>are completely different devices and located in two housings (one inside
>and the other outside).

I don't know specifically was electronic connection there is between them.
But I do know that N3HPR had inaccurate baro, humidity and temp readings.
He is only 3 air miles from the Erie Airport and has good reference.  When
he contacted Peet to complain, one of the Peet Brothers talked directly to
HPR and said there was a manufacturing defect and said that all three were
affected.  HPR's junction box and outside unit have been replaced and they
are now accurate--including the barometer which now tracks exactly with the
NWS at the airport.  It was formerly, as much as .10 high or low.

73, Dave, N3EOY
```

---

518. Re: [APRSSIG:6960] Re: Peet Bros. U-2000

From: "David G. Henderson" <daveh@erie.net>
Date: Thu, 22 Feb 1996 12:55:07 -0500
To: aprssig@tapr.org
Message-ID: <199602221749.MAA24107@moose.erie.net>
Rendered body type: text/plain

```
At 05:14 AM 2/22/96 -0600, you wrote:
>>>I have dealt with PEET BROS on several ocassions and I have nothing
>>>but good things to say about those folks. They stand behind their products.
>
>I couldn't agree more  -  they were happy to ring me in the UK (where their
>products are not currently sold) to talk about my order!
>
>Bob, G8IYK

Boy you guys have fire in your pants.  You're shooting the messenger who
carried the bad message.  There was no condemnation of any kind in my
message.  It very matter-of-factly stated that Peet was correcting a
manufacturing defect.  Free!

Why would you:

1.      Not believe me and question the accuracy of my message on the SIG,
when all you had to do was call them and confirm it?  And get your new parts!

2.      Assume that I had some malevolent purpose, when my message was
intended to benefit many individuals who, by reading this SIG, I know
received their U-2000's within the defect time frame.  And many of whom, I
suspect, did not realize that their units were giving false readings.

Therefore, I shall refrain, in the future, from telling you anything that
will benefit you and you may stew in your inaccuracies.

Thanks to those individuals who e-mailed me thanking me for calling this to
their attention.

73, Dave, N3EOY
*****************************************************************
```

```
* David G. Henderson                            daveh@erie.net *
* Amateur Radio: N3EOY          n3eoy@wa3zca.#nwpa.pa.usa.noam *
*        Emergency Coordinator, Erie County PA SKYWARN         *
*     Township Supervisor, Franklin Township, Erie Co., PA     *
* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first *
*       Home Phone: 814-734-4623; Fax: same, voice first       *
*                 Digital Pager: 814-452-9263                  *
```

---

519. Ult2000 & ver7.5

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Thu, 22 Feb 1996 10:28:03 -0800
To: aprssig@tapr.org
Message-ID: <199602221828.KAA00063@poseidon>
Rendered body type: text/plain

Attn: ULT2000 Users..   Filed: 221620GMT FEB 96
Have reviewed most all ULT2000 sig msgs back thru Dec 95. Of all comments, suggestions and gripes, do not recall seeing any mention of the APRS programs POSrate capability. (ALT-S-POSrate) we have had the commands and control in front of us all the time, and mentioned in the WX.TXT file of README.DIR ..

Normally set up: ALT-S-POSrate: (Comes 30/540)

1. Enter desired GPS/LORAN/WX/DF screen refresh period in secs (30 ? ...
Set it to 60 or 120 or 180,, wx data from Ult2000 will be outputed 1, 2 or 3 minutes...to your APRS screen (center top) every 3 minutes on mine. .

2. Enter transmit period for your GPS/WX/DF packet in secs (540)?
So the actual WX packet is sent every 8/9 minutes. I set mine to 900 so the WX packet updated every 3 minutes is sent on air as a packet data every 15 minutes.

Comm-buffer-overloads. If you set your #1 refresh period correctly, and send your one line msgs, check your P or L (Position, Beacons screen) or add weather comments (sky coverage, visibility, wx remarks) in your BCN text (ALT-B), WITHIN THAT UPDATE PERIOD, you will not get COMM-BUFFER-OVERLOADS.

If your sending one liner msgs back/forth, and do get a (comm-buffer-overload), then break break the data circuit from U2000 to APRS Com port 2, reconnect after second or two, and you back in buisness, no sweat... I'm connected by DB-9 plugs, I just unplug (to break circuit) and replug em and "AWAY WE GO". Or build an off/on switch in the data circuit and throw the switch, "Conductor." !!

Also set Ult 2000 in the "DATA LOGGING MODE" , or try the other 3 modes and you'll see what happens.. No Problem, they don't work into APRS...

For Bob/APR... If can change program to act like a TNC and if data being sent by APRS, have the ULT act like a TNC and wait 1 or 2 seconds if circuit busy, before it sends its updated WX info to go out as a packet wx xmsn. Or however you can do it, i'm no programmer , just a suggestion.

As mentioned, new ULTIMETER data program version to be released soon, per Peet Bro. tech Bill...
73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM.//
(wbliss@coastside.net)..

NNNN

WBB/WB6LPG

---

520. Re: [APRSSIG:6965] Great band opening

From: Mike Musick <71301.3106@compuserve.com>
Date: 22 Feb 96 14:00:20 EST
To: <aprssig@tapr.org>
Message-ID: <960222190020_71301.3106_FHJ26-1@CompuServe.COM>
Rendered body type: text/plain

The 2m band opening made it briefly into St. Louis, too. I saw one beacon each, direct, from an Alabama and a Georgia station on Tuesday evening. Both were WIDEs, so probably they had some manner of enhanced power/height. They were just ID beacons with no position report, so they only showed-up in the heard list; I had to go to the Callbook to see where they came from.

Because they were single packets and I saw no repeats, I was wondering if it was meteor trail propagation. Given these other reports, though, it's now

```
clearer that the front moving through was responsible.
  ...mm
```

---

521. Re: [APRSSIG:6966] Band Opening

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 22 Feb 1996 14:34:29
To: aprssig@tapr.org
Message-ID: <199602222037.OAA14702@foo.garply.com>
Rendered body type: text/plain

```
Yes seen you on my map today George.

Bill KE4EER
------------------
>     Is everyone enjoying the same band conditions that we are?  2m has
>     been wide open from Texas to Florida for the past 2 days.
>
>        \\//
>        (..)
>    -ooO-(_)-Ooo-----------------------------------------------------
>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>    -----------------------------------------------------------------
>
>
```

---

522. Re: [APRSSIG:6965] Great band opening

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 22 Feb 1996 14:37:00
To: aprssig@tapr.org
Message-ID: <199602222039.OAA10016@foo.garply.com>
Rendered body type: text/plain

```
Well Jeff there where some North East Mississippi station, in fact a digi also
but it looks now like they are just TEMP users, i made some maps for them a
while back.

Bill KE4EER
-----------------
>The southeast and south has had a great 2m band-opening all night.  Here in the
>Florida panhandle I've got 80+ stations from South Florida, Georgia, Alabama,
>Tennessee, North Carolina, South Carolina, and 5 or 6 stations in Texas (some
>of whom I've heard direct)!!!  Band openings are pretty frequent here, so
>it's not that big a deal, but...I have NEVER seen any APRS stations in
>Louisiana and Mississippi on 2m!!!  Where are you guys?
>
>Jeff Ward, N4TRY
>
>
```

---

523. APRS Lost Registration

From: "JonesC,Col,49FW/CS" <JONESC@fw49.holloman.af.mil>
Date: Mon, 26 Feb 96 14:42:00 PST
To: "'smtp:aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <312CF1BA@gateway3.holloman.af.mil>
Rendered body type: text/plain

```
Mr. Bruninga, WB4APR

     I mailed a letter to you today with $14 to register the APRS74E
software version I have for use with a Trimble GPS.  What I would like to
ask you is to let me know what my original APRS Shareware Registration
number is.  It got lost last summer when I moved from the Pentagon
(Arlington VA) area here to Holloman AFB.
     I originally registered with you at a Little HamFest next to NSA and Ft
Mead MD either late fall 93 or early 94.  You called my wife latter the same
day and gave her the registration number, but as I said it was lost last
summer.  I would appreciate it very much if you could locate it for me.
     I am working on a demo project here hopefully using your software that
if successful I feel will expand its use in the Holloman area.

     It was fun to meet you and to see how far you've come with this good
idea.

     Thank you very much
     Cecil Jones, KD4TAM, E-Mail   jonesc@fw49.holloman.af.mil
     Helen Jones, KD4TAK, E-Mail    hpmicrowav@aol.com
```

---

524. Re: [APRSSIG:6977] Re: Band Opening

From: deang@MAIL.SYNTRON.COM
Date: Thu, 22 Feb 96 16:05:00 CST
To: aprssig@tapr.org
Message-ID: <9601228250.AA825033900@MAIL.SYNTRON.COM>
Rendered body type: text/plain

>Yes seen you on my map today George.
>
>Bill KE4EER

I also see you Bill. I turned on my log and will post it if anyone is interested. I'm hearing stations from North Carolina, Florida DIRECT.

I don't understand why there are such vast areas with no APRS activity. Is Louisiana as backwards as I am lead to believe? (ok, this is your chance to flame me)

```
    \\//
    (..)
-ooO-(_)-Ooo-----------------------------------------------------
| George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
-----------------------------------------------------------------
```

---

525. Re: [APRSSIG:6965] Great band opening

From: ku0g@sprynet.com
Date: Thu, 22 Feb 1996 14:14:47 -0800
To: aprssig@tapr.org
Message-ID: <199602222214.OAA09728@sprynet.com>
Rendered body type: text/plain

It happened in Missouri, too! I logged the Edwardsville, IL, WIDE (N9PPJ, if I remember right) on VHF that evening! I've also been seeing VHF stations up through Iowa today! The APRS users around here have several WIDES already set up and they don't NORMALLY talk to each other 100%, so when I see N0GGU, N0BKB and points north during the day I know that we're having a band opening....

We're sitting on a stationary front that runs right through KC today but will move east tonight...

73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com
Alt. EMail: 102413.375@compuserve.com
Packet: KU0G @ KU0G.#NWMO.MO.USA.NOAM

---

526. .TEKK Radio

From: Wayne Harrell <wharrell@surfsouth.com>
Date: Thu, 22 Feb 1996 17:29:53 -0500
To: aprssig@tapr.org
Message-ID: <199602222229.RAA14323@cindy.surfsouth.com>
Rendered body type: text/plain

Our LAN is expanding and are considering the use of the TEKK radio for a 9600 link from the user frequency to a Gateway at an Internet provider. Our question is what amplifier would be best to increase the power of the high site link? Any experiences or suggestions appreciated from those using the TEKK rigs!

Thanks for the help.

Wayne Harrell - WD4LYV

---

527. Re: [APRSSIG:6974] Re: Peet Bros. U-2000

From: W2HOB@aol.com
Date: Thu, 22 Feb 1996 19:27:21 -0500
To: aprssig@tapr.org
Message-ID: <960222192721_330212398@emout06.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-02-22 13:58:22 EST, Dave Henderson writes:

>Boy you guys have fire in your pants. You're shooting the messenger who
>carried the bad message. There was no condemnation of any kind in my
>message. It very matter-of-factly stated that Peet was correcting a
>manufacturing defect. Free!
>
----- snip -----
>

>Therefore, I shall refrain, in the future, from telling you anything that
>will benefit you and you may stew in your inaccuracies.

I feel I must rebutt this message, for I was one of the stations responding.
Sorry if the originating station felt offended... my intentions were to
CONFIRM what he had written on the SIG with an actual replay of a
conversation I had with PEET BROS.

I was not shooting any messenger nor were the other replies that
resulted. I think it was Mr. Henderson that has misconstrued our replies.
We were augmenting your information not condeming it.

73 de Boyd
w2hob@aol.com

---

528. Re: [APRSSIG:6980] Re: Band Opening

From: ke4eer@AIRnet.net (William Nolle)
Date: Thu, 22 Feb 1996 19:43:17
To: aprssig@tapr.org
Message-ID: <199602230145.TAA31780@foo.garply.com>
Rendered body type: text/plain

```
>
>     >Yes seen you on my map today George.
>     >
>     >Bill KE4EER
>
>     I also see you Bill.  I turned on my log and will post it if anyone is
>     interested.  I'm hearing stations from North Carolina, Florida DIRECT.
>
>     I don't understand why there are such vast areas with no APRS
>     activity.  Is Louisiana as backwards as I am lead to believe?
>     (ok, this is your chance to flame me)
>
>        \\//
>        (..)
>    -ooO-(_)-Ooo-----------------------------------------------------
>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>    -----------------------------------------------------------------
>
```

Well George i'm not going to do that (Surprise). I don't realy know why there is
no activity there, it's strange tough how a whole state is not participating in
APRS, but then again we have some 1400 hams in our county alone with
only a few participating in APRS even tough our local packet system is going
down the tubes.

Bill KE4EER
>

---

529. [APRSSIG:6890] Cows in ??

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Thu, 22 Feb 1996 23:22:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I1J58MO5HE9FR131@delphi.com>
Rendered body type: text/plain

>Hey Gerry, how about a short synopsis of the Cows in Space program? I
   >Doug
   >KC7CO

I second the motion, I've ben following this and would like to hear what
it's all about.

No beach nearby so I'm of for a salt bagel with cream cheese. Don't tell
my doc.

John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@AOL.COM>

`[1;30;43mRainbow V 1.19.2 for Delphi - Test Drive

---

530. RE: [APRSSIG:6974] Re: Peet Bros. U-2000

From: Bob Sayers <bsayers@implex.co.uk>
Date: Fri, 23 Feb 96 14:06:45 GMT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.2.960223141547.bsayers@>

Rendered body type: text/plain

```
>>>>I have dealt with PEET BROS on several ocassions and I have nothing
>>>>but good things to say about those folks. They stand behind their
products.
>>
>>I couldn't agree more  -  they were happy to ring me in the UK (where their
>>products are not currently sold) to talk about my order!
>>
>
>Boy you guys have fire in your pants.  You're shooting the messenger who
>carried the bad message.
>Why would you ... Not believe me ... question the accuracy of my message ...
>Assume that I had some malevolent purpose ... etc, etc
>
>
Well! Did I miss something here? One SIG member uses the phrase "nothing but
good things to say about", and I concur with my own excellent experience of
the company concerned. And we both get this?
I've never been too fond of this "shooting the messenger" business in the
past, but I can see it's an awfully easy habit to acquire....


best regards,

Bob, G8IYK
--------------------------------------------------------
Bob Sayers, West Midlands Emergency Planning Unit,
West Midlands Fire Service, Lancaster Circus, Birmingham
eMail:                                        bsayers@epline.implex.co.uk
Telecom Gold/Copost:           10092:LLA3058
AX.25:                                      G8IYK
ampr:                                        g8iyk
'phone:     0121-380-7611               fax:  0121-359-5108
Date: 02/23/96                   Time: 14:06:46
--------------------------------------------------------
```

---

531. Re: [APRSSIG:6970] Re: SA

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Fri, 23 Feb 1996 05:38:38 -0600
To: aprssig@tapr.org
Message-ID: <9602231138.AA08960@omnifest.uwm.edu>
Rendered body type: text/plain

```
Do you mean     ^^    "Streets & Alleys" or "Selective Availability?"
You state that SA is giving you totally bogus locations, but it's not
clear which "SA" you're talking about here!

--Shannon, DL6SEU

        Sorry Shannon - I WAS unclear.
        The repeater owners gave me locations that Street Atlas told
me were impossible (or at least not very practical).
        It may not seem like a "big deal" until you learn that we
use distance to seperate repeaters - and use Lat/Long to determine how
far apart they are.

Dave Barrow, N9UNR
```

---

532. Re: [APRSSIG:6951] PKZipFix

From: ka9nyn@ix.netcom.com (David R. Mohr)
Date: Fri, 23 Feb 1996 06:05:30 -0800
To: aprssig@tapr.org
Message-ID: <199602231405.GAA27897@ix16.ix.netcom.com>
Rendered body type: text/plain

```
You wrote:not sure where to find it, but the file pkz204g.exe contains
pkunzip, pkzip, pkzipfix, and a few other utils from Mr. P.K.

>
>Hi Youall,
>    Anyone on the sig can advise where I can locate a shareware copy
of the
>PKZipFix program ?.
>    When tryng to un-zip several APRS Map programs lately, I get the
following
>error message:
>    " Searching ZIP: WMAPS07.ZIP
>      PKUNZIP: (WO4) Warning! WMAPS07.ZIP - error in ZIP use PKZipFix
```

```
>
>      PKUNZIP: (E11) No file(s) found. "
>
>Tried several combinations trying to get maps unziped, but no luck.
Can anyones
>on the sig advise, where to obtain PKZipFix, thanks in advance.
>    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
>NNNN
>WBB/WB6LPG
>
>
```

---

533. Re: [APRSSIG:6948] Re: Screen Capture

From: ka9nyn@ix.netcom.com (David R. Mohr)
Date: Fri, 23 Feb 1996 06:03:17 -0800
To: aprssig@tapr.org.Hiya.Bill,
        Keith.or.Mark.Sproul.posted.a.message.recently.saying.they@ix.netcom.com
Message-ID: <199602231403.GAA12676@ix2.ix.netcom.com>
Rendered body type: text/plain

```
had 'cleaned up' and sorted the TAPR APRS SIG area. maybe grabber got
deleted accidentallt then.
       They requested that anyone uploading to the sig, to send the
boys
e-mail telling what the file is, so they'll know on the next clean up.
                             73, Dave.
```

---

534. More band opening notes

From: Jeff Ward <jward@gulf.net>
Date: Fri, 23 Feb 1996 09:04:42 -0600
To: aprssig@tapr.org
Message-ID: <199602231504.JAA05300@marlin.gulf.net>
Rendered body type: text/plain

```
Well, the band was open again last night.  Same states as the night before,
except this time got a few more stations from South Florida.  Texas came in
good early last night (Thursday).  And we can add Kentucky, Ohio, and
Illinois to the list of stations seen.  I checked the digipaths on these
stations and none of them have "GATE" in them...so I assume they're not
coming in via HF-VHF gateway (if I'm wrong please correct)!  That's quite a
stretch from the Florida Panhandle!  What a great propagation study tool.
Where else will you find so many stations on the same VHF frequency?!!! Nice
job, Bob.

Jeff, N4TRY

P.S.  Band is still open at 9:04 AM local time...
```

---

535. Re: [APRSSIG:6984] Re: Band Opening

From: Richard Fitzgerald <eusrdf@exu.ericsson.se>
Date: Fri, 23 Feb 1996 08:35:29 -0600
To: aprssig@tapr.org
Message-ID: <199602231435.IAA00795@b03c14.exu.ericsson.se>
Rendered body type: text/plain

```
Well, I also had that pesky KE4EER on my heard list.  I am located near Dallas, TX in grid EM13.  Most
of the stations that i have seen are located in the
Southeast.

Richard Fitzgerald
WA5UTF
```

---

536. Re: [APRSSIG:6976] Re: Great band opening

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Thu, 22 Feb 1996 21:22:33 EST
To: <aprssig@tapr.org>
Message-ID: <22FEB96.23085944.0310.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
>If you tell me the calls of the staions i might be able to see if      on each,
>i can give u some more info on the staions location and phg.           were
>Please include the ssi # if possible. It may have a been one of our    were
>high powerd digis we have down hear to get in to all the valleys       heard
>/nooks and cranys
>73 Lynn N4YCI
>                                                                       if it
>                                                                       ow
>
```

>
>

---

537. Re: Re[6]: [APRSSIG:6939] Screen Capture

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 23 Feb 1996 11:36:41
To: aprssig@tapr.org
Message-ID: <199602231739.LAA06059@foo.garply.com>
Rendered body type: text/plain

```
Well, yes and no. i have found that you MUST enter an 8 digit filename to
start with or it will chrash. But all in all it has many many bugs. I don't use it
myself because of that. I also have lot's of problems with Bob's latest mapfix
program, i just find it to hard to use with the new menu system. i couldn't
even figure out how to draw a line Hi. I found also that with the 100k2a as
you call it that the last map in the series always crashes and therfore for the
last map i always have to use the TEMP file for the last map. Like i said in a
message i posted a few days ago i don't understand that with maps being the
main product in APRS (Let's face it it wouldn't work without maps) that so little
time is spend by programmers to refine that software. I wish i knew how to
write programs i would do it myself, but since i don't i just have to sit back
and hope someone else will. There is a program written by another Ham called
MAPEDIT but it requires you run Linux, so to many this is not useable either.
Hopefully Keith with Winaprs will someday include a good mapmaking program.
Altough i hope that the map background color with the Winaprs will be either
selectable or will be something other then white, us older folks can't see the
lines on the map like that!. Anyway i hope this will enlighten you a little to my
mapmaking problems Hi.

Bill KE4EER
-----------------
>Have you been successful with the 100k2a mapmaker?  I have not been able to get
>it to complete an entire series of maps at any range.  It typically bombs during
>the second to last or last map.
>
>djw
```

---

538. Re: [APRSSIG:6991] Re: Band Opening

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 23 Feb 1996 11:45:55
To: aprssig@tapr.org
Message-ID: <199602231748.LAA12719@foo.garply.com>
Rendered body type: text/plain

```
Well that's great Richard, this morning i had a full 5 screens of users all the way
from extreme South Florida to Michigan. Many stations where direct on my
stacked 13B2's and 300W, i also ran wide,gate,gate,wide for a while!. Well at
least i found one of the local gates. Why do these gate users like to hide and
not inform us of their use of gates?. Do they have something to hide or what.
That should get some flames Hi Hi.

Bill KE4EER
-----------------

>Well, I also had that pesky KE4EER on my heard list.  I am located near Dallas, TX in grid EM13.  Most
of the stations that i have seen are located in the
>Southeast.
>
>Richard Fitzgerald
>WA5UTF
>
>
```

---

539. Re: [APRSSIG:6943] re: SA and on/off

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 23 Feb 1996 16:10:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602232210.QAA29276@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Baker, Donn B               RV sez:
>
> As a part of the recent (current ?) discussion about SA being turned off,
> Gerry wrote:
>
> "Differential correction is available with relatively low cost solutions for
> reception."
>
```

> That is correct, as we all know. The US Coast Guard transmits correction data for boats; the FAA is talking about transmitting correction data for aircraft; and in most cities, you can subscribe to a "MUZAK"-like service for the data.
>
> HOWEVER.... If its so easy and cheap to "defeat" the supposed security of SA, what good is it ? Are you trying to say that a terrorist won't use differential correction because its "spoiled ?" I'm sure that that is NOT any kind of deterent. Besides, there are a LOT easier and cheaper ways of delivering ANY kind of device... HE, nuclear, or CBW, than with an airplane, or boat with GPS controlling an autopilot.

We have beaten the delivery methods and systems down before. I'm not going back into that area.

You are not defeating the security of GPS and SA with differential correction. You are, instead, utilizing the methods delineated by appropriately appointed committees to improve the utility of the GPS system for non DoD users. One reason most of the unwanted users, assuming they're not locals, would be unlikely to use a differentially corrected signal in an attack is that they would be unlikely to be able to get high accuracy corrections easily since they not know where to go... DCI and the (appropriately identified) MUZAK sources notwithstanding.

> Much more importantly, why are two government agencies spending goverment dollars to UNDO something that another government agency is doing ???

Because they're not. They're following mandates to improve the utility for civilian users without tampering with the basic system. There is a significant difference.

> I think that the problem is that technology has overtaken the original system design. In the late '60's, when originally designed, GPS receivers were expected to be VERY expensive and complex. The military could afford them because they had to. Civilians certainly would not. That's VERY far from the reality of today. The rules changed, but the bureaucrats didn't!

In many respects this is true. However, GPS system enhancements (space segment) are continuing to evolve and experiments are being undertaken to improve the spoofing and jamming resistance of the space segment hardware. The ground segment will also benefit from this over time.

A common misconception is that by turning SA off, you'll get Precision Positioning Service accuracies immediately. Not so. C/A (Course Acquisition) levels of location accuracy remain at 15-45 meters for non-dithered conditions, and are a function of a short PRN selection, a low chip rate and use of a single frequency (L1) for all determinations, rather than using L2 for code and carrier phase correlation. DGPS using the Radio Technical Committee for Maritime Operations (RTCM) Special Committee-104 (SC-104) protocols for mapping grade corrections, can improve SA-affected errors by an order of magnatude (~100m > 10m resolution) while it can similarly improve non-dithered data to something on the order of 3-7 meters. The lack of improved resolution is a functionof several common mode errors inherent in the system. These improvements are only apparent over baselines between base and rover of about 300 km, with your best corrections witihin 40 km.

Use of the Real Time Surveying (RTS, formerly RTK) protocols defined by RCM SC-104 allows for long baseline datacollections and resolution of carrier phase integer ambiguity allowing you to resolve a bseline slope distance to sub-centimeter accuracies. Please note: This is not a GPS Lat/Lon/Height, but a chord between a known base station and a rover, with both collecting data for 20-30 minutes continuously.

Hope this is somewhat more informative.

gerry

---

540. Re: [APRSSIG:6944] RE: SA

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 23 Feb 1996 16:20:26 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602232220.QAA29517@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Lorenzini sez:

>
> Differential is only available in selected areas. If one is in a area where one must use a suscription service it is by now means low cost. In addition having to now rely (purchase) two receivers does improve

> reliability.

Differential correction is available in coastal areas on LF/MF from the USCG. The price of a Beacon receiver is not insignificant, I'll admit. And I agree that the broadcast subcarrier services are a bit high (or worse) for their services.

> > I can take either side of the SA on-off issue. However, if you do not
> > understand the limitations of common mode navigational and positional error
> > within the system and the preferential methods for countering it, you should
> > not discuss just how much better your track histories will be with SA off vice
>
>   That sounds like just so much technobable Gerry. I'am well aware of the
> limitation of gps accuracy having the opportunity to use gps plotting on a
> real USGS chart while observing my position over long periods of time, but
> that does not alter the fact that most mariners like myself will enjoy
> an improvement by a factor of one 95% of the time without SA. May I remind
> you of the incident of the tug towing the barge which hit a bridge in low
> visibility which caused the wreak of the amtrack train with loss of life.
> One of he conclusions of the NTSB board was that if the tug had accurate
> gps positioning this incident could have been avoided. I don't wish to
> engage in an offtopic debate on this and do not intend to reply to your
> response but I could not resist presenting my opinion.

Having seen the GPS plotting errors will give you some feel for the limitations of the system. Knowledge of the techniques involved in adding SA dither adds to that appreciation.

The fact of the mater is, you can expect about a factor of 3 improvement with SA off, assuming your comparison is worst-case SA to best-case non-SA. You will appreciate a 2x improvement most of the time... sometimes a bit less, sometimes a bit more. As to the claim that your improvements will be appreciated 95% of the time, I guess the orbital mechanics just escapes me. Further, not knowing either the receivers or the algorithms used to determine when to search for more satellites is unknown to me for your receiver I can't have too much of an opinion. We'll agree to disagree on this, somewhat subjective, topic. OK?

I'd have to examine the entire premise of the NTSB finding. I suspect they were looking at results of some of the Houston Ship Channel high-speed ship DGPS trials, using RTS corrections, and Trimble 4000-series receivers for real time extreme accuracy positioning. One should really be leary of making a blanket claim that one technology or another, especially one subject to the laws of physics in a manner such as GPS, would have prevented a disaster such as this. I do suspect that GPS could have helped in their navigation. I'll reserve judgement on just how well they could have navigated that channel in the dark and fog with non-corrected, and non-dithered, GPS.

Regards, Gerry

---

541. Test message

From: ke4eer@AIRnet.net (William Nolle)
Date: Fri, 23 Feb 1996 17:01:50
To: aprssig@tapr.org
Message-ID: <199602232304.RAA27809@foo.garply.com>
Rendered body type: text/plain

This is only a test message, i received 5 messages back that i replied to with an address unknown by the postmaster.

Bill KE4EER

---

542. Re: [APRSSIG:6980] Re: Band Opening

From: rwf <rwf@mindspring.com>
Date: Fri, 23 Feb 1996 20:02:22 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960223200242.3bf73134@mindspring.com>
Rendered body type: text/plain

At 04:21 PM 2/22/96 -0600, George Dean   KC5KGE   wrote:
>

>
>   I don't understand why there are such vast areas with no APRS
>   activity. Is Louisiana as backwards as I am lead to believe?
>   (ok, this is your chance to flame me)
>

I agree! I have been driving a lot in GA and FL and am frustrated that there are no stations or digis South of Atlanta (save for ZGL in Macon) unti you get to Tampa, FL. , an almost 8 hour drive. Tampa/St Pete has Kevin and his GATE as well as a couple of others, and there's a digi in Lakeland. The Digi in Tampa is deaf and the one in St Pete is kinda low, I hear.   There is new activity by a young crowd in Orlando, a little in Daytona I think, and a user I saw in Cocoa Beach. There's lots in Miami ("where everyone's a wide") and that Is all I saw.

Fort Myers, FL: Ha- the packet gurus there have their latest "new thing": A new Chat Node.

But... I try to spread the APRS gospel wherever I go!

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical Advisor

rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask me how!

---

543. TIME FOR THE BEACH

From: DDOBBINS@aol.com
Date: Fri, 23 Feb 1996 20:44:17 -0500
To: aprssig@tapr.org
Message-ID: <960223204416_331301206@emout04.mail.aol.com>
Rendered body type: text/plain

Well I'm sure the entire sig wonders what happened to the guy who's always headed for the beach.... eaten by a large shark, captured by the Swedish Bikini Team, burnt to a crispy critter because he fell asleep and forgot to roll over???? No actually, I'm enjoying the challenge of a job search in the Pacific northwest. I'm completing my military career (same as retiring) and believe it or not, hoping to move from Paradise to lovely Washington state, targetting the Spokane area.

FYI, APRS is growing in E. Washington, and can be found on 145.75 (careful, 145.79 is a simplex voice repeater system with long range link to Portland). APRS there is being led by Jim and Ann (WA7RVV/WA7ROS) who have put a nice system of mountain top remote WX stations/digis linking Spokane to Portland via Yakima. Nice system. I was able to track west from Spokane to the Columbia River crossing on I-90 north of Yakima, and did several one liners with Jim and Ann's son, N7QXO, in Portland. I'll be making changes to the Yakima and WASound maps to reflect the track histories.

Back in western WA now, Seattle area, and no sign of APRS activity here. I understand there is some activity south, near Puyallup, where KB7QQQ and gang are trying to invoke participation.

Anyhow, the job search continues. I'll be heading back to paradise next week, after a brief stop (maybe Wednesday - Friday Ken/W7KKE) in the SFO area, and you can all bet that soon as I get back to Hawaii I'll be heading for the beach, and may even take along a bagel. Aloha. Dave.

---

544. Re: [APRSSIG:6976] Re: Great band opening

From: Mike Musick <71301.3106@compuserve.com>
Date: 23 Feb 96 23:03:47 EST
To: <aprssig@tapr.org>
Message-ID: <960224040346_71301.3106_FHJ35-1@CompuServe.COM>
Rendered body type: text/plain

>What was the GA call?
>
>I have the N4NEQ-2 and -3 digis

N4NEQ-2, Ralph. It was you. ;-) The Alabama station was N4KMJ-7.

...mm/N0QBF

---

545. PKZipFix (PKZ204G.exe)

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Fri, 23 Feb 1996 20:25:00 -0800
To: aprssig@tapr.org

Message-ID: <199602240425.UAA09875@poseidon>
Rendered body type: text/plain

All PKzipper's...   Filed: 240404GMT FEB 96

   To all who responded to my search for the PKZipFix program, thank loads
for your replies and info..
    I found the whole PK files in the TAPR_Library files under Utilities.
"
However upon unzipping the program it has CRC errors:
  Inflating: PKZIP.EXE PKSFX: (W15) Warning ! file fails CRC check.
:/ PKZ204G.EXE has errors!
PKSFX: (W17) Warning!
Authenticity Verification Failed!
One or more of thsese files has been tampered with!. "

So I went to the ARN Annapolis BBS (N3JUY) 1-410-280-2503 and found the
PKZ204G.exe file and downloaded, no problem full 17 files on the P.K.
program and all the exe files.. Worth lookin at.

  As for the two area maps, WMAPS07.ZIP, and CMAPS09.ZIP, they both are
defective with CRC errors, especially the CMAPSPO9.ZIP is totally corrupted
with CRC errors. WMAPS07.ZIP only a few CRC errors, but some files no, none, zip
bytes, lists the maps names, but 0 for number of bytes in the file. Hi..
  Did not fine these map ziped files on several BBS's , got them only from
my local KA6EYH APRS BBS, so where, how, why, they got polluted don't know.

  Area Map Coordinators please check out these 2 zipped map files for
origination and where they were first sent, see if originals have the CRC
errors.
   Check'd what I had for Viruses, and they were clean. Anyone else have pblms
with these files ????
      73's & Enjoy, Bill/WB6LPG ....
NNNN
/EX

WBB/WB6LPG

---

546. Re: [APRSSIG:6998] Re: Band Opening

From: n2czf@gate.net
Date: Sat, 24 Feb 1996 02:07:56 -0500
To: aprssig@tapr.org
Message-ID: <199602240707.CAA43474@osceola.gate.net>
Rendered body type: text/plain

Don't forget the West Palm Beach area Ralph with 3 WIDE's (appropriatly spaced!)
and a handfull of users with GATE's on 30 and 80 Meters!

JUST OFF THE PRESS!!
Naples is now "on line" with some APRS users, just chated with one during
another opening here. A digi is going up in Okeechopee (Not Okeechobee) to the
south of them for a link into Miami/Homestead in the next month or so. Word has
it that one of the locals is on 10.151 but I have not seen him due to skip.

As far as the real band opening goes tonight I printed several WIDE's in AL and
GA and even one station driving arround N2NEQ-2. Yes the bands are still good,
wonder if anyone got lucky on 50.62 APRS ??

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

547. [APRSSIG:7000] Re: Great band opening GA and AL

From: n2czf@gate.net
Date: Sat, 24 Feb 1996 02:11:30 -0500
To: aprssig@tapr.org
Message-ID: <199602240711.CAA48306@osceola.gate.net>
Rendered body type: text/plain

>What was the GA call?
>
>I have the N4NEQ-2 and -3 digis

>>N4NEQ-2, Ralph. It was you. ;-) The Alabama station was N4KMJ-7.

This is also what I saw, all of the above and a little more. It is now 2am and

BTW 30M is still open into 0 land and VE2.

As far as the paths go, I saw Ralph both DIRECT and thru the digi's so none of this 200ft digi to 1300ft digi link stuff! This was the real thing with my 30ft high antenna.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

548. Any ROSE Progress ?? Any Network Progress ??

From: n2czf@gate.net
Date: Sat, 24 Feb 1996 02:27:43 -0500
To: aprssig@tapr.org
Message-ID: <199602240727.CAA07412@osceola.gate.net>
Rendered body type: text/plain

THings are catching like wildfire down here in FL, both for real and with APRS!

What ever happened to the APRS-ROSE thread, did everyone give up with ideas or is Tom in some corner writing code waiting to surprise us ?? Has anyone ever contacted G8BPQ over on the other side of the pond to see if he would support APRS??

A really interesting article just came out in QST this month on Packet CLusters. I have always thought their network arrangement would do well for APRS if it could be integrated into a UI type system. I also do know that they are VERY active in the Law Enforcement field for mobile data and gateways to the NCIC2000 system, wonder if they would be interested in helping or are they too big now.

Right now we are faced with a problem in FL where many populated areas are growing in APRS activity but are just a bit too far for 100% reliable paths. Some areas are too small and users get bored and disappear, if the pockets could be linked this would not happen as often and systems would continue to grow. The other problem in making a WAN is that even if the link is there a path of 5-6 digi's is needed to reach the final point. With the channel usage going up like our temperature we need another way to pass the bulk of the long distance traffic and maintain our 1200 baud outlets. The best thing is a choice of local communications (stay on 1200 baud VHF) or WAN coverage over to another band on 9600 baud and take big hops via dedicated links with no need for a huge UNPROTO string to increase your collision rate and failures.

Ok, lets hear it all, I am trying to heat up the fires again on purpose!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

549. help on maping roads

From: loflinj@mail.yamhillesd.k12.or.us (Jack Loflin)
Date: Sat, 24 Feb 1996 02:25:16 -0800
To: aprssig@tapr.org
Message-ID: <v01540700ad5487e9b9dd@[198.237.200.235]>
Rendered body type: text/plain

Hi all!

Waz wondering if anyone knew how to use the track log on the garmin 45 to 'plot' a road on a map. It seems to me like it should be possible, some how, but I have not been able to figure it out. I'm running MacARPS here. Been fooling around with it a little...but still no luck. Do I need some sort of map editor or something like that?

-Jack

---

550. converting maps

From: loflinj@mail.yamhillesd.k12.or.us (Jack Loflin)
Date: Sat, 24 Feb 1996 02:25:06 -0800
To: aprssig@tapr.org
Message-ID: <v01510100ad5497b35626@[198.237.200.235]>
Rendered body type: text/plain

Hi all!

I found what I think are a couple of great maps on the TAPR server in the WinMacAPRS directory..or at least something like that. I am running MacARPS here, but I can't seem to convert the files from that directory. Was wondering if anyone has any suggestions....

```
Thanks,
        -Jack
```

---

551. Pompano Beach Medical Center

From: KD4EMI@aol.com
Date: Sat, 24 Feb 1996 07:54:46 -0500
To: aprssig@tapr.org
Message-ID: <960224075445_152283056@emout10.mail.aol.com>
Rendered body type: text/plain

```
The Pompano Beach Medical Center relay will be on line today.
The final antenna installation will begin this morning.

The original plan was to make it a WIDE-RELAY, but since another
club has installed a WIDE, we'll just make it a relay  and a backup
for that station if needed.

Local South FL USERS !  PLS READ !!

WE are planning on installing a wx monitor at this location.
With support of some local users, we can pay for it.
I am chipping in $150 bucks.  IF anyone on the sig (in South Florida)
would like to help with a donation, we can make it a community project.
The device would remain at the medical center.
IF your in South Florida, and your reading this, you know where to find
me !!
Watch for the machine to go on line today.
Also, my 30 meter gate has been operating 24 hrs a day for the last
2 weeks. The MFJ loop antenna is working like a champ. Ive qso'd with
stations from Columbia to California- Mexico boats to Canada.
I highly recomend this antenna.  Mine is at about 45 feet and is vertically
oriented.   The rig is a ICOM 706.
Mike    KD4EMI@AOL.COM
```

---

552. Re: [APRSSIG:6999] TIME FOR THE BEACH

From: calldrin@sierra.net (Chuck Alldrin)
Date: Sat, 24 Feb 1996 08:43:37 -0800
To: aprssig@tapr.org
Message-ID: <199602241643.AA21683@diamond.sierra.net>
Rendered body type: text/plain

```
Dave,

If you get a chance, you are welcome to stop bye and say HI :-)
Chico is just a few miles east of I-5 and I'd like to meet you and talk APRS
and show you my 26' trimarian sailboat. It will have APRS in it. My phone is
916-899-1835 or you can leave a message on the SIG. or e-mail me.

73 and hope you can stop on your way down to the "BAY"

Chuck Alldrin

P.S. APRS freq in 145.01 for all of N.CA. Look for KN6JS-3 in Chico area :-)

====================


>Well I'm sure the entire sig wonders what happened to the guy who's always
>headed for the beach.... eaten by a large shark, captured by the Swedish
>Bikini Team, burnt to a crispy critter because he fell asleep and forgot to
>roll over???? No actually, I'm enjoying the challenge of a job search in the
>Pacific northwest. I'm completing my military career (same as retiring) and
>believe it or not, hoping to move from Paradise to lovely Washington state,
>targetting the Spokane area.
>
>FYI, APRS is growing in E. Washington, and can be found on 145.75 (careful,
>145.79 is a simplex voice repeater system with long range link to Portland).
>APRS there is being led by Jim and Ann (WA7RVV/WA7ROS) who have put a nice
>system of mountain top remote WX stations/digis linking Spokane to Portland
>via Yakima. Nice system. I was able to track west from Spokane to the
>Columbia River crossing on I-90 north of Yakima, and did several one liners
>with Jim and Ann's son, N7QXO, in Portland. I'll be making changes to the
>Yakima and WASound maps to reflect the track histories.
>
>Back in western WA now, Seattle area, and no sign of APRS activity here. I
>understand there is some activity south, near Puyallup, where KB7QQQ and gang
>are trying to invoke participation.
>
```

```
>Anyhow, the job search continues. I'll be heading back to paradise next week,
>after a brief stop (maybe Wednesday - Friday Ken/W7KKE) in the SFO area, and
>you can all bet that soon as I get back to Hawaii I'll be heading for the
>beach, and may even take along a bagel. Aloha. Dave.
>
>
>
```

---

553. Re: [APRSSIG:7001] PKZipFix (PKZ204G.exe)

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sat, 24 Feb 1996 11:32:24 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960224112314.31741A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

```
On Fri, 23 Feb 1996, William B. Bliss/WB6LPG wrote:

>
>   As for the two area maps, WMAPS07.ZIP, and CMAPS09.ZIP, they both are
> defective with CRC errors, especially the CMAPSPO9.ZIP is totally corrupted
> with CRC errors. WMAPS07.ZIP only a few CRC errors, but some files no, none, zip
> bytes, lists the maps names, but 0 for number of bytes in the file. Hi..
>   Did not fine these map ziped files on several BBS's , got them only from
> my local KA6EYH APRS BBS, so where, how, why, they got polluted don't know.
>
>   Area Map Coordinators please check out these 2 zipped map files for
> origination and where they were first sent, see if originals have the CRC
> errors.
>    Check'd what I had for Viruses, and they were clean. Anyone else have pblms
> with these files ????
>       73's & Enjoy, Bill/WB6LPG ....

It's possible that whoever got them to the EYH BBS obtained them from an
Internet site and didn't specify binary format before transfering them.

Michael
--
Michael Markmann VE4MJM               |
ve4mjm@draco.bison.mb.ca (Internet)   |     ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)   |         Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

554. Getting rid of manual WX reports ?

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Sat, 24 Feb 96 11:37:00 CST
To: aprs-submit <aprssig@tapr.org>
Message-ID: <312F4D9B@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

```
This is very embarrasing to have to ask, but how do you get rid of manually
entered WX short of quitting, and restarting ?  I entered one yesterday in
response to unexpected dense fog, etc., and then could NOT get the thing
removed! when conditions improved.   Ended up dumping and reloading APRS.
 There HAS got to be a different way, but I couldn't find it.

Also, we have a station that entered one several days ago, screwed it up,
and can't get rid off it either.  He's tried, and I've tried to help him get
rid of it.  No luck.

Thanks,
Donn
WA2VOI EN35ja
```

---

555. unsubscribe

From: Roben Beyer <emilee@northernnet.com>
Date: Sat, 24 Feb 1996 11:06:43 -0700
To: aprssig@tapr.org
Message-ID: <199602241801.MAA10302@server.northernnet.com>
Rendered body type: text/plain

```
"unsubscribe"

Roben Beyer
emilee@northernnet.com
```

---

556. Re: [APRSSIG:7010] Getting rid of manual WX reports ?

From: ku0g@sprynet.com
Date: Sat, 24 Feb 1996 10:43:34 -0800

To: aprssig@tapr.org
Message-ID: <199602241843.KAA02320@sprynet.com>
Rendered body type: text/plain

If you want to get rid of manual WX data, re-enter your posit using I, M the
select the symbol you want to be. When you get to the COMMENTS field be sure to
type in a new comment. That should take care of it!

73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com
Alt. EMail: 102413.375@compuserve.com
Packet: KU0G @ KU0G.#NWMO.MO.USA.NOAM

---

557. Re: [APRSSIG:7010] Getting rid of manual WX reports ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 24 Feb 1996 14:05:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960224140351.18300A-100000@greatlakes>
Rendered body type: text/plain

On Sat, 24 Feb 1996, Baker, Donn B RV wrote:

>
> This is very embarrasing to have to ask, but how do you get rid of manually
> entered WX short of quitting, and restarting ? I entered one yesterday in

WB4APR REPLY COMMENT:

Hit the G command to center the cursor on your station. Hit INPUT-MY
command to re-enter the comments in your POSIT. This will overwrite the
WX data.

---

558. Ult2000 & ver7.5 & winaprs2.4

From: rkramer@cdx.net (Ronald Kramer)
Date: Sat, 24 Feb 1996 22:06:57 GMT
To: aprssig@tapr.org
Message-ID: <312f86eb.70939780@mail.cdx.net>
Rendered body type: text/plain

An observation here...

I have a u2000 here and it works
very well with winaprs 2.4 on outgoing using the data
logging mode to send rs232 to the computer from the u2000.

Aprs 75 decodes this info from winaprs2.4 ok.

I have not tried using the u2000 with aprs 75 yet as I can
not use com4 irq 11 for inputing the u2000 with aprs75.
Com 3 and 4 will only work with irq 4 and 3 , which means
that I have to share irq's with com 1 and 2 that use these
irq's and I do not whish to do this as my tnc is on com 1
and my mouse is on com 2 and these are unmovable , as the
tnc has to be on com 1 or 2 for it to work with aprs and the
mouse has to be on com 1 or 2 to work with windows 95.
That means that the u2000 has to be on com 3 or com 4.
The u2000 work on com 4 ok with winaprs 2.4.
When KE2VW Greg hooks up his u2000 to a paccom tiny 2
in standalone mode, and uses data logging mode which
is the !! prompt my aprs 7.5 decodes it ok and prints it
on the screen. On the Winaprs 2.4 it does not decode this
string when it comes in over the air, it does decode ok if it is
input on the rs232 direct from the u2000.

If he uses the packet mode of the u2000
which sends out the $ult string then aprs 7.5 locks up
and gives an error 6 I beleive and has to be rebooted to
get back on line.

I hope the above observation can be of some help in
determining the U2000 string problems...

Equipment here is Pentium 60 mhz with 16mb ram
trident 9440 vesa bus video card, window's 95 release ver.
I have 4, 16550 com ports set up as :

```
com 1  irq 4        address 3f8       ns16550an
com 2  irq 3        address 2f8       ns16550an
com 3  irq 5        address 3e8      ns16550an
com 4  irq 11      address 2e8      ns16550an


Regards, Ron ...                            73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

559. (no subject)

From: "Robert G. Abrams" <ki6mp@adnc.com>
Date: Sat, 24 Feb 1996 14:23:58 -0800
To: Aprssig@tapr.org
Message-ID: <199602242223.OAA06114@taurus.adnc.com>
Rendered body type: text/plain

Subscribe

---

560. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

[Empty message body]

---

561. Re: [APRSSIG:7002] Re: Band Opening

From: Gary Arnold <garnold@gator.naples.net>
Date: Sat, 24 Feb 1996 19:53:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960224194831.7266A-100000@gator.naples.net>
Rendered body type: text/plain

```
Some additional info to supplement Rich's message....

The Collier County (Naples FL) APRS effort will include a 30m/2m system at
the County EOC, using a WIDE on 2 at abt 150 feet.  We hope to put
another at OCHOPEE (about 6 miles east of SR 29 on US 41) abt 45 miles
east of Naples.  Propagation to the HST digi and W4EHW (NHC) should be good.
The Ochopee site will be at about 100 feet, and will tie Naples to the
lower east coast and the keys.

KG5QD and I hope to put these systems on line in the next month or so.
We're working on a power supply and have to burn some eproms...then do
the actual installs.  Will advise the SIG as things develop!

73,
Gary Arnold WB2WPA
garnold@naples.net
76656.2753@compuserve.com
Packet Radio: wb2wpa@wb2wpa.#nap.fl.usa.noam

"The sky already fell...now what?"
         --Steve Wright, peripheral visionary


On Sat, 24 Feb 1996 n2czf@gate.net wrote:

> Don't forget the West Palm Beach area Ralph with 3 WIDE's (appropriatly spaced!)
> and a handfull of users with GATE's on 30 and 80 Meters!
>
> JUST OFF THE PRESS!!
> Naples is now "on line" with some APRS users, just chated with one during
> another opening here. A digi is going up in Okeechopee (Not Okeechobee) to the
> south of them for a link into Miami/Homestead in the next month or so. Word has
> it that one of the locals is on 10.151 but I have not seen him due to skip.
>
> As far as the real band opening goes tonight I printed several WIDE's in AL and
> GA and even one station driving arround N2NEQ-2. Yes the bands are still good,
> wonder if anyone got lucky on 50.62 APRS ??
>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida
>
>
>
>
```

---

562. (no subject)

```
From: reginald theriault <rrtheri@ibm.net>
Date: Sat, 24 Feb 1996 20:08:06 -0500
To: aprssig@tapr.org
Message-ID: <312FB676.143D@ibm.net>
Rendered body type: text/plain
```

"unsubcribe"

---

563. (no subject)

```
From: reginald theriault <rrtheri@ibm.net>
Date: Sat, 24 Feb 1996 20:08:51 -0500
To: aprssig@tapr.org
Message-ID: <312FB6A3.2355@ibm.net>
Rendered body type: text/plain
```

"unsubscribe"

---

564. BTTR Aircraft Shot Down Saturday

```
From: n2czf@gate.net
Date: Sat, 24 Feb 1996 20:54:51 -0500
To: aprssig@tapr.org
Cc: johnj@gate.net, kc4hdk@gate.net, 75602.2607@compuserve.com,
        wb4moz@gate.net
Message-ID: <199602250154.UAA16456@osceola.gate.net>
Rendered body type: text/plain
```

```
As most FL APRS users know and quite a few others, Brothers To The Rescue (BTTR)
fly the Florida Straight and Gulf Waters looking for Cuban rafters. If found
they notify the USCG and send water/flares out the window for their wait.

Recently they have begun some "political" missions but things turned for the
worse today. Russian Mig fighters shot 2 out of 3 BTTR aircraft 20 miles NORTH
of Havana, well into International waters. Reports also say that BTTR boats were
also in the area and got rammed by Cuban Coast Guard cutters. The ramming
happened a few months ago also so this is not "new" but Migs have made their
presence "known" in the past, this time they actually destroyed the 2 aircraft.

In recent months KB4TFF-7 has not been seen flying search missions, Osvaldo Pla
KB4TFF was one of the injured at the last boat ramming while he was operating
KB4TFF-8 APRS. One can only guess why the APRS operations had ceased, can Fidel
be listening in on 145.79 also ??? Who knows but I am sure it was a good
possibility and who want's their coordinates, SA or no SA being sent while in
flight with Mig fighters well within radio range! It is unknown if any licensed
amateurs were on board either of these two planes today but most of their pilots
are licensed.

Please Pray for these pilots and their families who's condition are unknown. We
do not have any confirmed rescue or recovery reports yet but a USCG Falcon Jet
did report earlier that 2 oil slicks were spotted in the area but no debris or
survivors. At 19:30 EST it was reported a USCG Cutter was on it's way but ETA
was not until 23:00 Hrs EST!! I do not know why it is taking so long to get a
watercraft into the area but by what I have heard so far and knowing the high
volume of Sharks in the area we can only pray.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

565. Re: [APRSSIG:7005] help on maping roads

```
From: Arthur Ashley <arthura@ix.netcom.com>
Date: Sat, 24 Feb 1996 18:32:49 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19960224213501.4fb7e8b2@ix.netcom.com>
Rendered body type: text/plain
```

```
At 04:28 2/24/96 -0600, you wrote:
>Waz wondering if anyone knew how to use the track log on the garmin 45 to
>'plot' a road on a map.

     Your question deals with a mapping application. Recommend that you post
it to the Usenet Newsgroup    <sci.geo.satellite-nav>
     For the past week I have been reading s.g.s-n to get some understanding
of make and models, prices, usage, etc., and found the above newsgroup to be
very helpful. Yesterday I bought a Garmin 45 and am  wandering around the
simulator mode as described in the manual.
     Two other newsgroups that you might find helpful are:
       <sci.engr.surveying> and  <rec.autos.4x4>
          Arthur, N1NHZ, 73
In 1996, Volunteer Amateur Radio Operators will be supplying communications
```

```
to ensure the public's safety at the 100th anniversary of the Boston
Marathon. --> See Web URL: http://ybi.com/run/xboston.html <--
```

---

566. Re: [APRSSIG:7014] Ult2000 & ver7.5

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 24 Feb 1996 22:10:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960224220157.19033B-100000@greatlakes>
Rendered body type: text/plain

```
On Sat, 24 Feb 1996, Ronald Kramer provided some detail on the U-2000:

> in standalone mode, my friend used data logging mode which
> is the !! prompt and my aprs 7.5 decodes it ok and prints it
> on the screen.
>
> If in stand-alone mode, he uses the packet mode of the u2000
> which sends out the $ult string then aprs 7.5 locks up
> and gives an error 6

WB4APR REPLY COMMENT:   Aw shucks.  If APRS gives an error 6, the
offending packet should still be visible on the bottom line.  Can you
send me a copy of that string?  We are finding that the U-2000 appears to
occassionally output values not totally within its specified values
(such as the negative wind diretion... that we fixed in 75)   Until
someone captures the offending packet, I dont know what to fix.
Good detective work so far, thanks, cant wait to see the bad packet...

2) I had forgotten that APRS would accept a data logger mode off the air.
THanks for that report! (But the TNC must them be placed in GPS mode)
```

---

567. Wide Digi Won't Show...

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 25 Feb 1996 03:37:30 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <03506312FD97A001*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

```
Hello Folks,

     It's been a while since I've fiddled with some of the APRS "details"
     and I'm having trouble getting a Wide digi we're setting up downtown
     to show up on my map at the home station! I know I've seen this before
     on the sig, but can't remember where or when. The digi beacon is as
     follows:

     !3052.88N/08059.74W#PHG5390/WIDE-RELAY

     The receiving TNC is a PK-232 and it seems like I remember that the
     problem is the way the 232 is set up, but for the life of me, I can't
     get it to show up! The beacon is making the trip with no problem, but
     I can't get it to show the symbol on the map. I'm sure it's something
     dumb on my part, but I'd appreciate any ideas.

     Thanks,
     Card Smith, N4FOR
     Savannah, GA
```

---

568. Re: [APRSSIG:7020] BTTR Aircraft Shot Down Saturday

From: ku0g@sprynet.com
Date: Sat, 24 Feb 1996 19:36:50 -0800
To: aprssig@tapr.org
Message-ID: <199602250336.TAA21650@sprynet.com>
Rendered body type: text/plain

```
I hope that the pilots are safe and that everything will turn out fine, BUT
that's an international incident and I'm curious what our governments response
will be!

Rich has a point about broadcasting position reports!  As close as the FL boys
are, it wouldn't surprise me if he wasn't right about the Cubans monitoring
145.79!!!  Let's just hope that out APRS operations haven't contributed to this
situation...

In the meantime, I'd be curious to know what the recent "political" missions are
that Rich refers to...

Best 73,
```

Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

569. Re: [APRSSIG:7013] Re: Getting rid of manual WX reports ?

From: Ron Malinowski <weather@xnet.com>
Date: Sun, 25 Feb 1996 00:32:47 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602250632.AAA27432@flood.xnet.com>
Rendered body type: text/plain

```
At 01:09 PM 2/24/96 -0600, you wrote:
>On Sat, 24 Feb 1996, Baker, Donn B RV wrote:
>
>>
>> This is very embarrasing to have to ask, but how do you get rid of manually
>> entered WX short of quitting, and restarting ?  I entered one yesterday in
>
>WB4APR REPLY COMMENT:
>
>Hit the G command to center the cursor on your station.  Hit INPUT-MY
>command to re-enter the comments in your POSIT.  This will overwrite the
>WX data.
>
N9QGS QUESTION:

I thought when the manually entered weather is entered it is date and time coded
and when another APRS station recv it, if its already old, It would be
grayed out or ignored.  I am just wondering, Cause there was a time when I
would
manually enter weather, and I would enter it and then maybe 3 days later I would
enter a new reading.  I hope other stations were not thinking my obs were
recent.  I think Manually entered weather should be transmitted no more than 45
minutes after it has been entered,  I am not sure how MacAPRS handles this,
But I think the APR version changes the TNC Beacon, cause I know I have turned
my TNC and it had weather paramaters in there and would send them even though
they are very old.
```

---

570. Re: [APRSSIG:7024] Re: BTTR Aircraft Shot Down Sat

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 25 Feb 1996 06:56:01 -0600
To: aprssig@tapr.org
Message-ID: <9602251256.AA01314@omnifest.uwm.edu>
Rendered body type: text/plain

```
I'm curious what our governments response
will be!


"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

        Very Interesting.  Looks like you want to "have your cake <g>
and eat it too".  It would appear that you want our country to
disarm - and still "respond"?????
        Mice don't challenge cats.  I prefer Teddy Rosevelt's "style"
"Speak softly - and carry a BIG stick"  Perhaps it is time for another
embargo - enforced by F-16s.

Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu
```

---

571. Re: [APRSSIG:7024] Re: BTTR Aircraft Shot Down Saturday

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Sun, 25 Feb 96 08:31:50 -0500
To: <aprssig@tapr.org>
Message-ID: <199602251330.IAA29959@newworld.bridge.net>
Rendered body type: text/plain

```
>I hope that the pilots are safe and that everything will turn out fine, BUT
>that's an international incident and I'm curious what our governments
```

```
>response
>will be!
>
>Rich has a point about broadcasting position reports!  As close as the FL
>boys
>are, it wouldn't surprise me if he wasn't right about the Cubans monitoring
>145.79!!!  Let's just hope that out APRS operations haven't contributed to
>this
>situation...
>
>In the meantime, I'd be curious to know what the recent "political"
>missions are
>that Rich refers to...
>
The BTTR flights recently have not used APRS for position reporting
recently, so APRS is not involoved in this incident. In fact, BTTR
recently removed the WIDE from Marathon, much to my chagrin. The
political nature of recent flights has included incursions into Cuban
airspace, including a flight over Havana a couple months ago. There were
reports of leaflets being dropped, but I never heard if that was
confirmed.

While I do believe in their cause, I think flying a light plane over a
major city of a hostile country is not a particularly bright thing to do.
I do hope they are OK, but it doesn't sound like their chances are good.

Steve, KO4HD
```

---

572. Re: [APRSSIG:7023] Wide Digi Won't Show...

From: n2czf@gate.net
Date: Sun, 25 Feb 1996 10:17:16 -0500
To: aprssig@tapr.org
Message-ID: <199602251517.KAA31570@osceola.gate.net>
Rendered body type: text/plain

```
Make sure that you have monitor set to MON 1 or MON 2
That was my problem with a PK-900 many years ago...

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

573. PK232/PACKRAT

From: Wb2ngz@aol.com
Date: Sun, 25 Feb 1996 10:20:01 -0500
To: aprssig@tapr.org
Message-ID: <960225102001_332467875@emout07.mail.aol.com>
Rendered body type: text/plain

```
I know this is not the proper SIG for this question but by the same token
I'm sure someone on this SIG has the answer and I don't know where else to
go.
   A friend of mine is using the Packrat program in Windows95 with a PK-232
MBX.. The problem is that he transmits 82 character lines instead of 72 and
it makes message formatting a mess on the rest of our terminal programs. Does
anyone know the command to change in the program/TNC to change the character
length to 72?
   Thanks in advance..

Bob, WB2NGZ
Ponce Inlet, Florida
..
```

---

574. Re: [APRSSIG:7027] Re: BTTR Aircraft Shot Down Saturday

From: ku0g@sprynet.com
Date: Sun, 25 Feb 1996 07:41:40 -0800
To: aprssig@tapr.org
Message-ID: <199602251541.HAA04101@sprynet.com>
Rendered body type: text/plain

```
On Sun, 25 Feb 1996, Steve Dimse <sdimse@newworld.bridge.net> wrote:
>The BTTR flights recently have not used APRS for position reporting
>recently, so APRS is not involoved in this incident. In fact, BTTR
>recently removed the WIDE from Marathon, much to my chagrin. The
>political nature of recent flights has included incursions into Cuban
>airspace, including a flight over Havana a couple months ago. There were
>reports of leaflets being dropped, but I never heard if that was
>confirmed.
```

>
>While I do believe in their cause, I think flying a light plane over a
>major city of a hostile country is not a particularly bright thing to do.
>I do hope they are OK, but it doesn't sound like their chances are good.

I agree! Sounds like BTTR's been had! It was, unfortunately probably the prudent thing for them to stop their APRS presence, but in this case maybe it would have saved the lives of the pilots?

I'm still hoping for their eventual recovery and safe return home, but it doesn't sound/look good at this point!

Without intending to step on any toes out there....Is BTTR now affiliated with the CIA? Why would a humanitarian mission (is it church sponsored?) be involved with such a potentially lethal activity as dropping leaflets over Havana in the first place????

Sure the U.S. want Castro out and Communism gone from the western hemisphere but from what I've seen on the news over the past couple of years it would seem that Fidel has been softening and, given his age, probably won't be able to maintain power for many more years. Perhaps if we'd leave them alone the Cuban Communists will lose power on their own. The nature of the communist regimes is such that, eventually, they WILL fail and the people will abandon the communist system. Russia was the lead example. Let's face it, Castro is off on his lonesome now. A little "discrete" CIA intervention might be the catalyst to finish the job, but having civilian, humitarian workers do the job is CERTAINLY not appropriate, IMHO...

OK, enough of this on the SIG. It's really not an APRS/WinAPRS issue, is it?
Let's just all pray that the pilots be found safe and sound!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"
(quote recently seen on a bumper sticker)

---

575. Cows + Sheep In Space !

From: Pete Baston <pete@bearnet.demon.co.uk>
Date: Sun, 25 Feb 1996 11:23:18 +0000
To: aprssig@tapr.org
Message-ID: <1Zuf5FAmaEMxEwaE@bearnet.demon.co.uk>
Rendered body type: text/plain

Hi All

I've been reading the messages relating to Gerry's cow tracking project with interest.

I thought you might be interested in a similar project which was done at the University College of North Wales, Bangor, in the late 70's.

The project was called the Bangor Orange Position Estimating Equipment for Pastures (BO PEEP), and came under the guidance of Prof David Last (GW3MZY). The object was to track the course of a sheep, at the request of the University's department of Agriculture.

A technology called "Orange Tracer" was used, this was used at the time for tracking data buoys etc. This involved down converting the "Orange" frequency of the Decca Navigator system from the VLF range to an IF in the audio range. This audio signal was then transmitted over a UHF link to the decoding equipment, at a fixed location. The "Orange" frequency could be used for positioning as it contained sequential transmissions from each transmitter in the chain.

I'm sure Prof Last could oblige with further information if anybody is interested.

Pete Baston GW0PJA.

```
************************************************************************
* Pete Baston * 7 Allerton Close, Pen y ffordd, Chester, CH4 0NJ, U.K. *
************************************************************************
```

576. Digipeater on 145.090

From: JAgrelo@aol.com
Date: Sun, 25 Feb 1996 13:45:05 -0500
To: aprssig@tapr.org
Message-ID: <960225134503_431220982@mail04.mail.aol.com>
Rendered body type: text/plain

Anyone one interested,

Agrelo Engineering and Associates are conducting WinAPRS & DFjr tests on 145.090, this digipeater has very large coverage and is located on Crawford hill in Rotterdam, NY. I have noticed stations recently loging on from Texas and other places in the US, but before I had a chance to log all the stations I was seeing, WinAPRS crashed on me, I had 3 map windows open, station list, history list, & message list when I clicked on one of the maps, poof I lost it all.

Mark Sproul has posted detailed maps of our area at
ftp://aprs.rutgers.edu/pub/hamradio/aprs/

ALBANY
GLENSFALLS
AMSTERDAM
GLOVERSVILLE

if anyone is interested in watching or participating in the action.

Hope to see you there

73 de Joe N2OOC

```
-------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-------------------------------------------------------------------------------
-----------------
```

---

577. Re: [APRSSIG:7030] Re: BTTR Aircraft Shot Down Saturday

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Sun, 25 Feb 96 16:27:58 -0500
To: <aprssig@tapr.org>
Message-ID: <199602252126.QAA18491@newworld.bridge.net>
Rendered body type: text/plain

>I'm still hoping for their eventual recovery and safe return home, but it
>doesn't sound/look good at this point!
>
>Without intending to step on any toes out there....Is BTTR now affiliated
>with
>the CIA? Why would a humanitarian mission (is it church sponsored?) be
>involved
>with such a potentially lethal activity as dropping leaflets over Havana
>in the
>first place????
>

If you don't live in South Florida it's hard to understand to furvor of the anti-Catro movement here. People have been murdered, homes and businesses firebombed, for even suggesting that the US normalize relations with Castro. I think BTTR started as a humanitarian effort, but last year when the policy on rafters was changed, they found themselves with nothing to do (the policy worked, very few try to cross the Florida Staits anymore). They seemed to gradually become more polical, and began with the fly-over and leaflet programs. The government made it very clear in the press down here when they first started doing incursions that these flights was not supported by the US, and that the US could not and would not protect them if they entered Cuban airspace. My best guess is they once again flew over Havana, and got tagged going out. They knew what they were doing, and I think maybe they wanted to be shot down, to become martyrs.

Steve KO4HD

578. Re: [APRSSIG:7023] Wide Digi Won't Show...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 25 Feb 1996 19:20:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960225191917.20963A-100000@greatlakes>
Rendered body type: text/plain

```
On Sat, 24 Feb 1996, Cardwell H Smith wrote:

>
>      and I'm having trouble getting a Wide digi we're setting up downtown
>      to show up on my map at the home station! I know I've seen this before
>      on the sig, but can't remember where or when. The digi beacon is as
>      follows:
>
>      !3052.88N/08059.74W#PHG5390/WIDE-RELAY
>
WB4APR REPLY COMMENT:    Looks perfect to me.....
```

---

579. Re: [APRSSIG:7025] Re: Getting rid of manual WX reports ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 25 Feb 1996 19:25:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960225192247.20963C-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 25 Feb 1996, Ron Malinowski wrote:

> N9QGS QUESTION:
>
> I thought when the manually entered weather is entered it is date and time
> coded  and when another APRS station recv it, if its already old, It
> would be grayed out or ignored....

WB4APR REPLY COMMENT:

Yes, they are stamped with the date and time, which will not change.  SO
as the report gets older and oldder, people will know..  But like any APRS
info that is not changed, it will continue to be reported until changed.
```

---

580. Northeast PA Digi

From: "Bernie A." <berlyn@epix.net>
Date: Sun, 25 Feb 1996 20:08:24 -0500
To: aprssig@tapr.org
Cc: ldajz@epix.net
Message-ID: <31310808.36B0@epix.net>
Rendered body type: text/plain

```
Hi Guys,

        N3KAE, Al, WX3A, Ray, and myself WM3L did an APRS presentation
at last weeks club meeting.  It turned out better than we could have
imagined.  First of all, we had the largest turn out for a meeting in a
long time.  But best of all, one of the locals guys WA3LWR, Bob who does
alot of packet set us up with a site, radio, tnc and power supply.
Temporarily we are trying to get it up on the mountain as KD3GG-13.
When we get a new X-1J chip burned it will be K3CSG.

Anyway, we will be at 2100 ft ASl and 655 feet HAAT in Northeast PA.  If
anyone sees it please let me know via e-mail

Thanks...Bernie WM3L  berlyn@epix.net
```

---

581. Re: [APRSSIG:7033] Re: BTTR Aircraft Shot Down Saturday

From: ku0g@sprynet.com
Date: Sun, 25 Feb 1996 17:17:19 -0800
To: aprssig@tapr.org
Message-ID: <199602260117.RAA26152@sprynet.com>
Rendered body type: text/plain

```
Well, I hope that I haven't, inadvertently, stepped on anyone's toes re my
comments on possible CIA involvement with BTTR.  I read two articles (from AP)
in the Kansas City Star this afternoon and got some interesting insight into the
anti-Castro business in FL.  I'm all behind that, too!  I'm just sad when
well-meaning people get hurt/killed in trying to work with a political agenda.
In the case of BTTR, though, it would appear that they may have gone too far,
sadly.
```

I laud the effort of BTTR in working to make sure that boat/raft refugees are found, supplied and rescued; I'm just not so sure that flying over Havana or, as the article stated, "that while details are murky, early indications suggested the planes may have been heading to Cuba to land, pick up people and fly them out of the country" was a prudent move!

The AP Article further stated that U.S. Customs officials were questioning the returning pilot (a Jose Basulto, head of BTTR) at the groups headquarters at Opa Locka Airport in Miami. It further stated that "Basulto was under investigation by the Federal Aviation Administration for violating Cuban airspace in the previous flyovers."

Apparently BTTR was warned by Castro after a July 13 (1995) flyover that any aircraft that violated Cuban airspace risked being shot down.

God, I can't believe I'm about to say THIS: Hooray for Clinton's condemnation of the attack. While others are saying that this is an act of war, if a U.S. aircraft did indeed violate Cuban airspace in spite of prior warnings to cease one can understand why they were shot down...

That DOESN'T make it right, though! A more appropriate response would have been for the MIGs to take the aircraft into "tow" and escort them safely out of Cuban airspace as any other reasonable government would have done!

I suppose that time will reveal what the U.S. response to this act will be. In the meantime, I will continue to pray for the families of the pilots and hope that the pilots will be found safely!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

582. Re: [APRSSIG:7037] Re: BTTR Aircraft Shot Down Saturday

From: ke4eer@AIRnet.net (William Nolle)
Date: Sun, 25 Feb 1996 21:03:26
To: aprssig@tapr.org
Message-ID: <199602260306.VAA03511@foo.garply.com>
Rendered body type: text/plain

Altough i feel sorry for anyone that got hurt in this, what does all this have to do with APRS or does APRS now stand for (A)ll (P)olitical (R)amifications (S)tink I hope this doesn't go into a Political battle and that you guys should watch the news or call your congresman and let him know how you feell. But other then the original posting keep it out of the APRS sig. Boy the flaming is going to come again).

Bill KE4EER

>Well, I hope that I haven't, inadvertently, stepped on anyone's toes re my
>comments on possible CIA involvement with BTTR. I read two articles (from AP)
>in the Kansas City Star this afternoon and got some interesting insight into the
>anti-Castro business in FL. I'm all behind that, too! I'm just sad when
>well-meaning people get hurt/killed in trying to work with a political agenda.
>In the case of BTTR, though, it would appear that they may have gone too far,
>sadly.
>
>I laud the effort of BTTR in working to make sure that boat/raft refugees are
>found, supplied and rescued; I'm just not so sure that flying over Havana or, as
>the article stated, "that while details are murky, early indications suggested
>the planes may have been heading to Cuba to land, pick up people and fly them
>out of the country" was a prudent move!
>
>The AP Article further stated that U.S. Customs officials were questioning the
>returning pilot (a Jose Basulto, head of BTTR) at the groups headquarters at Opa
>Locka Airport in Miami. It further stated that "Basulto was under investigation
>by the Federal Aviation Administration for violating Cuban airspace in the
>previous flyovers."
>
>Apparently BTTR was warned by Castro after a July 13 (1995) flyover that any
>aircraft that violated Cuban airspace risked being shot down.
>
>God, I can't believe I'm about to say THIS: Hooray for Clinton's condemnation
>of the attack. While others are saying that this is an act of war, if a U.S.
>aircraft did indeed violate Cuban airspace in spite of prior warnings to cease
>one can understand why they were shot down...

>
>That DOESN'T make it right, though! A more appropriate response would have been
>for the MIGs to take the aircraft into "tow" and escort them safely out of Cuban
>airspace as any other reasonable government would have done!
>
>I suppose that time will reveal what the U.S. response to this act will be. In
>the meantime, I will continue to pray for the families of the pilots and hope
>that the pilots will be found safely!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>"I'll be glad when schools have all the money they need
>and the Air Force has to hold a bake sale to buy a bomber!"
>
>

---

583. Re: [APRSSIG:7038] Re: BTTR Aircraft Shot Down Saturday

From: ku0g@sprynet.com
Date: Sun, 25 Feb 1996 20:58:14 -0800
To: aprssig@tapr.org
Message-ID: <199602260458.UAA06435@sprynet.com>
Rendered body type: text/plain

Well, I suppose, as I've said previously that it really doesn't have to do with
APRS DIRECTLY, but BTTR was using APRS and in a very serious manner up until
about a month ago. In a way it IS APRS-related, but then, again, it's not
either. Kind of a grey area I'd say...

The one thing it DOES point out is the POTENTIAL negative uses for APRS. Who's
to say, as Rich pointed out, that Castro's military hadn't picked up a copy of
APRS and had been monitoring the BTTR operations? There's a LOT to think about,
guys and gals.

This may be a "wake up call" for us to exercise a bit of prudence as we all work
to get APRS spread to all our friends and neighbots. It also brings to mind
another issue that has been tossed about this week: the impending shut-down of
SELECTIVE AVAILABILITY!

Is it possible that DoD (in its omnipresence) was already aware of the use of
APRS and GPS units with BTTR? If not, surely they are by now after the
government finishes interrogating Juan Busalto! Could this operation and its
unfortunate results be used as an argument in Congress to continue the Selective
Availability process?
Probably...

We may be on the "cutting edge" of this entire issue, ladies and gentlemen!
Personally, if I were a congressman and not familiar with amateur radio and the
technology and the DoD came to a hearing and gave testimony in front of me
citing the BTTR incident, I'd be voting to repeal that Selective Availability
measure REAL quick! Of course, I'm not BUT the average congressman WOULD most
likely react this way....

More food for thought....

Is this appropriate discussion for the Sig NOW?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

584. Wide HF/VHF gateway

From: JAgrelo@aol.com
Date: Mon, 26 Feb 1996 09:24:16 -0500
To: aprssig@tapr.org
Message-ID: <960226092414_333317662@emout08.mail.aol.com>
Rendered body type: text/plain

Yesterday I posted a message that I was seeing APRS packet from around the
country including Texas. Before I was able to log what I was seeing WinAPRS
crashed on me for the first time. Someone localy informed me that NY2U had
set up a HF/VHF gateway, I don't know what frequency he was using yet, but as
soon as I find out I will pass it along so others can watch us do live

```
WinAPRS-DFjr test.

For anyone local, the digipeater is on 145.090 (for now).

 73 de Joe N2OOC
-------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-------------------------------------------------------------------------------
-----------------
```

585. WX Station

From: Michael Walker <mwalker@gold.interlog.com>
Date: Mon, 26 Feb 1996 09:45:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960226094051.21086A-100000@gold.interlog.com>
Rendered body type: text/plain

```
Hi all,
I just received my Peat Brothers stations and I am trying to best
configure the system.  I am running os/2 and I leave APRS up 24 hours a
day.  Com 1 is the TNC, com2 is the mouse, com 3 is flexible and com 4 is
the modem. (All 4 com ports can be used at the same time as they have
unique interrupt levels, ie: com3 is IRQ 11 and com4 is IRQ12)

Since APRS will only support com 1 and com2, I would like to be able to
tie in the Wx as well.  I can't move the mouse (unless os/2 users have
found an update that will allow the mouse to be on com3).

Does the Ultimeter send WX continuously so we could use some sort of HSP
design cable?

Ideas would be appreciated.

cheers...mike

-------------------------------------------------------------------------------------------
Michael Walker
mwalker@interlog.com
VA3MW
```

586. Re: [APRSSIG:7005] help on maping roads

From: willm@MAIL.SYNTRON.COM
Date: Mon, 26 Feb 96 10:04:13 CST
To: aprssig@tapr.org
Message-ID: <9601268253.AA825357853@MAIL.SYNTRON.COM>
Rendered body type: text/plain

```
I have been using the garmin 45 w/ a registered version of garmin64. This
     windows shareware program allows uploading/downloading of waypoints,
     tracks, & routes. The program also allows you to view track data in
     graphical format (your road perhaps!). Also, each type of data (waypoints,
     tracks, & routes) may be edited in the garmin64 editor, plus in ascii file
     format using your favorite text editor.

     I used this program to map out my "goose hunting lease" this past year
     (independant of aprs).

     Mike Williams kk5sc




______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7005] help on maping roads
Author:  aprssig@tapr.org at Internet_mail
Date:    24-02-96 4:51 AM
```

Hi all!

Waz wondering if anyone knew how to use the track log on the garmin 45 to
'plot' a road on a map. It seems to me like it should be possible, some
how, but I have not been able to figure it out. I'm running MacARPS here.
Been fooling around with it a little...but still no luck. Do I need some
sort of map editor or something like that?

-Jack

---

587. MAP and WIRING QUESTIONS

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Mon, 26 Feb 1996 09:37:15 MST-0700
To: aprssig@tapr.org
Message-ID: <8739D437613@ceis.uhcolorado.edu>
Rendered body type: text/plain

Does anyone have detailed maps of Colorado in Mac or WAPRS
format? I downloaded both Mac and WAPRS from the the
Sproul WAPRS server, and found nothing useful, only central
states outlines. At least with what I found the DOS APRS
maps are MUCH better. However, our local Edge of Space Sciences
baloon group has Mac maps from somewhere. Does anyone
know the source?

I am trying to hook a Garman 45 up to TNC and computer
using HSP cable. Does anyone have a wiring diagram for the
cable provided by Garman as connected to a female DB9 plug?
The red is power, the black is ground, the brown is GPS
serial out and the white is serial in, but what pins on the
DB9 are the white and brown connected to? This unit will
be used as a tracker without the computer most, but not
all, of the time.
Art Smith
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757 FAX - (303)270-4710
als@ceis.uhcolorado.edu

---

588. Re: [APRSSIG:7041] WX Station

From: W2HOB@aol.com
Date: Mon, 26 Feb 1996 12:22:11 -0500
To: aprssig@tapr.org
Message-ID: <960226122211_153706987@emout09.mail.aol.com>
Rendered body type: text/plain

Yes, Mike, the Ultimeters from PEET outputs data constantly and can
be configured just like standalone GPS trackers using KPC-3's etc.
The U-2000 has several output modes... check the docs. Lots of wx
stations are running standalone with no APRS or computers... just a
wx station, TNC, and radio.

This still applies to HSP though as you mentioned. Just substitute your
U-2000/500/II for a GPS receiver and set APRS to "sample" that port
as often as you want to...

So many ways, eh?
Have fun es 73
de Boyd w2hob@aol.com

---

589. Re: [APRSSIG:7038] Re: BTTR Aircraft Shot Down Saturday

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Mon, 26 Feb 1996 12:46:12 -0500
To: aprssig@tapr.org
Message-ID: <199602261744.MAA10401@sun.lssu.edu>
Rendered body type: text/plain

>Altough i feel sorry for anyone that got hurt in this, what does all this
have to
>do with APRS...

Agreed!
Pete, wa4hei

---

590. SA turned down?

From: Bob Lorenzini <hwm@netcom.com>
Date: Mon, 26 Feb 1996 09:47:16 -0800 (PST)
To: aprssig@tapr.org

Message-ID: <Pine.LNX.3.91.960226094335.905B-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
The following was stolen from usenet news:

5) Just recently the effect of SA appears to have been reduced. We are
now seeing 40 meters 2Drms. It is unlikely that SA has been turned off,
only turned down. We can fruitlessly speculate over what will happen to
SA tomorrow and next week. Troops in Bosnia with civilian receivers?
6) Excellent evidence of GPS error behavior is in the error graph
on <http://www.cnde.iastate.edu/gps.html>. The site operator is
generously
furnishing daily statistics of horizontal fixing at 1 minute intervals.
Those of us who have been using our receivers as GPS monitors can now
surrender them to more constructive purposes by simply consulting that
site's error plot. Yesterday's error looked like 35 meters, 2Drms, to
me.

  Check out the excellent GPS web site.

Bob - wd6dod
hwm@netcom.com
```

---

591. Pico TNC

From: ke4eer@AIRnet.net (William Nolle)
Date: Mon, 26 Feb 1996 12:58:42
To: aprssig@tapr.org
Message-ID: <199602261901.NAA14468@foo.garply.com>
Rendered body type: text/plain

```
I remember i while bacl a lot of discussion about the dual port Pico Packet
losing it's memory (Settings) after a power down/Power up. I noticed the same
thing with the single port Pico. It did this 4 times now, and needles to say it's
not usable in this for, What was the fix to rectify this problem.

Bill KE4EER
```

---

592. KPC-3 GPS Commands?

From: Mike Musick <71301.3106@compuserve.com>
Date: 26 Feb 96 14:08:19 EST
To: <aprssig@tapr.org>
Message-ID: <960226190818_71301.3106_FHJ88-1@CompuServe.COM>
Rendered body type: text/plain

```
I've borrowed a KPC-3 for an upcoming APRS event, and the kind fellow who lent
it was not able to find the addendum sheet for the GPS-related commands that
came with the upgraded ROM. I can run it fine from the computer, but I'd like
to beacon position reports in those instances the computer is off-line doing
something else.

Can someone give me a quick run-down on what I need to know?

Pending the outcome of final debugging and testing, I should be able to
announce a cross-country APRS "event" in a day or so.

Thanks!
  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.5 on an HP200LX palmtop
```

---

593. Re: [APRSSIG:7043] MAP and WIRING QUESTIONS

From: jleonard@tbcnet.com (John B. Leonard)
Date: Mon, 26 Feb 1996 13:17:41 -0600
To: aprssig@tapr.org
Message-ID: <199602261917.NAA30769@tbc2.tbcnet.com>
Rendered body type: text/plain

```
You can take the DOS maps, put them into the WinAPRS maps directory and they
will do just fine.

jbl


>Does anyone have detailed maps of Colorado in Mac or WAPRS
>format?  I downloaded both Mac and WAPRS from the the
>Sproul WAPRS server, and found nothing useful, only central
>states outlines.  At least with what I found the DOS APRS
```

>maps are MUCH better. However, our local Edge of Space Sciences
>baloon group has Mac maps from somewhere. Does anyone
>know the source?
>
>I am trying to hook a Garman 45 up to TNC and computer
>using HSP cable. Does anyone have a wiring diagram for the
>cable provided by Garman as connected to a female DB9 plug?
> The red is power, the black is ground, the brown is GPS
>serial out and the white is serial in, but what pins on the
>DB9 are the white and brown connected to? This unit will
>be used as a tracker without the computer most, but not
>all, of the time.
>Art Smith
>Facilities Engineer, Engineering Services
>University Hospital, Denver, Colorado, USA
>Voice - (303)270-3757 FAX - (303)270-4710
>als@ceis.uhcolorado.edu
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
subependymoma 1990
http://tbcnet.com/~jleonard/n9vjq.htm

594. I need more COM Ports!

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 26 Feb 1996 10:24:35 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <0083C3131FAE301E*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Running out of COM ports on a PC seems to get easier and easier as I find more
things to connect to in the shack.

I have been running 5 COM ports on one of my W95 machines for several months now
and everything works fine. The COM1/COM2 pair are at the standard locations and
IROs; COM 3/COM4 use the alternate addresses and IRQs 5 and 9; finally, I have
the Mouse Systems COM5 card ($29) supporting my mouse at address 0238H on IRQ11.
The board comes with drivers for both DOS and Windows, and there is a free
software driver setup program called FSI (Fail-Safe Installation) available from
the Mouse Systems FTP site. The latter is the best of the software available.

BTW: I have one of those old QuadPort boards (4 RS-232 ports on a single board,
sharing 1 interrupt, I think) from AST. Does anyone know how if it's possible
and practical to set it up to work in a W95 environment? I need more COM ports
for my ham shack machine (lots of TNCs, microcontrollers, and other modems)!

595. Re: [APRSSIG:7044] Re: WX Station

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 26 Feb 1996 15:15:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960226151119.2878B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 26 Feb 1996 W2HOB@aol.com wrote:

>
> Yes, Mike, the Ultimeters from PEET outputs data constantly and can
> be configured just like standalone GPS trackers using KPC-3's etc.

APR COMMENT: True, for a stand-alone-tracker
>
> This still applies to HSP though as you mentioned. Just substitute your
> U-2000/500/II for a GPS receiver and set APRS to "sample" that port
> as often as you want to...

WB4APR REPLY COMMENT: Nope. IF APRS is in HSP mode, it toggles the HSP,
and is told to look for GPS data intertwined with the packet data. APRS
is not looking for WX data on that port.

Using an HSP switch for WX is not easym because at 2400 baud, the data
takes longer and you have a much larger probabliliyt of colisions with
packet data using the same port.

596. Re: [APRSSIG:7044] Re: WX Station

From: jleonard@tbcnet.com (John B. Leonard)
Date: Mon, 26 Feb 1996 15:23:05 -0600

To: aprssig@tapr.org
Message-ID: <199602262123.PAA32501@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Ok, now I'm confused.  I thought that APRS was "told" if you were going to
use a U-II or similar, and that it expected to see it at the other serial
port.  Hence the separate WX validation.  I tried to use the HSP switch with
a U-II, like a GPS, and the program told me I was real stupid to ask. (don't
say it!)

jbl

(some local APRS/WinAPRS No Illinois maps are now downloadable via):
ftp://tbcnet.com/pub/jleonard/

>
>Yes, Mike, the Ultimeters from PEET outputs data constantly and can
>be configured just like standalone GPS trackers using KPC-3's etc.
>The U-2000 has several output modes... check the docs. Lots of wx
>stations are running standalone with no APRS or computers... just a
>wx station, TNC, and radio.
>
>This still applies to HSP though as you mentioned. Just substitute your
>U-2000/500/II for a GPS receiver and set APRS to "sample" that port
>as often as you want to...
>
>So many ways, eh?
>Have fun es 73
>de Boyd w2hob@aol.com
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com

http://tbcnet.com/~jleonard/n9vjq.htm
http://tbcnet.com/~jleonard/hamfest.htm
```

597. Re: [APRSSIG:7045] Re: BTTR Aircraft Shot Down Saturday

From: Steve Dimse <sdimse@newworld.bridge.net>
Date: Mon, 26 Feb 96 16:31:56 -0500
To: <aprssig@tapr.org>
Message-ID: <199602262130.QAA26138@newworld.bridge.net>
Rendered body type: text/plain

```
>>Altough i feel sorry for anyone that got hurt in this, what does all this
>have to
>>do with APRS...
>
>  Agreed!

BTTR has been a very active presence on APRS in South Florida, and helped
to set up the local VHF digi network. These guys are very active hams, we
knew them, and in my case, helped to provide their tracking data link
back to Miami.

Steve KO4HD
```

598. [APRSSIG:6974] Re: Peet Bros. U-2000

From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
Date: Sun, 25 Feb 96 10:12:00 PST
To: aprssig@tapr.org
Message-ID: <3132532B@ubmed.buffalo.edu>
Rendered body type: text/plain

```
Hi Dave:
Just got your U-2000 info. Thanks a bunch!! It helped me out..
I don't know why Peet Brothers didn't directly contact us. After all we
registered our units. I thought that's why people fill out the warranties.

###########################################################################

BTW APRS GROUP: The U-2000, when used in a standalone mode with a Tiny2,
still locks up users' V7.5, when you use the packet string ($ULTW), but I
found the data logging mode (using the string !!) works ok.

Bob, any ideas on this? (I took the Wx node off the gateway, and am running
it locally until we figure this one out)..
```

```
################################################################################

73, Greg, KE2VW
```

---

599. Re: [APRSSIG:7041] WX Station

```
From: schiers@ibm.net (Robert Schiers)
Date: Mon, 26 Feb 96 20:57:51
To: aprssig@tapr.org
Message-ID: <199602262200.WAA99975@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain
```

```
In <Pine.BSD/.3.91.960226094051.21086A-100000@gold.interlog.com>, on
02/26/96 at 08:52 AM,
   Michael Walker <mwalker@gold.interlog.com> said:

>Hi all,
>I just received my Peat Brothers stations and I am trying to best
>configure the system.  I am running os/2 and I leave APRS up 24 hours a
>day.  Com 1 is the TNC, com2 is the mouse, com 3 is flexible and com 4 is
> the modem. (All 4 com ports can be used at the same time as they have
>unique interrupt levels, ie: com3 is IRQ 11 and com4 is IRQ12)

>Since APRS will only support com 1 and com2, I would like to be able to
>tie in the Wx as well.  I can't move the mouse (unless os/2 users have
>found an update that will allow the mouse to be on com3).

Now, if you are wondering if APRS will recognize your Peet Wx station on
com3 or 4...that is another problem altogether. From what I recall, Com3
and 4 may be supported addresses in dos APRS, but they use the same
interrupts, which adds essentially nothing. Maybe Bob has hard configured
interrupts other than 4 and 3, but I don't recall it. Further, if he has
hardcoded the interrupts to something other than 4 and 3, and you board
doesn't support those addresses and interrupts, you are SOL all over
again.

<vent spleen on>

What all these software authors need to finally "GET" is that it is the
USER who should be able to specify the address and interrupt that the
program will use. Hardcoding either addresses or interrupts with only two
available interrupts, or four addresses and four interrupts, two of which
may already be in use is just unacceptable in today's multi-tasking and
multiple com port board environments.

Some shareware authors have, indeed, figured out how to do exactly what I
have noted. A fine example is N3EQF, the author of LOG-EQF. Tom
completely rewrote his comm i/o routines to accomplish two things:

1. enabling and making use of buffered uart i/o...this reduces the
   requirements and loading on the main processor.
2. allowing the USER to specify ANY address and ANY irq, thus permitting
   the use of any comm board.

JNOS also permits this same approach.
G8BPQ node software ditto

There is just no excuse for limiting the USER to a 1970's approach,
especially when the programmers all assume they have an exclusive right
to COM1 and COM2 (or if 3 and 4, using the SAME interrupts as 1 & 2).


The PC as it stands, can easily support six serial ports and this has
been done for years...but only by a very few program authors have
bothered to empower the users to make their own choices.

A good example is what I am doing right here, right now:

Log-EQF is running the TS-870s rig control on one port and TNC/Packet
Cluster on another port...neither of which is COM1 or COM2...in fact,
they are at totally non-typical addresses and interrupts, but were
permitted to be specified by ME to fit with MY MACHINE's requirements.

At the same time, I am running two ports of JNOS (tcp/ip) on two other
ports, again, neither com1 or com2. All four ports are on one STB 4port
card.

Com1 and Com2 are completely open, for those damn programs that insist
they know where we ought to run them. This is NOT necessary, not a
requirement of the operating system, not a requirement of the hardware
```

readily available to us, but merely the result of antiquated progamming practices. It's time to get with it, guys, the days of "buy another PC and dedicated it to <fill in the blank, cuz every author has the same advice>"...when that is totally unnecessary. Let's make better use of what we have instead of dedicating another PC.

<vent spleen off> & apologies to anyone I may have offended with my outspoken and strident position regarding the all too common progamming practices of today's software authors.

To your OS/2 mouse question:

If you are using a serial mouse, the utility Rodent will let you use your mouse on ANY available address and irq. It is available on all the "usual" os/2 bbs's, like norloff. The file name is rodent100 or something like that, version 1.00....I know lots of people using it.

>Does the Ultimeter send WX continuously so we could use some sort of HSP
>design cable?

Depending on model...the data rate of the U-2000 in the data logging mode is approximately 90 data sentences per minute. The U-II is about 17 data sentences per minute.

>Ideas would be appreciated.

Hmmm...we'll see if I stirred anything up.

>cheers...mike

>--
>Michael Walker
>mwalker@interlog.com
>VA3MW

hasan schiers, N0AN
----
schiers@ibm.net
----

600. Re: [APRSSIG:7038] Re: BTTR Aircraft Shot Down Saturday

From: DDOBBINS@aol.com
Date: Mon, 26 Feb 1996 17:02:07 -0500
To: aprssig@tapr.org
Message-ID: <960226170207_153960401@emout10.mail.aol.com>
Rendered body type: text/plain

Ditto what Bill/EER has said ref the one posting about APRS involvment in BTTR was enough for the SIG. However, I just came from a job interview with one of those 3 lettered govt agencies, and one current events question was "Do I know what BTTR stood for?". I had not watched the news in a couple days, nor read a paper, but I did see the traffic on the SIG, so was able to ace that question.

Did Cuba over react to the presence of two unarmed C-337 in/near their territorial waters? Yes

Is it of further interest to the SIG, where it's easy to get off on a tangent? No

Do I think Bill deserves the flames he normally gets? What do you think?

Dave, WH6YC. "If I had a beach nearby, I'd go to it"

Still in Seattle for a couple of days. Aloha

601. Re: [APRSSIG:7043] MAP and WIRING QUESTIONS

From: rwf <rwf@mindspring.com>
Date: Mon, 26 Feb 1996 17:15:00 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960226171130.2c17feb8@mindspring.com>
Rendered body type: text/plain

At 10:47 AM 2/26/96 -0600, Art Smith

Does anyone have a wiring diagram for the

>cable provided by Garman as connected to a female DB9 plug?
> The red is power, the black is ground, the brown is GPS
>serial out and the white is serial in, but what pins on the
>DB9 are the white and brown connected to? This unit will
>be used as a tracker without the computer most, but not
>all, of the time.
>Art Smith

Art, check my web page for the option to "browse all my gps files".
There is a file called Garcable.txt or something like thet.
I would post the info here, but don't have the file on this computer.

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical Advisor

rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

602. Re: [APRSSIG:7048] KPC-3 GPS Commands?

From: ku0g@sprynet.com
Date: Mon, 26 Feb 1996 14:32:06 -0800
To: aprssig@tapr.org
Message-ID: <199602262232.OAA15016@sprynet.com>
Rendered body type: text/plain

Try sending EMail to Kantronics, they should be able to get you the information
you need...I'm not sure of the exact address, but try a websearch for
Kantronics.com...73

On Mon, 26 Feb 1996, Mike Musick <71301.3106@compuserve.com> wrote:
>I've borrowed a KPC-3 for an upcoming APRS event, and the kind fellow who lent
>it was not able to find the addendum sheet for the GPS-related commands that
>came with the upgraded ROM. I can run it fine from the computer, but I'd like
>to beacon position reports in those instances the computer is off-line doing
>something else.
>
>Can someone give me a quick run-down on what I need to know?
>
>Pending the outcome of final debugging and testing, I should be able to
>announce a cross-country APRS "event" in a day or so.
>
>Thanks!
> ...mike musick/N0QBF
>
> 71301.3106@compuserve.com
> Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
> Operating APRS 7.5 on an HP200LX palmtop
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

603. Re: [APRSSIG:7050] I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Mon, 26 Feb 96 22:03:17
To: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Cc: aprssig@tapr.org
Message-ID: <199602262237.WAA46369@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <199602262014.OAA01362@tapr.org>, on 02/26/96 at 02:14 PM,
   "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov> said:

>Running out of COM ports on a PC seems to get easier and easier as I find
>more things to connect to in the shack.

>I have been running 5 COM ports on one of my W95 machines for several
>months now and everything works fine. The COM1/COM2 pair are at the
>standard locations and IROs; COM 3/COM4 use the alternate addresses and
>IRQs 5 and 9; finally, I have the Mouse Systems COM5 card ($29)
>supporting my mouse at address 0238H on IRQ11. The board comes with
>drivers for both DOS and Windows, and there is a free software driver
>setup program called FSI (Fail-Safe Installation) available from the
>Mouse Systems FTP site. The latter is the best of the software
>available.

>BTW: I have one of those old QuadPort boards (4 RS-232 ports on a single
>board, sharing 1 interrupt, I think) from AST. Does anyone know how if
>it's possible and practical to set it up to work in a W95 environment?
>I need more COM ports for my ham shack machine (lots of TNCs,
>microcontrollers, and other modems)!

Assuming one has an STB 4 port card, with 8 user definable addresses and
interrupts, does Win95 permit defining the com ports on this board? I
recall a special comm driver required for Win3.1 that would permit user
defined com ports, but have seen nothing about Win95...suspect it might
be built in, but have not heard. If you know, could you describe how it
is
 done? (It may result in me buying my THIRD STB 4 Port card, as two of
them
 are now running in my OS/2 machines.) 73,

hasan schiers, N0AN
----
schiers@ibm.net
----

604. Re:[APRSSIG:7047] Pico TNC

From: mark.endicott@nashville.com
Date: Mon, 26 Feb 96 16:30:25
To: aprssig@tapr.org
Message-ID: <199602262243.QAA07792@tapr.org>
Rendered body type: text/plain

Bill:
        PacComm has issued a recall of the dual port pico because of the
problem you described. They did not report that they were having the same
problem with the single port version. They did ask that you call them to
schedule the return of the defective units. Give them a call.

```
 __________________________________________
|                                          |
|              Mark Endicott               |
|             P.O. Box 148242              |
|       Nashville, Tennessee 37214         |
|                 WB0NOO                   |
|       mark.endicott@nashville.com        |
|                                          |
|__________________________________________|
```

605. Re: [APRSSIG:7056] Re: BTTR Aircraft Shot Down Saturday

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 26 Feb 1996 18:31:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602270031.SAA05974@solar.cs.tamu.edu>
Rendered body type: text/plain

DDOBBINS@aol.com sez:
>
> Do I think Bill deserves the flames he normally gets? What do you think?

Sure. But not for that! :-)

gerry

606. Re: [APRSSIG:7046] SA turned down?

From: n2czf@gate.net
Date: Mon, 26 Feb 1996 19:53:22 -0500
To: aprssig@tapr.org
Message-ID: <199602270053.TAA53488@osceola.gate.net>
Rendered body type: text/plain

This is interesting!! My co-worker had 2 GPS units next to each other and they
were both showing very strange readings all of Saturday Morning. We do not know
if it has continued since he does not have the 2nd identical GPS as he did
Saturday AM.

He had been in familiar waters and the readings were quite off, the readings
also varied all the time, moreso than normal. Dunno but funny that one person
sees more aurate reports and someone else has worse almost at the same time!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

607. Re: [APRSSIG:7051] Re: WX Station

From: W2HOB@aol.com
Date: Mon, 26 Feb 1996 20:32:19 -0500
To: aprssig@tapr.org
Message-ID: <960226203218_333950070@emout04.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-02-26 16:20:13 EST, you write:

```
>>
>> This still applies to HSP though as you mentioned. Just substitute your
>> U-2000/500/II for a GPS receiver and set APRS to "sample" that port
>> as often as you want to...
>
>WB4APR REPLY COMMENT:  Nope.  IF APRS is in HSP mode, it toggles the HSP,

-------------------------------------------------------------------------------
-------
```

My fault... I meant the philosophy of HSP applies to WX stations just as it
does
GPS and it would be set to sample WX the same as GPS... I just didn't
communicate that very well... heh-heh...

I knew what I was saying but my tongue got wrapped around my eye teeth
and I couldn't SEE what I was saying... oh well... thanks for catching that
Bob!

73 de Boyd
w2hob@aol.com

---

608. KPC-3 GPS Commands here they are!

From: KE6VRL@aol.com
Date: Mon, 26 Feb 1996 20:50:31 -0500
To: aprssig@tapr.org
Message-ID: <960226205030_432344593@emout08.mail.aol.com>
Rendered body type: text/plain

First the signal ground of the gps must be connected to pin 7 of the KPC-3
the data output of the gps must be connected to pin 2
(Option connect the data input of your gps to pin 3, this is to give commands
to your GPS if it can support them)

1. Set ABAUD to 4800 unless your gps can support different data rates.
2. set GPSHEAD 1 $GPGGA this will store the GGA string in the buffer for
transmit.
3. set the LTP 1 APRS via (insert your digipath here)
4. set BLT 1 Every xx:xx:xx (Insert how often you want to beacon positon
hh:mm:ss)
5. set GPSINIT $PGRMO,GPGGA,1 (if your gps requires an intialization string)
6. finally and most important set INTFACE GPS, and reset the tnc.

This are the basic settings for beaconing positions, there are other
features, but this will let you beacon your posits. This information is from
my experience using a KPC-3 and a Garmin GPS-45. Good luck, Hector KE6VRL.

---

609. Re: [APRSSIG:7043] MAP and WIRING QUESTIONS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 26 Feb 96 22:31:57 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.825391917.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>Does anyone have detailed maps of Colorado in Mac or WAPRS

I will try to get one up on the TAPR and RUTGERS FTP sites tomorrow night..

Keith

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

610. Re: [APRSSIG:7059] Re: I need more COM Ports!

From: ku0g@sprynet.com
Date: Mon, 26 Feb 1996 19:59:08 -0800
To: aprssig@tapr.org
Message-ID: <199602270359.TAA08934@sprynet.com>
Rendered body type: text/plain

```
On Mon, 26 Feb 1996, schiers@ibm.net (Robert Schiers) wrote:
>>BTW:  I have one of those old QuadPort boards (4 RS-232 ports on a single
>>board, sharing 1 interrupt, I think) from AST.  Does anyone know how if
>>it's possible  and practical to set it up to work in a W95 environment?
>>I need more COM ports  for my ham shack machine (lots of TNCs,
>>microcontrollers, and other modems)!
>
>Assuming one has an STB 4 port card, with 8 user definable addresses and
>interrupts, does Win95 permit defining the com ports on this board? I
>recall a special comm driver required for Win3.1 that would permit user
>defined com ports, but have seen nothing about Win95...suspect it might
>be built in, but have not heard. If you know, could you describe how it
>is
 done? (It may result in me buying my THIRD STB 4 Port card, as two of
>them
 are now running in my OS/2 machines.) 73,
>
>
>hasan schiers, N0AN
>-----------------------------------------------------------
>schiers@ibm.net
>-----------------------------------------------------------
>

Yes, Win95 WILL allow the user to custom configure the address and IRQ of the
comport.  Start Control Panel, select Device Driver, double-click on Com1 etc
will bring up the properties for that port.  In Properties you will find the
Settings.  There are about 7 presets for the standard combinations but one is a
user-defined set.  Check out Help in that area to see which one it is for
sure...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"
```

---

611. Re: [APRSSIG:7061] Re: BTTR Aircraft Shot Down Saturday

From: ku0g@sprynet.com
Date: Mon, 26 Feb 1996 20:02:24 -0800
To: aprssig@tapr.org
Message-ID: <199602270402.UAA09275@sprynet.com>
Rendered body type: text/plain

```
On Mon, 26 Feb 1996, Gerald J Creager <gerry@cs.tamu.edu> wrote:
>DDOBBINS@aol.com sez:
>>
>> Do I think Bill deserves the flames he normally gets?  What do you think?
>
>Sure.  But not for that!  :-)
>
>gerry
>

I agree, but ya gotta admit he DOES keep things hopping around here AND from
time to time (albeit only once in a while) he IS right. [Watch it, Bill, I can
you your head starting to swell up already! <snicker> ...and you thought I
didn't like you! See how ya are? <grin>]

Best 73,
Jim Duncan, KU0G
```

APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

612. Re: [APRSSIG:7062] Re: SA turned down?

From: ku0g@sprynet.com
Date: Mon, 26 Feb 1996 20:04:15 -0800
To: aprssig@tapr.org
Message-ID: <199602270404.UAA09403@sprynet.com>
Rendered body type: text/plain

Doesn't the actual position, time, number of satellites visible, and so forth
actually make the correction for SA different in different areas and with
differing equipment?
Seems like I read that someplace...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

613. Re: [APRSSIG:7067] Re: BTTR Aircraft Shot Down Saturday

From: ke4eer@AIRnet.net (William Nolle)
Date: Mon, 26 Feb 1996 23:37:11
To: aprssig@tapr.org
Message-ID: <199602270540.XAA10052@foo.garply.com>
Rendered body type: text/plain

```
>>> Do I think Bill deserves the flames he normally gets?  What do you think?
>>
>>Sure.  But not for that!  :-)
>>
>>gerry
>>
Har the HAR har
>
>I agree, but ya gotta admit he DOES keep things hopping around here AND from
>time to time (albeit only once in a while) he IS right. [Watch it, Bill, I can
>you your head starting to swell up already! <snicker>
 ...and you thought I didn't like you! See how ya are? <grin>]

I never had the need to ask you if you liked me, My Wife loves me and that's
realy the only person i  have a need to like me Hi.. We have been married for
43 years, so i can't be all that bad guys....
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>"I'll be glad when schools have all the money they need
>and the Air Force has to hold a bake sale to buy a bomber!"
>
>
```

---

614. Re: [APRSSIG:7068] Re: SA turned down?

From: ke4eer@AIRnet.net (William Nolle)
Date: Mon, 26 Feb 1996 23:43:59
To: aprssig@tapr.org
Message-ID: <199602270547.XAA16553@foo.garply.com>
Rendered body type: text/plain

```
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>"I'll be glad when schools have all the money they need
>and the Air Force has to hold a bake sale to buy a bomber!"
>
By the way Jim, altough off topic i take it you feel it's more important to give
the schools all the money they need versus making sure we don't have to
buy the airforce anymore bombers!. I don't think that's right because without
```

the Bombers there wouldn't be any schools, think about that. And by the way
i know i went trough that in 1940 to 1945...... You can sleep well tonight
because the airforce didn't have any need to have a bake sale. Night Jim....

Bill KE4EER

---

615. Ultimeter 2000 Stand alone

From: Ron Malinowski <weather@xnet.com>
Date: Tue, 27 Feb 1996 00:37:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602270637.AAA02043@flood.xnet.com>
Rendered body type: text/plain

At 11:25 AM 2/26/96 -0600, you wrote:
>
>Yes, Mike, the Ultimeters from PEET outputs data constantly and can
>be configured just like standalone GPS trackers using KPC-3's etc.
>The U-2000 has several output modes... check the docs. Lots of wx
>stations are running standalone with no APRS or computers... just a
>wx station, TNC, and radio.

N9QGS:
I was wondering I know using the U-II as a stand alone, you couldn't report
rainfall at all, and I was wondering if with the 2000, that is available for
APRS users of there equipment? Or what exactly you are limited to when
using the U-2000 as a stand alone, vs having it hooked into APRS?

---

616. Re: [APRSSIG:7062] Re: SA turned down?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 27 Feb 1996 08:09:14 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602271409.IAA13855@solar.cs.tamu.edu>
Rendered body type: text/plain

n2czf@gate.net sez:
>
> This is interesting!! My co-worker had 2 GPS units next to each other and they
> were both showing very strange readings all of Saturday Morning. We do not know
> if it has continued since he does not have the 2nd identical GPS as he did
> Saturday AM.

Were they showing different position solutions between them? If so, the most
probable culprit is the chance, and a good one, that they selected different
satellites. Were they similar (same manufacturer & model)? And, if so, were
they contemporaneous (same firmware revisions)?

> He had been in familiar waters and the readings were quite off, the readings
> also varied all the time, moreso than normal. Dunno but funny that one person
> sees more aurate reports and someone else has worse almost at the same time!

Selective Availability can, theoretically, be switched on and off by both area
of coverage and time, and each satellite is diddled independently.

73, gerry

---

617. Re: [APRSSIG:7068] Re: SA turned down?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 27 Feb 1996 09:00:58 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602271500.JAA14521@solar.cs.tamu.edu>
Rendered body type: text/plain

ku0g@sprynet.com sez:
>
> Doesn't the actual position, time, number of satellites visible, and so forth
> actually make the correction for SA different in different areas and with
> differing equipment?
> Seems like I read that someplace...

Correction of SA using DGPS depends on sending individual corrections for each
satellite that are incorporated within the receiver into "corrected"
positions. The data include:

Time and sequence number
PRN (satellite ID)
pseudorange correction
pseudorange rate correction
user range error

satellite health

Obviously, if the DGPS station is not seeing the same birds as you, you're not actually gonna get corrections.

Most receivers perform 3D position calculations based on 4 birds. Some (Trimble, of note) sample multiple combinations of birds and select the best or present an average position, on the fly (over-determination). DoD has been experimenting with selective dithering based on subsatellite point (geographical coverage) and time, as well as some tests where they are trying to "spoof" the birds, which may degrade C/A user performance to an undetermined degree.

Hope this helps.

73, gerry
n5jxs@tamu.edu

---

618. (no subject)

From: Bill Duckwitz <duckwitz@mindspring.com>
Date: Tue, 27 Feb 1996 10:30:26 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960227102932.3a7fa354@pop.mindspring.com>
Rendered body type: text/plain

Subscribe

```
=====================================================
Bill, W4PBV , Col., USAFR, Ret., ex Heavy Driver
Kennesaw, GA                     34*04 N 84*36 W
duckwitz@mindspring.com or 73002.3554@compuserve.com
CEO Bosley's Basement Laboratories, Piedmont Division
No Work Solicited                  Nothing Guaranteed
```

---

619. Re: [APRSSIG:7062] Re: SA turned down?

From: Bob Lorenzini <hwm@netcom.com>
Date: Tue, 27 Feb 1996 08:06:19 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960227080503.321E-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

On Mon, 26 Feb 1996 n2czf@gate.net wrote:

> This is interesting!! My co-worker had 2 GPS units next to each other and they
> were both showing very strange readings all of Saturday Morning. We do not know
> if it has continued since he does not have the 2nd identical GPS as he did
> Saturday AM.

I wonder if RFI from one unit could QRM the other?

Bob
hwm@netcom.com

---

620. Antenna elevation plotting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 11:26:35 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960227110422.14448A-100000@greatlakes>
Rendered body type: text/plain

I just wrote a program called SIGPLOT.bas which will plot a complete elevation profile of your omni antenna. It uses the RF from the constellation of GPS satellites as a signal source, and any cheap GPS receiver to give you AZ, EL and signal strength! Just scale any antenna design to 1575 MHz and place it outside, hook up a GPS receiver to your serial COM port, and watch the profile develop.

The GPS constellation is a slow moving source of RF that in only an hour or so will provide you with a signal from all angles and elevations (*). Most GPS receivers output a data format which tells you the AZ, EL and SIGNAL strength from all satellites in view. Simply PLOT Signal strength against ELEVATION and in an hour or so you will have a beautiful ELEVATION profile of your antenna. This assumes that your antenna is omni directional in azimuth so you can ignore the AZ data.

SIGPLOT also will plot the simultaneous data from TWO different GPS receivers hooked to COM1 and COM2. I am using this to compare my home made GPS antennas against a known commercial one. It plots the COM1 profile in green and the COM2 profile in red.

This SIGPLOT.bas technique could be very useful to antenna modelers. It can also be used to plot azimuth profiles too, but it will take longer to fill in data from all azimuths AND elevations. * Most GPS receivers have an internal MASK function that makes it ignore satelites below a certain elevation (10 degrees?) but in many cases, this limit is user selectable. Also, you can incline your antenna to be sure that it is pointing towards the direction of the most satellites. People in high latitudes should not expect to see any satellites to the north...

de WB4APR

---

621. Re: KPC-3 GPS Commands

From: Mike Musick <71301.3106@compuserve.com>
Date: 27 Feb 96 11:31:43 EST
To: <aprssig@tapr.org>
Message-ID: <960227163143_71301.3106_FHJ103-1@CompuServe.COM>
Rendered body type: text/plain

>This are the basic settings for beaconing positions, there are other
>features, but this will let you beacon your posits. This information is from
>my experience using a KPC-3 and a Garmin GPS-45.

Thank you, Hector! That was *exactly* the information I needed, because, yes, we're running the KPC-3 with a GPS-45, too. I don't necessarily need to get into the other stuff just yet. I take it that to get out of GPS mode on the TNC (to return to APRS, for instance), it's just INTFACE TERM, and then also turn the beacon off.

(BTW, to Jim, KU0G - searching the Web was the first thing tried. Searching for "Kantronics" hit on some sites about software for TNC's in general, but nothing for Kantronics proper.)

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.5 on an HP200LX palmtop

---

622. Re: [APRSSIG:7050] I need more COM Ports!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 11:44:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960227113657.14448C@greatlakes>
Rendered body type: text/plain

On Mon, 26 Feb 1996, Jon T Adams wrote:

> Running out of COM ports on a PC seems to get easier and easier as I find
> more things to connect to in the shack.

WB4APR REPLY COMMENT: No matter how many COMM cards you buy, you will always run out. I finally just mounted a small cigarette size box on the front of my PC and routed COM1 and COM2 to a pair of db-9 connectors. At last count, I have 14 Serial device cables. I just plug in whatever I need whenever I need it. No IRQ's, no software re-configuration, no SETUPS, and I have infininte expansion.

Most programs never use more than 2 ports at a time anyway! Though, I am sure that with MULTITASKING operating system, then you would want everything accessible at the same time. But for my DOS world, it is fine.

---

623. Re: [APRSSIG:7054] Re: Peet Bros. U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 11:56:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960227115624.14448D-100000@greatlakes>
Rendered body type: text/plain

If the ULTW$ still crashes, please send me a copy of the offending ULTW string. Thanks...

---

624. Naples EOC on line (VHF)

From: Gary Arnold <garnold@naples.net>
Date: Tue, 27 Feb 1996 13:01:35 -0800

To: APRS SIG <aprssig@tapr.org>
Message-ID: <3133712F.B05@naples.net>
Rendered body type: text/plain

```
FYI, especially FLA stations:

Thanks to help from KG5QD we now have the Collier County (FL) EOC on the
air, 145.790, 25 watts at 160 feet basically omni (side mounted
vertical).  It's running WIDE and RELAY.  The Ochopee digi between here
and MIA is coming as soon as we can...as is the 10M port at the EOC.

73,
Gary WB2WPA

--
Gary Arnold CEM, WB2WPA
Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
--------------------------------------------------------
"I once worked at a fire hydrant factory.  You couldn't park within
miles of the place."
      --Steven Wright, periperal visionary
```

---

625. (no subject)

From: mark@y100.com
Date: (date unavailable)
Rendered body type: text/plain

```
(5.67b/IDA-1.5 for aprssig@tapr.org); Tue, 27 Feb 1996 10:35:02 -0800
Date: Tue, 27 Feb 1996 10:35:02 -0800
Message-Id: <199602271835.AA20606@relay.interserv.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:7076] Antenna elevation plotting
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17



On Tue, 27 Feb 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>I just wrote a program called SIGPLOT.bas which will plot a complete
>elevation profile of your omni antenna.  It uses the RF from the
>constellation of GPS satellites as a signal source, and any cheap GPS
>receiver to give you AZ, EL and signal strength!  Just scale any antenna
>design to 1575 MHz and place it outside, hook up a GPS receiver to your
>serial COM port, and watch the profile develop.
>

Great idea, Bob!  I want to try it!

Just wondering... did you test the patch antenna design that was published a few
months ago in QST?  I built one of these recently and I'm disappointed with its
poor response at low elevation angles.  The gain is more than adequate above 45
degrees, but appears to drop out of sight within 40 degrees of the horizon.
Occasionally, I have trouble acquiring enough satellites for the Garmin 45 to
get its initial fix.

I did make one modification to the published design -- the ground plane on my
antenna is an 8" diameter round piece of aluminum I happened to have in the
junkbox, rather than the rectangular shape specified in the article.  The
"patch" dimensions, feedpoint, and spacing above the ground plane are as
specified.  I didn't expect this mod would make a big difference, but it would
be interesting to compare with the original design.  Of course, I can always cut
the ground plane down to size if it really matters.

Any suggestions for another homebrew design that would have a smoother pattern?

Where can I download SIGPLOT?  It would also be interesting to look at the plot
files you've produced during your tests of various commercial antennas.


73, Mark, N2CHV
```

---

626. Re: [APRSSIG:7071] Ultimeter 2000 Stand alone

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 13:54:57 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.960227134954.14448G-100000@greatlakes>
Rendered body type: text/plain

On Tue, 27 Feb 1996, Ron Malinowski wrote something like this:

> I know using the U-II as a stand alone, you dont get the normal
> rain per hour and rain per day; only a raw rain count....
> I was wondering what is the case with the U-2000?

WB4APR REPLY COMMENT: This is the main ADVANTAGE of the U-2000. In
stand-alone mode, it does report RAIN per 24 hour day. It also reports
PEAK wind per 5 minute period instead of instantaneous (snapshot) wind.

---

627. Re: [APRSSIG:7075] Re: SA turned down?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 27 Feb 1996 13:03:40 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199602271903.NAA18161@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Lorenzini sez:
>
> On Mon, 26 Feb 1996 n2czf@gate.net wrote:
>
> > This is interesting!! My co-worker had 2 GPS units next to each other and they
> > were both showing very strange readings all of Saturday Morning. We do not know
>
>   I wonder if RFI from one unit could QRM the other?

I intentionally elected to ignore that possibility. It's definately possible,
but not a frequent occurrance with the unit's I've been using.

Good catch

73, gerry

---

628. Ultimeter interface question

From: Tom Weeden <tcweeden@execpc.com>
Date: Tue, 27 Feb 96 13:48:57 -0500
To: aprssig@tapr.org
Message-ID: <199602271952.NAA14311@mail.execpc.com>
Rendered body type: text/plain

Our county's emergency management office is about to purchase at least
one Ultimeter (not known yet if it's a U-II or U-2000) and send the data on its
siren control radio link back to the county's EOC. They have offered to give us
a "split" of the Ultimeter's data output so we could dump it out onto 145.79. The
question is: does the on-site APRS computer or the TNC need to query the
Ultimeter or can it just sit there and receive the RS-232 output of the instrument?
(Assuming that we can't talk TO the Ultimeter, as that would interfere with the
county's link...)

-73-
Tom Weeden WJ9H/Madison WI
South-Central Wisconsin SKYWARN Net Manager
!4301.38N/08929.95W

---

629. Re: [APRSSIG:7084] Ultimeter interface question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 15:57:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960227155503.14448J-100000@greatlakes>
Rendered body type: text/plain

On Tue, 27 Feb 1996, Tom Weeden wrote:

> Our county's emergency management office is about to purchase at least
> one Ultimeter (not known yet if it's a U-II or U-2000) and send the data
> on an existing radio channel...
> question is: does the on-site APRS computer or the TNC need to query the
> Ultimeter or can it just sit there and receive the RS-232 output

WB4APR REPLY COMMENT: Query not required. Just tap off the data (1 wire
and ground). If the Ultimeter is sending continuous data (data logger
mode) then use a GPS capable TNC programmed to periodically transmit the
desired string. If the Ultimeter is in packet mode, then any TNC in
unproto converse mode will work.

630. Re: Antenna elevation plotting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 15:53:39 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960227155135.14448I-100000@greatlakes>
Rendered body type: text/plain

On Tue, 27 Feb 1996 mark@y100.com wrote:

> On Tue, 27 Feb 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
> >I just wrote a program called SIGPLOT.bas which will plot a complete
> >elevation profile of your omni antenna.
>
> Great idea, Bob! I want to try it!
> Where can I download SIGPLOT?

WB4APR REPLY COMMENT: ARGH! I forgot to put that in the msg:
ftp from tapr.org in the tapr/SIG/aprssig/upload directory...

---

631. Re: [APRSSIG:7080] Naples EOC on line (VHF)

From: ku0g@sprynet.com
Date: Tue, 27 Feb 1996 13:21:23 -0800
To: aprssig@tapr.org
Message-ID: <199602272121.NAA25448@sprynet.com>
Rendered body type: text/plain

Saw the plot for the posit on your new WIDE today via HF Gateway.
Congratulations! Keep up the good work!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

632. Re: [APRSSIG:7079] Re: Peet Bros. U-2000

From: rkramer@cdx.net (Ronald Kramer)
Date: Tue, 27 Feb 1996 21:28:19 GMT
To: aprssig@tapr.org
Message-ID: <313376ed.143580901@mail.cdx.net>
Rendered body type: text/plain

On Tue, 27 Feb 1996 11:17:49 -0600 (CST), you wrote:

>If the ULTW$ still crashes, please send me a copy of the offending ULTW
>string. Thanks...

Yes it still does crash APRS 7.5 when sent from a standalone wx
station.

I send you a personal email dump of my screen on Saturday, Did you
receive it ...if not I will email you it again.

Regards, Ron ...   73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

633. Re: [APRSSIG:7078] Re: I need more COM Ports!

From: rkramer@cdx.net (Ronald Kramer)
Date: Tue, 27 Feb 1996 21:31:38 GMT
To: aprssig@tapr.org
Message-ID: <313377a5.143764867@mail.cdx.net>
Rendered body type: text/plain

On Tue, 27 Feb 1996 10:58:49 -0600 (CST), you wrote:

>Most programs never use more than 2 ports at a time anyway! Though, I
>am sure that with MULTITASKING operating system, then you would want
>everything accessible at the same time. But for my DOS world, it is
>fine.
>
Well I know of one that needs Three to run and that is APRS !!!!!!!
com 1 tnc
com 2 mouse

```
com 3 or 4 wx u2000
but I can not run the u2000 with aprs because it does not support more
than two irq's on the com ports


Regards, Ron ...                           73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

634. Re: [APRSSIG:7077] Re: KPC-3 GPS Commands

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 27 Feb 1996 13:47:17 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960227214717.006cef48@mail.cts.com>
Rendered body type: text/plain

```
The Kantronics web site is www.kantronics.com

Barbara KK6IB
E-Mail: fehner@cts.com

_______________________________________________________________________________
>(BTW, to Jim, KU0G - searching the Web was the first thing tried. Searching for
>"Kantronics" hit on some sites about software for TNC's in general, but nothing
>for Kantronics proper.)
>
>  ...mike musick/N0QBF
>
```

---

635. (no subject)

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Tue, 27 Feb 1996 17:01:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960227165536.13478A-100000@paccomm>
Rendered body type: text/plain

```
The latest release of firmware for the PacComm TNC for the TAPR/AMSAT
DSP-93 is in file TNC21196.zip in the TAPR FTP host directory
~tapr/dsp93/eproms/Paccomm_eprom/tnc21196.zip

Included in the file is an update of the EPROM instructions. Please be
sure to read it before using the EPROM image.

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Gwyn Reedy, W1BEL            gwyn@paccomm.com           W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.    +(813) 874-2980  Fax:+(813) 872-8696
4413 N. Hesperides St.               BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA          info@paccomm.com  http://www.paccomm.com
```

---

636. Re: [APRSSIG:7080] Naples EOC on line (VHF)

From: KD4EMI@aol.com
Date: Tue, 27 Feb 1996 17:27:14 -0500
To: aprssig@tapr.org
Message-ID: <960227172714_334862979@emout08.mail.aol.com>
Rendered body type: text/plain

```
Are you seeing KD4EMI-3 DIGI ?

MIke
```

---

637. Re: [APRSSIG:7089] Re: I need more COM Ports!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Feb 1996 18:06:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960227180448.22930B-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 27 Feb 1996, Ronald Kramer wrote:

> WB4APR said:
> >Most programs never use more than 2 ports at a time anyway!

> Well I know of one that needs Three to run and that is APRS !!!!!!!

WB4APR REPLY COMMENT:  Boy, I set myself up there....
```

---

638. New NE PA WIDE HELP!!!

From: al z <ldajz@epix.net>
Date: Tue, 27 Feb 1996 18:24:08 -0800
To: aprssig@tapr.org
Message-ID: <3133BCC8.2200@epix.net>
Rendered body type: text/plain

```
Howdy folks...

As listed by Bernie, WM3L, we have established an APRS WIDE/RELAY at a
good elevation in the Scranton area.  The TNC is an MFJ-1270, running
X1J-4.  The TNC was removed from usage in a backbone stack on regular
Packet. (ie the chip was already burned in).  I have a few questions...

We got the TNC PARAMS / MODES from an issue of CQ.  I thought, but cannot
prove, that there was an error in the initial listing, which resulted in
an addendum in a following CQ.  What are the PROPER settings for this
TNC?

We seem to be having trouble in telling the TNC to "ID" with parameters
that would cause it to "pop up" on your screens.  What function within
the TNC controls this, and what needs to be entered?

Is this new WIDE/RELAY adversely affecting anyone's effort in the
North East?

Thanks for reading... Al, N3KAE
```

639. Additional...

From: al z <ldajz@epix.net>
Date: Tue, 27 Feb 1996 18:47:58 -0800
To: aprssig@tapr.org
Message-ID: <3133C25E.2B79@epix.net>
Rendered body type: text/plain

```
Sorry about that...

Is it possible to enter the UNPROTO path of APRS,WIDE,WIDE to the node?
If so, under what command; NODES, ROUTES, or which one?  Please remember
that the chip has already been burned and ID's as follows...

KD3GG-13> TheNet X1J-4  (#SCTNK) !latN/longW#PHG [text string]

Any suggestions from other X1J-4 users???

Al, N3KAE
```

640. Re: [APRSSIG:7084] Ultimeter interface question

From: ku0g@sprynet.com
Date: Tue, 27 Feb 1996 15:54:37 -0800
To: aprssig@tapr.org
Message-ID: <199602272354.PAA07110@sprynet.com>
Rendered body type: text/plain

```
I suppose that it could be done if you built a data splitter and isolated both
sides.  The unit outputs a continuous data stream so I should think that you
could build something simple.  I don't know about the U-2000 but the U-II only
has two wires that go to the serial port.

I'd also suggest just making it a remote station with a TNC and radio only.  You
don't need a computer on site...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"
```

641. Tool bar

From: "Robert G. Abrams" <ki6mp@adnc.com>
Date: Tue, 27 Feb 1996 16:19:47 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19960227163012.363f63c6@mail.adnc.com>
Rendered body type: text/plain

```
I am interested in software for a tool bar (menu) that I can utilize
for my internet programs. As a beta tester for MCI/Newscorp they had
such a tool but they are no longer in the internet business. That was a
```

great tool! Can anybody help? I have been told that dashboard may be one.

Thaks in advance for your help.

Keep warm and: " keep the faith "

---

642. help

From: jaslee@hyowon.cc.pusan.ac.kr (Junseok Lee)
Date: Wed, 28 Feb 1996 11:08:31 +0900
To: -v@tapr.org, aprssig@tapr.org
Message-ID: <9602280208.AA19371@hyowon.cc.pusan.ac.kr >
Rendered body type: text/plain

We want to buy APRS GPS <-> TNC <-> Computer connettor written in your manuals.
The connector is transper data between GPS,Computer and TNC at one time. Is it p
ossible?

We have been reserched GPS based controlling system of many cars controlled by o
We want to buy APRS GPS <-> TNC <-> Computer connettor written in your manuals.
The connector is transper data between GPS,Computer and TNC at one time. Is it p
ossible?

We have been reserched GPS based controlling system of many cars controlled by o
ne main system.
But. We have some problems about wireless communication.
These are followings.
In GPS(Global Positoning System) communication is it possible to transfer data f
rom GPS to TNC not by using pc or note-book but by only TNC?
Is there any kind of hardware sollutions?

and we have plans to GPS car tracking system controlled by in one host. in your
manual, it is writtened that TNC is possible to connect 8 modem in one host at o
ne time. What can I do to connect 8 in one host. and How can I gain these data?
if it is possible by software could I gain this software? we plan to manage over
 100 car at one time. so what is the sollution for controlling these system?

We have trimble svee six GPS sensor

Jang Yong gu
Photogrammetry and Remote Sensing Lab.
Dept. of Civil Engineering
Pusan National University
Pusan 609-735 KOREA

E-mail jaslee@hyowon.cc.pusan.ac.kr

---

643. APRS REGISTRATION

From: Grampyruss@aol.com
Date: Tue, 27 Feb 1996 22:34:27 -0500
To: aprssig@tapr.org
Message-ID: <960227223425_232993298@mail02.mail.aol.com>
Rendered body type: text/plain

Hi Bob,
Russell Hulbert KA1VMQ here.
5 Robinson Dr.
Bedford, MA 01730-1336

I just sent my $24 in to register my APRS shareware but I didn't enclose the
form that can be brought up on the READ ME file so I am sending you
additional information
that may be advantageous to have.

APRS frequency that I use is: 145.790

LAT/LONG = 42.29.46 N. LAT/71.14.58 W. LONG

KANTRONICS KAM+ WITH LATEST 8.0 EPROM FOR GPS (which I don't have)

Email address: KA1VMQ@aol.com

Don't know what version I have of the shareware itself but I would assume it
is the latest.

---

644. Re: [APRSSIG:7097] Tool bar

From: mklings@execpc.com (Milt Klingsporn N9WSZ)
Date: Tue, 27 Feb 1996 22:34:50 -0600 (CST)
To: aprssig@tapr.org

```
Message-ID: <199602280434.WAA14267@mail.execpc.com>
Rendered body type: text/plain
```

```
Microsoft Office allows you to have a tool bar menu and enter other applications
into beside the Office apps (Word, Excel, Project, etc).  If you don't already
have Microsoft Office its an expensive way to go just for a tool bar.
I just scanned Exec-pc BBS and they have a program you can download called
ENGAGE (at version 1.6) that sounds like it might be just what you're
looking for.
You can access it through the Internet at  http://filepile.com
Hope this helps.

>I am interested in software for a tool bar (menu) that I can utilize
>for my internet programs. As a beta tester for MCI/Newscorp they had
>such a tool but they are no longer in the internet business. That was a
>great tool! Can anybody help? I have been told that dashboard may be one.
>
>Thaks in advance for your help.
>
>Keep warm and: " keep the faith "
>
>
>
--------------------------------------------------
           Milt Klingsporn, N9WSZ
            Milwaukee, Wisconsin
      A Great Place on a Great Lake.
          mklings@execpc.com
--------------------------------------------------
```

645. Re: Ultimeter 2000 Stand alone

```
From: Larry Griffin <largriff@onramp.net>
Date: Tue, 27 Feb 1996 23:48:04 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB056E.0F25D660@lub19.onramp.net>
Rendered body type: text/plain
```

```
>WB4APR REPLY COMMENT:  This is the main ADVANTAGE of the U-2000.
>In stand-alone mode, it does report RAIN per 24 hour day.  It also reports
>PEAK wind per 5 minute period instead of instantaneous (snapshot) wind.

... that is... it is *supposed* to do that.  The U-2000 still has the bug of sending
"zero" wind values in all but the first data burst in Packet Mode.  Peet Bros is
still working toward a fix though.

Larry Griffin <largriff@onramp.net>
```

646. Re: TNC21196.ZIP

```
From: Larry Griffin <largriff@onramp.net>
Date: Tue, 27 Feb 1996 23:51:29 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB056E.87B8D780@lub19.onramp.net>
Rendered body type: text/plain
```

```
>The latest release of firmware for the PacComm TNC for the TAPR/AMSAT
>DSP-93 is in file TNC21196.zip in the TAPR FTP host directory
>~tapr/dsp93/eproms/Paccomm_eprom/tnc21196.zip
>Gwyn Reedy, W1BEL            gwyn@paccomm.com           W1BEL@amsat.org

And just what does this little gem do, Gwyn?

Larry Griffin <largriff@onramp.net>
```

647. Re: [APRSSIG:7100] Re: Tool bar

```
From: "Robert G. Abrams" <ki6mp@adnc.com>
Date: Tue, 27 Feb 1996 23:27:03 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19960227233727.2bff980a@mail.adnc.com>
Rendered body type: text/plain
```

```
At 10:47 PM 2/27/96 -0600, you wrote:
>Microsoft Office allows you to have a tool bar menu and enter other
applications
>into beside the Office apps (Word, Excel, Project, etc).  If you don't already
>have Microsoft Office its an expensive way to go just for a tool bar.
>I just scanned Exec-pc BBS and they have a program you can download called
>ENGAGE (at version 1.6) that sounds like it might be just what you're
>looking for.
>You can access it through the Internet at  http://filepile.com
```

```
>Hope this helps.
>Thanks Mike I'll give it a try
>>I am interested in software for a tool bar (menu) that I can utilize
>>for my internet programs. As a beta tester for MCI/Newscorp they had
>>such a tool but they are no longer in the internet business. That was a
>>great tool! Can anybody help? I have been told that dashboard may be one.
>>
>>Thaks in advance for your help.
>>
>>Keep warm and: " keep the faith "
>>
>>
>>
>--------------------------------------------------
>           Milt Klingsporn, N9WSZ
>            Milwaukee, Wisconsin
>      A Great Place on a Great Lake.
>          mklings@execpc.com
>--------------------------------------------------
>
>
>
```

648. Re: [APRSSIG:7100] Re: Tool bar

From: "Robert G. Abrams" <ki6mp@adnc.com>
Date: Tue, 27 Feb 1996 23:27:50 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19960227233814.37a73ee4@mail.adnc.com>
Rendered body type: text/plain

```
At 10:47 PM 2/27/96 -0600, you wrote:
>Microsoft Office allows you to have a tool bar menu and enter other
applications
>into beside the Office apps (Word, Excel, Project, etc).  If you don't already
>have Microsoft Office its an expensive way to go just for a tool bar.
>I just scanned Exec-pc BBS and they have a program you can download called
>ENGAGE (at version 1.6) that sounds like it might be just what you're
>looking for.
>You can access it through the Internet at  http://filepile.com
>Hope this helps.
>Thanks Milt!
>>I am interested in software for a tool bar (menu) that I can utilize
>>for my internet programs. As a beta tester for MCI/Newscorp they had
>>such a tool but they are no longer in the internet business. That was a
>>great tool! Can anybody help? I have been told that dashboard may be one.
>>
>>Thaks in advance for your help.
>>
>>Keep warm and: " keep the faith "
>>
>>
>>
>--------------------------------------------------
>           Milt Klingsporn, N9WSZ
>            Milwaukee, Wisconsin
>      A Great Place on a Great Lake.
>          mklings@execpc.com
>--------------------------------------------------
>
>
>
```

649. Re: [APRSSIG:7102] Re: TNC21196.ZIP

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Wed, 28 Feb 1996 06:50:20 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org, File <file@paccomm.com>
Message-ID: <Pine.LNX.3.91.960228064803.13867G-200000@paccomm>
Rendered body type: text/plain

```
On Wed, 28 Feb 1996, Larry Griffin wrote:

> >The latest release of firmware for the PacComm TNC for the TAPR/AMSAT
> >DSP-93 is in file TNC21196.zip in the TAPR FTP host directory
> >~tapr/dsp93/eproms/Paccomm_eprom/tnc21196.zip
> >Gwyn Reedy, W1BEL            gwyn@paccomm.com           W1BEL@amsat.org
>
> And just what does this little gem do, Gwyn?
>
```

```
> Larry Griffin <largriff@onramp.net>

I've attached the original posting about this release. Additional
information is included in doc files in the release archive.
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Gwyn Reedy, W1BEL            gwyn@paccomm.com           W1BEL@amsat.org

PacComm Packet Radio Systems, Inc.    +(813) 874-2980  Fax:+(813) 872-8696
4413 N. Hesperides St.               BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA          info@paccomm.com  http://www.paccomm.com
```

[Attachment: x; text/plain; 1,968 bytes]

650. (no subject)

From: ykchang@hyowon.cc.pusan.ac.kr (Yongku Chang)
Date: Wed, 28 Feb 1996 21:40:54 +0900
To: aprssig@tapr.org
Message-ID: <9602281240.AA23239@hyowon.cc.pusan.ac.kr >
Rendered body type: text/plain

```
Hi I'm student in Pusan National University.
My major is civil engineering.
I'm studing GPS based car tracking and controlling system.
But I have some problems to transfer data.

these are problems.

1) in APRS I have to change HSP mode to use GPS
   at the end of  changing HSP mode I must save config.
   But the error massage appear "enter APRS registration validation number, GPS number"
   How can I solve this problems?
2) Must I have dual comm port to transfer datum?
   I use notebook pc which have one com port
   Is there any posibility of pc <-> tnc  <->  tnc<->gps (in KISS mode of TNC) ?
   And what tnc radio modem configuration do I have to transfer data  GPS <-> tnc ?
3) When I only communicate TNC with GPS, can I control communication
   by serial communication program ?
   If it is possible, Where can i get this program source ?
4) I succeded in two  com  port pc.   but in  one  com port   pc I  must  use  3 branch
   port. (GPS,PC,TNC), how can I get this kind of port?
```

651. Question about Radio com.

From: ykchang@hyowon.cc.pusan.ac.kr (Yongku Chang)
Date: Wed, 28 Feb 1996 21:41:19 +0900
To: -v@tapr.org, aprssig@tapr.org
Message-ID: <9602281241.AA23267@hyowon.cc.pusan.ac.kr >
Rendered body type: text/plain

[Empty message body]

652. Re: [APRSSIG:7089] Re: I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Wed, 28 Feb 96 01:59:49
To: aprssig@tapr.org
Message-ID: <199602281322.NAA76079@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <313377a5.143764867@mail.cdx.net>, on 02/27/96 at 03:36 PM,
   rkramer@cdx.net (Ronald Kramer) said:

>On Tue, 27 Feb 1996 10:58:49 -0600 (CST), you wrote:


>>Most programs never use more than 2 ports at a time anyway!  Though, I
>>am sure that with MULTITASKING operating system, then you would want
>>everything accessible at the same time.  But for my DOS world, it is
>>fine.
>>
>Well I know of one that needs Three to run and that is APRS !!!!!!! com 1
>tnc
>com 2 mouse
>com 3 or 4 wx u2000
>but I can not run the u2000 with aprs because it does not support more
>than two irq's on the com ports


>Regards, Ron ...                             73 de Ron
>         Internet: rkramer@cdx.net (Ron Kramer)
>         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

Bravo! This is EXACTLY what I was getting at with my message about software authors "waking up and smelling the coffee"...here is (and Bob has humorously noted the irony), the classic example of a program that really does require 3 com ports, but only two interrupts are available because of the SOFTWARE.

Don't you guys (programmers) realize how many of us are indeed using multi-tasking OS's...we've only been doing it in increasing numbers for years (since the advent of DesqView). The days of programming for the lowest common denominator dedicated 8088 are over...not that it has to be skipped or ignored, but really....the entry level machine is now a 486 with at least 4 and most likely 8 mb of ram and even an AT bus is capable of supporting 8 user interrupts, so it's not like we are asking for something only the elite few have available.

Don't take this the wrong way...it is not meant as a put down, rather a PLEA...let's make better use of what is staring us in the face... any 286 or above machine has the ability to support 8 user interrupts, and buying another machine to dedicate to every author's exclusive requirements for com1/2 and interrupts 4 and 3 respectively, is (to quote Lamar Alexander w/r to Steve Forbes), "nutty".

73,

hasan schiers, N0AN
----
schiers@ibm.net
----

653. Band Opening

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 28 Feb 1996 09:26:49
To: APRSSIG@tapr.org
Message-ID: <199602281427.JAA10087@mail-e2a-service.gnn.com>
Rendered body type: text/plain

We seem to have had another opening last night, as I received the following stations via these paths in NY City:

WA4TFZ	Charlottesville, VA	WIDE,WIDE,WIDE*
WD4HDL-1	Goldview, VA	WIDE,WIDE*
K4LV	Great Falls, VA	WIDE,WIDE*

All three listed themselves as "#" wide's, and I got several sets of packets from each. I've truncated the paths at the asterisks for clarity.

BTW , I also saw another pesky call (via GATE, so not included above,) think it was KE4EER??? ;-{) (just a gentle rib, Bill...)

Arte Booten <N2ZRC@gnn.com> or <N2ZRC@aol.com>
(Packet Radio: N2ZRC@N2NSA.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

654. GPS monopole

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Feb 1996 09:46:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960228093057.5223A-100000@greatlakes>
Rendered body type: text/plain

The whole reason that I wrote the SIGPLOT program was because I have always felt that a 1/4 wave vertical should be a good GPS antenna for most 2D applications. It has maximum gain at most elevation angles and a null overhead. GPS satellites directly overhead contribute nothing to your 2D fix, although they are useful for altitude.

Now having run SIGPLOT.bas with two identical GPS receivers, one using the TRACKPACK (patch) antenna, and one with just a 1.75 inch piece of wire stuck in the GPS antenna jack, here are the results:

ELEVATION ANGLE	AVERAGE WHIP	AVERAGE PATCH	DIFFERENCE
90 - 80	38	41	-3
80 - 70	39	44	-5
70 - 60	41	43	-2
60 - 50	42	43	-1
50 - 40	41	42	-1
40 - 30	42	41	+1
30 - 20	42	40	+2
20 - 10	40	38	+2

Rarely does a satellite go overhead, so it took 12 hours of monitoring before I finally got data above 70 degrees. But the presence of ANY gain straight up is surprising... There are other HAM antennas in the vicinity that may have reflected enough energy to fill in the null.

The ability of the whip to perform within 1 dB of the patch antenna at all angles up to 60 and even better below 45 degrees leads me to the conclusion that the whip is just fine for most terrestrial applications.

Note, no attempt had been made to TUNE the whip, nor to match its nominal 25 ohm feed impedance to the 50 ohm GPS receiver input. This is my next step. To add a 1/4 wave 35 ohm matching stripline to gain back another dB or so..

---

655. Re: Antenna elevation

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Tue, 27 Feb 96 23:17:07 -0800
To: aprssig@tapr.org
Message-ID: <A5CA333101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

On 2/27/96 Bob Bruniga wrote:

>I just wrote a program called SIGPLOT.bas which will plot a complete
>elevation profile of your omni antenna. It uses the RF from the
>constellation of GPS satellites as a signal source, and any cheap GPS
>receiver to give you AZ, EL and signal strength! Just scale any antenna

>design to 1575 MHz and place it outside, hook up a GPS receiver to your
>serial COM port, and watch the profile develop.

Bob-
I suspect in order to use SIGPLOT.BAS you would need a GPS receiver capable of outputting the $GPGSA NMEA data string. Not all the GPS receivers out on the market today are capable of outputting this sentence. One should doublecheck his GPS's capability before downloading and/or running the program.

73's de Mike KA6SPT
____
Tweedy@pc.gcs.litton.com
74176.3030@compuserve.com

---

656. RE: I need more COM ports

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 28 Feb 96 10:53:21 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.825522801.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I have 6 (YES SIX) Comm ports on my Macintosh, and I could add more, 4 at a time, just by plugging in another card.. The only limit is the number of slots in the machine. I currently use 3 comm ports all of the time, and will be using another soon with the DFJr RDF unit..

For testing, I have even had two GPS units running at the same time...

And that is all JUST for APRS..

```
Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

657. Re: [APRSSIG:7111] Re: Antenna elevation

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Feb 1996 10:58:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960228105615.5223G-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 28 Feb 1996, TWEEDY, MIKE WH:2453 wrote:

> Bob-
> I suspect in order to use SIGPLOT.BAS you would need a GPS receiver
> capable of outputting the $GPGSA NMEA data string.  Not all the GPS
> receivers out on the market today are capable of outputting this

WB4APR REPLY COMMENT:  Correct.  It uses the GPGSV sentence.  If your GPS
does not output this sentence, then SIGPLOT will not work.  But since the
program is in BASIC, anyone whould be able to modify it to use whatever
data is available from their GPS...  Good luck.
```

---

658. Re: APRS 7.5 on HP200LX

From: Mike Musick <71301.3106@compuserve.com>
Date: 28 Feb 96 11:36:25 EST
To: <aprssig@tapr.org>
Message-ID: <960228163624_71301.3106_FHJ70-1@CompuServe.COM>
Rendered body type: text/plain

```
>Can you summarize your configuration and how you got it going on your HP200?

Sure, Greg.

It's actually pretty easy. The 200 is a stock 1MB unit, with a 640/360 split on
the onboard RAM (in other words, max'ed DOS addressable RAM), and APRS lives on
a 10MB SunDisk flash RAM card. Connection and use so far has been primarily in
testing as a *stationary* unit, using HP's serial cable with the modem adaptor
to the TNC. I am in the throes of debugging an HSP (hardware single port)
adapter to run it mobile with a GPS, and barring my wiring goofs it appears
that everything should work fine that way.

You do have to run it out of raw DOS. I attempted to make it executable from
the App Manager, but between AM and Filer there is just not enough RAM left to
run APRS. It's completely straightforward on the install, and it runs cleanly.

There are some downsides to this "pocket APRS". Lack of color is a minor
problem, and, obviously, the display's aspect ratio is all wrong. Maps are
pretty badly distorted horizonally (normal displays are 3:4, the HP's is 2:5).
Maps are slow to draw; the map I've been using in my testing (MOSTLOUS.MAP)
takes 20 seconds to paint after hitting the space key. The little experience
that I've had with GPS operation on it already reveals that I had better be
careful on the update/redraw rate or it'll spend more time redrawing than
actually displaying something. I'm gritting my teeth about some of the more
complex maps that I might run into on the upcoming trip, anticipating 1-2 min.
redraw times.

Upgrade possibilities are numerous. There is an outfit (Times2 Tech) that has a
doublespeed modification for $50 consisting of a crystal and LC network with
software that twiddles the uP registers to tell it about the fast clock. If I
wasn't short on prep time I'd do it *now*! The same people also have an
on-board modification which adds 4MB of internal RAM. It's difficult to justify
at $400, considering that new 10MB PC cards show up from time-to-time at
$200-250. However, as soon as I get the DF interface going, I need to think
about the idea of adding additional serial ports, which would then take the PC
card slot, and there goes my online memory. Decisions, decisions...

[Muddying these waters A LOT is the upcoming IBM ThinkPad 110 - a full 486/33
palmtop, with a color display. And it runs Windows 95. Hmmm. Its estimated $2K
may be a lot for a palmtop, but considering the $1K already spent on the HP and
add-ons, and what I could still potentially add to it, the price difference to
get a real 486 with color display starts getting incrementally smaller.]

But even with the limitiations, the HP200LX a fun and useful way to run APRS.
Once the HSP is debugged, a couple of spots of Velcro go on the HP to turn it
```

into an on-dash display. Way cool! ;-)

(Note to BobB - would it be possible to have a tweak for the aspect ratio?)

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.5 on an HP200LX palmtop

---

659. Re: I need more COM Ports!

From: Mike Musick <71301.3106@compuserve.com>
Date: 28 Feb 96 11:36:32 EST
To: <aprssig@tapr.org>
Message-ID: <960228163631_71301.3106_FHJ70-2@CompuServe.COM>
Rendered body type: text/plain

Adding potential fuel to the COM port fire...

There is a fairly cheap ($90) device sold in the Macintosh market called "Port Juggler". It is a 1-to-4 serial port expander which uses a driver to handshake the routing selections between the attached devices and the computer. I've not used one yet, I just know it's out there.

This could be explored for those "beyond HSP" situations. How adaptable it would be to the DOS environment is up to the those code gurus who can write drivers. I envision a TSR which would take calls to COM1-COM4 and route them out a single port to this switch. Or, lacking that, APRS could do the switch handshaking itself.

Minor downside is that this device uses the Mac serial port connector standard, which is 8-pin mini-DIN.

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.5 on an HP200LX palmtop

---

660. [APRSSIG:7110] GPS monopole -Reply

From: DNIELSON@novell.com (Doug Nielson)
Date: Wed, 28 Feb 1996 11:52:21 -0500
To: aprssig@tapr.org
Message-ID: <s1344101.088@fromGW>
Rendered body type: text/plain

What frequency does GPS use?

>>> Bob Bruninga <bruninga@nadn.navy.mil> 28 Feb 96 08:05 >>>

Note, no attempt had been made to TUNE the whip, nor to match its nominal 25 ohm feed impedance to the 50 ohm GPS receiver input. This is my next step. To add a 1/4 wave 35 ohm matching stripline to gain back another dB or so..

---

661. Re: [APRSSIG:7110] GPS monopole

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Wed, 28 Feb 1996 12:10:17 -0500
To: aprssig@tapr.org
Message-ID: <199602281708.MAA19591@sun.lssu.edu>
Rendered body type: text/plain

>The whole reason that I wrote the SIGPLOT program was because I have
>always felt that a 1/4 vertical should be a good GPS antenna for
>most 2D applications. It has maximum gain at most elevation angles and a
>null overhead. GPS satellites directly overhead contribute nothing to
>your 2D fix, although they are useful for altitude.
>

Thank you, Bob, for a landmark attempt to remove the subjective element from a very important aspect of this SIG.

Pete, wa4hei

---

662. WinAPRS Update?

From: Rod Hignite <rhignite@interramp.com>
Date: Wed, 28 Feb 1996 12:32:48 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Message-ID: <01BB05D8.E2765020@rhignite.futron.com>
Rendered body type: text/plain

Keith,

March 1 is coming fast, any WinAPRS beta updates ready? Or, did I just
miss the posting information.

Tnx - Rod - KB3MK

---

663. KPC-3 compatibility

From: Pulsar@aol.com
Date: Wed, 28 Feb 1996 12:59:27 -0500
To: aprssig@tapr.org
Message-ID: <960228125925_335716551@emout07.mail.aol.com>
Rendered body type: text/plain

Hello;

Can anyone tell me if a Kantronics KPC-3 with ver. 6(GPS) firmware works well
with a
Peet Bros. U-II weather station in remote (standalone) mode?

Thanks in advance.
Paul Malarik - N8UMO

---

664. MIM Module and Telemetry Status

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 28 Feb 1996 18:30:06 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested) (Receipt notification requested)
Message-ID: <0210D31349F2E002*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

Bob (APR),

I may have missed it recently, but I'm wondering what the status of
the latest MIM module is. Is your plan to show it at Dayton? I'm very
interested in telemetry with APRS and can't quite decide from what I
read, if telemetry is actually "fully" implemented in APRS or not. If
I produce the packets from say a Basic Stamp PIC connected to a TNC
using the proper telemetry protocol, will APRS 7.5 process them?

Bottom line...when can I get a MIM module and use it with APRS?

Thanks,
Card Smith
N4FOR

---

665. Re: [APRSSIG:7116] GPS monopole -Reply

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Feb 1996 13:56:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960228135613.11954C@greatlakes>
Rendered body type: text/plain

On Wed, 28 Feb 1996, Doug Nielson wrote:

> What frequency does GPS use?

WB4APR REPLY COMMENT: 1575 MHz spread spectrum.

---

666. QST patch antenna

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Feb 1996 14:24:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960228135836.11954E-100000@greatlakes>
Rendered body type: text/plain

This is an update to my earlier ELEVATION data. I hooked up the LRF
Designs GPS patch antenna made from the plans in QST and ran it for 2
hours. It clearly has better performance than both the monopole and
TRACKPACK antenna above 35 degrees and slightly less below that.
I have added it to the previous data as shown below. I am using the
Garmin TRACKPACK antenna as a reference. All readings are in dB as
output by my GARMIN GPS-20 card.

```
ELEVATION  REFERENCE  TEST    QST DESIGN
ANGLE      TRAKPACK   WHIP    LRF PATCH
90 - 80       41     38  -3    50  +9
```

```
80 - 70       44     39  -5    51  +7
70 - 60       43     41  -2    49  +6
60 - 50       43     42  -1    49  +6
50 - 40       42     41  -1    48  +6
40 - 30       41     42  +1    35  -6
30 - 20       40     42  +2    37  -3
20 - 10       38     40  +2    38   0
```

**** THIS WAS ONLY A 2 hour test, but I wanted to get this posted to let
you see what is going on. These tests should be runovernight or for 24
hours in order to get a real smooth average. AND remember that AZimuth
is ignored. Meaning that one satelite to the east at 40 degrees
elevation will be averaged with any other satellite at any other azimuth
that also passes through 40 degrees. So if you are going to make
measurements, you must be sure to have a clear omnidirectional horizon
AND you must be using a TRUE omin antenna design in the horizontal plane.
Otherwise you will have to plot a 3D antenna pattern including AZIMUTH
data to account for anomolies in your azimuth pattern. Then you also
have to run for a full 24 hours or many days in order to get enough data
points. USE THIS AS A FIRST APPROXIMATION TOOL ONLY.

---

667. MIM's in production.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Feb 1996 14:41:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960228142535.11954F-100000@greatlakes>
Rendered body type: text/plain

On Wed, 28 Feb 1996, Cardwell H Smith wrote:

> I may have missed it recently, but I'm wondering what the status of
> the latest MIM module is. Is your plan to show it at Dayton? I'm very
> interested in telemetry with APRS...... and does APRS decode this
> data as is...?

WB4APR REPLY COMMENT: Yes, All APRS versions for the last year and ahalf
will decode the APRS telemetry packets. The MIM is in full production
and we have been selling them for a month. They are $89 plus $4 shipping
and handling. Please indicate type of GPS unit that you will be using....

Order from Clement Engineering, PO box 1086, Severna Park, MD 21146
phone 410 268-6736 and FAX 268-4612. Visa and MC accepted. For
technical details see APRS\README\TELEMTRY.txt or use email to
wiclement@aol.com.

---

668. SIGPLOT

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 28 Feb 1996 14:12:49 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB05E6.DB996220@lub10.onramp.net>
Rendered body type: text/plain

>> I suspect in order to use SIGPLOT.BAS you would need a GPS receiver
>> capable of outputting the $GPGSA NMEA data string. Not all the GPS
>> receivers out on the market today are capable of outputting this

>WB4APR REPLY COMMENT: Correct. It uses the GPGSV sentence. If your GPS
>does not output this sentence, then SIGPLOT will not work. But since the
>program is in BASIC, anyone whould be able to modify it to use whatever
>data is available from their GPS... Good luck.

Bob, I'd like to modify SIGPLOT to use GSA data, but I need to know the GSV format so I can make the
conversion. Can you fill me in on that?

Fantastic little program, BTW!

Larry Griffin - AB5GE <largriff@onramp.net>

---

669. Re: [APRSSIG:7109] Band Opening

From: ke4eer@AIRnet.net (William Nolle)
Date: Wed, 28 Feb 1996 14:44:28
To: aprssig@tapr.org
Message-ID: <199602282047.OAA03788@foo.garply.com>
Rendered body type: text/plain

>   We seem to have had another opening last night, as I
>received the following stations via these paths in NY City:
>

```
>        WA4TFZ    Charlottesville, VA   WIDE,WIDE,WIDE* <------- Boy that's a No No
>        WD4HDL-1  Goldview, VA          WIDE,WIDE*
>        K4LV      Great Falls, VA       WIDE,WIDE*
>
>     All three listed themselves as "#" wide's, and I got
>several sets of packets from each.  I've truncated the
>paths at the asterisks for clarity.
>
>     BTW , I also saw another pesky call (via GATE, so not
>included above,) think it was KE4EER???  ;-{) (just a gen-
>tle rib, Bill...)

Well Thanks, i was wondering if i was making the grade Hi.
>
>
>Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
> (Packet Radio: N2ZRC@N2NSA.#BRONX.NY.USA.NA)
>  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
>
```

---

670. Re: [APRSSIG:7118] WinAPRS Update?

From: sproul@ap.org (Mark Sproul)
Date: Wed, 28 Feb 1996 16:05:50 -0500
To: aprssig@tapr.org
Cc: rhignite@interramp.com
Message-ID: <v0213050aad5a7409da0e@[165.1.27.20]>
Rendered body type: text/plain

```
>Keith,
>
>March 1 is coming fast, any WinAPRS beta updates ready?  Or, did I just
>miss the posting information.
>


I plan on posting a new version tonight (Wed Feb 28th)

Mark

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

671. Re: [APRSSIG:7124] SIGPLOT

From: JAgrelo@aol.com
Date: Wed, 28 Feb 1996 16:36:48 -0500
To: aprssig@tapr.org
Message-ID: <960228163646_335906529@emout04.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-02-28 15:56:28 EST, you write:

>Bob, I'd like to modify SIGPLOT to use GSA data, but I need to know the GSV
>format so I can make the conversion.  Can you fill me in on that?

Watch your GPS data through a communications program like PROCOMM to see it
exactly.

Hope this helps.

 73 de Joe N2OOC
------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
------------------------------------------------------------------------------
```

----

672. Re: [APRSSIG:7123] MIM's in production.

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Wed, 28 Feb 1996 15:09:12 MST-0700
To: aprssig@tapr.org
Message-ID: <8A927814EFB@ceis.uhcolorado.edu>
Rendered body type: text/plain

Date: Wed, 28 Feb 1996 13:52:47 -0600 (CST)
Reply-to: aprssig@tapr.org
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: [APRSSIG:7123] MIM's in production.

"For technical details see APRS\README\TELEMTRY.txt or use email to wiclement@aol.com."

Good suggestion, but where is this located? I could not find it on TAPR'w web page.

Art Smith
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757 FAX - (303)270-4710
als@ceis.uhcolorado.edu

---

673. Re: [APRSSIG:7126] Re: WinAPRS Update?

From: ku0g@sprynet.com
Date: Wed, 28 Feb 1996 14:39:57 -0800
To: aprssig@tapr.org
Message-ID: <199602282239.OAA21339@sprynet.com>
Rendered body type: text/plain

Will the mailing list update also happen or are you just going to make a general posting, Keith? If you're still doing the mailing list to the original beta testers, please note my new EMail address!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

674. Re: [APRSSIG:7124] SIGPLOT

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Feb 1996 18:16:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960228180824.17886A-100000@greatlakes>
Rendered body type: text/plain

Larry Griffin asked for the format of the $GPGSV sentence that my SIGPLOT program uses to plot the elevation pattern of any given antenna. He wants to modify the program for a different GPS format that also reports satellite signal strength. I encourage anyone that wants to tackle the AZIMUTH display to also go for it..... But lemme know what you are doing so we dont duplicate efforts.

```
$GPGSV,X,X,XX,XX,XX,XXX,XX.......
       | | |   | |  |   |
       | | |   | |  |   * --- SNR                 } These four items
       | | |   | |  * ------- AZ                  } repeat for up to
       | | |   | * ---------- EL                  } 4 sats per GPGSV
       | | |   * ------------ Satellite PRN number} sentence
       | | * ---------------- No of sats in view
       | * ------------------ Message number 1 to 4
       * -------------------- Number of messages
```

So my GPS-20 is outputing two GPGSV's per two second period, This reports a total of 8 satellites. SIGPLOT.bas ignores the first three items, and only parses for the four individual satellite data

675. Re: [APRSSIG:7128] Re: MIM's in production.

From: JAgrelo@aol.com
Date: Wed, 28 Feb 1996 18:18:16 -0500
To: aprssig@tapr.org
Message-ID: <960228181815_155897328@mail02.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-02-28 18:05:14 EST, you write:

>Good suggestion, but where is this located? I could not
>find it on TAPR'w web page.

In the actual DOS APRS program itself, under the readme sub-directory:
APRS\README\TELEMTRY.TXT

Hope this helps.

73 de Joe N2OOC

Joe Agrelo/N2OOC
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web http://home.navisoft.com/agrelo/ae.htm
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

---

676. Re: [APRSSIG:7128] Re: MIM's in production.

From: "Jerry" <jerdptro@xnet.com>
Date: Wed, 28 Feb 1996 17:48:54 +0000
To: aprssig@tapr.org
Message-ID: <199602282346.RAA09909@flood.xnet.com>
Rendered body type: text/plain

ART,

The file is located in the APRS DOS version
...C:\aprs\readme\telemtry.txt

Good Luck,

> Date: Wed, 28 Feb 1996 16:20:59 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: "Art Smith" <ALS@ceis.uhcolorado.edu>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7128] Re: MIM's in production.

> Date: Wed, 28 Feb 1996 13:52:47 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7123] MIM's in production.
>
> "For technical details see APRS\README\TELEMTRY.txt or use email to
> wiclement@aol.com."
>
> Good suggestion, but where is this located? I could not
> find it on TAPR'w web page.
>
>
>
>
>
> Art Smith
> Facilities Engineer, Engineering Services
> University Hospital, Denver, Colorado, USA
> Voice - (303)270-3757 FAX - (303)270-4710
> als@ceis.uhcolorado.edu
>
>

Jerry Di Pietro
N9VHW

Streamwood, IL
jerdptro@xnet.com

---

677. Re: [APRSSIG:7112] RE: I need more COM ports

From: schiers@ibm.net (Robert Schiers)
Date: Wed, 28 Feb 96 23:39:14
To: aprssig@tapr.org
Message-ID: <199602282347.XAA103711@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <CMM-RU.1.4.825522801.ksproul@hardees.rutgers.edu>, on 02/28/96 at
10:02 AM,
   Keith Sproul <ksproul@hardees.rutgers.edu> said:


>I have 6 (YES SIX) Comm ports on my Macintosh, and I could add more, 4 at
>a time, just by plugging in another card..  The only limit is the number
>of slots in the machine.  I currently use 3 comm ports all of the time,
>and will be using another soon with the DFJr RDF unit..

>For testing, I have even had two GPS units running at the same time...

>And that is all JUST for APRS..



>Keith

>Keith Sproul                             Ham Radio: WU2Z

I also use six ports in my PC....it is no big deal, IF the
software is written properly, i.e., for dos apps, allowing
the user to specify the address and interrupt for any required
 serial
ports, for os/2 apps it is specified in the config.sys,
 for Win95, it is
in setup. The big problem is dos apps...they
 must have coded in the
ability to specify address and interrupt,
 os/2, win95, and Macs handle it
more directly in that the apps
 look to the OS for com port handles, so
whatever the OS knows
 about can be used. It is not hard in DOS, but
requires more
 original code.


hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

---

678. Re: [APRSSIG:7128] Re: MIM's in production.

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 28 Feb 1996 17:51:43 -0600
To: aprssig@tapr.org
Message-ID: <199602282351.RAA30783@tbc2.tbcnet.com>
Rendered body type: text/plain

```
The "APRS\README\TELEMTRY.txt" referred to is part of the README directory
within the DOS APRS program.

The README directory has many docs containing a lot of good info regarding
APRS.




>Date:          Wed, 28 Feb 1996 13:52:47 -0600 (CST)
>Reply-to:      aprssig@tapr.org
>From:          Bob Bruninga <bruninga@nadn.navy.mil>
>To:            aprssig@tapr.org
>Subject:       [APRSSIG:7123] MIM's in production.
>
>"For technical details see APRS\README\TELEMTRY.txt or use email to
>wiclement@aol.com."
>
>Good suggestion, but where is this located? I could not
>find it on TAPR'w web page.
>
```

```
>
>
>
>
>Art Smith
>Facilities Engineer, Engineering Services
>University Hospital, Denver, Colorado, USA
>Voice - (303)270-3757  FAX - (303)270-4710
>als@ceis.uhcolorado.edu
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com

http://tbcnet.com/~jleonard/n9vjq.htm
http://tbcnet.com/~jleonard/hamfest.htm
```

---

679. Re: [APRSSIG:7128] Re: MIM's in production.

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 28 Feb 1996 18:58:03 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad5aa9347a82@[199.1.154.48]>
Rendered body type: text/plain

```
>"For technical details see APRS\README\TELEMTRY.txt or use email to
>wiclement@aol.com."
>
>Good suggestion, but where is this located? I could not
>find it on TAPR'w web page.
>


The APRS Software documentation or the rutgers.edu site
NOT the TAPR WWW page.

Remember, only MAC users need not read software documentation :-)



73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

680. please remove from list

From: CVEC16A@prodigy.com (MR FOSTER W NYE)
Date: Wed, 28 Feb 1996 20:00:41 EST
To: aprssig@tapr.org
Message-ID: <096.02343774.CVEC16A@prodigy.com>
Rendered body type: text/plain

```
i have tryed to remove myself from your list but the mail just keeps
comming
my address is cvec16a@prodigy.com   thanx  foster w nye
```

---

681. Re: [APRSSIG:7108] Re: I need more COM Ports!

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 28 Feb 96 20:30:41 EST
To: aprssig@tapr.org
Message-ID: <199602290131.UAA17808@gold.interlog.com>
Rendered body type: text/plain

```
On Wed, 28 Feb 1996 07:31:02 -0600 (CST) you wrote:

>In <313377a5.143764867@mail.cdx.net>, on 02/27/96 at 03:36 PM,
>   rkramer@cdx.net (Ronald Kramer) said:
>
>>On Tue, 27 Feb 1996 10:58:49 -0600 (CST), you wrote:
>
>
>>>Most programs never use more than 2 ports at a time anyway!  Though, I
>>>am sure that with MULTITASKING operating system, then you would want
>>>everything accessible at the same time.  But for my DOS world, it is
>>>fine.
>>>
>>Well I know of one that needs Three to run and that is APRS !!!!!!! com 1
>>tnc
>>com 2 mouse
```

```
>>com 3 or 4 wx u2000
>>but I can not run the u2000 with aprs because it does not support more
>>than two irq's on the com ports
>
>
>>Regards, Ron ...                            73 de Ron
>>         Internet: rkramer@cdx.net (Ron Kramer)
>>         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>
>Bravo! This is EXACTLY what I was getting at with my message about
>software
 authors "waking up and smelling the coffee"...here is (and Bob
>has
 humorously noted the irony), the classic example of a program that
>really
 does require 3 com ports, but only two interrupts are available
>because
 of the SOFTWARE.
>
>Don't you guys (programmers) realize how many of us are indeed using
>multi-tasking OS's...we've only been doing it in increasing numbers
 for
>years (since the advent of DesqView). The days of programming for
 the
>lowest common denominator dedicated 8088 are over...not that it has
 to be
>skipped or ignored, but really....the entry level machine is now
 a 486
>with at least 4 and most likely 8 mb of ram and even an AT bus
 is capable
>of supporting 8 user interrupts, so it's not like we are
 asking for
>something only the elite few have available.
>
>Don't take this the wrong way...it is not meant as a put down, rather
 a
>PLEA...let's make better use of what is staring us in the face...
 any 286
>or above machine has the ability to support 8 user interrupts,
 and buying
>another machine to dedicate to every author's exclusive
 requirements for
>com1/2 and interrupts 4 and 3 respectively, is (to
 quote Lamar Alexander
>w/r to Steve Forbes), "nutty".
>
>73,
>
>

I agree a whole bunch...

Bob, we really need it.

BTW, can I send you a personal cheque to upgrade my aprs for WX.  It would be a
Canadian Cheque, but for US funds.
cheers...mike

Mike Walker                               mwalker@interlog.com
127 High St. W.                               rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

682. Re: [APRSSIG:7115] Re: I need more COM Ports!

From: quarry@q.continuum.net (Chip)
Date: Wed, 28 Feb 1996 23:07:48 -0500
To: aprssig@tapr.org
Message-ID: <v02130503ad5ad37e4cdb@[199.0.52.94]>
Rendered body type: text/plain

```
At 11:42 2/28/96, Mike Musick wrote:

> Adding potential fuel to the COM port fire...
>
> There is a fairly cheap ($90) device sold in the Macintosh market called "Port
> Juggler". It is a 1-to-4 serial port expander which uses a driver to handshake
> the routing selections between the attached devices and the computer. I've not
> used one yet, I just know it's out there.
```

```
I don't think this would help.  The devices attached to a juggler can't
be accessed at the same time ... it switches (electronically) between
them ... I think it would give the TNC fits!


Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net  (alternate: emmet2@aol.com)
    -   FidoNet to: Chip@1:320/301.0 or .1
my home page:     http://q.continuum.net/~quarry/
TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

683. Re: SIGPLOT

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 28 Feb 1996 22:08:26 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0629.9B6F2980@lub10.onramp.net>
Rendered body type: text/plain

```
Bob Bruniniga wrote:
>Larry Griffin asked for the format of the $GPGSV sentence that my SIGPLOT
>program uses to plot the elevation pattern of any given antenna.  He
>wants to modify the program for a different GPS format that also reports
>satellite signal strength.  I encourage anyone that wants to tackle the
>AZIMUTH display to also go for it.....  But lemme know what you are doing
>so we dont duplicate efforts.

Well, fooey.  I was thinking the $GPGSA sentence had the az/el/snr info but I
was wrong!  On further examination, it doesn't look like my Mot OnCores can
send any sentences with that info.  So I guess I'm outta luck with these rcvrs.
I presume the Garmin-45 can send $GPGSV?

BUT, it looks like Bob's little program just needs a _little_ more work to add
azimuth plotting.
Then it should be able to provide a plot that would make a terrific PHG circle
that could maybe be overlayed on the maps.
You'd be able to see just what effects are caused by the surrounding terrain.
Of course it would need some scaling to account for PHG factors, but the
general shape would probably be pretty close, wouldn't it?

Larry Griffin <largriff@onramp.net>
```

---

684. (no subject)

From: Ifog@aol.com
Date: Thu, 29 Feb 1996 07:46:11 -0500
Message-ID: <199602291246.HAA21330@emout05.mail.aol.com>
Rendered body type: text/plain

```
OM ports

Can anyone suggest a manufacturer of a "com prot expander" that can be sued
with a portable IBM compatible PC? Preferably it shoud use D-style connectors
for the device side. I find the edge connectors used with a PCMCIA card to be
very unreliable in the field.

Thanks,

Sid Bennett, K1AW
```

---

685. (no subject)

From: ykchang@hyowon.cc.pusan.ac.kr (Yongku Chang)
Date: Thu, 29 Feb 1996 22:46:29 +0900
To: aprssig@tapr.org
Message-ID: <9602291346.AA28645@hyowon.cc.pusan.ac.kr >
Rendered body type: text/plain

```
Here is Civil Engineering Dept. of Pusan Univ. in South Korea.

Because I have a problem about APRS, please help me !

-----------------------------------------------------------------------------------------
Problem : After HSP mode is contacted to PC, APRS configuration is done between PC and
          TNC. In APRS configuration, it is saved with ALT-S key.  When APRS
          configuration is saved, APRS need to validation number, GPS number etc. But I
          don't know this numbers. How do I put there to some number ? And if for this I
          registrate any group, Do I registrate there in any method ?
-----------------------------------------------------------------------------------------
```

686. Cross-Country APRS Event

From: Mike Musick <71301.3106@compuserve.com>
Date: 29 Feb 96 12:45:24 EST
To: <aprssig@tapr.org>
Message-ID: <960229174524_71301.3106_FHJ74-2@CompuServe.COM>
Rendered body type: text/plain

```
=====================================

             CROSS-COUNTRY APRS EVENT ANNOUNCEMENT

             =====================================

     Starts: 3/1/96

     Ends: 3/16/96

     Route: US66/I-40 from St. Louis to Barstow, CA;
            One week in central CA and Bay Area;
            I-80 (approximately) return to St. Louis.

     Frequency: 145.790 MHz; exc. California: 145.010

     Call: N0QBF

     Symbol: Jeep (to represent my 4x4 Explorer)

     Via: WIDE,WIDE (we're running 50W)

     Estimated Itinerary:

        3/1 - St. Louis, Springfield, Joplin
        3/2 - OK City, Amarillo, Tucumcari
        3/3 - Tucumcari, Albuquerque, Flagstaff
        3/4 - Flagstaff, Needles, Barstow
        3/5 - Calif. High Desert incl. Tehachapi
        3/6 - Bakersfield, Paso Robles
        3/7 - (off)
        3/8 - Paso Robles, Stockton
        3/9 - (off)
        3/10 - Stockton to Bay Area
        3/11, 12 - Bay Area (at random)

        Return trip via I-80 starts 3/13 and is not tightly
        scheduled, but expect the *approximate* cities:

        3/13 - Oakland, Sacramento, Reno
        3/14 - Elko, Salt Lake City, Laramie
        3/15 - Cheyenne, Lincoln, Omaha (bypass)
        3/16 - Kansas City, Jefferson City, St. Louis <whew!>

DISCLAIMER!: This is our *vacation*, so all of the above is subject to
equipment glitches, schedule dynamics, and random spousal interference! ;-)

----------------------------------------------------------------
```

Sorry about the short notice, gang. After several late evenings out in the truck in sub-freezing temps, I *finally* got all the bugs out of the mobile APRS setup last night, with a test drive at 1 AM! A recalcitrant MacAPRS in the house (my fault - baud rate!) didn't help things, either. It worked fine this morning on the way into the office, so I think it's solid.

Unless someone objects or advises otherwise, I'll leave the POS interval at 3 minutes.

I will likely get protests about leaving "BEEPS" on, so if I don't respond to a message or bulletin, that's because I'm silent running and obviously won't hear the alert. Sometimes the system will be in tracker-only mode, too. Just ignore any GPS commands coming over the frequency when I forget to change TNC modes before switching! <grin!>

[Suggestion for BobB - it would be nice to selectively silence beeps by type. Routine transmit beeps and digipeat-loss alarms get annoying when running mobile for any length of time, yet we still need to know about incoming bulletins, messages, and new stations when they happen. But then, maybe this feature is already there and I just haven't chanced into it yet.]

I will be "unsubscribing" the maillist while we're gone so my mailbox doesn't

```
collapse under the weight of the normal traffic here, but will be on until
midday tomorrow (Friday, 3/1). I'll re-subscribe on returning, and also
retrieve the archived messages.

Looking forward to a fun trip!

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.5 on an HP200LX palmtop
```

687. Re: Antenna elevation plotting

From: N0AOT@aol.com
Date: Thu, 29 Feb 1996 11:26:49 -0500
To: bruninga@nadn.navy.mil, aprssig@tapr.org
Message-ID: <960229112649_156499893@mail04.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-02-27 11:42:20 EST, you write:

>I just wrote a program called SIGPLOT.bas which will plot a complete
>elevation profile of your omni antenna.  It uses the RF from the
>constellation of GPS satellites as a signal source, and any cheap GPS
>receiver to give you AZ, EL and signal strength!  Just scale any antenna
>design to 1575 MHz and place it outside, hook up a GPS receiver to your
>serial COM port, and watch the profile develop.
>

Hi Bob,

Very clever idea you came up with to instrument the performance of GPS
antennas! I have been playing around with various versions of the QST patch
antenna, but it is very hard to find antenna test equipment that works up at
1575 mhz. Your idea should be very useful to us experimenters.

My subjective experience with the QST patch antenna is that it works very
well for higher elevations, but is worse for the lower angles than their
standard quadf antenna. I will try out your program in order to get actual
numbers to verify this.

I have a Garmin 45, and will try out your program shortly. I am wondering if
changing the spacing on patch antenna might balance out the pattern better
for the lower angles. Have you seen any software that would be useful in
modeling patch antennas? It would sure save a lot of cutting and trying!

Also, I was pondering if the 1575 mhz patch antenna could be scaled to 440
mhz for
possible pacsat email/aprs use?

--Bob Carlson, n0aot@amsat.org
```

688. K-NET Bugs

From: Dave Kaplan <dkaplan@pionet.net>
Date: Thu, 29 Feb 1996 11:19:16 -0600
To: aprssig@tapr.org
Message-ID: <9602291719.AA32691@ELWOOD.pionet.net>
Rendered body type: text/plain

```
The following has been ported over from the Civil Air Patrol communication
reflector due to the potentail APRS interest.  Dave

>X-Sender: hartley@goodguy.goodnet.com
>Date: Wed, 28 Feb 1996 13:20:01 -0700
>To: cap-comm@ca0408.cap.gov
>From: hartley@goodnet.com (Hartley Gardner)
>Subject: K-NET Bugs
>Sender: CAP-Comm-Owner@CA0408.CAP.GOV
>
>Hello out there!
>
>     We implemented the Kantronics K-NET software for KPC-3 at one of our
node sites
>here in Arizona, and a bug has shown up!  It seems that the K-NET node
won't drop a
>node from its node list, even though the Obsolesence count has dropped to
zero!  I
>spoke to an engineer at Kantronics, and they seemed to be aware of the
problem, and
```

>told me that they would exchange PROMs when the fix came out - but they
needed the
>serial number of the old chip (which is written on the chip ONLY (not on
the box)) to
>make the exchange.
>   I since found some other problems that are probably related to the same
>software glitch and have communicated this to them as well.
>
>BTW, they have an E-mail address of: service@kantronics.com
>
>
>73 DE Hartley AZ0061
>

---

689. PVT-6

From: g_davis@qlc.com (Garren Davis)
Date: Thu, 29 Feb 96 11:17:46 PST
To: aprssig@tapr.org
Message-ID: <9602291917.AA20648@scorpio.qlc.com>
Rendered body type: text/plain

I have a Motorola model PVT602N323 GPS unit. I
bought it from someone here on the list a few
months ago. I need to know if this unit puts out
a 'one pulse per second' signal. Does anyone here
know about this unit or can they point me to someone
that does.

Garren Davis

---

690. Re: [APRSSIG:7141]

From: Scott Miller <scottm@sierra.net>
Date: Thu, 29 Feb 1996 10:45:25 -0800
To: aprssig@tapr.org
Message-ID: <3135F445.3EA0@sierra.net>
Rendered body type: text/plain

Yongku Chang wrote:
>
> Here is Civil Engineering Dept. of Pusan Univ. in South Korea.
>
> Because I have a problem about APRS, please help me !
>
> --
> Problem : After HSP mode is contacted to PC, APRS configuration is done between PC and
>   TNC. In APRS configuration, it is saved with ALT-S key. When APRS
>   configuration is saved, APRS need to validation number, GPS number etc. But I
>   don't know this numbers. How do I put there to some number ? And if for this I
>   registrate any group, Do I registrate there in any method ?
> --
read the registration.txt files that come with APRS

---

691. Re: Cross-Country APRS Event

From: Mike Musick <71301.3106@compuserve.com>
Date: 29 Feb 96 18:02:00 EST
To: <aprssig@tapr.org>
Message-ID: <960229230159_71301.3106_FHJ42-1@CompuServe.COM>
Rendered body type: text/plain

>Colorado Feels Slighted!

Oops. Sorry, Art! No slight intended. If we had time left, we'd venture south
to visit a ham friend in Colorado Springs.

Aside from the snow/mountain pass issues, if truth be told, I'm a railfan. So
one of the main purposes of the northern E/B route is to take-in the Union
Pacific in Wyoming and Nebraska, where they run 'em fast, furious, and
frequent!

The W0TX digi is noted. If I see traffic from it and am in a position to change
the configuration, I'll do so. Manipulating the palmtop and driving, however,
are mutually exclusive activities!

   ...mike musick/N0QBF

---

692. NEW APRS DIGI

From: Scott Miller <scottm@sierra.net>
Date: Thu, 29 Feb 1996 13:51:51 -0800
To: aprssig@tapr.org
Cc: johnr@sierra.net
Message-ID: <31361FF7.3BD2@sierra.net>
Rendered body type: text/plain

Hi all,
I think one of my two new APRS Digi's is going on line today.
It's call is KE6RKE-3,and it will connect Reno,Carson City,
South Lake Tahoe and even Falon Nv.to Ca.on 145.01 it's position
path of APRS via wide will let it be seen by Uall in Ca.I hope.
It's location will say APRS(WIDE)Digi !3908.47N/12014.40W//A=008637
I am very excited//A=008637 is way up there...k
Thanks for all the help Scott 73 & hope we all see some new
stations on the map tonight.

---

693. APRS Standard TINY Intface cable

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Feb 1996 23:45:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960229233842.3499A-100000@greatlakes>
Rendered body type: text/plain

Tonight while completing a TINY self-contained stand-alone tracker, I
needed to be able to both program the GPS and the TNC (MIM module).
I used a pair of 1/8 inch stereo phone jacks. Then I made a serial port
cable for my laptop with a 1/8 inch stereo PLUG on the end. If you use
the "closed circuit" type stereo jacks, you have a total of four switched
contacts that can give you a LOT of flexibility as to what is connected
to what, when.

One JACK is labeled GPS, the other is labeled TNC. All I do is plug
into the one I want to communicate with. The output of the GPS is
crossconnected to the input of the TNC when nothing is plugged in.
But as soon as you plug into the TNC jack, it disconnects the GPS.
In this case, I am only using one of the "closed circuit" contacts.
This is the same configuration that I used for the "FOOTBALL HELMET".

In once sense, the phone jacks are less waterproof than a DB-9, but
by countersinking them so they mount flush, (Had to do that since the
PVC pipe was too thick anyway) then you can seal them perfectly with
a simple piece of tape.

The point of all this, is that the three wire stereo phone plug/jacks
make excellent serial port connectors, especially with the closed
circuit switching contacts. SO I propose a standard. The TIP is
RXD going to the PC, the RING is TXD and the sleeve, of course, is
ground. Notice that this plug will also work if you PLUG it into some
of the GPS units that use a 1/8 inch plug for their NMEA out.

```
     APRS "standard"                AT STYLE
     1/8 inch SERIAL                 DB-9 F
     STEREO PLUG                   serial port
     ---------------               -----------

        TIP  *-----------------------* 2 RXD

        RING *-----------------------* 3 TXD

        SLVE *-----------------------* 5 GND
```

Consider it. If you need a tiny 3 wire serial interface, this sure is
pretty small. Without a standard we all have a 50:50 chance of doing
it differently, hi hi.

---

694. Re: [APRSSIG:7137] Re: I need more COM Ports!

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Thu, 29 Feb 1996 19:23:19 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960229191747.15996A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

In regards to everybody's comments, pleas, etc. about more COM ports
needed in APRS:

I don't think you all realise that the problem with only being able to
use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
BASIC that it only supports COMs 1 and 2 without having to write machine

language code and intergrate (sp?) it into the Basic program. At least
that's what I see as being the main problem after a quick scan of Basic's
online help.

If that's not the case, I'd love to be wrong!

Michael

```
--
Michael Markmann VE4MJM               |
ve4mjm@draco.bison.mb.ca (Internet)   |     ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)   |         Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

March 1996

Original source file: aprssig.9603
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-03/TAPR-APRS_1996-03.txt

1. Re: APRS and Wx information

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Mar 1996 09:47:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960301094458.6999E-100000@greatlakes>
Rendered body type: text/plain

On Fri, 1 Mar 1996, Bob Derderian wrote:

> You have the telemetry page (Alt-T), why not a page to collect the Wx
> information (Alt-W), sort of in the format of the telemetry page....

WB4APR REPLY COMMENT:

It is sort of already there! Just hit JUST-WX while you are on the P-LIST
and ONLY WX stations will be shown in tabular form.

---

2. Re: [APRSSIG:7148] NEW APRS DIGI

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Mar 1996 09:39:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960301093717.6999B-100000@greatlakes>
Rendered body type: text/plain

On Thu, 29 Feb 1996, Scott Miller wrote:

> It's location will say APRS(WIDE)Digi !3908.47N/12014.40W//A=008637
> I am very excited//A=008637 is way up there...k

WB4APR REPLY COMMENT: Be sure to put in the PHG format so that
appropriate range rings will be plotted. I assume that 8637 is height
above sea level, and average terrain is probably 6000' ? so your HAAT is
probably about 2600?

---

3. Re: [APRSSIG:7150] Re: I need more COM Ports!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Mar 1996 09:44:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960301094027.6999C-100000@greatlakes>
Rendered body type: text/plain

On Thu, 29 Feb 1996, Michael Markmann wrote:

> I don't think you all realise that the problem with only being able to
> use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
> BASIC that it only supports COMs 1 and 2.

WB4APR REPLY COMMENT: Exactly. And trying to write special code for all
the possible additional combinations and all the potential conflicts is
just not worth it. Now that APRS works with a BUS mouse, then it can do
everything it needs with 2 ports. If everyone else's softare is so
flexible, then move all their COMM needs to COM 3 through COM n, and leave
APRS alone, hi hi...

---

4. Re: [APRSSIG:7151] X1J-4 APRS usage

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 01 Mar 1996 08:16:10 -0500
To: aprssig@tapr.org
Message-ID: <199603011314.IAA29643@sun.lssu.edu>
Rendered body type: text/plain

>Howdy folks,
>
>I'm kind of suprised in the amount of email I received in regard to my
>last posting. How many people are using X1J-4 APRS Digis??? Can anyone
>give some advise on their set-up/usage?
>
>Tnx es 73
>
>Al Z., N3KAE
>ldajz@epix.net

```
>
   Using an X1J release 2 node here, configured for an APRS digi. Was
originally configured for TCP/IP and NETROM, but no real support or interest
so I configured it remotely as the APRS digi.

   What do you want to do with it? Intended use determines how you will
configure it when the eprom is "burned" and the choice of arguments for the
different parameter and mode subcommands.

   I did not get overly fancy with mine, and I am sure all is not as you
may want it, but basically I disabled the IP router by leaving all the
tables blank, thereby making that function brain dead, due to massive
ignorance. The NETROM function is also cut off by blank tables and several
parameter/mode entries. The digi function is left intact for APRS use and
keyboard to keyboard. I and one other person can connect and get stats
, etc. and control it, everyone else is refused.

   The software is well documented, specific questions I may be able to answer
so you do not have to reinvent the wheel.

                                      Pete,wa4hei
```

---

5. Re:Internet access

```
From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Fri, 01 Mar 1996 07:41:50 -0500
To: aprssig@tapr.org
Message-ID: <199603011240.HAA29560@sun.lssu.edu>
Rendered body type: text/plain
```

```
Newsflash!!!!!?

   For those that must spend the long green from the cedar swamp outback of
America, comes this nugget of Rumor?.....
   ATT offers its customers World Net Service. Internet access 5 hrs per
month free,  $2.40 per hour over 5 hrs, or $20 unlimited per month. If the
rumor is true, rural America has been connected to the rest of the world.
   Call 1-800-967-5363 for software package and?

                                  Pete, wa4hei

PS. This should not be construed as an advertisement!!!!!!
```

---

6. APRS users in Daytona/Cocoa area?

```
From: rwf <rwf@mindspring.com>
Date: Fri, 1 Mar 1996 12:18:16 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960301121446.2c5fe032@mindspring.com>
Rendered body type: text/plain
```

```
Sorry for using the SIG, but I saw someone here from that area earlier and
need to get back in touch.
Any folks in the above area watching? Looks like my marathon Florida trip
will have me there this weekend and I am always looking to talk APRS, ATV or
other Ham interests.  Pls message me back via email and maybe we can all et
together.  I'll be running APRS mobile on 145.79, but think the closest digi
is still the low one at AES in Orlando.  Do you have a digi in Volusia County?

Thanks
Ralph
```

---

7. Re: [APRSSIG:7145] PVT-6

```
From: rwf <rwf@mindspring.com>
Date: Fri, 1 Mar 1996 12:02:48 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960301115918.2dd75bc6@mindspring.com>
Rendered body type: text/plain
```

```
At 01:31 PM 2/29/96 -0600, Garren Davis wrote:
>
>
>a 'one pulse per second' signal. Does anyone here
>know about this unit or can they point me to someone
>that does.
>
None of the Moto Oncores I have seen here on the net have the optional
(100.00) 1pps signal.
I *think* Motorola can add it though.
```

Ralph N4NEQ

---

8. Re: [APRSSIG:7139] Re: SIGPLOT

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 1 Mar 1996 11:03:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603011703.LAA13852@solar.cs.tamu.edu>
Rendered body type: text/plain

Larry Griffin sez:
>
> Well, fooey. I was thinking the $GPGSA sentence had the az/el/snr info but I
> was wrong! On further examination, it doesn't look like my Mot OnCores can
> send any sentences with that info. So I guess I'm outta luck with these rcvrs.
> I presume the Garmin-45 can send $GPGSV?

Oh, but you're wrong! The OnCore does support GSV: $PMOTG,GSV,n, where n is periodicity in seconds.

73, gerry

---

9. Re: [APRSSIG:7141]

From: rwf <rwf@mindspring.com>
Date: Fri, 1 Mar 1996 12:02:45 -0500
To: ykchang@hyowon.cc.pusan.ac.kr (Yongku Chang)
Cc: aprssig@tapr.org
Message-ID: <2.2.16.19960301115916.2dd76cca@mindspring.com>
Rendered body type: text/plain

Youngku-

If you want the HSP to work, you must get a registration from WB4APR who is the author of APRS.

The information is in a file called register.txt in the readme subdirectory.

The APRS registration is $24.00 US   and the GPS registration is another $14.00 US.

73
Ralph Fowler N4NEQ

>

---

10. Re:Internet access

From: Will Flor <willf@rrgroup.com>
Date: Fri, 01 Mar 96 12:25:09 -0800
To: aprssig@tapr.org
Message-ID: <9603011825.AA05287@inc.net>
Rendered body type: text/plain

I quote, from AT&T's web site:

"Local, long distance, or 800 facility access charges to reach AT&T WorldNet Service will also apply for all pricing plans"

Doesn't sound any better than AOL, which also allows "rural America [to be] connected to the rest of the world"...for a price, of course. AT&T also is non-Mac compatible.

73 de Will KB9JTT

From: pmarkham@sun.lssu.edu[SMTP:pmarkham@sun.lssu.edu]
Sent: Friday, March 01, 1996 10:09AM
To: aprssig@tapr.org
Subject: [APRSSIG:7156] Re:Internet access

Newsflash!!!!!?

For those that must spend the long green from the cedar swamp outback of
America, comes this nugget of Rumor?.....
ATT offers its customers World Net Service. Internet access 5 hrs per month free, $2.40 per hour over 5 hrs, or $20 unlimited per month. If the
rumor is true, rural America has been connected to the rest of the world.
Call 1-800-967-5363 for software package and?

Pete, wa4hei

PS. This should not be construed as an advertisement!!!!!!

11. Re: [APRSSIG:7156] Re:Internet access

From: Scott Miller <scottm@sierra.net>
Date: Fri, 01 Mar 1996 10:08:59 -0800
To: aprssig@tapr.org
Message-ID: <31373D3B.26C2@sierra.net>
Rendered body type: text/plain

Peter Markham wrote:
>
>
>   Newsflash!!!!!?
>
>   For those that must spend the long green from the cedar swamp outback of
> America, comes this nugget of Rumor?.....
>   ATT offers its customers World Net Service. Internet access 5 hrs per
> month free, $2.40 per hour over 5 hrs, or $20 unlimited per month. If the
> rumor is true, rural America has been connected to the rest of the world.
>   Call 1-800-967-5363 for software package and?
>
>   Pete, wa4hei
>
> PS. This should not be construed as an advertisement!!!!!!ya right but don't forget about those long distance charges!!!

12. Re: [APRSSIG:7156] Re:Internet access

From: ku0g@sprynet.com
Date: Fri, 1 Mar 1996 12:17:45 -0800
To: aprssig@tapr.org
Message-ID: <199603012017.MAA12301@sprynet.com>
Rendered body type: text/plain

According to the newspaper article I read, the AT&T Internet service will not be
available until March 14th. In addition, the FREE service will ONLY be offerred
to customers of AT&T Long Distance at first...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

13. Re: [APRSSIG:7154] Re: I need more COM Ports!

From: Michael Walker <mwalker@gold.interlog.com>
Date: Fri, 1 Mar 1996 15:24:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960301151931.19769A-100000@gold.interlog.com>
Rendered body type: text/plain

Bob,
We understand that it is a real problem for you to code the com port
easily, so, if you happen to find an easy way to implement it, then
it should ask the following:

com port number
hex address (there is NO standard after com 2)
IRQ value (in either hex or decimal)

I can talk to Tom Dandrea (he write log-eqf) and ask how he did it if you
like. The users that use an operating system that does more are always
juggling ports around to find something that fits.

Many thanks in advance and we are hoping that you will keep this in the
back or your mind.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

```
On Fri, 1 Mar 1996, Bob Bruninga wrote:

> On Thu, 29 Feb 1996, Michael Markmann wrote:
>
> > I don't think you all realise that the problem with only being able to
> > use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
> > BASIC that it only supports COMs 1 and 2.
>
> WB4APR REPLY COMMENT:  Exactly.  And trying to write special code for all
> the possible additional combinations and all the potential conflicts is
> just not worth it.  Now that APRS works with a BUS mouse, then it can do
> everything it needs with 2 ports.  If everyone else's softare is so
> flexible, then move all their COMM needs to COM 3 through COM n, and leave
> APRS alone, hi hi...
>
>
>
```

---

14. Re: [APRSSIG:7154] Re: I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Fri, 01 Mar 96 18:31:10
To: aprssig@tapr.org
Message-ID: <199603012050.UAA40114@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <Pine.SUN.3.91.960301094027.6999C-100000@greatlakes>, on 03/01/96 at
09:23 AM,
   Bob Bruninga <bruninga@nadn.navy.mil> said:

>On Thu, 29 Feb 1996, Michael Markmann wrote:

>> I don't think you all realise that the problem with only being able to
>> use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
>> BASIC that it only supports COMs 1 and 2.

>WB4APR REPLY COMMENT:  Exactly.  And trying to write special code for all
> the possible additional combinations and all the potential conflicts is
>just not worth it.  Now that APRS works with a BUS mouse, then it can do
>everything it needs with 2 ports.  If everyone else's softare is so
>flexible, then move all their COMM needs to COM 3 through COM n, and
>leave APRS alone, hi hi...

And this is just what every author tends to do...let the other
 guys
worry about it. In any case, the market always solves the
 problem. Some
one sees the need, speaks to the market and
 wa la...we have WinAPRS. No
more port conflicts. No more
U-2000 overruns. No more failing to run in the background on
 a
multitasking machine.

And it is not "everyone else's software" that is so flexible, it is
 the
very few...that is why people are whining and sniveling (me
 included),
about more software authors "seeing the light" and letting
 the USER
choose the address and interrupt for com ports.

Keep in mind, I am not lobbying for dos APRS to do anything ...I don't
use it anymore. I am lobbying for software authors in general, and more
specifically in the ham community to move away from the assumption that
their program owns the machine and is its sole use. That just isn't true
anymore, nor should it be. End of thread for me. I will reserve my
comments for specific authors of software that I run or want to run.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

---

15. Re: Internet access

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 01 Mar 1996 17:44:19

To: APRSSIG@tapr.org
Message-ID: <199603012244.RAA02433@mail-e2a-service.gnn.com>
Rendered body type: text/plain

```
>Subject:       Re:Internet access
>
>         Newsflash!!!!!?
>
>PS. This should not be construed as an advertisement!!!!!!
>

     Hmmm.  NOT an advertisement.  Aside from the fact it
names the product, describes it, says who's got it, gives
a price for it as well as a toll-free number to sign up
for it...why in the world would I get the idea it was an
advertisement?  Excuse me, I thought this SIG was about
APRS with occasional forays into GPS and DIRECTLY related
subjects.  So how could I possibly get the impression this
was an advertisement.

     I remeber hearing some old saying that goes "If it
looks like a duck, quacks like a duck and waddles like a
duck..."


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@N2NSA.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

16. Test message (Again)

From: ke4eer@hiwaay.net (William Nolle)
Date: Fri, 01 Mar 1996 17:37:11
To: aprssig@tapr.org
Message-ID: <9603012337.AA15137@fly.HiWAAY.net>
Rendered body type: text/plain

```
Changed internet addresses again

Bill KE4EER
ke4eer@hiwaay.net
```

17. Re: [APRSSIG:7155] Re: X1J-4 APRS usage

From: "AL Z., N3KAE" <ldajz@epix.net>
Date: Fri, 01 Mar 1996 18:40:18 -0800
To: aprssig@tapr.org
Message-ID: <3137B512.69F8@epix.net>
Rendered body type: text/plain

```
Peter Markham wrote:
>
> >Howdy folks,
> >
> >I'm kind of suprised in the amount of email I received in regard to my
> >last posting.  How many people are using X1J-4 APRS Digis???  Can anyone
> >give some advise on their set-up/usage?
> >
> >Tnx es 73
> >
> >Al Z., N3KAE
> >ldajz@epix.net
> >
>    Using an X1J release 2 node here, configured for an APRS digi. Was
> originally configured for TCP/IP and NETROM, but no real support or interest
> so I configured it remotely as the APRS digi.
>
>    What do you want to do with it? Intended use determines how you will
> configure it when the eprom is "burned" and the choice of arguments for the
> different parameter and mode subcommands.
>
>    I did not get overly fancy with mine, and I am sure all is not as you
> may want it, but basically I disabled the IP router by leaving all the
> tables blank, thereby making that function brain dead, due to massive
> ignorance. The NETROM function is also cut off by blank tables and several
> parameter/mode entries. The digi function is left intact for APRS use and
> keyboard to keyboard. I and one other person can connect and get stats
> , etc. and control it, everyone else is refused.
>
>    The software is well documented, specific questions I may be able to answer
> so you do not have to reinvent the wheel.
```

>
> Pete,wa4hei

Hi Peter and tnx for the reply...

You may have missed my original message posted a day or so before the one you just replied to. The problem at the moment is the TNC we are using has already been burned, and has been removed from a backbone use on regular Packet.

The TNC ID's on schedule, but does not show up on our maps, nor does it send its UI through an UNPROTO path. We would like to set the UNPROTO to APRS,WIDE,WIDE for now... we already have the lat/long/PHG/text string entered into the BTEXT. Any suggestions??? Are you seeing NE PA on VHF??

We have just purchased a new MFJ 1270C and intend to have an X1J-4 burned specific for APRS. All of your input is greatly appreciated to both of these matters... especially the new node burning.

tnx es 73

Al Zelna, N3KAE
President; Scranton Pocono Amateur Radio Klub (SPARK)

---

18. Re: [APRSSIG:7165] Re: I need more COM Ports!

From: ku0g@sprynet.com
Date: Fri, 1 Mar 1996 15:56:47 -0800
To: aprssig@tapr.org
Message-ID: <199603012356.PAA01457@sprynet.com>
Rendered body type: text/plain

For whatever it's worth, I have shut down my bulletin board because it won't reliably run on Com 3 and Com4 under Windows (FBBS software) and will continue to leave it down until the Windows version is released later this month. I don't want to have to spend the extra time to have to shut down WinAPRS or DOS-APRS or Internet or vice versa whenever I need to run one of the other applications.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

19. Mapfix improvements

From: Mike Tyrrell <100321.1327@compuserve.com>
Date: 01 Mar 96 19:10:02 EST
To: "'APRSSIG'" <aprssig@tapr.org>
Message-ID: <960302001001_100321.1327_JHF94-1@CompuServe.COM>
Rendered body type: text/plain

Having just got hold of a spare digitizer from work I've been playing with Mapfix 2.2 but so far with only partial success. I got the digitizer configured OK and found that it outputs in the following format

xxxx,yyyy,b   Where xxx and yyy are FOUR digit coordinates and b is the button number

However, it will not calibrate correctly in Mapfix. Having had a look as the source code the problem is in the way that the coordinates are read in the calibrate routine. At present this assumes a FIVE digit coordinate and extracts the numbers from the input string in fixed columns. This results in only the last three digits of the y coordinate being read.

In the actual xy point input routine you extract the x and y coordinates based on the location of the comma in the input string. I think all you need to do is use the same formula in the calibration routine.

I wanted to try this mod out but I only have QBASIC here and the MAPFIX22.BAS program refuses to run giving an "Out of memory" error.

Another problem with my digitzer is that the button number is returned in the range 1 - 4 (instead of 0 - 3). Perhaps during the calibration routine Mapfix could ask for the buttons to be pressed in turn and then remember those inputs. You could even make the buttons user programmable by allowing a command to be associated with the button by the user.

The most important request, for those of us using Mapfix in the UK, is to include the code which you have in APRS to display the cursor position in Ordnance Survey National Grid Reference (NGR) as well as Lat/Lon. Most detailed maps of the UK use the NGR system and at present it's impossible to check that point positions are correct within Mapfix. Could this be added to a future version of Mapfix and, when the cursor is within the UK, display the NGR at top left of screen below the Lat/Lon?

Thanks,
Mike Tyrrell   G6GAK

---

20. Re: [APRSSIG:7165] Re: I need more COM Ports!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Mar 1996 21:43:11 -0500 (EST)
To: Robert Schiers <schiers@ibm.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960301213814.17833E-100000@greatlakes>
Rendered body type: text/plain

On Fri, 1 Mar 1996, Robert Schiers wrote:

> And it is not "everyone else's software" that is so flexible, it is the
> very few...that is why people are whining and sniveling (me included),
> about more software authors "seeing the light" and letting the USER
> choose the address and interrupt for com ports.

WB4APR REPLY: I dont know how I can make it any clearer to you! APRS only uses COM1 and COM2 because that is the only ones PERMITTED BY MICROSOFT when the wrote the QUICK BASIC COMPILER... IF I could, I would. Stop complaining, or write it yourself!

---

21. Re: [APRSSIG:7166] Re: Internet access

From: ku0g@sprynet.com
Date: Fri, 1 Mar 1996 19:24:15 -0800
To: aprssig@tapr.org
Message-ID: <199603020324.TAA18521@sprynet.com>
Rendered body type: text/plain

An advertisement would indicate that the sender had received compensation for its publication/broadcast, however I'd think that considering how much some of us have been paying to services like AOL, Compuserve, etc., personally I'm always glad to know of any opportunity to save money. Last month my Compuserve bill was $165.00! I recently changed my Internet service to another service that now only costs me $29.00/month, unlimited access.

While I don't think the AT&T deal is such a great deal when you consider how many hours the average Internet user expends, but there you go....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"

---

22. Re: [APRSSIG:7170] Mapfix improvements

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Mar 1996 22:29:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960301222020.17957A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 1 Mar 1996, Mike Tyrrell wrote:

> A digitizer from work I've been playing with Mapfix 2.2 but.....
> it outputs xxxx,yyyy,b (four digits instead of 5)
>
> In the actual xy point input routine you extract the x and y coordinates
> based on the comma, but in the calibration routine you use the fixed
> length of 5... I wanted to try this mod out but I only have QBASIC here
> and the MAPFIX22.BAS program won't run giving an "Out of memory" error.

WB4APR REPLY COMMENT: GOod point! Ill fix it. In the mean time, you can delete all of the very big GetUSGS subroutine near the end of MAPFIX and get LOTS of room. THis routine also has an internal label Skp:, which should also be deleted all the way down to the RETURN. Then it will easily run under QBasic. ALso you may have to mess around with your buttons too. Look in the begininng of the MAIN: routine for where I think I do

```
something with the buttons returned from my GETxy routine...

USGS CD ROMS are useless in the UK, so you wont need this routine.  It is
obsolete anyway, since KE4KXE's program MAKEMAP1.exe does it all in one step!
```

---

23. MFJ XTALS

From: William Richarz <wricharz@ix.netcom.com>
Date: Fri, 01 Mar 1996 23:39:46 -0500
To: aprssig@tapr.org
Message-ID: <199603020442.UAA11847@ix16.ix.netcom.com>
Rendered body type: text/plain

```
I have a set of crystals for the MFJ 8621 packet radio.  They are on the
APRS frequency 145.79. Drop me an Email & I will send them for $12.
==========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
               URL: http://www.transprt.com/wricharz
==========================================================================
```

---

24. Map Tech software....

From: ku0g@sprynet.com
Date: Fri, 1 Mar 1996 20:55:14 -0800
To: APRSSIG@tapr.org
Message-ID: <199603020455.UAA25970@sprynet.com>
Rendered body type: text/plain

```
I downloaded the Maptech.zip file from TAPR a couple of weeks ago.  It came up
with zip errors and could not be fixed with PKZIPFIX.  Does anyone out there
have this mapping utility?  It looks interesting!  It would also be a good thing
to upload it to TAPR again...

Thanks!
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"
```

---

25. Bill's moved AGAIN!

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sat, 2 Mar 1996 05:18:01 -0600
To: aprssig@tapr.org
Message-ID: <9603021118.AA02206@omnifest.uwm.edu>
Rendered body type: text/plain

```
Changed internet addresses again

Bill KE4EER
ke4eer@hiwaay.net
        The last folks that I met that moved that often had to - they
        didn't pay the rent.

        Just kidding Bill.

CUL & 73 de Dave
============================================================================
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin  53095-9603
Ma Bell:(414) 375-2667    *    Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
============================================================================
```

---

26. Re: [APRSSIG:7152] Wx information as Standalone

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 02 Mar 1996 06:19:19 -0600
To: aprssig@tapr.org
Message-ID: <199603021219.GAA25443@tapr.org>
Rendered body type: text/plain

```
I admit it, I'm a bit dense at times! I've watched the threads on
the U2000 and APRS and I still haven't figured out how to get my U2000 to
send WX data in a form that will show on any flavor of APRS. Let me describe
what I've done and then you guy's tell me where it is my ignorance pop's in.
        I'm using a Pico Packet 2 serial port TNC and an Ultimeter 2000, I
bring the 2000's serial data into port 2 of the tnc, the 2000 is in data
```

```
logger mode and outputs a string that starts with !!. I set the pico's
gpstext variable to !! and I set the lpath variable to aprs v relay,wide I
set the btext to/******/4145.92N/9142.42W/NM0B Cedar Rapids IA. I finally
set the variable loc to every 6 and the variable becon to every 6, and then
set the variable gps to on.
        Now according to my limited thought process this should work. I've
set my other tnc to monitor all packet's and run my packet terminal software
to verify both btext and ltext are being sent.
        When I switch to APRS the btext is seen by APRS but the ltext isn't.
So were am I screwed up? I'm sure I've missed something very simple and will
kick myself when I become enlightened by all. Thank's in advance!
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

27. Re: [APRSSIG:7156] Re:Internet access

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 02 Mar 1996 06:21:59 -0600
To: aprssig@tapr.org
Message-ID: <199603021221.GAA25485@tapr.org>
Rendered body type: text/plain

```
At 10:09 AM 96-3-1 -0600, you wrote:
>
>         Newsflash!!!!!?
>
>   For those that must spend the long green from the cedar swamp outback of
>America, comes this nugget of Rumor?.....
>   ATT offers its customers World Net Service. Internet access 5 hrs per
>month free,  $2.40 per hour over 5 hrs, or $20 unlimited per month. If the
>rumor is true, rural America has been connected to the rest of the world.
>   Call 1-800-967-5363 for software package and?
>
>                                  Pete, wa4hei
>
>PS. This should not be construed as an advertisement!!!!!!
>
        The rumor is true but the service will be provided for only 1 year
currently
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

28. Re: [APRSSIG:7159] Re: SIGPLOT

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 02 Mar 1996 06:24:02 -0600
To: aprssig@tapr.org
Message-ID: <199603021223.GAA25527@tapr.org>
Rendered body type: text/plain

```
A
>Oh, but you're wrong!  The OnCore does support GSV:  $PMOTG,GSV,n, where n is
>periodicity in seconds.
>
>73, gerry
>
Anyone have an address for a supplier of the OnCore?
---------------------------------------------------------------------
                 David E. Barrett
```

```
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

29. Re: [APRSSIG:7163] Re:Internet access

From: schiers@ibm.net (Robert Schiers)
Date: Sat, 02 Mar 96 01:41:22
To: aprssig@tapr.org
Message-ID: <199603021416.OAA101239@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <199603012017.MAA12301@sprynet.com>, on 03/01/96 at 02:29 PM,
   ku0g@sprynet.com said:

>According to the newspaper article I read, the AT&T Internet service will
>not be available until March 14th. In addition, the FREE service will
>ONLY be offerred to customers of AT&T Long Distance at first...

>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com

>"I'll be glad when schools have all the money they need
>and the Air Force has to hold a bake sale to buy a bomber!"

First of all, the person who asked what any of this internet
 access has
to do with APRS: it is how we get to the APRS sig
 if we don't have an
employer who lets us use his internet
 connection, then we have to pay for
it. An inexpensive hint
from a sig member seems very appropriate to me.

Advertising: get real. For once, somebody provided most of the
 needed
info to even decide if it was worth a call. What does
 he get for his
consideration: walks like a duck observations
 from the peanut gallery.
Obviously someone has too much time on
 his/her hands.

The offer: if you still have to make a LD call to get to the point
 of
entry (and you may, because AT&T says they only have 200 points
throughout the country), then their offer is nice if you happen
 to be in
the locale of one of the points, otherwise, it is just
 like any other
ISV. I sent for the free software, because it could
 be fun to play with,
esp since it comes on CD if you like and the
 only platforms supported are
Win 3.1 and Win95.

Five free hours of internet time is not such a good deal when
 20 cents
per minute = $12.00 per hour. The internet time is free,
 but it will cost
you 60 bucks (which just happens to go to AT&T)
 in LD service to take
advantage of it. It's a nice marketing ploy,
 however, and may be a
genuinely good deal if you happen to be
 within a local call of the "point
of entry".

73,

```
hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

30. Re: [APRSSIG:7171] Re: I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Sat, 02 Mar 96 14:23:45
To: aprssig@tapr.org
Message-ID: <199603021437.OAA46435@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
In <Pine.SUN.3.91.960301213814.17833E-100000@greatlakes>, on 03/01/96 at
08:58 PM,
   Bob Bruninga <bruninga@nadn.navy.mil> said:

>On Fri, 1 Mar 1996, Robert Schiers wrote:

>> And it is not "everyone else's software" that is so flexible, it is the
>> very few...that is why people are whining and sniveling (me included),
>> about more software authors "seeing the light" and letting the USER
>> choose the address and interrupt for com ports.

>WB4APR REPLY:  I dont know how I can make it any clearer to you!  APRS
>only uses COM1 and COM2 because that is the only ones PERMITTED BY
>MICROSOFT when the wrote the QUICK BASIC COMPILER...  IF I could, I
>would. Stop complaining, or write it yourself!

Does Qbasic or does it not permit calls to assembly or C routines
 that
could, in fact deal with the problem? It is perfectly fine
 if you don't
want to do it, but to say it CAN'T be done, is a
 different matter
entirely. If it is true, that Qbasic programs
 cannot call to assembler or
C routines, then I have been mistaken
 from the beginning with respect to
APRS, but the general point about
 amateur software authors remains
valid.

As far as complaining, I never assumed that asking an author to
 improve a
program that I bought from them was complaining.

Thanks for setting me straight.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ibm.net
-----------------------------------------------------------
```

31. Re: [APRSSIG:7176] Bill's moved AGAIN!

From: "Bill KE4EER" <ke4eer@hiwaay.net>
Date: Sat, 2 Mar 1996 09:34:30 +0000
To: aprssig@tapr.org
Message-ID: <9603021534.AA05988@fly.HiWAAY.net>
Rendered body type: text/plain

```
All i have to say is your lucky in that you should get on you knees and thank the person
 above that your not standing in front of me right now, but then of course i'm just kidding Hi

..
        The last folks that I met that moved that often had to - they
        didn't pay the rent.

        Just kidding Bill.

CUL & 73 de Dave
=============================================================================
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin  53095-9603
Ma Bell:(414) 375-2667    *    Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=============================================================================
```

Bill KE4EER
ke4eer@hiwaay.net

---

32. TAPR ftp site?

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sat, 02 Mar 1996 14:33:28 -0500
To: aprssig@tapr.org
Message-ID: <3138A288.6D3@pobox.com>
Rendered body type: text/plain

Does anyone know how to get to the TAPR ftp site from their Home Page?
I just spent half an hour trying to find the 'link' and finally gave up.

---

33. Re: [APRSSIG:7183] TAPR ftp site?

From: "ke4eer" <ke4eer@hiwaay.net>
Date: Sat, 2 Mar 1996 14:44:25 +0000
To: aprssig@tapr.org
Message-ID: <9603022044.AA03527@fly.HiWAAY.net>
Rendered body type: text/plain

I believe it's tapr.org/SIG/aprssig/upload

```
Date:          Sat, 2 Mar 1996 13:37:33 -0600 (CST)
Reply-to:      aprssig@tapr.org
From:          Lew Midlam <Lew.Midlam@pobox.com>
To:            aprssig@tapr.org
Subject:       [APRSSIG:7183] TAPR ftp site?
```

Does anyone know how to get to the TAPR ftp site from their Home Page?
I just spent half an hour trying to find the 'link' and finally gave up.

Bill KE4EER
ke4eer@hiwaay.net

---

34. APRS in the UK

From: Mike Tyrrell <100321.1327@compuserve.com>
Date: 02 Mar 96 16:31:38 EST
To: "'APRSSIG'" <aprssig@tapr.org>
Message-ID: <960302213137_100321.1327_JHF49-3@CompuServe.COM>
Rendered body type: text/plain

Thought I'd let the SIG know about recent APRS activity in the North West of England.

Over the past few months our local RAYNET (Radio Amateurs Emergency Network) group in Cheshire developed an APRS network suitable for use during emergency situations. About 10 RAYNET members are now trained to use the software and a number of other amatuers in the area have also become interested. Equipment has been built and tested to allow a wide area node to be sited on suitable high ground at short notice (we don't yet have any permanent wide area digipeaters or agreed APRS frequency). Two GPS tracking units are in use based on Garmin 45 & KPC-3, one of these is vehicle mobile and the other can be carried in a backpack.

In February the whole system was used live during the Frostbite '96 event. This involves around 200 runners competing over cross country paths in Cheshire, covering around 50 miles in two days. RAYNET provide communications for event safety and produce the results. This is our largest annual event and involves more than 25 radio amateurs.

Although we had used packet radio in previous years to help with the results we always found it too complicated to distribute minute by minute information such as where people are on the course.

The APRS system was a fantastic success and worked all weekend without any problems. In the event control room two APRS displays were used, one ran the DR4 version and transmitted estimated positions of lead and tail runners. The other was used as a "read only" slave unit and enabled the event controller to see positions on the map and read bulletins from the checkpoint stations. We even got to use some unexpected symbols on the map - the fire and fire-truck!

The GPS units were used on the drinking water van and the "sweep" team who walked the course behind the last runners to locate any injured competitors.

A full description of the event complete with pictures, maps, screen shots and

HST files which can be downloded and replayed can be found at my home page :-

http://ourworld.compuserve.com/homepages/Mike_J_Tyrrell

Cheers,
Mike   G6GAK

P.S. If you have any UK APRS maps I'd be happy to put them on my page for others
to download.

---

35. Re: [APRSSIG:7184] Re: TAPR ftp site?

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 2 Mar 1996 17:04:48 -0000
To: aprssig@tapr.org
Message-ID: <199603022205.QAA17002@tapr.org>
Rendered body type: text/plain

On 2 Mar 96 at 14:53, ke4eer wrote:

> I believe it's tapr.org/SIG/aprssig/upload
>
>
> Date: Sat, 2 Mar 1996 13:37:33 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Lew Midlam <Lew.Midlam@pobox.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7183] TAPR ftp site?
>
> Does anyone know how to get to the TAPR ftp site from their Home
> Page? I just spent half an hour trying to find the 'link' and
> finally gave up.
>
>
> Bill KE4EER
> ke4eer@hiwaay.net
>

Try: http;//ftp.tapr.org/tapr/SIG/aprssig/upload/

Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM

---

36. Re: [APRSSIG:7181] Re: I need more COM Ports!

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sat, 2 Mar 1996 16:39:51 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960302163245.17380A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

On Sat, 2 Mar 1996, Robert Schiers wrote:

>
> Does Qbasic or does it not permit calls to assembly or C routines that
> could, in fact deal with the problem? It is perfectly fine if you don't
> want to do it, but to say it CAN'T be done, is a different matter
> entirely. If it is true, that Qbasic programs cannot call to assembler or
> C routines, then I have been mistaken from the beginning with respect to
> APRS, but the general point about amateur software authors remains
> valid.
>

QBasic does allow calls to assembly routines. So I suppose it could be
done if Bob knows how to program in assembly language. I know I have alot
to learn about it. Now if I only could make the time to learn ...

>
> hasan schiers, N0AN
> ---
> schiers@ibm.net
> ---
>

Michael
--
Michael Markmann VE4MJM |
ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!

```
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

37. Re: [APRSSIG:7177] Re: Wx information as Standalone

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 2 Mar 1996 17:55:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960302175124.18996C-100000@greatlakes>
Rendered body type: text/plain

```
On Sat, 2 Mar 1996, David E. Barrett wrote:

>         I admit it, I'm a bit dense at times! I've watched the threads on
> the U2000 and APRS and I still haven't figured out how to get my U2000 to
> send WX data in a form that will show on any flavor of APRS. ....
> logger mode and outputs a string that starts with !!. I set the pico's
> gpstext variable to !! and I set the lpath variable to aprs v relay,wide I
> set the btext to/******/4145.92N/9142.42W/NM0B Cedar Rapids IA.

WB4APR REPLY COMMENT:  The BText must have THE WX symbol, and the correct
format for fixed station posits (without time) is !4145.92/9142.42W_NM0B...
See WX.txt and DIGI.txt, or PROTOCOL.txt
```

---

38. Re: [APRSSIG:7184] Re: TAPR ftp site?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 2 Mar 1996 17:09:41 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad5e83efa662@[199.1.11.118]>
Rendered body type: text/plain

```
>I believe it's tapr.org/SIG/aprssig/upload
>
>
>Date:          Sat, 2 Mar 1996 13:37:33 -0600 (CST)
>Reply-to:      aprssig@tapr.org
>From:          Lew Midlam <Lew.Midlam@pobox.com>
>To:            aprssig@tapr.org
>Subject:       [APRSSIG:7183] TAPR ftp site?
>
>Does anyone know how to get to the TAPR ftp site from their Home Page?
>I just spent half an hour trying to find the 'link' and finally gave up.
>
>
>Bill KE4EER
>ke4eer@hiwaay.net


Start a thome page:
http://www.tapr.org/
then click "Special Interest Groups" which moves you to:
http://www.tapr.org/tapr/html/sigs.html
then click  FTP which moves you to:
ftp://ftp.tapr.org/tapr/SIG/aprssig/
then click on uploads and you are there.


No big deal, from Netscap or FETCH  I just use:

ftp://ftp.tapr.org/tapr/SIG/aprssig/upload/


I don't see how one can miss it.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

39. Question

From: KD4EMI@aol.com
Date: Sat, 2 Mar 1996 18:47:56 -0500
To: aprssig@tapr.org
Message-ID: <960302184755_436490381@mail04.mail.aol.com>
Rendered body type: text/plain

```
I was playing today on 30 meters and trying to talk to n7vlr in Mexico.
I had to digi off of w7lus.  Here was my path:
via w7lus,gate,wide/aprs via kd4emi-3,wide,wide

OK  I know about the warning on digi on HF  but I was getting
```

```
the VHF to HF gate warning..
(YOU HAVE GATE IN YOUR VHF PATH   etc etc)

Well  I aint got gate in my vhf path...HF path is first right !

When I changed my path to
via gate,wide/aprs via kd4emi-3,wide

I didnt get the warning.
The warning I used to get was
IS it nessesary to digi on HF  this cuts capactiy  blah, blah

Of course Im running a KAM  and the CB is 2H  (HF 2 port)
Weird huh ?
#2
I am going out to look at my GPS.  Since Ive not seen anything on the
sig yet similar to New years celebration  Im going to guess that SA
is NOT off.   Anyone else notice anything ?
Mike  KD4EMI
```

---

40. Re: [APRSSIG:7187] Re: I need more COM Ports!

From: ku0g@sprynet.com
Date: Sat, 2 Mar 1996 16:18:01 -0800
To: aprssig@tapr.org
Message-ID: <199603030018.QAA24047@sprynet.com>
Rendered body type: text/plain

```
OK, so most people are agreed that we need to have an external call to configure
the ComPorts.  Why don't one of you programmers out there work WITH Bob to
develop the appropriate assembly language routine that APRS could call up?
Seems like the thing to do to me....Wish I knew how to do it myself!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"
```

---

41. Re: [APRSSIG:7189] APRSSIG digest 444

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 2 Mar 1996 18:27:33 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603030027.SAA22970@tapr.org>
Rendered body type: text/plain

```
> Date:          Sat, 2 Mar 1996 13:37:33 -0600 (CST) Reply-to:
> aprssig@tapr.org From:          Lew Midlam <Lew.Midlam@pobox.com> To:
>         aprssig@tapr.org Subject:       [APRSSIG:7183] TAPR ftp site?
>
> Does anyone know how to get to the TAPR ftp site from their Home Page? I
> just spent half an hour trying to find the 'link' and finally gave up.
>
>
> Bill KE4EER

I answered yor personal e-mail, but didn;t know you wanted the APRS SIG.  You
simply go to the SIG page and access the APRS SIG area from there.

Cheers - Greg
```

---

42. Thank's Bob....Wx information as Standalone

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 02 Mar 1996 19:14:39 -0600
To: aprssig@tapr.org
Message-ID: <199603030114.TAA25180@tapr.org>
Rendered body type: text/plain

```
At 05:08 PM 96-3-2 -0600, you wrote:
>On Sat, 2 Mar 1996, David E. Barrett wrote:
>
>>         I admit it, I'm a bit dense at times! I've watched the threads on
>> the U2000 and APRS and I still haven't figured out how to get my U2000 to
>> send WX data in a form that will show on any flavor of APRS. ....
>> logger mode and outputs a string that starts with !!. I set the pico's
>> gpstext variable to !! and I set the lpath variable to aprs v relay,wide I
>> set the btext to/******/4145.92N/9142.42W/NM0B Cedar Rapids IA.
```

```
>
>WB4APR REPLY COMMENT:  The BText must have THE WX symbol, and the correct
>format for fixed station posits (without time) is !4145.92/9142.42W_NM0B...
>See WX.txt and DIGI.txt, or PROTOCOL.txt

        I guess it's time to reread the doc's, Ya read'em and forget read'em
and forget.........
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

43. Re: [APRSSIG:7168] Re: X1J-4 APRS usage

From: N4QEA <moyers@ibm.net>
Date: Sat, 2 Mar 1996 23:08:25 EST
To: aprssig@tapr.org
Message-ID: <199603030401.EAA95031@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
** Reply to note from "AL Z., N6KAE" <ldajz@epix.net> 96/98/03  4:41pm -9399
> X-Listprocessor-Version: 3.9 -- ListProcessor by Anastasios Kotsikonas

> You may have missed my original message posted a day or so before the one
> you just replied to.  The problem at the moment is the TNC we are using
> has already been burned, and has been removed from a backbone use on
> regular Packet.
>
> The TNC ID's on schedule, but does not show up on our maps, nor does it
> send its UI through an UNPROTO path.  We would like to set the UNPROTO to
> APRS,WIDE,WIDE for now... we already have the lat/long/PHG/text string
> entered into the BTEXT.  Any suggestions??? Are you seeing NE PA on VHF??

Forget WIDE,anything  TheNet only accepts ONE ALIAS in it's unproto path.  So the
best you can hope for is WIDE.  Also, since the string is sent out as ID via WIDE
you need to put !APRS as the first thing in your BTEXT.

>
> We have just purchased a new MFJ 8729C and intend to have an X8J-5 burned
> specific for APRS.  All of your input is greatly appreciated to both of
> these matters... especially the new node burning.
>
> tnx es 26
>
> Al Zelna, N6KAE
> President; Scranton Pocono Amateur Radio Klub (SPARK)
>
>

Al I hope this helps.  I have sent a request to the author of X8J to allow more than
one alias in the VIA/unproto string.  Hopefully we will see this in the next
release.

26

John Moyers
ARS; N5QEA
Packet; N5QEA @ N5QEA.#METN.TN.USA.NA
Inet; moyers@ibm.net
Cruise Missle; 63,97.10N/16,56.64W
```

44. Re: [APRSSIG:7166] Re: Internet access

From: saltair@hargray.com (George Salinas)
Date: Sat, 2 Mar 1996 23:56:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199603030456.XAA22169@fern.hargray.com>
Rendered body type: text/plain

```
You are entirely correct about the non APRS stuff floating around the sig.
What about the politicizing of the APRS sig?  I'm sure you have seen
the anti military "I'll be glad when schools have all the money they
```

need and the Air Force has to hold a bake sale to buy a bomber." Lets
stick to APRS related information. Keep the rest of the junk out.

73, George KD4FJ.

```
=============================================================================>
>>Subject:      Re:Internet access
>>
>>         Newsflash!!!!!?
>>
>>PS. This should not be construed as an advertisement!!!!!!
>>
>
>     Hmmm.  NOT an advertisement.  Aside from the fact it
>names the product, describes it, says who's got it, gives
>a price for it as well as a toll-free number to sign up
>for it...why in the world would I get the idea it was an
>advertisement?  Excuse me, I thought this SIG was about
>APRS with occasional forays into GPS and DIRECTLY related
>subjects.  So how could I possibly get the impression this
>was an advertisement.
>
>     I remeber hearing some old saying that goes "If it
>looks like a duck, quacks like a duck and waddles like a
>duck..."
>
>
>Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
> (Packet Radio: N2ZRC@N2NSA.#BRONX.NY.USA.NA)
>  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
>
>
```

---

45. GPS Receiver

From: wtb@partyline.org
Date: Fri, 01 Mar 96 21:22:16
To: aprssig@tapr.org
Message-ID: <9603012122.0U0TI00@partyline.org>
Rendered body type: text/plain

```
How and where does one obtain a Motorola PVT-6 Oncore GPS receiver with
option A (timing) installed?  My Motorola contacts dont know what I'm
talking about..
   Bill  N0LIK  wtb@partyline.org
```

---

46. Re: [APRSSIG:7195] Re: Internet access

From: pmarkham@sun.lssu.edu (Peter Markham)
Date: Sun, 03 Mar 1996 01:12:28 -0500
To: aprssig@tapr.org
Message-ID: <199603030613.BAA01031@sun.lssu.edu>
Rendered body type: text/plain

```
>You are entirely correct about the non APRS stuff floating around the sig.
>What about the politicizing of the APRS sig?  I'm sure you have seen
>the anti military "I'll be glad when schools have all the money they
>need and the Air Force has to hold a bake sale to buy a bomber." Lets
>stick to APRS related information. Keep the rest of the junk out.
>
>73, George KD4FJ.

    The server at LSSU came back on line after a good 24 hr crash, and it
would seem that I missed some sparks?

    As one who lives in a backwater of the rural US, and lives in a county
of 1300 square miles, served by party lines, the possibility of access to
the Internet without long distance rates was a joyful discovery. In my
childish enthusiasm I thought the information may be of value to others
that have no local point of presence for internet access. To those cynical,
myopic, misanthropic SIG, members that took offense to my childish zeal,
my apology. To those who may know of others that would join this SIG or
would find the cost of participation more appealing with possible local
access, let
them know.

    Have I made the grade Bill? Can I sit along side of you?  :-)

                                     Pete, wa4hei
```

47. Re: [APRSSIG:7165] Re: I need more COM Ports!

From: Robert James Harris <bob@cyberg8t.com>
Date: Sun, 03 Mar 1996 05:00:21 -0800
To: aprssig@tapr.org
Message-ID: <313997E5.56E7@cyberg8t.com>
Rendered body type: text/plain

Robert Schiers wrote:
>
> In <Pine.SUN.3.91.960301094027.6999C-100000@greatlakes>, on 03/01/96 at
> 09:23 AM,
>   Bob Bruninga <bruninga@nadn.navy.mil> said:
>
> >On Thu, 29 Feb 1996, Michael Markmann wrote:
>
> >> I don't think you all realise that the problem with only being able to
> >> use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
> >> BASIC that it only supports COMs 1 and 2.
>
> >WB4APR REPLY COMMENT: Exactly. And trying to write special code for all
> > the possible additional combinations and all the potential conflicts is
> >just not worth it. Now that APRS works with a BUS mouse, then it can do
> >everything it needs with 2 ports. If everyone else's softare is so
> >flexible, then move all their COMM needs to COM 3 through COM n, and
> >leave APRS alone, hi hi...
>
> And this is just what every author tends to do...let the other
> guys
> worry about it. In any case, the market always solves the
> problem. Some
> one sees the need, speaks to the market and
> wa la...we have WinAPRS. No
> more port conflicts. No more
> U-2000 overruns. No more failing to run in the background on
> a
> multitasking machine.
>
> And it is not "everyone else's software" that is so flexible, it is
> the
> very few...that is why people are whining and sniveling (me
> included),
> about more software authors "seeing the light" and letting
> the USER
> choose the address and interrupt for com ports.
>
> Keep in mind, I am not lobbying for dos APRS to do anything ...I don't
> use it anymore. I am lobbying for software authors in general, and more
> specifically in the ham community to move away from the assumption that
> their program owns the machine and is its sole use. That just isn't true
> anymore, nor should it be. End of thread for me. I will reserve my
> comments for specific authors of software that I run or want to run.
>
> 73,
>
> hasan schiers, N0AN
> ---
> schiers@ibm.net
> ---Dear Hasan,

Windows 3.1 supports 9 com ports and a bus mouse nicely. Whats worse than com port stupidity is hardware assholeyness. Every peice demands an IRQ, usually in the old xt range - which means 3,4,5,7. Kiss running most things together. Most demand an I/o address in the 300 to 360 range. Then the drivers all demand conventional memory, but the author snivels and says you can move his 100k + driver "high" to share with the other stuff that can be moved high when with even half assed design virtually all can be moved into either extended or expanded memory and avoid this stuff.

Of course, if most external hardware moved into the 90's, it would not use a serial port. With ethernet cards retailing at shows in the 24 dollar range, and the hardware cost to install the interface not much more than for a serial port, I wonder when hams will come into the 20th century. Think of it, hundreds of devices using Win 95 built in comm software, talking over 1 bus, with no software or hardware conflicts, etc. Boggles the mind, but since it has only been happening in business LAN's for only 10 years, it will take at least 30 more before the technology is ancient enuff for hams.

```
        Oh well, what I really wrote for was to support you and your
demands that hardware and software people get real.

                                        Lots of Good Luck
```

---

48. Opinions....

From: ku0g@sprynet.com
Date: Sun, 3 Mar 1996 05:39:30 -0800
To: aprssig@tapr.org
Message-ID: <199603031339.FAA28424@sprynet.com>
Rendered body type: text/plain

```
You know what they say about opinions, don't you?  Just like certain body parts,
everybody has one!  Personally, I kind of enjoy some of the debate that comes up
on the sig even though it's not always APRS-related!  I say:  SO WHAT!

As for my signatory addendum:  I am NOT anti-military and the statement (which
follows herein) is merely intended to draw attention to the plight of school
funding.  I copied it from a bumper sticker that I saw last week!  I thought it
most appropriate, given my current employment status as a teacher!  I suppose
that it could have said welfare, social security or any other government-funded
entity and would still draw fire from somebody!  If it THAT offensive then I
will certainly remove it.

I could, at this point, go into a non-APRS rhetoric about the current state of
educational funding in Missouri and what our peculiar legislature has done every
year for the past 10 years, but I won't.

Best 73,
Jim Duncan, KU0G (flame-retardant suit now engaged!)
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"I'll be glad when schools have all the money they need
and the Air Force has to hold a bake sale to buy a bomber!"
```

---

49. Re: [APRSSIG:7183] TAPR ftp site?

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 3 Mar 1996 13:42:23 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960303134140.5429A-100000@pinegov>
Rendered body type: text/plain

```
On Sat, 2 Mar 1996, Lew Midlam wrote:

> Does anyone know how to get to the TAPR ftp site from their Home Page?
> I just spent half an hour trying to find the 'link' and finally gave up.
>
>
Open a file:  ftp://ftp.tapr.org/....hit enter....bingo your there.
```

---

50. Re: [APRSSIG:7194] Re: X1J-4 APRS usage

From: "AL Z., N3KAE" <ldajz@epix.net>
Date: Sun, 03 Mar 1996 08:48:15 -0800
To: aprssig@tapr.org
Message-ID: <3139CD4F.871@epix.net>
Rendered body type: text/plain

```
Hi John and tnx for the reply...
(Just a note, that your ALIAS on your Email comes up as N4QEA and not
N5QEA... thought I'd let you know.)

Anyway, tnx for the help on the X1J-4 info.  I went through the X1J-4
program and saw exactly what you said; No hope for a WIDE,WIDE.  But can
the identification address be changed "remotely" from ID to APRS?
Our present BTEXT is set as follows:
KD3GG-13>ID !4122.30N/07535.50W#PHG3693/LACKAWANNA CO. WIDE-RELAY
Are you saying that when I get into its brain, I should type:
BTEXT !APRS (IN FRONT OF THE OTHER STUFF? WITH OR WITHOUT A SPACE? WITH
OR WITHOUT ANOTHER !)  I'LL GIVE A FEW OF THEM A TRY.

Please let me know exact entries ans again tnx for helping.

73 de N3KAE
```

---

51. Re: [APRSSIG:7198] Re: I need more COM Ports!

From: jleonard@tbcnet.com (John B. Leonard)
Date: Sun, 3 Mar 1996 08:15:50 -0600
To: aprssig@tapr.org
Message-ID: <199603031415.IAA12562@tbc2.tbcnet.com>
Rendered body type: text/plain

Would you guys QUIT complaining and let us non-programmers know exactly HOW
to get Win95 to live happily with lotsa COM ports? And get off the "LAN is
better than Macs are better than PC's" thing. Unless I'm mistaken, we're on
this because of APRS, and my understanding is that APRS is for things that
Bob APR intended it to be for, REGARDLESS OF WHAT THE SUBS THINK THE BEST
PLATFORM IS!!!

Or is this SIG just for "smart" guys? Kinda looks that way.

>Robert Schiers wrote:
>>
>> In <Pine.SUN.3.91.960301094027.6999C-100000@greatlakes>, on 03/01/96 at
>> 09:23 AM,
>>   Bob Bruninga <bruninga@nadn.navy.mil> said:
>>
>> >On Thu, 29 Feb 1996, Michael Markmann wrote:
>>
>> >> I don't think you all realise that the problem with only being able to
>> >> use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
>> >> BASIC that it only supports COMs 1 and 2.
>>
>> >WB4APR REPLY COMMENT: Exactly. And trying to write special code for all
>> > the possible additional combinations and all the potential conflicts is
>> >just not worth it. Now that APRS works with a BUS mouse, then it can do
>> >everything it needs with 2 ports. If everyone else's softare is so
>> >flexible, then move all their COMM needs to COM 3 through COM n, and
>> >leave APRS alone, hi hi...
>>
>> And this is just what every author tends to do...let the other
>> guys
>> worry about it. In any case, the market always solves the
>> problem. Some
>> one sees the need, speaks to the market and
>> wa la...we have WinAPRS. No
>> more port conflicts. No more
>> U-2000 overruns. No more failing to run in the background on
>> a
>> multitasking machine.
>>
>> And it is not "everyone else's software" that is so flexible, it is
>> the
>> very few...that is why people are whining and sniveling (me
>> included),
>> about more software authors "seeing the light" and letting
>> the USER
>> choose the address and interrupt for com ports.
>>
>> Keep in mind, I am not lobbying for dos APRS to do anything ...I don't
>> use it anymore. I am lobbying for software authors in general, and more
>> specifically in the ham community to move away from the assumption that
>> their program owns the machine and is its sole use. That just isn't true
>> anymore, nor should it be. End of thread for me. I will reserve my
>> comments for specific authors of software that I run or want to run.
>>
>> 73,
>>
>> hasan schiers, N0AN
>> ---
>> schiers@ibm.net
>> ---Dear Hasan,
>
>   Windows 3.1 supports 9 com ports and a bus mouse nicely. Whats
>worse than com port stupidity is hardware assholeyness. Every peice
>demands an IRQ, usually in the old xt range - which means 3,4,5,7. Kiss
>running most things together. Most demand an I/o address in the 300 to
>360 range. Then the drivers all demand conventional memory, but the
>author snivels and says you can move his 100k + driver "high" to share
>with the other stuff that can be moved high when with even half assed
>design virtually all can be moved into either extended or expanded memory
>and avoid this stuff.
>
>   Of course, if most external hardware moved into the 90's, it
>would not use a serial port. With ethernet cards retailing at shows in
>the 24 dollar range, and the hardware cost to install the interface not

>much more than for a serial port, I wonder when hams will come into the
>20th century. Think of it, hundreds of devices using Win 95 built in
>comm software, talking over 1 bus, with no software or hardware
>conflicts, etc. Boggles the mind, but since it has only been happening
>in business LAN's for only 10 years, it will take at least 30 more before
>the technology is ancient enuff for hams.
>
>   Oh well, what I really wrote for was to support you and your
>demands that hardware and software people get real.
>
>   Lots of Good Luck
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
KARC HAMFEST: http://tbcnet.com/~jleonard/hamfest.htm

52. Re: [APRSSIG:7190] Question (S/A)

From: jack swift <jswift@up.net>
Date: Sun, 03 Mar 1996 10:00:39 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9603031505.AA07720@btc1>
Rendered body type: text/plain

At 06:04 PM EST 3/2/96 -0600, KD4EMI@aol.com wrote:

<snip>

>#2
>I am going out to look at my GPS. Since Ive not seen anything on the
>sig yet similar to New years celebration Im going to guess that SA
>is NOT off.   Anyone else notice anything ?
>Mike KD4EMI
>

        I have been running my standalone (garmin-45 and kpc-3) on the dash
where i can see the garmin 'front page' to watch coverage. every so often i
put my reading glasses on so i can see what the reported error is and it
seems to be a lot lower than i remember in the past. it runs down to 57
feet and very seldom gets over 300 feet unless i have only 2 decent
satelites. the norm seems to be in the 100-200 foot range.

        maybe it's time to park it in the yard running and watch it move
around from the house....

        never the less, i like the smaller errors!!!

```
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

53. Re: [APRSSIG:7197] Re: Internet access

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 03 Mar 1996 09:30:19 -0800
To: aprssig@tapr.org
Message-ID: <3139D72B.3B05@hiwaay.net>
Rendered body type: text/plain

Peter Markham wrote:
Well Pete all i have to say is WELCOME our group is growing Hi.

Bill KE4EER

>   Have I made the grade Bill? Can I sit along side of you? :-)
>
>   Pete, wa4hei

54. Re: [APRSSIG:7197] Re: Internet access

From: Ozzie N4SCY <ozzie@digital.net>
Date: Sun, 3 Mar 1996 12:18:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960303121613.26462D-100000@digital.net>
Rendered body type: text/plain

"Childish Zeal"? Spreading the Word about APRS seems more like Religious
Zeal! And I've been trying to spread the APRS Gospel too!

Ozzie

n4scy@amsat.org
http://ddi.digital.net

```
| When political signiture tags are outlawed, only outlaws will use
| signiture tags. PAT PAULSEN FOR PRESIDENT!
| http://www.pulsen.com
```

On Sun, 3 Mar 1996, Peter Markham wrote:

```
> >You are entirely correct about the non APRS stuff floating around the sig.
> >What about the politicizing of the APRS sig?  I'm sure you have seen
> >the anti military "I'll be glad when schools have all the money they
> >need and the Air Force has to hold a bake sale to buy a bomber." Lets
> >stick to APRS related information. Keep the rest of the junk out.
> >
> >73, George KD4FJ.
>
>     The server at LSSU came back on line after a good 24 hr crash, and it
> would seem that I missed some sparks?
>
>     As one who lives in a backwater of the rural US, and lives in a county
> of 1300 square miles, served by party lines, the possibility of access to
> the Internet without long distance rates was a joyful discovery. In my
> childish enthusiasm I thought the information may be of value to others
> that have no local point of presence for internet access. To those cynical,
> myopic, misanthropic SIG, members that took offense to my childish zeal,
> my apology. To those who may know of others that would join this SIG or
> would find the cost of participation more appealing with possible local
> access, let
> them know.
>
>     Have I made the grade Bill? Can I sit along side of you?  :-)
>
>                                       Pete, wa4hei
>
>
```

---

55. Charlotte Hamfest

From: William Richarz <wricharz@ix.netcom.com>
Date: Sun, 03 Mar 1996 14:25:29 -0500
To: aprssig@tapr.org
Message-ID: <199603031928.LAA02136@ix2.ix.netcom.com>
Rendered body type: text/plain

I invite all you folks to the Charlotte Hamfest, March 9th & 10. Should be
some APRS info there. For more info, check out my Homepage, URL addrss in
my signature.

73 de Bill

```
============================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
               URL: http://www.transprt.com/wricharz
============================================================================
```

---

56. APRS satellite link?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Mar 1996 16:40:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960303162855.20142D-100000@greatlakes>
Rendered body type: text/plain

It looks as if those of you with PSK satellite modems are invited to
digipeate via the WO-18 satellite. Here is the quote from the AMSAT news
service:

Well, I lost the file... But they said that it is in DIGIPEATER mode.
Uplink on 145.900 PSK using AX.25 via WEBER-1. Downllink in the 437 MHz
band (PSK).

Although 99% of us cant play, it only takes one person per area to get
these packets through! Remember, that the links on these microsats only

require omni directional antennas and modest power. The only thing
unusual is having a PSK satellite modem and SSB radio.

Does a subgroup of APRS'ers wanna play?

WB4APR REPLY COMMENT:

---

57. Re: [APRSSIG:7198] Re: I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Sun, 03 Mar 96 22:05:32
To: aprssig@tapr.org
Message-ID: <199603032239.WAA101686@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <313997E5.56E7@cyberg8t.com>, on 03/03/96 at 07:13 AM,
   Robert James Harris <bob@cyberg8t.com> said:

>   Windows 3.1 supports 9 com ports and a bus mouse nicely. Whats
>worse than com port stupidity is hardware assholeyness.

I want to distance myself from characterizations like "stupidity"
 and
"assholeyness". While I obviously agree with your assessment
 of the
problem, I am concerned about the timbre of the discussion.
 I had no idea
when I tried to describe the nature of the limitations
 of the program
that so many people would become emotional both pro
 and con.

I am not interested in pursuing an emotional debate about such a
 trivial
issue. The program is great. It could do some things better
 for my needs.
My objective was not to stir people up on either side
 of the issue, but
to get ham software authors to consider the
 environment that their
software was going to run in, and REQUEST
 that they take advantage of the
machines and operating systems
 and tricks therewith, so we, the USERS
could get maximal benefit
 from our software and hardware investment.

I have absolutely nothing critical to say about Bob. I never have.
 My
intention was never to annoy anyone, but to make sure we had a
 complete
understanding of the problem and issue, i.e., we know it
 isn't a hardware
or architecture issue, is it a programming issue
 that can be overcome?
The answer appears to be yes, it is a
 programming issue which can be

overcome with assembler hooks to
 Qbasic. However, in attempting to
understand and explore the nature
 of the programming problem, I see that
nothing good was accomplished.

I would ask anyone who feels like responding pro or con to my series of
postings about addresses and interrupts to just let it go. It is
 wasting
bandwidth and bringing out the worst in people...something
 I have no
interest in doing.

```
>       Oh well, what I really wrote for was to support you and your  demands
>that hardware and software people get real.                         ^^^^^^^
>                                           Lots of Good Luck
```

I have demanded nothing of anyone. I have asked, requested, begged,
cajoled, whined and snivelled, (I don't think I had progressed to
"badgered" yet,but Bob's perspective may be different), and am
 perfectly
accepting of an answer of "I ain't interested in doing that."
 That is
what Bob ultimately said, and when he said that, I tried to
 drop the
thread. When I saw further postings which stated that what I
 wanted
"couldn't be done", which is patently false, I responded about
 the hooks
from Qbasic to assembler. And on and on...let's let this
 bugger die. It
is going nowhere and serves no useful purpose.

73,

hasan schiers, N0AN
----
schiers@ibm.net

---

58. Re: [APRSSIG:7207] APRS satellite link?

From: ku0g@sprynet.com
Date: Sun, 3 Mar 1996 14:56:32 -0800
To: aprssig@tapr.org
Message-ID: <199603032256.OAA04470@sprynet.com>
Rendered body type: text/plain

Well, that's big o' them, isn't it! We can digipeat but only a very few of us
due to equipment constraints! Still, it IS a step in the right direction!
Maybe we can still fly a mini-satellite of our very own from the Shuttle at some
point! It would still be nice if we could get permission to use the other
amateur satellites for this use!

OK, I'm jealous, I admit it. Wish I had the $$$ to go buy the PSK and SSB rigs
to do this! In the meantime, if anybody else can do this, I strongly encourage
them to take advantage of this opportunity!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

59. Flaming and Ham etiquette

From: jacobsen@mail.wiscnet.net (Edward C. Jacobsen)
Date: Sun, 3 Mar 1996 19:09:29 -0600
To: aprssig@tapr.org
Message-ID: <199603040109.TAA16222@gomer.wiscnet.net>
Rendered body type: text/plain

There is such a difference between the general kindness that hams give thru
their mikes, and the rudeness that some send to APRSSIG. May I suggest that
after flaming, rather than send it to `out queue', send it to `trash'. I've
enjoyed some of the opinions as much as which Com port, and after a smile,
or frown, there is always the delete key. Email isn't an excuse to forget
one's manners.

 - - -
Ed Jacobsen
4900 Dake Road

Webster WI 54893, U.S.A.
phone/fax (715)349-2761
KB9KJE

---

60. Re: [APRSSIG:7199] Opinions....

From: Ed Rogers <edwardwr@inil.com>
Date: Sun, 03 Mar 1996 19:04:37 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4b11.32.19960304010437.006912c8@inil.com>
Rendered body type: text/plain

At 07:55 AM 3/3/96 -0600, you wrote:
>You know what they say about opinions, don't you? Just like certain body
parts,
>everybody has one! Personally, I kind of enjoy some of the debate that
comes up
>on the sig even though it's not always APRS-related! I say: SO WHAT!
>
>As for my signatory addendum: I am NOT anti-military and the statement (which
>follows herein) is merely intended to draw attention to the plight of school
>funding. I copied it from a bumper sticker that I saw last week! I
thought it
>most appropriate, given my current employment status as a teacher! I suppose
>that it could have said welfare, social security or any other
government-funded
>entity and would still draw fire from somebody! If it THAT offensive then I
>will certainly remove it.
>
>I could, at this point, go into a non-APRS rhetoric about the current state of
>educational funding in Missouri and what our peculiar legislature has done
every
>year for the past 10 years, but I won't.
>
>Best 73,
>Jim Duncan, KU0G (flame-retardant suit now engaged!)
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>"I'll be glad when schools have all the money they need
>and the Air Force has to hold a bake sale to buy a bomber!"
>
Jim,

Well said, some folks go out of their way to "stir the pot". I like the give
and take on the sig and even I am learning more about all three of my
registered versions (DOS,MAC and WinAPRS (grin).
Some folks forget "ITS A HOBBY, GET A LIFE".

BTW with 7 years active duty, including 2 RVN tours and 1500+ hours in
UH-1's, Reserve time, and about to be a "new" 49 year old CFI, your sig
looks ok to me.

73

PS we need some vhf digis between you guys and Iowa so that we in
Chicagoland can see you. Anyone in Lake Ozark , Bagnell area on APRS? I'll
be there next month.>

73
Ed
N9LCI
MESSAGE OF THE MONTH

"There are two kinds of pilots flying retracts, those who have
landed gear up, and those who will"

---

61. Re: [APRSSIG:7210] Flaming and Ham etiquette

From: ku0g@sprynet.com
Date: Sun, 3 Mar 1996 18:53:11 -0800
To: aprssig@tapr.org
Message-ID: <199603040253.SAA22907@sprynet.com>
Rendered body type: text/plain

Amen. It's not just on APRSSIG but check out any LL BBS, the packet BBS system,
etc. It's easy to rant at a monitor when the person isn't staring you in the
face.

Best 73,
Jim Duncan, KU0G

APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

62. Re: [APRSSIG:7211] Re: Opinions....

From: ku0g@sprynet.com
Date: Sun, 3 Mar 1996 18:58:01 -0800
To: aprssig@tapr.org
Message-ID: <199603040258.SAA23252@sprynet.com>
Rendered body type: text/plain

Lake Ozark, Bagnell? I don't know, but there is some activity in Jefferson City (40 miles NE). Yes, you're right about digis to link us all together. We're working on it. It would only take one or two more between DSM and Quad Cities to do the job! We'd also like to get I-70 covered across MO at some point....
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

63. DIGIPEATERS and Torch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Mar 1996 22:26:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960303220548.20620C-100000@greatlakes>
Rendered body type: text/plain

I havent received any recent reports of new WIDE digis. Please LOAD or REPLAY the files DIGISe.bk or DIGISw.bk and be sure that your area WIDES are shown. Also REPLAY the TORCHw.bk, c.bk (e is not finished yet)

If not, send me an extract of your P-LIST with the missing digis. Nothing else, no ego-peaters, just good PERMANENT wide area digipeaters. I want the DIGISe and DIGISw files to be current for travelers...

This will be important as we get closer to OLYMPICS TORCH time...

By the way, my TORCH is finished. Looks nice. Uses a MIM, Agrelo XMTR and GPS-20 card. It is all PVC pipe about 18 inches total height.

```
   * * * * * * *
   *           * <-- GPS antenna
   ** * * * * **
    *         *
    *         *  <-- GPS-20 (Garmin)
    *         *
    * * * * * *  <-- MIM module  (Sends BText, Battery and Temp telemetry
     *       *       and Posit
     * * * * *
      *     *  <---- Agrelo Transmitter
       * * *
       *   *
       *   *
       *   *
       *   *  <-- 6 C Cells
       *   *
       *   *
       *   *
       *   *
       *   *
       *   *
      * * * *
      *     *  <--- Screw on bottom cap
      * * * *\
              \
               |
              /
             |   <-- 19 inch dangling antenna
              \      embedded in Olympic colored ribbons
               |
              /
```

Everything works, but the POSIT! I cant get a FIX. Gotta figure out how to do a COLD start RESET of the Garmin...

REMINDER: We stil have no official olympic agenda, but if the opportunity opens, we want to be ready... hi hi

---

64. Re: [APRSSIG:7201] Re: X1J-4 APRS usage

From: Scott Miller <scottm@sierra.net>
Date: Mon, 04 Mar 1996 02:29:21 -0800
To: aprssig@tapr.org
Message-ID: <313AC601.4CB9@sierra.net>
Rendered body type: text/plain

```
AL Z., N3KAE wrote:
>
> Hi John and tnx for the reply...
> (Just a note, that your ALIAS on your Email comes up as N4QEA and not
> N5QEA... thought I'd let you know.)
>
> Anyway, tnx for the help on the X1J-4 info.  I went through the X1J-4
> program and saw exactly what you said; No hope for a WIDE,WIDE.  But can
> the identification address be changed "remotely" from ID to APRS?
> Our present BTEXT is set as follows:
> KD3GG-13>ID !4122.30N/07535.50W#PHG3693/LACKAWANNA CO. WIDE-RELAY
> Are you saying that when I get into its brain, I should type:
> BTEXT !APRS (IN FRONT OF THE OTHER STUFF? WITH OR WITHOUT A SPACE? WITH
> OR WITHOUT ANOTHER !)  I'LL GIVE A FEW OF THEM A TRY.
>
> Please let me know exact entries ans again tnx for helping.
>
> 73 de N3KAEHi Al, Scott here in Tahoe City
Am I correct in reading your x-j14 is a wide/relay?
and if so could you tell me how you did it?
I've had many replys when I asked how to make my x-j14
a wide/relay but I sill haven't been able to do it.
Also I belive you can change your btext remotly.
thanks Scott KE6RKE



BOMBS NOT BUMS!
```

65. N4NEQ-9

From: Wb2ngz@aol.com
Date: Mon, 4 Mar 1996 09:25:27 -0500
To: aprssig@tapr.org
Message-ID: <960304092527_437543090@mail02.mail.aol.com>
Rendered body type: text/plain

```
Hi All:
   The Daytona Beach APRS gang just finished an enjoyable APRS weekend with
N4NEQ-9, (from Atlanta) roaming around Daytona Beach running APRS/GPS. This
is the first experience we have had with a real GPS equipped mobile and about
10 local APRS stations participated...we had a ball.
   I just finished watching N4NEQ-9 head southbound on I-95 heading toward
Cocoa Beach where he will be for a few days. You guys in the Cocoa area might
want to keep an eye out for him as by the time you read this he will be
there.

73...Bob, WB2NGZ
Ponce Inlet, Florida
```

66. 300 packets senario w/MIM contest.

From: JAgrelo@aol.com
Date: Mon, 4 Mar 1996 11:14:00 -0500
To: aprssig@tapr.org
Message-ID: <960304111359_159703673@mail04.mail.aol.com>
Rendered body type: text/plain

```
TO THE SIG,

Ok, here is a BIG question with a FREE prize.

We have been approached by a University to produce 300 HPVFC/MIM units that
transmit a ID and A,B,C or D answer corosponding to a button press. These are
students transmitting answer packets for a lecture survey to be received by a
scanner for software retrieval and ultimatly printout for data calculations.

The BIG question, how can you cost effectivly, with out data collision
receive three hundred packets at once? Keep in mind that each student needs
time to think about their answer before they depress a button. Having 300
custom made crystals would be very expensive. And transmitting at 300
different time delays would take too long i.e 5 minutes total if they were
all at different incrementing 2 second delays 60 packets per minute, they
would all have to transmit exactly at the same time to get the timming right
and the receiver would have to scan very fast with each consecutive delay
```

consecutively in the scanners memory. The transmitters would be 10mW RF for
those about to FLAME me.

Please, only reply if you have a good solution or answer.

The winner gets a FREE HPVFC transmitter for a practical, working, ideal
solution.

GOOD LUCK!

73 de Joe N2OOC

Joe Agrelo/N2OOC
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web http://home.navisoft.com/agrelo/ae.htm
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

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67. Re: [APRSSIG:7208] Re: I need more COM Ports!

From: Robert James Harris <bob@cyberg8t.com>
Date: Mon, 04 Mar 1996 09:51:21 -0800
To: schiers@ibm.net
Cc: aprssig@tapr.org
Message-ID: <313B2D99.7D50@cyberg8t.com>
Rendered body type: text/plain

Robert Schiers wrote:
>
> In <313997E5.56E7@cyberg8t.com>, on 03/03/96 at 07:13 AM,
>   Robert James Harris <bob@cyberg8t.com> said:
> Dear Mr. Schiers,

Due to an inexcusable, stupid error using netscape 2.0 mail for the first time, a private, personal e-mail got posted to a mail list. I apologize to you and to the mail list for this inexcusable mistake. I assure it will not happen again. I heartily agree that personal opinions have no place in public posting on a subject oriented mailing list unless that opinion is extremely closely related to the topic such as the quality of service of a manufactuer etc.

Of course I expect to be flamed extensively for my failure to humble myself at the ham alter, but thats what the delete button is for.

68. Re: [APRSSIG:7217] 300 packets senario w/MIM contest.

From: ku0g@sprynet.com
Date: Mon, 4 Mar 1996 11:02:49 -0800
To: aprssig@tapr.org
Message-ID: <199603041902.LAA23264@sprynet.com>
Rendered body type: text/plain

I would suggest using 5 or 10 channels to start as this would greatly relieve the collision problems. A multiplex receiver is the next item of business.

Another suggestion would be to have the MIM unit hold all of its data until polled by the base unit! That way the base unit has full control of the system and can then effectively control the potential collisions before they occur.

Some sort of master control program (boy this is starting to sound like TRON!) could configure the system to the actual unit ID's, number of units active during the session, etc., etc.

Another obvious solution would be to simply have the MIM's hold ALL data for the testing session until the testee has completed the exam. The user then would push a FINISHED button to transmit his/her responses to the master control unit. This would probably limit the number of questions that could be given at any one sitting, or then the user may have to be prompted to "TURN THE PAGE/PUSH PAGE DONE BUTTON NOW"....

Going back and reading the original posting and reading about the Lecture Survey really negates some of the latter paragraphs above. I think a multi-channel system may the best answer at this point, but I WILL keep thinking about this problem!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

69. Re: [APRSSIG:7219] Re: 300 packets senario w/MIM contest.

From: JAgrelo@aol.com
Date: Mon, 4 Mar 1996 15:33:08 -0500
To: aprssig@tapr.org
Message-ID: <960304153305_159900981@emout08.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-04 15:12:45 EST, you write:

>I would suggest using 5 or 10 channels to start as this would greatly
relieve
>the collision problems.  A multiplex receiver is the next item of business.


Still won't work because the students are transmitting at different
intervals.

>Another suggestion would be to have the MIM unit hold all of its data until
>polled by the base unit!  That way the base unit has full control of the
>system and can then effectively control the potential collisions before they
occur.

Sorry! no receiver on the student end.

>Some sort of master control program (boy this is starting to sound like
>TRON!) could configure the system to the actual unit ID's, number of units
active
>during the session, etc., etc.

What is a TRON? remember, no receiver.

>Another obvious solution would be to simply have the MIM's hold ALL data for
>the testing session until the testee has completed the exam.  The user then
would
>push a FINISHED button to transmit his/her responses to the master control
>unit.

For some unknown reason they must have the data as the questions occur.

> This would probably limit the number of questions that could be given at
any
>one sitting, or then the user may have to be prompted to "TURN THE PAGE/PUSH

>PAGE DONE BUTTON NOW"....

They want the student to concentrate on the question, not how to use the
answer device.
It has to be KISS.

>Going back and reading the original posting and reading about the Lecture
>Survey really negates some of the latter paragraphs above.  I think a
multi-channel
>system may the best answer at this point, but I WILL keep thinking about
this
>
>problem!

Thank you and good luck!

 73 de Joe N2OOC
-----------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
```

Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

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70. 1996 ARRL and TAPR Digital Communications Conference

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 4 Mar 1996 15:52:53 -0600 (CST)
To: netsig@tapr.org (NETSIG mailing), bbssig@tapr.org (BBS SIG mailing),
aprssig@tapr.org (BBS SIG mailing), hfsig@tapr.org (HF SIG mailing),
dsp-93@tapr.org (DSP-93 Build), ss@tapr.org, tapr-tnc@tapr.org
Message-ID: <199603042152.PAA21342@tapr.org>
Rendered body type: text/plain

Press Release. Please distribute as widely as possible. http://www.tapr.org
March 1st, 1996

ARRL and TAPR Digital Communications Conference
September 20-22, 1996
Seattle, WA, U.S.A.

1996 ARRL and TAPR Digital Communications Conference

Mark your calendar and start making plans to attend the year's premier event in amateur radio digital communications --

The 1996 ARRL and TAPR Digital Communications Conference will be held September 20-22, 1996, in Seattle, Washington -- just minutes from the SeaTac Airport. Local sponsors include the Puget Sound Amateur Radio TCP/IP Group and Boeing Employees Amateur Radio Society (BEARS).

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs and experts in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. This year marks the first year in which the ARRL Digital Communications Conference and TAPR Annual General Meeting have joined into one conference!

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the Conference is not required for publication. Papers are due by July 23, 1996, and should be submitted to Maty Weinberg, ARRL, 225 Main St., Newington, CT 06111 U.S.A. or via Internet at lweinberg@arrl.org. Please contact Maty for detailed format requirements. Papers are due by July 23, 1996

ARRL and TAPR especially welcome papers from full time students to compete for the first annual student papers award. Two $500 travel awards will be given, one in each of the following categories: a) best technical/theory-oriented paper by a student, and b) best educational or community-oriented application paper by a student. The paper should relate directly to a wireless digital communication topic (see guidelines for more information). Papers coauthored by educators or telecommunications professionals are also eligible for this award, as long as a student is the first author. First year awards have been funded through a grant by The ARRL Foundation, Inc. Deadline for receipt of finished student paper manuscript: June 11, 1996. Please note that this deadline is different than the general conference submission date. For full details and paper guidelines, contact TAPR or check http://www.tapr.org.

The current schedule has a workshop and student papers on Friday afternoon. Conference Papers, Introductory thread, Lunch, and Dinner on Saturday. Sunday will have additional paper sessions, if necessary, as well as one or more workshops. Workshops will include Keith Sproul, WU2Z, on APRS packet-location software, Dewayne Hendricks, WA8DZP , on "How to utilize Part 15 Radios for Ham Applications" and a workshop on Wireless Networking using WA4DSY 56K RF modem technology and its accessories. See the advanced registration form for more details as well as http://www.tapr.org

For more information on the Conference, registration, and hotel reservations please contact TAPR at the address below.

TAPR Office:
8987-309 E. Tanque Verde Rd. #337
Tucson, AZ 85749-9399
Phone: (817) 383-0000

```
Fax: (817) 566-2544

Internet E-Mail: tapr@tapr.org
Internet Web: http://www.tapr.org
```

---

71. Re: [APRSSIG:7215] Re: X1J-4 APRS usage

From: "AL Z., N3KAE" <ldajz@epix.net>
Date: Mon, 04 Mar 1996 22:52:41 -0800
To: aprssig@tapr.org
Message-ID: <313BE4B9.651B@epix.net>
Rendered body type: text/plain

```
Hi Scott and tnx for replying...

Well I may very well have my terminology all screwed up.  In addressing
KD3GG-13 as a WIDE-RELAY, I intended to state that it has those two as
ALIASES plus its callsign.  I thought I was correct in stating it that
way... my apologies.

Please tell me the exact methodology in entering the BTEXT info as per
our last email.

Tnx agn es 73

Al, N3KAE
```

---

72. Re: 300 MIMs (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 4 Mar 1996 23:14:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960304230803.823A-100000@greatlakes>
Rendered body type: text/plain

```
Here is the proposal I suggested for 300 hand held "VOTERS" to transmit
their multiple choice response to the Professor:

1) Use a modified MIM to output a very short packet (.25 secs) with a
random start delay and a decaying period like APRS.  The initial period
is nominally X seconds. (Maybe 10)

2) It continues transmitting for N seconds. (Maybe 60)
* * * CUSTOMER must specify the minimum time between Questions! * * *

3) For each packet, for a 85% success rate, there can be no more than
   about .2 * X /.25 or only 8 per 10 second period.  But we have N / X
   such periods.  Using two such periods gives us a 97% chance of success.
   So, the channel capacity is about .5 * [ N / X ] * .18 * X / .25
   If N is 60, then the capacity is 20 units per channel
   If N is 120, then the capacity is 40 units per channel

3) You use F frequencies and have F Receivers and F TNC's.  For the case of
   N=120, then you will need 7 frequencies.  Quite managable...

************************************************************************
The importance of knowing N is paramount.  The customer must make that
specification, and he must live with it, or be willing to re-program all
the MIM's each time he changes his mind.  (That function would be field
programmable)
************************************************************************

This suggestion is a 1st order guess, based on ALOHA channel capacities.
It can be modeled and refined.  We would need to write a program and run
a simulation before we committed to the 97% success rate.  For a 99.7%
rate you would reduce the number of units per channel by 33%.

I wrote a simulation program that validates these results.

de WB4APR.
```

---

73. Ignore this test

From: Larry Griffin <largriff@onramp.net>
Date: Tue, 5 Mar 1996 07:45:51 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0A67.C88CCAC0@lub07.onramp.net>
Rendered body type: text/plain

```
I haven't gotten any APRSSIG mail in 2 days.
This is a test to see if the universe still exists.
```

```
If it doesn't, you won't see this.
If it does, please disregard.  &:-)
```

---

74. Problem with hearing my Digis

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 4 Mar 1996 21:38:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960304211701.1545B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
I've seen other folks mention this on occasion on this sig, but it
happend to me *again* today and its time for me to mention it.

I run two 24hr APRS stations. One is a VHF stn at my home. The other is a
WX station at my job location. Until recently I was running 6.8a since I
kept getting problems with newer versions. 6.8a worked for me.

I recently upgraded the motherboard in my home computer (from a 386DX-40
to a 5x86-133) During the upgrade process I discovered that I had a bad
Simm memory chip somewhere. (I had been having problems with the machine
for a while)  It occured to me that maybe this might also have hindered my
APRS upgrade attempts. I replaced the bad memory. I downloaded 7.5 and
tried it. Everything worked just fine!

I took 7.5 into work and installed it on my 286 dedicated to my WX
station. It ran fine .... until I had to move my office (and my station)
from one side of the building to the other....

I was seeing my WX station all weekend from home, but when I got to work
this morning I noticed that I kept getting the msg that APRS was NOT
seeing the last digi.  I checked the TNC (the red xmit LED came on ...
and I saw the receive LED come on just after)  I checked the transmitter
(on proper freg, at high power, antenna connected, etc)  I *shut* the TNC
off, then powered it up again. I changed my Unproto path a half a dozen
times. I did *manual* transmissions with the 'X' key. I shut down APRS
and re-booted a couple of times.

Nothing worked ... *every* time I got the Digi Not Seen msg.

Then without toching any of the hardware ... I shut down 7.5 and booted
6.8a .... It worked just fine now!

I'm not saying that this is a problem only with 7.5 because I had the
same thing happen to me on 6.8a when I tried running my 8088 laptop
"live" mobile once.... (could NOT see any digis, but the recieve LED lit
up *every time* right after the transmit LED)

Any comments?

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

75. Downloading the maps from rutgers

From: jack swift <jswift@up.net>
Date: Tue, 05 Mar 1996 06:44:15 -0500
To: aprssig@tapr.org
Message-ID: <9603051149.AA28449@btc1>
Rendered body type: text/plain

```
wow... rutgers is a busy site.....

it appears that the only to get a 'quick' connection is to beat the students
out of bed!!!

everything went speedily till 6:38am when someone woke up and went to work.

but at least i now have the full file (and the right one at that.

thanks all for your advice.
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

76. Cheap Trackers or Digis

From: jack swift <jswift@up.net>
Date: Tue, 05 Mar 1996 06:47:40 -0500
To: aprssig@tapr.org
Message-ID: <9603051152.AA28453@btc1>
Rendered body type: text/plain

```
Anyone got a recommendation on the 'cheapest' way to set up stand-alone
trackers? it seems that using 'standard appliances', i'm going to have a
$550 investment for each tracker and $250 for each digi.

since you guys seem to be setting these things up all the time, how do you
manage without getting a bank to sponsor you?
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

77. SUGGESTED APRS HF FREQS...

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Mon, 4 Mar 1996 19:24:59 -0800
To: aprssig@tapr.org
Message-ID: <199603050324.TAA03176@poseidon>
Rendered body type: text/plain

```
APRS @ ALLUS                                       Filed: 032300GMT MAR 96
    Several messages concerning HF freqs for APRS have been seen on the sig
here and on Packet BBS's..
    Here are some suggestions by George/W8FWF and in Readme files, over a year
old:
-------------------------------------------------------------------------------
APRS HF FREQUENCIES OPERATIONS                        JAN 95
--------------------------------
HF FREQS: MFJ/KAM   AEA'S   Mode   NORMAL USAGE
          10.151    10.1515 LSB    Mostly East Coast so far (Calif late eves)
           7.085     7.0855 Lsb    Mostly West Coast. (Ocassionaly now )
          14.0963   14.0958 USB    Proposed new APRS DX Freq.

HERE ARE SOME OF THE APRS FREQUENCIES NOW IN USE ON THE LOW BANDS....
THE ENTRIES WITH (P) ARE NEWLY PRO0POSED FREQUENCIES STILL BEING TESTED..(By
who?)
--------------------------------------------------------------------------------
ACTUAL XMIT FREQ.    MFJ/KAM DIAL (1700HZ TONE)      AEA DIAL (2210HZ TONE)
--------------------------------------------------------------------------------
  3583.3 KHZ (P)      3,585   KHZ (LSB)                3585.51 KHZ (LSB)
  7083.3 KHZ          7,085   KHZ (LSB)                7085.51 KHZ (LSB)
10,149.3 KHZ         10,151   KHZ (LSB)             10,151.51 KHZ (LSB)
14,098   KHZ         14,096.3 KHZ (USB)             14,095.79 KHZ (USB)
18,098   KHZ (P)     18,096.3 KHZ (USB)             18,095.79 KHZ (USB)
21,098   KHZ (P)     21,006.3 KHZ (USB)             21,095.79 KHZ (USB)
24,928   KHZ (P)     24,926.3 KHZ (USB)             24,925.79 KHZ (USB)
28,098   KHZ (P)     28,096.3 KHZ (USB)             28,095.79 KHZ (USB)

  (Note: the 24Meg freq may be in error, someone correct me if so)
===========================================================================
The low bands will provide more activity and longer distances to the other
station. While a VHF TNC works at 1200 bauds, on the Low Bands, you will need
a TNC that will operate at a 300 baud rate. Several are available. Ideally,
you should opt for a TNC that will allow for simultaneous operation (GATEWAY)
on the low ands and also the VHF band. This allows you to link (GATE) the HF
data from the HF band, down to the VHF side. To see the newmerous HF out of
state APRS stations on your local VHF network band. (VHF 145.79/14501 & few
others.)
   Please read the HF.TXT file in the programs README.DIR. This will enlighten
many on the HF to VHF only use of GATEWAY stations and GATE paths.
   QSO among yourselves on testing the SUGGESTED frequencies, let the rest of
us know. Am willing to help, need date,time (GMT) and freq and will give it a
go OM..
    73's & Enjoy, Bill/WB6LPG SanFran Bay Area 30M reliable GATEWAY station,
on daily.. See Feb issue P45 of Cruising World for APRS for Yachting Hams.
Off mexico more S/V appearing, QSO and encourage the Yachting World about APRS.
NNNN


WBB/WB6LPG
```

78. Re: [APRSSIG:7224] Ignore this test

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 5 Mar 1996 14:19:53 -0600
To: aprssig@tapr.org
Message-ID: <9603052019.AA30200@omnifest.uwm.edu>
Rendered body type: text/plain

OK I'll ignore it.

73 de Dave
dbarrow@omnifest.uwm.edu

---

79. Re: [APRSSIG:7227] Cheap Trackers or Digis

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Mar 1996 15:57:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960305155405.8565C-100000@greatlakes>
Rendered body type: text/plain

On Tue, 5 Mar 1996, jack swift wrote:

> Anyone got a recommendation on the 'cheapest' way to set up stand-alone
> trackers? it seems that using 'standard appliances', i'm going to have a
> $550 investment for each tracker and $250 for each digi.

WB4APR REPLY COMMENT: I *may* be making a bulk purchase of the GARMIN GPS-20 OEM board and connectors. I should be able to pass them out for $159 if I am lucky. Add an old $20 HT-220 motorola walkie talkie and $20 worthof XTALS, and a TNC for $130 and it adds up to about $350....
Or probably $400 if you buy off the shelf radios...

Dont send me mail about the Garmin boards until I know If I am going to go out on this limb..... You will hear about it here...

---

80. APRS Packet Simulation Program

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Mar 1996 16:55:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960305164954.9525A-100000@greatlakes>
Rendered body type: text/plain

In response to the Agrelo problem of having 300 hand held APRS MIM transmitters for transmitting 5 multiple choice answers from an audience to a computer, I wrote SIMULATE.BAS/EXE. I have just posted it on the tapr/SIG/aprssig/upload dierctory.

Run it and you will see that it will take 8 channels of about 40 MIMS per channel transmitting 0.25 second packets. To get 97% of all answers in in under 2 minutes. (I think, I cant remember exactly).

In any case, this tool is a great way to see how many UI packet stations can fit on a channel and all be heard in how much time. My next version will include the effects of a digipeater (if I get around to it...)

---

81. Nautical Chart INTERFACE!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Mar 1996 17:06:34 -0500 (EST)
To: aprssig@tapr.org
Cc: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.960305165542.9525B-100000@greatlakes>
Rendered body type: text/plain

I just interfaced APRS to a commercial program called CAPN. It is a full featured navigational program using the new formated CHARTS available. In the CAPN program, it looks just like you are looking at a standard nautical chart... What the CAPN folks have done is add a HOOK so that APRS can grab the current POSIT.

This means on a dual COMM port PC, you can be running CAPN (who is looking for GPS data on one COMM port) and doing all your navigation stuff, while having APRS running in the background and handling the external communications with the TNC and radio. In otherwords, APRS remains aware of your position and keeps the radio channel informed of your position as well as being able to send and receive messages.

Notice ONLY your location shows up on CAPN, but all other APRS boats show up on the APRS screen, and APRS keeps you in comunication. Really, all this interface does, is allow both CAPN and APRS to share the GPS data that is comming in on the GPS port, but if you are going to spend $500 on a full featured bit-mapped navigational program, this allows you to still run APRS without running out of COMM ports....

OR, of course, you can run CAPN shoreside, and use the APRS serial port interface to send over ALL APRS POSITS onto the CAPN displays! They will not be labeled with callsigns, but at least you can see where they all were...

---

82. Frequency Coordination

From: dwetzel@uswest.com
Date: Tue, 5 Mar 1996 13:49:55 -0600
To: aprssig@tapr.org
Message-ID: <13c9d640@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Apparently our frequency coordinator here in Utah isn't going to make a move until he hears the ARRL "blessing" on 145.79.

Is there anyone out there who knows the ARRL position (Bob?) on 145.79 as a recommended frequency for APRS? We've been fooling around with this coordination for six months, and are starting to get too many users to wait much longer for a move to a permanent home.

TIA

Doug
KC7CO

---

83. Re: [APRSSIG:7228] SUGGESTED APRS HF FREQS...

From: n2czf@gate.net
Date: Tue, 5 Mar 1996 18:12:39 -0500
To: aprssig@tapr.org
Message-ID: <199603052312.SAA28078@osceola.gate.net>
Rendered body type: text/plain

The 80M APRS frequency is being tested in FL so far by myself N2CZF, KD4UYR in the Tampa Bay area, and WA6RTX all over the state in a RV last headed for the Panhandle.

We have had others testing in the past but as with most other things interest has dwindled over the past month or two. All in all I am quite pleased with 80M, it does have it's problems but it does allow some communications that we are not able to hold over a VHF or 30M path.

AGAIN WE ARE LOOKING FOR MORE STATIONS IN OTHER AREAS OF THE STATE !!! I REALLY WANT TO HEAR FROM THE JACKSONVILLE, MIAMI, AND KEYS AREA. We have some plans in the future for South and Central coverage but maybe more areas and we need more tests.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

84. MIMS etc

From: KD4EMI@aol.com
Date: Tue, 5 Mar 1996 18:27:28 -0500
To: aprssig@tapr.org
Message-ID: <960305182727_161050968@mail06.mail.aol.com>
Rendered body type: text/plain

I think the random wait function is a great idea. MFJ uses that idea as their "anti-collision" scheme.

here is my toss into the ring.

Make the devices sequentially transmit their data up the line to the next machine then up the line to the next machine.   Then lets say 5 of the devices xmit all of their data from 20 end users ... Follow me ?

OR establish a NODE that is responsible for 10 devices. The node will be responsible for final uplink to main unit. Say, 10 nodes competing for time, add the random wait timer. You could have many more end devices this way. Each individual device can be only linked to a node device.

Do I win ?   :)

Mike   KD4EMI@AOL.COM

85. Re: [APRSSIG:7231] APRS Packet Simulation Program

```
From: n2czf@gate.net
Date: Tue, 5 Mar 1996 18:38:30 -0500
To: aprssig@tapr.org
Message-ID: <199603052338.SAA45932@osceola.gate.net>
Rendered body type: text/plain
```

```
I think this is a wonderful idea if you add a twist to it. Modify the program
and call it MESS.BAS/EXE and have it do a simulation of what will happen if too
many stations are configured as a WIDE in a "small" area!

Show the theoretical collision rate, average time that a packet will need to get
thru vs. what it would have been if not as many digi's were seen etc.

It will probably need to have a few assumptions made but may be a great training
tool. Have a option for chosing how many wides you want to send a packet thru,
and another for how many wide's you can actually see on your screen.
For instance, TX path is WIDE,WIDE,WIDE, and I can see 7-8 WIDE's on my screen
at any time!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

86. New Email Address

```
From: normj@interaccess.com (Norman R. Johnson)
Date: Tue, 5 Mar 1996 17:54:00 -0600 (CST)
To: APRSSIG@tapr.org
Message-ID: <v01520d00ad62308b3f26@[206.183.79.49]>
Rendered body type: text/plain
```

```
I am located in Darien, IL. and would like to get a radio email address. I
was told that you provide those.

My call sign is KB9MTA.

Please provide at you earliest convience.

Thanks in advance, and 73's.

Norm Johnson
```

---

87. N2CZF makes the Big Time!

```
From: ku0g@sprynet.com
Date: Tue, 5 Mar 1996 16:40:07 -0800
To: aprssig@tapr.org
Message-ID: <199603060040.QAA00834@sprynet.com>
Rendered body type: text/plain
```

```
Read, with great interest, Rich's letter regarding the recent
non-amateur-related insurance advertising in QST!
Hooray for Rich!  (See Letter in March '96 QST)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

88. Re: [APRSSIG:7233] Frequency Coordination

```
From: ku0g@sprynet.com
Date: Tue, 5 Mar 1996 16:42:36 -0800
To: aprssig@tapr.org
Message-ID: <199603060042.QAA01279@sprynet.com>
Rendered body type: text/plain
```

```
You may wish to gather information from the Freq Coord's in all other states as
to the status of APRS/145.79 coordination.  Kansas has the frequency coordinated
for exclusive APRS use as of August, 1995.  We're getting ready to make the push
here in Missoui, too!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

89. Re: [APRSSIG:7217] 300 packets senario w/MIM contest.

From: ttyamada@CCGATE.HAC.COM
Date: Tue, 05 Mar 96 16:56:58 PST
To: aprssig@tapr.org
Message-ID: <9602058260.AA826074161@CCGATE.HAC.COM>
Rendered body type: text/plain

```
How far will the transmitters be from the receiver?

     A type of user feedback that alerts the user that his button
     press has been acknowledged is good to have,
     will a method of visual or audible feedback be ok from
     the controller at the receiver end? The user can keep pressing
     until he gets an acknowledge if the distance is not to
     far.......


     73, de Ted
     (KJ6ZJ)


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7217] 300 packets senario w/MIM contest.
Author:  aprssig@tapr.org at CCGATE
Date:    3/1/96 10:12 AM


TO THE SIG,

Ok, here is a BIG question with a FREE prize.

We have been approached by a University to produce 300 HPVFC/MIM units that
transmit a ID and A,B,C or D answer corosponding to a button press. These are
students transmitting answer packets for a lecture survey to be received by a
scanner for software retrieval and ultimatly printout for data calculations.

The BIG question, how can you cost effectivly, with out data collision
receive three hundred packets at once? Keep in mind that each student needs
time to think about their answer before they depress a button. Having 300
custom made crystals would be very expensive. And transmitting at 300
different time delays would take too long i.e 5 minutes total if they were
all at different incrementing 2 second delays 60 packets per minute, they
would all have to transmit exactly at the same time to get the timming right
and the receiver would have to scan very fast with each consecutive delay
consecutively in the scanners memory. The transmitters would be 10mW RF for
those about to FLAME me.

Please, only reply if you have a good solution or answer.

The winner gets a FREE HPVFC transmitter for a practical, working, ideal
solution.

GOOD LUCK!

 73 de Joe N2OOC
-------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-------------------------------------------------------------------------------
-----------------
```

---

90. SUGGESTED APRS HF FREQS...

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Tue, 5 Mar 1996 18:43:58 -0800
To: aprssig@tapr.org
Message-ID: <199603060243.SAA11368@poseidon>
Rendered body type: text/plain

```
APRS @ ALLUS                                       Filed: 032300GMT MAR 96
    Several messages concerning HF freqs for APRS have been seen on the sig
```

here and on Packet BBS's..

Here are some suggestions by George/W8FWF and in Readme files, over a year old:

```
------------------------------------------------------------------------------
APRS HF FREQUENCIES OPERATIONS                        JAN 95
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          14.0963   14.0958 USB    Proposed new APRS DX Freq.

HERE ARE SOME OF THE APRS FREQUENCIES NOW IN USE ON THE LOW BANDS....
THE ENTRIES WITH (P) ARE NEWLY PRO0POSED FREQUENCIES STILL BEING TESTED..(By
who?)
-------------------------------------------------------------------------------
ACTUAL XMIT FREQ.    MFJ/KAM DIAL (1700HZ TONE)      AEA DIAL (2210HZ TONE)
-------------------------------------------------------------------------------
  3583.3 KHZ (P)      3,585   KHZ (LSB)               3585.51 KHZ (LSB)
  7083.3 KHZ          7,085   KHZ (LSB)               7085.51 KHZ (LSB)
10,149.3 KHZ         10,151   KHZ (LSB)             10,151.51 KHZ (LSB)
14,098   KHZ         14,096.3 KHZ (USB)             14,095.79 KHZ (USB)
18,098   KHZ (P)     18,096.3 KHZ (USB)             18,095.79 KHZ (USB)
21,098   KHZ (P)     21,006.3 KHZ (USB)             21,095.79 KHZ (USB)
24,928   KHZ (P)     24,926.3 KHZ (USB)             24,925.79 KHZ (USB)
28,098   KHZ (P)     28,096.3 KHZ (USB)             28,095.79 KHZ (USB)

  (Note: the 24Meg freq may be in error, someone correct me if so)
==========================================================================
```

The low bands will provide more activity and longer distances to the other station. While a VHF TNC works at 1200 bauds, on the Low Bands, you will need a TNC that will operate at a 300 baud rate. Several are available. Ideally, you should opt for a TNC that will allow for simultaneous operation (GATEWAY) on the low ands and also the VHF band. This allows you to link (GATE) the HF data from the HF band, down to the VHF side. To see the newmerous HF out of state APRS stations on your local VHF network band. (VHF 145.79/14501 & few others.)

Please read the HF.TXT file in the programs README.DIR. This will enlighten many on the HF to VHF only use of GATEWAY stations and GATE paths.

QSO among yourselves on testing the SUGGESTED frequencies, let the rest of us know. Am willing to help, need date,time (GMT) and freq and will give it a go OM..

73's & Enjoy, Bill/WB6LPG SanFran Bay Area 30M reliable GATEWAY station, on daily.. See Feb issue P45 of Cruising World for APRS for Yachting Hams. Off mexico more S/V appearing, QSO and encourage the Yachting World about APRS.
NNNN

WBB/WB6LPG

---

91. Re: U2000/APRS interface error?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Mar 1996 22:12:18 -0500 (EST)
To: KSwaggart@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960305220738.10134E-100000@greatlakes>
Rendered body type: text/plain

Ill look at that. One thing that APRS is doing for about the last 6 mos is running a sliding average. For each WIND speed from your ATTACHED U-II, I take 25% of the new reading, and add it to 75% of the old reading. When reading the Ultimeter every 15 seconds, this gives a good 1 minute running average wind speed vice Peaks.

I was reminded of this while testing the U-2000 with a fan. (constant speed). the U2 would be reporting 15 MPH, yet the first reading was 4! then after a minute or so, it was catching up to 15...

---

92. RE: [APRSSIG:7225] Problem with hearing my Digis

From: Roger Sellers <rsellers@misha.net>
Date: Tue, 5 Mar 1996 22:30:11 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0AE4.5CAD40A0@dial10.misha.net>
Rendered body type: text/plain

I've had similar situation that were only corrected by doing a HARD RESET to the TNC. Then all worked well
73,

Roger Sellers

KB9LBU

From: Richard Amirault[SMTP:amirault@laraby.tiac.net]
Sent: Tuesday, March 05, 1996 5:50 AM
To: aprssig@tapr.org
Subject: [APRSSIG:7225] Problem with hearing my Digis

I've seen other folks mention this on occasion on this sig, but it happend to me *again* today and its time for me to mention it.

I run two 24hr APRS stations. One is a VHF stn at my home. The other is a WX station at my job location. Until recently I was running 6.8a since I kept getting problems with newer versions. 6.8a worked for me.

I recently upgraded the motherboard in my home computer (from a 386DX-40 to a 5x86-133) During the upgrade process I discovered that I had a bad Simm memory chip somewhere. (I had been having problems with the machine for a while) It occured to me that maybe this might also have hindered my APRS upgrade attempts. I replaced the bad memory. I downloaded 7.5 and tried it. Everything worked just fine!

I took 7.5 into work and installed it on my 286 dedicated to my WX station. It ran fine .... until I had to move my office (and my station) from one side of the building to the other....

I was seeing my WX station all weekend from home, but when I got to work this morning I noticed that I kept getting the msg that APRS was NOT seeing the last digi. I checked the TNC (the red xmit LED came on ... and I saw the receive LED come on just after) I checked the transmitter (on proper freg, at high power, antenna connected, etc) I *shut* the TNC off, then powered it up again. I changed my Unproto path a half a dozen times. I did *manual* transmissions with the 'X' key. I shut down APRS and re-booted a couple of times.

Nothing worked ... *every* time I got the Digi Not Seen msg.

Then without toching any of the hardware ... I shut down 7.5 and booted 6.8a .... It worked just fine now!

I'm not saying that this is a problem only with 7.5 because I had the same thing happen to me on 6.8a when I tried running my 8088 laptop "live" mobile once.... (could NOT see any digis, but the recieve LED lit up *every time* right after the transmit LED)

Any comments?

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

93. Re: [APRSSIG:7198] Re: I need more COM Ports!

From: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Date: Tue, 5 Mar 1996 23:43:48 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199603060443.AA13956@tigger.jvnc.net>
Rendered body type: text/plain

At 07:13 AM 3/3/96 -0600, Robert James Harris wrote:
>
>   Windows 3.1 supports 9 com ports and a bus mouse nicely. Whats
>worse than com port stupidity is hardware assholeyness. Every peice
>demands an IRQ, usually in the old xt range - which means 3,4,5,7. Kiss
>running most things together. Most demand an I/o address in the 300 to
>360 range. Then the drivers all demand conventional memory, but the
>author snivels and says you can move his 100k + driver "high" to share
>with the other stuff that can be moved high when with even half assed
>design virtually all can be moved into either extended or expanded memory
>and avoid this stuff.
>
>   Of course, if most external hardware moved into the 90's, it
>would not use a serial port. With ethernet cards retailing at shows in
>the 24 dollar range, and the hardware cost to install the interface not
>much more than for a serial port, I wonder when hams will come into the
>20th century. Think of it, hundreds of devices using Win 95 built in
>comm software, talking over 1 bus, with no software or hardware
>conflicts, etc. Boggles the mind, but since it has only been happening
>in business LAN's for only 10 years, it will take at least 30 more before
>the technology is ancient enuff for hams.

```
>
>       Oh well, what I really wrote for was to support you and your
>demands that hardware and software people get real.
>
>                                           Lots of Good Luck
>
>
>
```

That would entail an ethernet port hanging off the back of a TNC, WX gizmo, etc...

That will leave out 80% of the hams who are still using VIC-20s and C64s.

I would love to see a thinnet or 10-base-t port on the backs of things, would work very nicely, but alas, my TI-99/4 wont do that :)

```
--
***********************************************************************
** Ronald C. Barnes  KA1KJZ      Engineering Tech, Group W Satellite **
** 1591 W. Broad Street          ARRL CT Section Technical Coord.    **
** Stratford, CT  06497          Member, Soc. Broadcast Engineers    **
**                                                                   **
** The preceding was brought to you by Ouchies (tm)                  **
** The prickly toy you bathe with                                    **
***********************************************************************
```

---

94. Maplist Maker?

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Tue, 5 Mar 1996 23:42:33 -0600
To: aprssig@tapr.org
Message-ID: <9603052342.AA33664@oscar.telalink.net>
Rendered body type: text/plain

There was some discussion on an automated Maplist maker program back in December and January. Has there been any progress on this? Is it available at TAPR and I just missed it? I am trying to make some maps and integrate themm with others that I have received into one master Maplist.

73
Bruce

---

95. Comm trouble 2

From: Steve Sable <ssable@ic.net>
Date: Wed, 06 Mar 1996 08:15:50 -0500
To: aprssig@tapr.org
Message-ID: <m0tuJ4k-003UYVC@ic.net>
Rendered body type: text/plain

How are you working the Ultimeter with APRS?
I got the Ultimeter 500 with the interface cable. I have tried to unplug the mouse from com1 and plug in the Ultimeter but nothing happens. Yes I have held the 2 keys down on the Ulitmeter to put it in the packet mode. The tnc is on com2, a PK-900. Wondering if because the APRS prog uses the mouse for the program is this causing a conflict?
I tried to REM out loading the mouse but for some reason the computer wont boot past the CMOS info.
I also tried adding a I/O card that will config to any IRQ and set com3 and com4 to open IRQ's, but if I try that, APRS during set-up, says 3&4 need to be same IRQ's as com 1&2 when you get to the question of "using another com port?". It still didnt work that way either, no data from Ultimeter.
I have seen some messages saying to put the APRS in a different mode then WX?
Can anyone start me off in the right direction? Didnt get much from the doc's.

```
                                  \\\\
                                  (o^o)
    =========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    ========================================================
```

---

96. converting map?

From: jaslee@hyowon.cc.pusan.ac.kr (Junseok Lee)
Date: Wed, 6 Mar 1996 22:23:04 +0900
To: aprssig@tapr.org
Message-ID: <9603061323.AA19250@hyowon.cc.pusan.ac.kr >
Rendered body type: text/plain

```
How can I convert map file (autocad .dwg files to APRS map file)?
and microstaion file format(.dgn) is OK.
please let me know How can I do it?
thanks.
```

97. RE: [APRSSIG:7237] New Email Address

From: Stan Horzepa <stan.horzepa@gdc.com>
Date: Wed, 6 Mar 1996 08:34:16 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0B37.B641E820@epc755.gdc.com>
Rendered body type: text/plain

```
Hello Norm,

I do NOT provide radio email addresses. Whoever gave you that information is misinformed.

To obtain a radio email address, you need to contact the operator of the internet-packet-radio gateway
you intend to use.

73,

Stan, WA1LOU

----------
From: 	Norman R. Johnson[SMTP:normj@interaccess.com]
Sent: 	Tuesday, March 05, 1996 1:06 PM
To: 	aprssig@tapr.org
Subject: 	[APRSSIG:7237] New Email Address

I am located in Darien, IL. and would like to get a radio email address. I
was told that you provide those.

My call sign is KB9MTA.

Please provide at you earliest convience.

Thanks in advance, and 73's.

Norm Johnson
```

98. RE: Converting a map?

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 6 Mar 96 8:49:54 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.826120194.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
> How can I convert map file (autocad .dwg files to APRS map file)?
> and microstaion file format(.dgn) is OK.
> please let me know How can I do it?
> thanks.


MacCartogropher (The Map Making program we are working on) will be able
to do this type of conversions....    eventually..

Lets discuss this off-line..  Anyone else interested in this type of
conversions, please send me e-mail direct..  Once we are closer to having
a real solution, we will bring it back to the SIG..

Also, don't expect anything like this to be done until AFTER Dayton.. :-)

Keith


Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

99. Re: [APRSSIG:7235] MIMS etc

From: JAgrelo@aol.com
Date: Wed, 6 Mar 1996 09:11:24 -0500
To: aprssig@tapr.org
Message-ID: <960306091122_238898912@emout09.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-03-05 19:19:59 EST, you write:

```
>I think the random wait function is a great idea. MFJ uses that
> idea as their "anti-collision" scheme.
>
>here is my toss into the ring.
>
>Make the devices sequentially transmit their data up the line to the next
>machine then up the line to the next machine.   Then lets say 5 of the
>devices xmit all of their data from 20 end users ... Follow me ?
>
>OR establish a NODE that is responsible for 10 devices.  The node
>will be responsible for final uplink to main unit.  Say, 10 nodes
>competing for time,  add the random wait timer. You could have
>many more end devices this way. Each individual device can be only linked to
>a node device.
>
>Do I win ?     :)
>
>Mike    KD4EMI@AOL.COM
```

Thanks for your reply, we will eveluate your thoughts and get back to you.

```
 73 de Joe N2OOC
-----------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-----------------------------------------------------------------------------
-----------------
```

100. Re: [APRSSIG:7240] Re: 300 packets senario w/MIM contest.

From: JAgrelo@aol.com
Date: Wed, 6 Mar 1996 09:15:54 -0500
To: aprssig@tapr.org
Message-ID: <960306091553_238901418@emout10.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-03-05 21:02:29 EST, you write:

```
>
>     How far will the transmitters be from the receiver?
```

This is variable.

```
>     A type of user feedback that alerts the user that his button
>     press has been acknowledged is good to have,
>     will a method of visual or audible feedback be ok from
>     the controller at the receiver end? The user can keep pressing
>     until he gets an acknowledge if the distance is not to
>     far.......
```

Don't forget! the student doesn't have a receiver.

```
 73 de Joe N2OOC
-----------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-----------------------------------------------------------------------------
-----------------
```

101. Re: [APRSSIG:7237] New Email Address

From: "Ralph R. Swick" <swick@x.org>
Date: Wed, 06 Mar 1996 09:21:33 EST
To: "Norman R. Johnson" <normj@interaccess.com>
Cc: aprssig@tapr.org
Message-ID: <199603061421.AA023022094@huey.x.org>
Rendered body type: text/plain

Norm wrote

    I am located in Darien, IL. and would like to get a radio email address.

I'm guessing that perhaps you are asking about TCP/IP over amateur
radio, Norm? That's not a subject for this list, but many here
(like myself) do both APRS and TCP/IP.

According to my latest information, the TCP/IP address coordinator
for the Chicago area is Ken Stritzel WA9AEK. If TCP/IP is what
you are interested in, get in touch with Ken and he should be
able to put you in touch with other locals who can help you get
on the air with TCP/IP. Unlike many other modes, TCP/IP over the
air is definitely not something you can do all by yourself and
be successful at joining an existing user community.

There are other options that might be interpreted as "radio email".
Ask me off-line if TCP/IP isn't what you were thinking about.

Good luck es 73
de Ralph, kd1sm

```
kd1sm@x.org                    Internet
kd1sm@iii.net                  Internet
kd1sm@kd1sm-1.ampr.org         AMPRnet
kd1sm@k1ugm.#ema.ma.usa        AX.25
```

---

102. Re: [APRSSIG:7245] Maplist Maker?

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 6 Mar 1996 08:34:42 -0600
To: aprssig@tapr.org
Message-ID: <199603061434.IAA20074@tbc2.tbcnet.com>
Rendered body type: text/plain

In every distribution DOS APRS, Bob puts a utility called "Mkmaplst.bas" or
something to that effect.

How it works is you put the maps and the utility in the same directory, by
themselves. Run the maplist program thru QBASIC. The resulting file,
MAPCENS.txt, which map be in a directory other than where you think it
should be, is the basis for your MAPLIST.xxx. Sort the filenames, etc., in
order if you were zooming in and use a distribution maplist as a pattern to
finish it up.

READ THE DOCS! There's all the info there that you need.
If you don't have a distribution version of APRS, go to
ftp.tapr.org/tapr/SIG/aprssig/
to get one.

jbl

```
>There was some discussion on an automated Maplist maker program back in
>December and January. Has there been any progress on this? Is it available at
>TAPR and I just missed it?  I am trying to make some maps and integrate themm
>with others that I have received into one master Maplist.
>
>73
>Bruce
>
>--
>************************************************************************
>* Bruce W. Martin           Internet: martinbw@telalink.net           *
>* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                           *
>* Hermitage TN  37076-2650      ICBM/ALCM                             *
>* Voice:     (615) 872-7733       Address:36°10'30"N/86°35'30"W       *
>* FAX/MODEM: (615) 872-0045          APRS:3610.50N/08635.50W          *
>* URL:  http://www.tbr.state.tn.us/~martinbw/home.html                *
>*                                                                  0- *
>*If you see this signature but no text above it please let me know.   *
>************************************************************************
>
-----------------------------------------------------------------
```

```
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
KARC HAMFEST: http://tbcnet.com/~jleonard/hamfest.htm
```

---

103. Re: [APRSSIG:7246] Comm trouble 2

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 6 Mar 1996 08:38:00 -0600
To: aprssig@tapr.org
Message-ID: <199603061438.IAA20123@tbc2.tbcnet.com>
Rendered body type: text/plain

```
1.      Didya get a WX validation # from Bob?
2.      Didya save the WX function?

jbl



>How are you working the Ultimeter with APRS?
>I got the Ultimeter 500 with the interface cable. I have tried to unplug the
>mouse from com1 and plug in the Ultimeter but nothing happens. Yes I have
>held the 2 keys down on the Ulitmeter to put it in the packet mode. The tnc
>is on com2, a PK-900. Wondering if because the APRS prog uses the mouse for
>the program is this causing a conflict?
>I tried to REM out loading the mouse but for some reason the computer wont
>boot past the CMOS info.
>I also tried adding a I/O card that will config to any IRQ and set com3 and
>com4 to open IRQ's, but if I try that, APRS during set-up, says 3&4 need to
>be same IRQ's as com 1&2 when you get to the question of "using another com
>port?". It still didnt work that way either, no data from Ultimeter.
>I have seen some messages saying to put the APRS in a different mode then WX?
>Can anyone start me off in the right direction? Didnt get much from the doc's.
>
>                                  \\\\
>                                  (o^o)
>    =========================OOo== (_) ==oOO================
>    | It doesn't get any better than this! (ssable@ic.net) |
>    ========================================================
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
KARC HAMFEST: http://tbcnet.com/~jleonard/hamfest.htm
```

---

104. Re: [APRSSIG:7245] Maplist Maker?

From: "ke4eer" <ke4eer@hiwaay.net>
Date: Wed, 6 Mar 1996 08:38:11 +0000
To: aprssig@tapr.org
Message-ID: <9603061438.AA31200@fly.HiWAAY.net>
Rendered body type: text/plain

```
Hi Bruce, your right no message, actually on both your messages. What
you see below is what i got.
Bill KE4EER
------------------
> Date:          Tue, 5 Mar 1996 23:54:33 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          "Bruce W. Martin" <martinbw@telalink.net>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:7245] Maplist Maker?

> --
> ***********************************************************************
> * Bruce W. Martin           Internet: martinbw@telalink.net           *
> * 4558 Brooke Valley Dr.    HAM Call: KQ4TV                           *
> * Hermitage TN  37076-2650      ICBM/ALCM                             *
> * Voice:     (615) 872-7733       Address:36 10'30"N/86 35'30"W       *
> * FAX/MODEM: (615) 872-0045          APRS:3610.50N/08635.50W          *
> * URL:  http://www.tbr.state.tn.us/~martinbw/home.html                *
> *                                                                  0- *
> *If you see this signature but no text above it please let me know.   *
> ***********************************************************************
>
>
Bill KE4EER
ke4eer@hiwaay.net
```

105. Re: [APRSSIG:7246] Comm trouble 2

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 09:43:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306092406.1955B-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 6 Mar 1996, Steve Sable wrote:

> I got the Ultimeter 500 with the interface cable. I have tried to unplug the
> mouse from com1 and plug in the Ultimeter but nothing happens.

REPLY: You must re-boot the PC and PREVENT the mouse driver from loading
before you can re-use that port. (I think)

> Yes I have held the 2 keys down on the Ulitmeter to put it in the
> packet mode.

WRONG!  In packet mode, the Ul only outputs one packet every 5 minutes.
It should be in data logger mode.
```

---

106. Re: [APRSSIG:7239] Re: Frequency Coordination

From: dwetzel@uswest.com
Date: Wed, 6 Mar 1996 10:32:36 -0600
To: aprssig@tapr.org
Message-ID: <13dc0770@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Thanks for the suggestion Jim, and to you too, Bob for the offline comments.

If all the coordinators who read the sig would drop me a note via direct email
summarizing their experiences, I would greatly appreciated it!

Thanks

Doug
KC7CO
dwetzel@uswest.com

You may wish to gather information from the Freq Coord's in all other states as
to the status of APRS/145.79 coordination.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

107. Re: [APRSSIG:7255] Re: Maplist Maker?

From: ku0g@sprynet.com
Date: Wed, 6 Mar 1996 09:36:39 -0800
To: aprssig@tapr.org
Message-ID: <199603061736.JAA21893@sprynet.com>
Rendered body type: text/plain

```
I got Bruce's messages OK....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

108. Freq Coordination of 145.79

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 12:50:00 -0500 (EST)
To: dwetzel@uswest.com
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306123015.6139B-100000@greatlakes>
Rendered body type: text/plain

```
WB4APR REPLY COMMENT:  To help UTAH get 145.79, we need a DEFINITIVE
list of other Freq Coordinations that can be distributed as a resource
Since dwetzel@uswest.com is currently having a coordination problem, I
suggest that he be drafted to collect information from everyone on the
SIG about states that are coordinated.  SEND IT TO THE SIG so that
everyone knows what areas are coverd and which ones are not.  Be sure you
```

include the following kinds of information. Keep it brief. THanks

FREQ	STATE	COMMITTEE	DATE
5.79	MARYLAND	TMARC, The Mid Atlantic FM & Repeater Council DMARC, The Digital Mid Atlantic Radio Council Not "coordinated" but LISTED. Neither group "coordinates" digital users.	1993

I have heard of coordination efforts and succeses in the following states but do NOT trust my memory as to which are "OFFICIAL". For Dwetzel, use this list as a checkoff sheet to see that you get responses from at least these major areas of activity...

Michigan ?
Wisconsin ?
Ilinois ?
Georgia ?
South Carlina ?
Calif (coordinated in the North on 145.01)
Iowa ?
Missouri ?
Florida ?
Maryland
New Jersey ?
Massachusetts ?
Arizona

Hopefully our Draftee, Dwetzel will edit all responses into a nice resource file for everyone...

---

109. 40 Mtr. APRS Activity

From: Gordon Fuller <gfuller@netcom.com>
Date: Wed, 6 Mar 1996 10:30:17 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9603061038.A17761-0100000@netcom20>
Rendered body type: text/plain

I have been searching for APRS activity on 40 Mtrs. for some time without much luck. I have never heard an APRS signal on 7085 here in Calif. I have heard some activity on 7091 lssb but most are not APRS stations. I see stations in Colo. quite often who appear to be running APRS but do not send a position rpt. It would appear that here on the West Coast, 7091 lssb is a more active frequency. On 7085 lssb, I only copy Spanish speaking voice stations. 73 Gordy WB6OVH Sacramento, CA.
gfuller@netcom.com

---

110. Re: [APRSSIG:7251] Re: 300 packets senario w/MIM contest.

From: ttyamada@CCGATE.HAC.COM
Date: Wed, 06 Mar 96 11:02:00 PST
To: aprssig@tapr.org
Message-ID: <9602068261.AA826139029@CCGATE.HAC.COM>
Rendered body type: text/plain

I'm sorry didn't make it clear, the receiver I was referring to was the one on the scanner side, not on the student side. based on your response I'm guessing the student won't be able to see/hear a controller sitting next to the scanner.....
oh well....
73 Ted...

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7251] Re: 300 packets senario w/MIM contest.
Author: aprssig@tapr.org at CCGATE
Date: 3/6/96 7:16 AM

In a message dated 96-03-05 21:02:29 EST, you write:

>
> How far will the transmitters be from the receiver?

This is variable.

> A type of user feedback that alerts the user that his button
> press has been acknowledged is good to have,
> will a method of visual or audible feedback be ok from
> the controller at the receiver end? The user can keep pressing

```
>     until he gets an acknowledge if the distance is not to
>     far.......
```

Don't forget! the student doesn't have a receiver.

---

111. Re: [APRSSIG:7249] RE: Converting a map?

From: rwf <rwf@mindspring.com>
Date: Wed, 6 Mar 1996 16:03:25 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960306155957.42ffbfc0@mindspring.com>
Rendered body type: text/plain

At 08:05 AM 3/6/96 -0600, someone wrote:
>> How can I convert map file (autocad .dwg files to APRS map file)?
>> and microstaion file format(.dgn) is OK.
>> please let me know How can I do it?
>> thanks.

If you can plot your dwg file to a disk, then you can use the following method. KG8GE wrote a program called PLT2MAP (I think) that converts an Autocad PLT file to an APRS map. It is available for him for a small fee. It is mentioned in the Mapmaking Readme files that come with APRS.

KG8GE reads the SIG, and will probably respond as well.   I just can't remember his Email address.

---

112. GPS simulator

From: Paul Gilmore <pgilmore@beachnet.org>
Date: Wed, 06 Mar 1996 17:24:49 -0500
To: aprssig@tapr.org
Message-ID: <313E10B1.1459@beachnet.org>
Rendered body type: text/plain

Hi All:
I have uploaded a GPS simulator from IIMORROW. It is there APOLLO Precedus hand-held model. It works very well, and is a lot of fun to play with. It is a windows program, and works under Win95, have fun. It can be found in /tapr/SIG/aprssig/upload as precedus.exe...

Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
EMAIL pgilmore@beachnet.org

---

113. Re: [APRSSIG:7238] N2CZF makes the Big Time!

From: n2czf@gate.net
Date: Wed, 6 Mar 1996 17:33:42 -0500
To: aprssig@tapr.org
Message-ID: <199603062233.RAA26388@osceola.gate.net>
Rendered body type: text/plain

Big time ??? Not quite but it did get me 1 piece of anonimous hate mail from PA just 1 week after printing! Whoever it was he was clueless, must have a partial deck of cards since the his letter had nothing to do with my mine. As a matter of fact the way it read it sounded like it was some form letter since it spoke about trashing of authors and articles two things that had nothing to do with mine.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

114. Re: [APRSSIG:7239] Re: Frequency Coordination

From: n2czf@gate.net
Date: Wed, 6 Mar 1996 17:47:53 -0500
To: aprssig@tapr.org
Message-ID: <199603062247.RAA19606@osceola.gate.net>
Rendered body type: text/plain

Florida has has coordination since 1994-95 via FADCA (Florida Amateur Digital Coordination Association)

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

115. Re: [APRSSIG:7233] Frequency Coordination

From: n2czf@gate.net
Date: Wed, 6 Mar 1996 17:46:27 -0500
To: aprssig@tapr.org
Message-ID: <199603062246.RAA27852@osceola.gate.net>
Rendered body type: text/plain

What is 145.79 being used for in Utah right now ?? Many areas do not have coordination on 145.79 but still use it. All that coordination means that the coordinator has given their blessing and many argue if that blessing means anything. I am not saying that coordination is not necessary if needed but it is by no means a REQUIREMENT in some areas.

Coordination should give you protection from others that come on the frequency later on and try to use it for other things like BBS's, Voice Repeaters, Autopatch Remote Bases etc. I have yet to hear of a situation where coordination has provided protection yet, which is a good thing. Seems that many people do honor coordination but it would be interesting to see what LEGAL recourse a coordination would give someone. Let's hope we never need to find out!

Another question I have is if a certain frequency is not coordinated for anything yet and someone requests it who is a coordinator to deny it based on their personal decision ?? I am for coordination but I am also AGAINST any abuses taken by someone in some position of power. This is a gray area since digital coordination is new in some areas and the legal rights of coordination is also new. It's so new that I have never heard of legal ramifications occurring yet. Has anyone had any experience with DIGITAL COORDINATION and the legal impact ?? I would love to hear about any actual cases...
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

116. Re: [APRSSIG:7232] Nautical Chart INTERFACE!

From: William Neal <wmn3@dfw.net>
Date: Wed, 6 Mar 96 17:00:55 CST
To: aprssig@tapr.org, cap-comm@ca0408.cap.gov
Message-ID: <2.2.16.19960306165528.27d722e2@dfw.net>
Rendered body type: text/plain

At 16:22 3/5/96 -0600, Bob Bruninga wrote on aprssig@tapr.org:
>I just interfaced APRS to a commercial program called CAPN. It is a full
>featured navigational program using the new formated CHARTS available.
>In the CAPN program, it looks just like you are looking at a standard
>nautical chart... What the CAPN folks have done is add a HOOK so that
>APRS can grab the current POSIT.
>
---snip!

Bob,
where can one get more info on the CAPN system? Would someone doing air navigation be interested in it?
William Neal, Sgt, USAF (Ret.)
----
wmn3@dfw.net *** n0nsa@n5aux.tx.usa.noam
Home 817-788-8550 *** Page 817-452-9787

Retired at age 31! As the lady on the Church's commercial say's, "Gotta Luv It".

---

117. Re: [APRSSIG:7259] Freq Coordination of 145.79

From: ku0g@sprynet.com
Date: Wed, 6 Mar 1996 16:14:21 -0800
To: aprssig@tapr.org
Message-ID: <199603070014.QAA04814@sprynet.com>
Rendered body type: text/plain

FYI: 145.79 MHz and the UHF Frequency (it escapes me right now) that Bob, WB4APR, proposed are BOTH coordinated to APRS in KANSAS. Coordination was initiated by myself and extremely valuable assistance was rendered by Karl Medcalf, WK5M (Kantronics). The Kansas Digital Coordinating Committee and the Kansas Frequency Coordinator were involved in the coordination implementation.

Missouri is not YET coordinated. I simply have not had time to initiate the contact with the State Coordinator and the Digital Coordinator yet. I AM told, though, that they are open to following Kansas' lead.

More later...

Best 73,
Jim Duncan, KU0G

APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

118. Is this possible???

From: "AL Z., N3KAE" <ldajz@epix.net>
Date: Wed, 06 Mar 1996 19:18:44 -0800
To: aprssig@tapr.org
Message-ID: <313E5594.6100@epix.net>
Rendered body type: text/plain

Howdy folks...

May sound stupid, but in the honor of experimentation, I run this by you before I try it.

Wondering about setting up a makeshift GATE here in NE PA. Problem is that I do not have a dual port TNC. I do have 2 MFJ 1270's and would like link one TNC on HF to my other TNC on 145.79 MHz. Can this be done without frying a vital organ at my QTH???

My biggest concern is voltage back to the computer through the DB25. I would like to cross the TNC's as would be done in a backbone configuration of a NODE stack, but maintain the computer connection to my COM 1. I've run this by a few people and answers range from impossible, to only via TCP/IP, to only by using two COM ports on the computer.

In other words... I want to cross over at the DB25 on the back of my TNC on VHF, and connect to another TNC on HF, while maintaining the computer COM port connection.

Would there be a way to inhibit VHF to HF posting and only allow HF to VHF postings????

Hmmmm

Al, N3KAE

---

119. Re: [APRSSIG:7267] Re: Nautical Chart INTERFACE!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 20:32:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306203106.10411E-100000@greatlakes>
Rendered body type: text/plain

On Wed, 6 Mar 1996, William Neal wrote:

> At 16:22 3/5/96 -0600, Bob Bruninga wrote on aprssig@tapr.org:
> >I just interfaced APRS to a commercial program called CAPN. It is a full
> >featured navigational program using the new formated CHARTS available.
> ---snip!
>
> Bob,
> where can one get more info on the CAPN system? Would someone doing air
> navigation be interested in it?

WB4APR REPLY COMMENT: Absolutely not. It is nuatical charts only.
I dont have a stitch of glossy info about them yet, but will gather together and post it when I get it...

---

120. Re: [APRSSIG:7269] Is this possible???

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 21:04:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306205457.10591A-100000@greatlakes>
Rendered body type: text/plain

On Wed, 6 Mar 1996, AL Z., N3KAE wrote:

> Wondering about setting up a makeshift GATE here in NE PA. Problem is
> that I do not have a dual port TNC. I do have 2 MFJ 1270's and would
> like link one TNC on HF to my other TNC on 145.79 MHz. Can this be done

WB4APR REPLY COMMENT: The answer is NO.

1) Hooking TNC's back to back could be used to send every packet heard on HF out onto VHF, but the the VHF TNC would be applying its own CALLSIGN

```
header to all pacekts.  Plus the original HF header would be included,
and these combinations of a header within a header would not be parsed by
APRS.  Ergo it wont work

2) YOu can always connect any single RS-232 OUTPUT to any number of
RS-232 inputs (within reason).  If you want to combine TWO or more
OUTPUTS to any INPUTS, you must "DIODE OR" them.  With this, you can
combine all kinds of RS-232 things together.  YOu should see some of the
lashups I use.  Three TNC's driving Two computers, etc..  All useing just
diodes and resistors.  Parallel each "DIODE-OR" with a 10K resistor so
some "pull down" voltage is there...

The only way to do what you want to do is to use a DUAL port TNC with the
GATEway function.  Even writing a special code on a PC with 2 COMM ports
is not practical, because you would have to change "MYCALL" in the VHF
TNC for EVERY PACKET!!!
```

---

121. Re: [APRSSIG:7269] Is this possible???

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 21:10:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306210426.10591B-100000@greatlakes>
Rendered body type: text/plain

```
Actually, as soon as I hit SEND on that last message, I realized you
could write a program that would listen to APRS POSITS on the HF
frequency and that would then turn around and RE-FORMAT The posit into
tha APRS format for an "OBJECT" and send that out the VHF port.  ALl
VHFers would only see the HF posits and they would all be purple because
they would, in effect, all be objects attributed to YOU as the uplinking
station.

Actually, this program could be very simple and only take a few minutes
and a few lines to write.  Simply take all incomming posits, parse out
the SENDING stations callsign, then send it (padded to 9 spaces), then
REPEAT everything in the original POSIT beginning with the COLON.

Remember tho, ONLY POSISTS.  THis is because only the OBJECT format
permits one station to send information for another.  ALl other APRS
formats require the TNC header info to know who SENT it.
```

---

122. EME for everyone

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 21:31:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306211302.10591D-100000@greatlakes>
Rendered body type: text/plain

```
In APRS75, I added a dotted line to the CD.map which shows the NAVAL
SPACE COMMAND RADAR "FENCE".   This fence is a FAN radar beam that is
and has been radiated straight up from three sites in Alabama, TX and
Arizona for 30 years.  The line is STRAIGHT and extends at an azimuth of 91
and  271 degrees through all three sites.  ANY space object that crosses
this  FENCE will generate a doppler PING that can be heard by simply
listening  to the CW carrier frequency of 216.98 MHz.  The larger the
object the  larger the PING.  The MOON crosses this fence every day for
about 1/4 of the month at a time.

   Stations have claimed to hear the EME ping using only a dipole.

To see the fence, hit the "1" key to go to the USA map, then hit
MAPS-ALT.  Notice that the line appears curved, because APRS maps are
MERCATOR projections.  Great circles (Straight lines on the surface of
the earth, are curved on Mercator maps).

To use this data, simply use your favorite satellite tracking program and
set up coordinates for the main radar site in texas.  Whenver a satellite
hits an azimuth of 91.4 or 271.4 degrees, it should generate a PING.  TO
see whwere to point your beam, also display the AZ EL from your site, and
at that instant of crossing the line, you can see the AZ EL From your site.

I had wanted to annouce this earlier, AFTER I had heard the moon, but
after a few "kludged clip-lead" attempts, I havent had the time to go
back and try again.  So I have NOT heard the moon, and suspect that my
220 MHz antenna must be NG...

I doubt that I am going to get to it soon, so I may as well pass it
along and see if anyone else hears anything.
```

I know this is NOT APRS related, but I thought the APRS MAP was a good
way to help experimenters visualize the fence.

By the way. the transmitter is 70 MEGAWATTS in to a 40 dB gain antenna
(or something like that...) ANyway it is BILLIONS of watts ERP...
I feel pretty klutzy not being able to hear it.. it is a pure carrier.

Oh, its BEAMWIDTH is only 0.2 degrees (or so, I dont remember that
either, but it is much less than a degree) so the PINGS are short.
(fractions of a second), but I think the MOON takes about 40 seconds,
maybe...

---

123. APRSgate

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Mar 1996 22:07:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960306215311.10728A-100000@greatlakes>
Rendered body type: text/plain

Well, I actually sat down to write the Two-TNC-COMM-PORT-GATEWAY program,
and then realized that if a PC is gonna sit there doing that job, it may
as well be displaying what it sees, so it may as well be APRS! Then I
realized I could add it to a special version of APRS so easily....

So, if there is a real need for this LIMITED APRS gateway
function, let me know. I can do it pretty easily. Here is what it could do:

COM1 is hooked to an HF TNC. COM2 is a VHF TNC. The APRS program is
ONLY participating on HF. But with OBJgate mode set, every
POSIT heard on HF will be send out on VHF as an OBJECT uplinked by your
station. You would NOT be able to do anything on VHF without swapping
cables. THen you would only GATEWAY to HF (a most undesired mode).

Sure, I could write a progarm to monito both (Like I believe MAC/WIN aprs
can do already), but anything other than what I outline above would take
more effort than I have time available for right now... Tho I would
eventually build up to that.

    The question to the SIG is, is there anyone out there that wants to
operate a PERMANENT HF station who does not already have a dual port TNC
AND who is in an area where there are NO OTHER GATES?

---

124. Re: [APRSSIG:7273] EME for everyone

From: KD4EMI@aol.com
Date: Wed, 6 Mar 1996 22:32:22 -0500
To: aprssig@tapr.org
Message-ID: <960306223219_239543099@emout04.mail.aol.com>
Rendered body type: text/plain

Just a dumb question...Why does the gov send this signal into space..?

Mike   KD4EMI@AOL.COM

---

125. How can I contact Jim Krist KG8GE

From: jaslee@hyowon.cc.pusan.ac.kr (Junseok Lee)
Date: Thu, 7 Mar 1996 15:13:40 +0900
To: aprssig@tapr.org
Message-ID: <9603070613.AA03725@hyowon.cc.pusan.ac.kr >
Rendered body type: text/plain

Hi .
How can I contact Jim Krist KG8GE who make converting programs autocad files to apes map via internet
e-mail
and Is there any public ftp site for his PLT2MAP program?
thanks.

---

126. Re: [APRSSIG:7214] DIGIPEATERS and Torch

From: "Earl Boatman KB0NRK" <eboatman@phoenix.net>
Date: Thu, 7 Mar 1996 00:52:17 +0000
To: aprssig@tapr.org
Message-ID: <199603070652.AAA05843@phoenix.phoenix.net>
Rendered body type: text/plain

```
> Date:          Sun, 3 Mar 1996 21:37:09 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          Bob Bruninga <bruninga@nadn.navy.mil>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:7214] DIGIPEATERS and Torch
```

> I havent received any recent reports of new WIDE digis. Please LOAD or
> REPLAY the files DIGISe.bk or DIGISw.bk and be sure that your area WIDES are
> shown. Also REPLAY the TORCHw.bk, c.bk (e is not finished yet)
>
> If not, send me an extract of your P-LIST with the missing digis. Nothing
> else, no ego-peaters, just good PERMANENT wide area digipeaters. I want the
> DIGISe and DIGISw files to be current for travelers...
>
> This will be important as we get closer to OLYMPICS TORCH time...

> REMINDER: We stil have no official olympic agenda, but if the opportunity
> opens, we want to be ready... hi hi
>
>

Where can I get a copy of the file torchc.bk?.
The ship that i work
on has been asked to carry the torch into Savannah. We are now
looking at the cost and where we will get the money. If we go I will
need a ship icon (three masted barque) Bob. If it is part of the
extension alphabet that will be ok.

You can find out about the ship at
http://www.phoenix.net/~judd/elissa.htm.

____

Earl A. Boatman KB0NRK
eboatman@mail.phoenix.net
1414 winnie
Galveston, TX, 77550
(409) 762-2098

Barque Elissa
Three Masted, 202ft
Pier 21
Galveston, TX.
(409) 763-1877
____

127. Source of Cheap Transmitters

From: mark.endicott@nashville.com
Date: Wed, 6 Mar 96 18:10:45
To: aprssig@tapr.org
Message-ID: <199603070702.BAA06816@tapr.org>
Rendered body type: text/plain

I have run across a very small quantity of Maxon VHF Data Modules that I would like to make available to the APRS users on this SIG. They are the DT-0510 model, TRANSMITTER ONLY VERSION. These are brand new units, however they were bought surplus from Maxon in lew of warranty. Maxon has discontinued this model but they are still making the TX/RX version of the same unit. When these are gone there will be no more. This transmitter is rated 5 watts, and is capable of 9600 baud (not tested). They are supplied configured for 2 watts output and are on a test frequency near 151 Mhz. We have been using them on 145.79 (1200 baud) here as APRS stand-alone trackers here with great success.

Specifications:

Size: 2 3/8w x 4 3/4l x 3/4h (all metal housing)
Power: 10.8VDC @ <1 A @ 5W, <.6 A @ 2W (14 V could toast it)
Inputs: DB9 ,(Power p.5) (Ground p.4) (PTT p.3)
(Audio {data} p.1 @ 250-350 mV adjustable)
Output: BNC Connector, 50 Ohm
FCC: Type Accepted for Commercial Service.

Included with each unit is basic technical information and how to modify them for 5 watts. (one jumper) Tune up on 145.79 has been very straight forward with no problems or component changes required, just install the crystal and tune up. Some of the units tested have not put out the full 5 watts, at 145.79 but all have been at least 4.5 W at 10.8 VDC. Crystals are readily available from most suppliers, specify for Maxon CP-0510.

If you want one, send $40.00 plus $2.75 for UPS to me at the address listed below. If you need more information please e-mail me, direct only, or call (615) 889-4756 M-F 9-4:00.

(800)431-2929 Orders Only, ask for Mark
mark.endicott@nashville.com. WB0NOO

```
 __________________________________________
|                                          |
|              Mark Endicott               |
|             P.O. Box 148242              |
|        Nashville, Tennessee 37214        |
|                 WB0NOO                   |
|        mark.endicott@nashville.com       |
|                                          |
|__________________________________________|
```

---

128. Re: [APRSSIG:7272] Re: Is this possible???

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 07 Mar 1996 01:15:56 -0800
To: aprssig@tapr.org
Message-ID: <313EA94C.2601@hiwaay.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Actually, as soon as I hit SEND on that last message, I realized you
> could write a program that would listen to APRS POSITS on the HF
> frequency and that would then turn around and RE-FORMAT The posit into
> tha APRS format for an "OBJECT" and send that out the VHF port.  ALl
> VHFers would only see the HF posits and they would all be purple because
> they would, in effect, all be objects attributed to YOU as the uplinking
> station.
>
> Actually, this program could be very simple and only take a few minutes
> and a few lines to write.  Simply take all incomming posits, parse out
> the SENDING stations callsign, then send it (padded to 9 spaces), then
> REPEAT everything in the original POSIT beginning with the COLON.
>
> Remember tho, ONLY POSISTS.  THis is because only the OBJECT format
> permits one station to send information for another.  ALl other APRS
> formats require the TNC header info to know who SENT it.

Wow that's just great Bob, now everyone will be beaconing ALL HF
positions onto VHF.
```

---

129. Re: [APRSSIG:7269] Is this possible???

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 7 Mar 1996 06:31:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960307063059.25755D-100000@paccomm>
Rendered body type: text/plain

```
On Wed, 6 Mar 1996, AL Z., N3KAE wrote:

> Howdy folks...
>
> May sound stupid, but in the honor of experimentation, I run this by you
> before I try it.
>
> Wondering about setting up a makeshift GATE here in NE PA.  Problem is
> that I do not have a dual port TNC.  I do have 2 MFJ 1270's and would
> like link one TNC on HF to my other TNC on 145.79 MHz.  Can this be done
> without frying a vital organ at my QTH???
>
> My biggest concern is voltage back to the computer through the DB25.  I
> would like to cross the TNC's as would be done in a backbone
> configuration of a NODE stack, but maintain the computer connection to my
> COM 1.  I've run this by a few people and answers range from impossible,
> to only via TCP/IP, to only by using two COM ports on the computer.
>
> In other words... I want to cross over at the DB25 on the back of my TNC
> on VHF, and connect to another TNC on HF, while maintaining the computer
> COM port connection.
>
> Would there be a way to inhibit VHF to HF posting and only allow HF to
> VHF postings????
>
> Hmmmm
>
> Al, N3KAE
>
>
```

Sounds like what one does with a diode matrix on network TNC stacks.

Gwyn

---

130. Mobile station - VHF

From: deang@MAIL.SYNTRON.COM
Date: Thu, 07 Mar 96 06:05:07 CST
To: aprssig@tapr.org
Message-ID: <9602078262.AA826207507@MAIL.SYNTRON.COM>
Rendered body type: text/plain

```
*** Look for KK5SC-9 this week ***

     I stuck my GPS tracker in Mike's truck for a trip from Houston, Tx to
     Georgia.  He will be on 145.79MHz beaconing approx every 10min.

     Hardware config : Motorola PVT-6 GPS
                       Kantronics KPC-3
                       RatShack 30w 2m Amp
                       Kenwood TH-79A HT
        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
```

---

131. Re: [APRSSIG:7266] Re: Frequency Coordination

From: ku0g@sprynet.com
Date: Thu, 7 Mar 1996 06:11:18 -0800
To: aprssig@tapr.org
Message-ID: <199603071411.GAA08394@sprynet.com>
Rendered body type: text/plain

Just a personal note on the Freq. Coordination issue....The Kansas people's big objection to giving coordination was the close proximity to the satellite downlink band at 145.80 to 145.99. In the long run they approved the coordination BUT warned that those using 145.79 should be aware of the potential intereference to/from the satellite service.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

132. Re: [APRSSIG:7269] Is this possible???

From: ku0g@sprynet.com
Date: Thu, 7 Mar 1996 06:17:41 -0800
To: aprssig@tapr.org
Message-ID: <199603071417.GAA08978@sprynet.com>
Rendered body type: text/plain

On Wed, 6 Mar 1996, "AL Z., N3KAE" <ldajz@epix.net> wrote:
>Howdy folks...
>
>May sound stupid, but in the honor of experimentation, I run this by you
>before I try it.

REMEMBER: There are no stupid questions, only stupid answers!

>
>Wondering about setting up a makeshift GATE here in NE PA. Problem is
>that I do not have a dual port TNC. I do have 2 MFJ 1270's and would
>like link one TNC on HF to my other TNC on 145.79 MHz. Can this be done
>without frying a vital organ at my QTH???
>
>My biggest concern is voltage back to the computer through the DB25. I
>would like to cross the TNC's as would be done in a backbone
>configuration of a NODE stack, but maintain the computer connection to my
>COM 1. I've run this by a few people and answers range from impossible,
>to only via TCP/IP, to only by using two COM ports on the computer.

The answer is to use BPQ node software and build the serial port multiplexer cable. Instruction for doing that are included in BPQ distribution (the last time I looked at using BPW). This would use only one com port.

>

>In other words... I want to cross over at the DB25 on the back of my TNC
>on VHF, and connect to another TNC on HF, while maintaining the computer
>COM port connection.
>
>Would there be a way to inhibit VHF to HF posting and only allow HF to
>VHF postings????

Yes. Simply name the alias of the HF-to-VHF TNC as GATE and give the other TNC a different name i.e. PAGATE. Your local VHFers would then have to specify the actual HF gate name rather than use the generic GATE. If all you're really wanting is to get the HF info gated to your VHF net, why even have the second TNC?

>Hmmmm
>
>Al, N3KAE
>

Good luck, Al. We're looking forward to seeing NE PA on HF!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

133. Re: [APRSSIG:7275] Re: EME for everyone

From: ku0g@sprynet.com
Date: Thu, 7 Mar 1996 06:24:54 -0800
To: aprssig@tapr.org
Message-ID: <199603071424.GAA09492@sprynet.com>
Rendered body type: text/plain

On Wed, 6 Mar 1996, KD4EMI@aol.com wrote:
>Just a dumb question...Why does the gov send this signal into space..?
>
>Mike KD4EMI@AOL.COM

Well, shoot man, the answer is obvious: To give a guide-in beacon to the COWS IN SPACE!!!

<LOUD GUFFAW>

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Ain't I a stinker?!?!" -- B. Bunny, 1947.

---

134. Re: [APRSSIG:7276] How can I contact Jim Krist KG8GE

From: Truman Boerkoel <truxenia@erinet.com>
Date: Thu, 07 Mar 1996 09:51:53 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.32.19960307145153.0069c084@erinet.com>
Rendered body type: text/plain

At 00:25 3/7/96 -0600, you wrote:
>Hi .
>How can I contact Jim Krist KG8GE who make converting programs autocad
files to apes map via internet e-mail
>and Is there any public ftp site for his PLT2MAP program?
>thanks.
>
>

You can e-mail Jim at jimk@on-ramp.net
Vry 73 de Tru K8JUG

---

135. Re: [APRSSIG:7275] Re: EME for everyone

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Mar 1996 10:08:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960307100514.15763B@greatlakes>
Rendered body type: text/plain

On Wed, 6 Mar 1996 KD4EMI@aol.com wrote:

> Just a dumb question...Why does the gov send this signal into space..?

WB4APR REPLY COMMENT: It is one of the PRMARY means that NORAD uses for generating the KEPS for the 7000 objects hurteling through space around this planet. The precise time of the PING tells you when the object crossed the fence, the doppler tells you at what angle and speed, using a phased array receive antenna tells you WHERE it crossed the fence,and with that info you can UPDATE the keps.

---

136. Re: [APRSSIG:7277] Re: DIGIPEATERS and Torch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Mar 1996 10:32:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960307102645.15763E-100000@greatlakes>
Rendered body type: text/plain

On Thu, 7 Mar 1996, Earl Boatman KB0NRK wrote:

> Where can I get a copy of the file torchc.bk?.
> The ship that i work on has been asked to carry the torch into
> Savannah. If we go I will need a ship icon (three masted barque)

WB4APR REPLY COMMENT: Consider it done! Tell me more. How far do you carry the torch? Across the ocean? WHere do you carry it FROM? To Savannah GA? Or is this just a cermenoial go out at dark and come back in with the lights on?

The TORCHw.BK and TORCHc.bk files should be on the tapr site. Still working on the TORCHe. If not, tell me...

---

137. Re: [APRSSIG:7281] Mobile station - VHF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Mar 1996 10:55:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960307103933.15763G-100000@greatlakes>
Rendered body type: text/plain

On Thu, 7 Mar 1996 deang@MAIL.SYNTRON.COM wrote:

> I stuck my GPS tracker in Mike's truck for a trip from Houston, Tx to
> Georgia. He will be on 145.79MHz beaconing approx every 10min.

WB4APR REPLY COMMENT: Dont be so shy. ALthough that is very considerate of those people in the town where he arrives and leaves it on all night, at 60 MPH, he covers 10 miles in 10 minutes. In our flat area of the world, you could go right past a digipeater and with one collision, never be seen... hihi. Personally, I would probably set to about 5 minutes as a minimum. Just a thought...

---

138. Boston area APRS meeting

From: Tom Kinahan <kinahan@mail1.bytex.network.com>
Date: Thu, 7 Mar 1996 11:50:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960307114936.25261G-100000@ws007-fddi>
Rendered body type: text/plain

For those of you in the Boston area or near it, I'm planning an APRS gathering on this Sunday March 10 at noon to discuss upcoming plans to implement APRS at the Boston Marathon, and other APRS network issues.

Join us at the Red Cross chapter house at 21 Foster Street, Newtonville, Ma. This is close to exit 17 on the Mass Pike.

For more information drop me an email. Talk in will be available on 145.23 Boston Repeater.

```
Tom Kinahan                       Phone: 508-366-0040 x360
Bytex / Network Systems Corp.     Fax: 508-366-0244
4 Technology Drive                Email: kinahan@bytex.network.com
Westborough, Ma. 01581            Amateur Radio: N1CPE
```

---

139. Re: [APRSSIG:7150] Re: I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Fri, 01 Mar 96 12:56:02
To: aprssig@tapr.org
Message-ID: <199603011322.NAA95029@smtp-gw01.ny.us.ibm.net>

Rendered body type: text/plain

In <Pine.LNX.3.91.960229191747.15996A-100000@draco.bison.mb.ca>, on 02/29/96 at 11:00 PM,
   Michael Markmann <ve4mjm@draco.bison.mb.ca> said:

>In regards to everybody's comments, pleas, etc. about more COM ports
>needed in APRS:

>I don't think you all realise that the problem with only being able to
>use COM1 and COM2 (and I think 3 and 4) is due to limitations in QUICK
>BASIC that it only supports COMs 1 and 2 without having to write machine
>language code and intergrate (sp?) it into the Basic program. At least
>that's what I see as being the main problem after a quick scan of Basic's
> online help.

>If that's not the case, I'd love to be wrong!

>Michael Markmann VE4MJM |
 ...

I think you are probably right...but (I am not being rude)..so what? If
it requires hooks from Qbasic to assembly or C, then it can be done and
should be done. If an author can't do it because of programming
expertise, then they should seek help. If the program is popular, there
are plenty of hams who have the programming expertise to aid in the
transition. I know w/r to APRS, at least one ham who offerred to help Bob
accomplish this very task. That is one solution...assembler or C hooks
that I am certain are part of Qbasic's capability.

I am willing to bet that a general plea from a software author to help
implement two things would generate the required help:

1. Support for the 16550 uart
2. Support for user defined address and interrupt com ports.

It sure worked for me....I was using a very popular logging/rig control
program, but it only supported the generic com ports. I had another
program that supported the arbitrary definition of com ports. Both are
written by hams. I talked with both authors about each other's programs.
They talked to each other. Guess what: problem solved.

I return to my initial point: it can be done, it should be done but until
the USERS make the authors understand that this is not a frill, but a
necessity, it ain't gonna happen. W/R to APRS, there is a choice for
those in the laptop environment: use a different program without those
limitations, which is what I have done. WinAPRS will support any of 8
com ports, user defined.

I am not making the point for personal gain...my problems were all solved
when WinAPRS beta came out, but that does not change the larger need for
authors of popular programs to move forward with their programming
practices. Let's not forget who the customer is. If they need to charge
more for the feature...do so.

hasan schiers, N0AN
----
schiers@ibm.net

```
----------------------------------------------------------
```

140. Bandpass filters

```
From: John Munsey <munseyj@n-jcenter.com>
Date: Thu, 07 Mar 96 14:11:46 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <9603071909.AA00535@nj2.n-jcenter.com>
Rendered body type: text/plain
```

```
-- [ From: John Munsey * EMC.Ver #2.5.02 ] --

Help!  Several weeks ago there was considerable traffic about 2 meter
bandpass filters that sold for about $90.00  I would like to purchace a
couple but have lost the address.

Does anyone still have the address and am I correct that they worked well?

Thanks,  John Munsey

munseyj@n-jcenter.com
```

141. Re: [APRSSIG:7288] Re: Mobile station - VHF

```
From: deang@MAIL.SYNTRON.COM
Date: Thu, 07 Mar 96 12:50:29 CST
To: aprssig@tapr.org
Message-ID: <9602078262.AA826231829@MAIL.SYNTRON.COM>
Rendered body type: text/plain
```

```
On Thu, 7 Mar 1996 deang@MAIL.SYNTRON.COM wrote:

>      I stuck my GPS tracker in Mike's truck for a trip from Houston, Tx to
>      Georgia.  He will be on 145.79MHz beaconing approx every 10min.

>WB4APR REPLY COMMENT:  Dont be so shy.  ALthough that is very
>considerate of those people in the town where he arrives and leaves it
>on all night, at 60 MPH, he covers 10 miles in 10 minutes.  In our flat
>area of the world, you could go right past a digipeater and with one
>collision, never be seen... hihi.  Personally, I would probably set to
>about 5 minutes as a minimum.   Just a thought...

     Actually KK5SC-9 will be sending RMC data every 10 minutes via
     WIDE,GATE,GATE,WIDE and GGA data every 5 minutes via WIDE,WIDE.

     Being aware of the past traffic on the SIG concerning abuse of HF
     bandwidth, I thought I would keep it to a minimum.  (I hope I didn't
     re-open that thread!)

        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
```

142. Re: [APRSSIG:7179] Re: SIGPLOT

```
From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Mar 1996 13:37:13 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603071937.NAA07366@solar.cs.tamu.edu>
Rendered body type: text/plain
```

```
David E. Barrett sez:
>
> Anyone have an address for a supplier of the OnCore?

CA Richards & Assoc, Houston Texas
713.531.7417

Talk to Chuck or Charlie...

gerry
```

143. Re: [APRSSIG:7196] GPS Receiver

```
From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Mar 1996 13:45:34 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603071945.NAA07531@solar.cs.tamu.edu>
Rendered body type: text/plain
```

```
wtb@partyline.org sez:
>
> How and where does one obtain a Motorola PVT-6 Oncore GPS receiver with
> option A (timing) installed?  My Motorola contacts dont know what I'm
> talking about..
>    Bill  N0LIK  wtb@partyline.org
I'll make the assumption that you've been talking to the C&E folks, rather
than the Position and Navigation Business folks.  Call 800.421.2477 and ask
for the propaganda package and a list of reps.  They can help you.  That, by
the way is the Mother M main number for GPS data.

73 gerry
```

---

144. Olympic Torch Arrival

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 07 Mar 1996 19:56:21 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)
Message-ID: <02197313F3F65010*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

```
On 3-7-96 Earl A. Boatman (KB0NRK) wrote:

     >The ship that I work on has been asked to carry the torch into
     Savannah.
     ----------------

     Hello Earl,

     Just a note to you about your message on the SIG. The Web Page on
     Elissa is great. I really enjoyed the visit!

     I live in Savannah and have been very active helping with the Olympic
     regattas which have been held as warm-ups for the Olympics. We are
     really looking forward to this summer!

     We have even been experimenting with APRS on the race courses some
     with some interesting results.

     I hope you guys do get to bring the Torch to Savannah, I can't think
     of a better way for it to arrive here. They're really fixing up the
     river front where you would come ashore. The Olympic village hotel is
     right there on the water front.

     If I can help you out with anything on this end let me know!

     Good Luck,
     Card Smith, N4FOR
```

---

145. Re: [APRSSIG:7233] Frequency Coordination

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Mar 1996 14:21:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603072021.OAA08521@solar.cs.tamu.edu>
Rendered body type: text/plain

```
dwetzel@uswest.com sez:
>
> Apparently our frequency coordinator here in Utah isn't going to make a move
> until he hears the ARRL "blessing" on 145.79.
>
> Is there anyone out there who knows the ARRL position (Bob?) on 145.79 as a
> recommended frequency for APRS?  We've been fooling around with this
> coordination for six months, and are starting to get too many users to wait much
> longer for a move to a permanent home.

For what it's worth, there is and CANNOT BE an ARRL position on frequency
coordination.  That's what the various coordination bodies are all about.

Go back to your ARRL Repeater Directory, and check out the statement that says
to the effect, that the ARRL "bandplan" is superceded by local conventiona nd
coordination.

For what it's worth, the ARRL generated their "bandplan" attempting to fill a
perceived vacuum.  What they found and are leif to admit is there was no
vacuum but their statement of a plan has caused significant grief to the
coordiantors who have, for years, been actively involved in spectrum
management and bandplanning as well as repeater coordination.

If your coordinator has some issue with 145.79, especially since I suspect
```

it's not within the recognized packet segment for your area, ask him for
specifics. If he's looking to the ARRL for guidance, send him my way and I
will see if I can find out what his position is.

Regards, Gerry N5JXS
gerry@cs.tamu.edu
n5jxs@tamu.edu

---

146. Bosnia maps !!

From: Paul Gilmore <pgilmore@beachnet.org>
Date: Thu, 07 Mar 1996 15:34:07 -0500
To: aprssig@tapr.org
Message-ID: <313F483F.7D01@beachnet.org>
Rendered body type: text/plain

Hi All:

Does anybody out there know were I can get the Bosnia maps that are listed
in the "maplist.eur". There quite a few, and they would good to have to
follow our(canadian) and yours(usa) troops from the newspapers and CNN.
Thanks, Yours...
--

Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
EMAIL pgilmore@beachnet.org

---

147. Re: [APRSSIG:7247] converting map?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 7 Mar 1996 14:36:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603072036.OAA09068@solar.cs.tamu.edu>
Rendered body type: text/plain

Junseok Lee sez:
>
> How can I convert map file (autocad .dwg files to APRS map file)?
> and microstaion file format(.dgn) is OK.
> please let me know How can I do it?
If you can figure out how to get .dgn to APRS, let me know! That's something
I've got a real use for!

73, gerry

---

148. Re: [APRSSIG:7215] Re: X1J-4 APRS usage

From: N4QEA <moyers@ibm.net>
Date: Mon, 4 Mar 1996 23:30:23 EST
To: aprssig@tapr.org
Message-ID: <199603050423.EAA101213@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

** Reply to note from Scott Miller <scottm@sierra.net> 96/95/03 94:78am -9399
> Am I correct in reading your x-j85 is a wide/relay?
> and if so could you tell me how you did it?
> I've had many replys when I asked how to make my x-j85
> a wide/relay but I sill haven't been able to do it.
> Also I belive you can change your btext remotly.
> thanks Scott KE3RKE
>
Ypu are correct. TheNet X8J has several extra alias's that it can use. (BBS,
DX-CLUSTER, AND HOST)
another for RELAY you come up with a WIDE-RELAY. NEVER USE WIDE OR RELAY AS
THE NODES ALIAS. In the node here I have it's alias set to SEV, bbs to WIDE,
DXcluster to RELAY, and Host to TN. The TN is a state designator that a few
of us are using that allows us to add the state abbreviation to the end of a
unproto strings for maximum hops with minimum QRM.
EXAMPLE; callsign (of first digi), wide, TN. From my QTH in Knoxville, TN
hit a node on a mountain top that can be heard by 3 digi's in 6 or 5 states.
With the above string the callsign(s) gets me to the high level digi and the
Wide hits digi's in N.C., Atlanta Georgia, Alabama, and a node just north east
of Nashville. The TN on the end hits one last digi in Downtown Nashville.

26

John Moyers
ARS; N5QEA
Packet; N5QEA @ N5QEA.#METN.TN.USA.NA
Inet; moyers@ibm.net

```
Cruise Missle; 63,97.10N/16,56.64W
```

---

149. CIBA Home Page

```
From: melliott@ocslink.com
Date: Thu, 7 Mar 1996 16:00:16 -0600
To: aprssig@tapr.org
Message-ID: <199603072200.QAA28643@ocslink.com>
Rendered body type: text/plain
```

```
The Central Illinois Balloon Association (CIBA) would like
to announce the opening of its homepage.  Please stop by
and take a look around.  The address is as follows:

        http://www.ocslink.com/~melliott

Mark Elliott de N9WST

73
```

---

150. Re: [APRSSIG:7291] Bandpass filters

```
From: Dave Kaplan <dkaplan@pionet.net>
Date: Thu, 7 Mar 1996 16:52:36 -0600
To: aprssig@tapr.org
Message-ID: <9603072252.AA14084@ELWOOD.pionet.net>
Rendered body type: text/plain
```

```
At 01:29 PM 3/7/96 -0600, you wrote:
>-- [ From: John Munsey * EMC.Ver #2.5.02 ] --
>
>Help!  Several weeks ago there was considerable traffic about 2 meter
>bandpass filters that sold for about $90.00  I would like to purchace a
>couple but have lost the address.
>
>Does anyone still have the address and am I correct that they worked well?

John,
That was the DCI Two Meter Bandpass Filter.  I see it for sale from AES
(800)558-0411 part number DCI-146-4H for $89.00

73, Dave
```

---

151. Re: [APRSSIG:7297] Bosnia maps !!

```
From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 7 Mar 1996 18:18:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960307181648.27686B-100000@paccomm>
Rendered body type: text/plain
```

```
On Thu, 7 Mar 1996, Paul Gilmore wrote:

> Hi All:
>
> Does anybody out there know were I can get the Bosnia maps that are listed
> in the "maplist.eur". There quite a few, and they would good to have to
> follow our(canadian) and yours(usa) troops from the newspapers and CNN.
> Thanks, Yours...
> --
>
>  Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
>  AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
>  EMAIL  pgilmore@beachnet.org
> >

Paul,

Bob B. (APR) can provide those maps. They were created for use in a
military project PacComm is doing for the US military. There is nothing
confidential about them. It is up to Bob, but I see no problem releasing
them.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems, Inc.
```

---

152. Re: [APRSSIG:7301] Re: Bandpass filters

```
From: eab@VOA.GOV (Al Brown)
Date: Thu, 7 Mar 1996 18:35:44 -0500
To: aprssig@tapr.org
Message-ID: <199603072335.SAA20602@voa3.VOA.GOV>
```

Rendered body type: text/plain

I have the DCI model DCI-146-4H and love it. It made a world
of difference. I paid $89.00 from Maryland Radio Center.
The phone number is 1-800-447-7489.

73 John and good luck.

de Al WA3FYZ

---

153. Re: [APRSSIG:7292] Re: Mobile station - VHF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Mar 1996 18:41:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960307183835.23490B-100000@greatlakes>
Rendered body type: text/plain

```
> On Thu, 7 Mar 1996 deang@MAIL.SYNTRON.COM wrote:
>
> >      I stuck my GPS tracker in Mike's truck for a trip from Houston, Tx to
> >      Georgia.  He will be on 145.79MHz beaconing approx every 10min.
>
> APR REPied:  Dont be so shy.  ..... go for 5 miutes
>
> deang REPLIED:  Actually KK5SC-9 will be sending RMC data every 10
>      minutes via  WIDE,GATE,GATE,WIDE and GGA data every 5 minutes via
>      WIDE,WIDE.
```

WB4APR REPLY COMMENT: Correctamundo... Just what I wouldda done..

---

154. join

From: Paul - Have a nice day <PAUL8@delphi.com>
Date: Thu, 07 Mar 1996 19:02:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I22G9VS6LQ9AN5CC@delphi.com>
Rendered body type: text/plain

can you please give me the address of aprs and the fee so I can join. Thanks
much.

Paul - N1LRT; Delphi BBS Sig Forum Manager
Have a nice day, afternoon, night

`[1;37;44mRainbow V 1.19.4 for Delphi - Registered

---

155. Re: [APRSSIG:7269] Is this possible???

From: KG5QD@aol.com
Date: Thu, 7 Mar 1996 19:05:59 -0500
To: aprssig@tapr.org
Message-ID: <960307190557_344350274@mail06.mail.aol.com>
Rendered body type: text/plain

```
I am running BPQ as a HF to VHF crossport on APRS using a DRSI card and here
are some BPQ quirks-
        On HF there is no digi of heard packets- only output is on vhf
        HF portalias is FLGATE- Node Alias is GATE HF port will digi anything
address to
              either to vhf
         VHF portalias is WIDE- heard packets sent to WIDE digied on VHF only
```

There are two HF aliases so that when I QSY after 30M dies to 80M I don.t
have to reconfigure BPQ.I also modified the IMB terminal program that came
with the BPQ package to output the heard packets to a serial port feeding
another computer so I can monitor and plot the things heard using ARPS. The
command mode stuff goes to the bit bucket and ARPS seems happy with the
Data.(Thinks its connected to a TNC2) One problem is that I dont have control
over which port the APRS local packets go out of since I am using the BPQ
broadcast function. If you don't set an unproto path on the HF port it would
go only out the VHF port. By the way the BPQ software appears to be bullet
proof-

(A note to Bob - Wb4apr- a software hook to the host mode of BPQ in your
software would allow up to 16 ports using BPQ- how about a HF to VHF to
Salellite to 9600 baud backbone crossport digi?)
73 de Dale KG5QD

---

156. Re: [APRSSIG:7291] Bandpass filters

From: jleonard@tbcnet.com (John B. Leonard)
Date: Thu, 7 Mar 1996 18:15:31 -0600
To: aprssig@tapr.org
Message-ID: <199603080015.SAA06213@tbc2.tbcnet.com>
Rendered body type: text/plain

Model DCI 146 4H

Digital Communications, Inc
PO Box 293, 29 Hummingbird Way
White City, SK, Canada
S0G 5B0

306-781-4451

-3dB (half power) points: Low 143.49, High 148.44
Insertion Loss: Negligible
Ripple: less than 0.3dB over passband

Cost $89 from AES

>-- [From: John Munsey * EMC.Ver #2.5.02] --
>
>Help! Several weeks ago there was considerable traffic about 2 meter
>bandpass filters that sold for about $90.00 I would like to purchace a
>couple but have lost the address.
>
>Does anyone still have the address and am I correct that they worked well?
>
>Thanks, John Munsey
>
>munseyj@n-jcenter.com
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
KARC Hamfest Web Page at
http://tbcnet.com/~jleonard/hamfest.htm

---

157. Re: [APRSSIG:7290] Re: I need more COM Ports!

From: schiers@ibm.net (Robert Schiers)
Date: Fri, 08 Mar 96 01:35:32
To: aprssig@tapr.org
Message-ID: <199603080200.CAA112062@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <199603011322.NAA95029@smtp-gw01.ny.us.ibm.net>, on 03/07/96 at 12:50 PM,
schiers@ibm.net (Robert Schiers) said:

I did not mail the most recent info about com ports.

I have no idea why it was sent out. The thread is very
dead, please, no one reply.

Thanks, 73

hasan schiers, N0AN

----

schiers@ibm.net

---

158. AEA TNC help needed!

From: Tom Weeden <tcweeden@execpc.com>
Date: Thu, 07 Mar 96 20:03:37 -0500
To: aprssig@tapr.org
Message-ID: <199603080206.UAA04288@mail.execpc.com>
Rendered body type: text/plain

I'm working with our county's emergency management agency to put APRS in their radio room. Today I loaded it on an existing 386 which is already connected to an AEA DSP-2232 TNC.

The TNC runs fine under PROCOMM with 7-E-1 settings, but when I run APRS, it looks as if the software defaults to 8-N-1 and I get some garbled characters. Is there any way to tell APRS to work with EVEN parity? Or tell the TNC to go to 8-bit words? (The AEA manual said 7-E-1 ONLY, as far as I could tell.)

AEA users, please help!

Thanks

--Tom Weeden, WJ9H
  South-Central Wisconsin SKYWARN Net Manager
  !4301.38N/08929.95W
  Madison, WI

---

159. Re: [APRSSIG:7077] Re: KPC-3 GPS Commands

From: KE6VRL@aol.com
Date: Thu, 7 Mar 1996 22:01:14 -0500
To: aprssig@tapr.org
Message-ID: <960307220110_240434076@emout09.mail.aol.com>
Rendered body type: text/plain

>I take it that to get out of GPS mode on the TNC
>(to return to APRS, for instance), it's just INTFACE TERM, and then also
turn
>the beacon off.

MIke in order to exit gps mode, just issue three (Ctrl-C)'s about 1 second
apart. Hope it all works out for you.

If you have access to another tnc and radio, you can use the MYREMOTE command
to set a callsign to use to change parameters without having to disconnect
everything.

Good Luck, Hector KE6VRL

---

160. Re: [APRSSIG:7309] AEA TNC help needed!

From: ku0g@sprynet.com
Date: Thu, 7 Mar 1996 19:23:10 -0800
To: aprssig@tapr.org
Message-ID: <199603080323.TAA11554@sprynet.com>
Rendered body type: text/plain

There SHOULD be a command to set Parity and 8Bit words. Look for PARITY and
8BITCONV (not exactly sure on 2nd one).
Just change the TNC settings, then modify your Procomm to match and you should
be in business....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

161. Re: [APRSSIG:7306] Re: Is this possible???

From: ku0g@sprynet.com
Date: Thu, 7 Mar 1996 19:27:02 -0800
To: aprssig@tapr.org
Message-ID: <199603080327.TAA12011@sprynet.com>
Rendered body type: text/plain

On Thu, 7 Mar 1996, KG5QD@aol.com wrote:
<snip>
>(A note to Bob - Wb4apr- a software hook to the host mode of BPQ in your
>software would allow up to 16 ports using BPQ- how about a HF to VHF to
>Salellite to 9600 baud backbone crossport digi?)
>73 de Dale KG5QD
>
>
HEY! (notice I'm shouting here...) Now THAT'S one of the best ideas I've seen in
a LOOOOOOOOOOOOOooooooooooonnnnnnnnnnnnggggggggggggggg time!

Good for you, Dale!!! Bob: GO FOR IT!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

162. Re: How can I contact Jim Krist KG8GE

From: jimk@on-ramp.net
Date: Thu, 7 Mar 1996 23:05:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199603080405.XAA19968@mail.ee.net>
Rendered body type: text/plain

```
On Thu, 6 Mar 1996, rwf@mindspring.com wrote:

>>> How can I convert map file (autocad .dwg files to APRS map file)?
>>> and microstaion file format(.dgn) is OK.
>>> please let me know How can I do it?
>>> thanks.
>
>If you can plot your dwg file to a disk, then you can use the following
>method. KG8GE wrote a program called PLT2MAP (I think) that converts an
>Autocad PLT file to an APRS map. It is available for him for a small fee.
>It is mentioned in the Mapmaking Readme files that come with APRS.
>
>KG8GE reads the SIG, and will probably respond as well. I just can't
>remember his Email address.

On Thu, 7 Mar 1996, truxenia@erinet.com wrote:

>>Hi .
>>How can I contact Jim Krist KG8GE who make converting programs autocad
>>files to apes map via internet e-mail
>>and Is there any public ftp site for his PLT2MAP program?
>>thanks.
>
>You can e-mail Jim at jimk@on-ramp.net
>Vry 73 de Tru K8JUG

Yes, that's correct Ralph... Thanks to you & Truman. You guys responded before I
got a chance to. Any else who is interested in creating APRS maps from AutoCad
data can contact me directly via E-Mail at jimk@on-ramp.net.

To the fellow who was asking... Please send me a personal E-Mail at the address
shown above. I'll be out of town for the next couple of weeks, but should be
able to get back with you shortly. You might include what version of AutoCad you
are using, and whether or not your version is an international or domestic
version of AutoCad.

I'll be spending the next few weeks in Grand Rapids, Michigan. Of course the
laptop, GPS, and APRS will be along for the ride too. Anybody doing any APRS'ing
up there?

------------------------------------------------------------------------------
|  73, de Jim (KG8GE) |  jimk@on-ramp.net        |   Coming soon, DXF2MAP!   |
|  Home of PLT2MAP.   |  KG8GE@WN7C.NCOH.OH.USA  |                           |
------------------------------------------------------------------------------
```

---

163. HF <-> VHF

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 07 Mar 1996 23:36:27 -0800
To: aprssig@tapr.org
Message-ID: <313FE37B.1F15@hiwaay.net>
Rendered body type: text/plain

I just don't understand all this hoopla about beaconing to VHF from HF
what does it do for either, maybe someone should fill me in. What good
is it to the average VHF user anyway?. What if ALL the VHF users decided
they wanted to do the same thing?. Well i should explain that i have been
doing that anyway!. But i still don't understand WHY what good does it do
other then what it was designed to do. I could understand if it was of
some good to the community in case of heavy weather or disasters, but i
never see it used for anything like that. I fail to see what it does for
the average APRS VHF user. All i see is some HF station showing on the
map that i'm told i cannot (Or should not try to contact). I know i'm
going to get some flames from this again but so be it Hi. I would like to
see APRS progressing for the good of the TOTAL community and not just for
those that fell their ego's hurt when they cannot have their station seen
all over the US. Please someone explain the benefits to me so i can
understand all this talk about HF to VHF gates. Maybe i should start
talking more about VHF to HF beaconing to keep up with all this talk
about gates. I have been laying back reading all this but had to get into
the thick of it again folks.

Bill KE4EER

164. Re: [APRSSIG:7287] Re: DIGIPEATERS and Torch

From: "Earl Boatman KB0NRK" <eboatman@phoenix.net>
Date: Fri, 8 Mar 1996 00:05:11 +0000
To: aprssig@tapr.org
Message-ID: <199603080608.AAA08335@mail.phoenix.net>
Rendered body type: text/plain

```
> Date:          Thu, 7 Mar 1996 09:47:38 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          Bob Bruninga <bruninga@nadn.navy.mil>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:7287] Re: DIGIPEATERS and Torch

> On Thu, 7 Mar 1996, Earl Boatman KB0NRK wrote:
>
> > Where can I get a copy of the file torchc.bk?.
> > The ship that i work  on has been asked to carry the torch into
> > Savannah.    If we go I will  need a ship icon (three masted barque)
>
> WB4APR REPLY COMMENT:  Consider it done!  Tell me more.  How far do you
> carry the torch?  Across the ocean?  WHere do you carry it FROM?
> To Savannah GA?  Or is this just a cermenoial go out at dark and come
> back in with the lights on?
>
> The TORCHw.BK and TORCHc.bk files should be on the tapr site.  Still
> working on the TORCHe.  If not, tell me...
>
>
Bob I can't find torchc.bk at TAPR can you email it to me?.
If you look at the torch pict you can see where it (the trail) leaves
the coast at St Pete's FL. I understand that a USCG cutter will pick
up the torch and tranfere it somewhere off of Savannah and we will
take it in to port.  ( I Hope) ; ^ ).

I have some APRS questions?.  We will be no more than 100nm off the
coast at any time, will 10m or 6m do for tracking the ship from the
land?.  And tracking the torch from the ship?.  As I thank it will be to
far for VHF (in July ).  Or will I need to up my code speed : ^ ).

BTW the Elissa was in Savannah in 1894.  Yes that's 102 years ago.



_______________________________________________________
Earl A. Boatman KB0NRK               Barque Elissa
eboatman@mail.phoenix.net            Three Masted, 202ft
1414 winnie                          Pier 21
Galveston, TX, 77550                 Galveston, TX.
(409) 762-2098                       (409) 763-1877
_______________________________________________________
```

---

165. Re: [APRSSIG:7281] Mobile station - VHF

From: Martin Smith <msmith4@bayou.uh.edu>
Date: Thu, 07 Mar 1996 22:42:45 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <01I22NXSZLHE000AFG@Post-Office.UH.EDU>
Rendered body type: text/plain

```
At 06:18 AM 3/7/96 -0600, you wrote:
>
>     *** Look for KK5SC-9 this week ***
>
>     I stuck my GPS tracker in Mike's truck for a trip from Houston, Tx to
>     Georgia.  He will be on 145.79MHz beaconing approx every 10min.
>
>     Hardware config : Motorola PVT-6 GPS
>                       Kantronics KPC-3
>                       RatShack 30w 2m Amp
>                       Kenwood TH-79A HT
>        \\//
>        (..)
>    -ooO-(_)-Ooo------------------------------------------------------
>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>    ------------------------------------------------------------------
>
>
Hey George! Sounds Good!  Just wondering what kind of truck it is.  Is it an
18-Wheeler or something else, like a pickup?       Marty  WD5DZC
```

166. Re: [APRSSIG:7314] HF <-> VHF

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Fri, 08 Mar 1996 08:47:59 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960308134759.1ef78d5c@sun.lssu.edu>
Rendered body type: text/plain

```
At 11:42 PM 3/7/96 -0600, you wrote:
>I just don't understand all this hoopla about beaconing to VHF from HF
>what does it do for either, maybe someone should fill me in. What good
>

    I found sufficient sense in Bill's reasoning to discontinue beaconing to vhf
for almost a year? As the traffic increases with the spread of APRS, the
operating
habits established today as acceptable, are likely to become the defacto
standards of tomorrow. The attendant grief may be more serious than the
flames concerning this subject. (Check out 75m at night,if you want an
introduction to ego related grief.)

                                            Pete, wa4hei
```

---

167. Re: [APRSSIG:7279] Re: Is this possible???

From: WB4LTF@aol.com
Date: Fri, 8 Mar 1996 09:06:35 -0500
To: aprssig@tapr.org
Message-ID: <960308090635_344899470@emout07.mail.aol.com>
Rendered body type: text/plain

```
>Wow that's just great Bob, now everyone will be beaconing ALL HF
positions onto VHF.

Why is it that this response didn't surprise me????
 I think it's great also. I LIKE to see the HF'es and have 3 different gates,
within hearing distance,to chose from,but what the heck,the more the
merrier!!!.
I can not see what the BIG DEAL is. There are all sorts of keys on my
keyboard that will dictate what I see on my map.  If I want to see my local
area, that is all I have to look at and if I want to see what kind of
activity is on HF I can push  F1 and look at the overall picture.
Is there REALLY a problem here (if there is, it escapes me) or do some folks
just like to WHINE?



Bud
wb4ltf@aol.com
```

---

168. Re: [APRSSIG:7314] HF <-> VHF

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 06:09:19 -0800
To: aprssig@tapr.org
Message-ID: <199603081409.GAA23650@sprynet.com>
Rendered body type: text/plain

```
Replies/comments interspersed for clarity....
de Jim, KU0G

On Thu, 7 Mar 1996, William Nolle <ke4eer@hiwaay.net> wrote:
>I just don't understand all this hoopla about beaconing to VHF from HF
>what does it do for either, maybe someone should fill me in.

This is the way that a VHF mobile can stay in communication with its "home" LAN
through the HF gateway system!  That's the ORIGINAL intent of the gateways,
Bill.  RTFM!!!

>What good
>is it to the average VHF user anyway?.

To the average VHF user, nothing UNLESS he/she/it is out of their regular "home"
area...

> What if ALL the VHF users decided
>they wanted to do the same thing?. Well i should explain that i have been
>doing that anyway!. But i still don't understand WHY what good does it do
>other then what it was designed to do. I could understand if it was of
>some good to the community in case of heavy weather or disasters, but i
>never see it used for anything like that.
```

```
WAKE UP!!!  Read the previous two comments!!!

>I fail to see what it does for
>the average APRS VHF user. All i see is some HF station showing on the
>map that i'm told i cannot (Or should not try to contact).
I've never seen anything that says you aren't supposed to contact distant
stations on HF or through the gateways!  I think what you're referring to is a
FIXED station using WIDE,GATE,GATE,WIDE for ALL their traffic!  It's not a good
idea to blatantly use the WIDE,GATE,GATE,WIDE path just so you're seen all the
time.  If you're moving and you are either 1) trying to stay in contact with
your "home" area or, 2) your mobile/VHF event is of interest/significance to
more than just your local area!  Example:  During a severe WX event in Kansas
City, I will MOST likely run storm objects to HF to get the information over to
the St. Louis area if necessary.  Of course every situation is different and I
try to adjust my path to meet the desired coverage area.  Since I have direct
VHF northward to OMAHA and DES MOINES if I have a storm front, etc., moving in
that direction I'll stay on the VHF side...

>I know i'm
>going to get some flames from this again but so be it Hi. I would like to
>see APRS progressing for the good of the TOTAL community and not just for
>those that fell [sp. feel (0G edit)] their ego's hurt when they cannot have
their station seen
>all over the US. Please someone explain the benefits to me so i can
>understand all this talk about HF to VHF gates. Maybe i should start
>talking more about VHF to HF beaconing to keep up with all this talk
>about gates. I have been laying back reading all this but had to get into
>the thick of it again folks.
>
See how ya are?  <snicker>

>Bill KE4EER
>
>

Hope this clarifies for you, Bill.
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

169. Re: [APRSSIG:7316] Re: Mobile station - VHF

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 06:11:49 -0800
To: aprssig@tapr.org
Message-ID: <199603081411.GAA23843@sprynet.com>
Rendered body type: text/plain

```
On Fri, 8 Mar 1996, Martin Smith <msmith4@bayou.uh.edu> wrote:
>At 06:18 AM 3/7/96 -0600, you wrote:
>>
>>     *** Look for KK5SC-9 this week ***
>>
>>     I stuck my GPS tracker in Mike's truck for a trip from Houston, Tx to
>>     Georgia.  He will be on 145.79MHz beaconing approx every 10min.
>>
>>     Hardware config : Motorola PVT-6 GPS
>>                       Kantronics KPC-3
>>                       RatShack 30w 2m Amp
>>                       Kenwood TH-79A HT
>>        \\//
>>        (..)
>>    -ooO-(_)-Ooo-----------------------------------------------------
>>    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
>>    -----------------------------------------------------------------
>>
>>
>Hey George! Sounds Good!  Just wondering what kind of truck it is.  Is it an
>18-Wheeler or something else, like a pickup?       Marty  WD5DZC
>
>
WATCH OUT!!!  We'll have Bill complaining that we should have a pick-up w/gun
racks and open containers icon again!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
```

```
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

170. Re: [APRSSIG:7317] Re: HF <-> VHF

From: WB4LTF@aol.com
Date: Fri, 8 Mar 1996 09:50:45 -0500
To: aprssig@tapr.org
Message-ID: <960308095044_163463255@mail06.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-08 09:44:16 EST, you write:

> I found sufficient sense in Bill's reasoning

Now there is a statement worth saving!!!
```

---

171. Re: [APRSSIG:7315] Re: DIGIPEATERS and Torch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 8 Mar 1996 09:58:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960308095648.26745D-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 8 Mar 1996, Earl Boatman KB0NRK wrote:
> >
> Bob I can't find torchc.bk at TAPR can you email it to me?.
> If you look at the torch pict you can see where it (the trail) leaves
> the coast at St Pete's FL. I understand that a USCG cutter will pick
> up the torch and tranfere it somewhere off of Savannah and we will
> take it in to port.  ( I Hope) ; ^ ).
>
> I have some APRS questions?.  We will be no more than 100nm off the
> coast at any time, will 10m or 6m do for tracking the ship from the

WB4APR REPLY COMMENT:  Hopefully you should use both VHF and 10.151 MHz
That way we call all see it on HF and when you ARE near land, the
landlubbers will see it too...
```

---

172. Re: [APRSSIG:7319] Re: HF <-> VHF

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 8 Mar 1996 09:48:36 -0600
To: aprssig@tapr.org
Message-ID: <199603081548.JAA14021@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Ok, then can somebody explain why the WinAPRS default protopath is set to
this?  And I think the MacAPRS uses it too.

Just curious.
73
jbl


>Replies/comments interspersed for clarity....
>  I think what you're referring to is a >FIXED station using
>WIDE,GATE,GATE,WIDE for ALL their traffic!  It's not a good idea to
>blatantly use the WIDE,GATE,GATE,WIDE path just so you're seen all >the time.
>
>
>Hope this clarifies for you, Bill.
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>"Can't we all just get along?" -- R. King, 1994.
>
-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
KARC Hamfest Web Page at
http://tbcnet.com/~jleonard/hamfest.htm
```

---

173. Re: [APRSSIG:7321] Re: HF <-> VHF

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 8 Mar 1996 09:56:18 -0600

```
To: aprssig@tapr.org
Message-ID: <199603081556.JAA14108@tbc2.tbcnet.com>
Rendered body type: text/plain
```

```
Don't worry, Bill.  Some of us like you just fine.


>In a message dated 96-03-08 09:44:16 EST, you write:
>
>> I found sufficient sense in Bill's reasoning
>
>Now there is a statement worth saving!!!
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
KARC Hamfest Web Page at
http://tbcnet.com/~jleonard/hamfest.htm
```

---

174. Re: [APRSSIG:7318] Re: Is this possible???

```
From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 08 Mar 1996 10:25:30 -0800
To: aprssig@tapr.org
Message-ID: <31407B9A.DBF@hiwaay.net>
Rendered body type: text/plain
```

```
WB4LTF@aol.com wrote:
>
> >Wow that's just great Bob, now everyone will be beaconing ALL HF
> positions onto VHF.
>
> Why is it that this response didn't surprise me????
>  I think it's great also. I LIKE to see the HF'es and have 3 different gates,
> within hearing distance,to chose from,but what the heck,the more the
> merrier!!!.
> I can not see what the BIG DEAL is. There are all sorts of keys on my
> keyboard that will dictate what I see on my map.  If I want to see my local
> area, that is all I have to look at and if I want to see what kind of
> activity is on HF I can push  F1 and look at the overall picture.
> Is there REALLY a problem here (if there is, it escapes me) or do some folks
> just like to WHINE?
>
> Bud
> wb4ltf@aol.com---------------
You must not have been using APRS for to long like i have, i have seen it
several times during a period of heavy weather that we where attempting
to use APRS for that community service between the RED+ and the HARC
club, but because of the many many HF messages going back and forth it
killed that in this area. They didn't use the one line message either!.
They used the Bulletin feature to send messages back and forth. IF YOU
DON'T SEE ANYTHING WRONG WITH THAT, YOU NEED SOMMEBODY TO TEACH YOU A FEW
MANNERS. You may consider this whining but i don't GROW UP!!!.

Bill KE4EER
```

---

175. Re: [APRSSIG:7319] Re: HF <-> VHF

```
From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 08 Mar 1996 10:36:25 -0800
To: aprssig@tapr.org
Message-ID: <31407E29.129E@hiwaay.net>
Rendered body type: text/plain
```

```
> Replies/comments interspersed for clarity....
> de Jim, KU0G

> This is the way that a VHF mobile can stay in communication with its "home" LAN
> through the HF gateway system!  That's the ORIGINAL intent of the gateways,
> Bill.  RTFM!!!-------------------
YOU ARE SO WRONG, this was not the intent, it was intended for HF mobiles
and Boats to beacon their position home onto VHF so Mama knows their
position. I guess you need to learn more about APRS before answering.
>
> >What good
> >is it to the average VHF user anyway?.
>
> To the average VHF user, nothing UNLESS he/she/it is out of their regular "home"
> area...-------------
Ok i'll bite what does it do for the VHF'r in the above case?.
```

```
--------------------------
> >never see it used for anything like that.
>
> WAKE UP!!!  Read the previous two comments!!!

BUT YOU WILL IF THIS KEEPS ON GOING.
------------------------
>
> Hope this clarifies for you, Bill.
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

No it does not Jim...
>
> "Can't we all just get along?" -- R. King, 1994.
```

---

176. Re: [APRSSIG:7314] HF <-> VHF

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Fri, 8 Mar 1996 08:43:09 -0500
To: aprssig@tapr.org
Message-ID: <3140396D.6458@dgp.toronto.edu>
Rendered body type: text/plain

```
William Nolle wrote:
>
> I just don't understand all this hoopla about beaconing to VHF from HF
> what does it do for either, maybe someone should fill me in. What good
> is it to the average VHF user anyway?. What if ALL the VHF users decided
> they wanted to do the same thing?. Well i should explain that i have been
> doing that anyway!. But i still don't understand WHY what good does it do
> other then what it was designed to do. I could understand if it was of
> some good to the community in case of heavy weather or disasters, but i
> never see it used for anything like that. I fail to see what it does for
> the average APRS VHF user. All i see is some HF station showing on the
> map that i'm told i cannot (Or should not try to contact). I know i'm
> going to get some flames from this again but so be it Hi. I would like to
> see APRS progressing for the good of the TOTAL community and not just for
> those that fell their ego's hurt when they cannot have their station seen
> all over the US. Please someone explain the benefits to me so i can
> understand all this talk about HF to VHF gates. Maybe i should start
> talking more about VHF to HF beaconing to keep up with all this talk
> about gates. I have been laying back reading all this but had to get into
> the thick of it again folks.
>
> Bill KE4EER

Two points

1. One of the neat APRS things is bi-directional messaging which would be lost
with a crippled one way repeat of HF traffic onto VHF.

2. At the risk of sounding like Wayne Green:

Amateur radio is a hobby.  We do it for fun and no other reason.

The state of most ham operators is "appliance operating".  Most of us don't
do it for the self gratification received from building, testing, modifying,
and refining of electronic projects.

Witness the G5RV antenna phenomenon. - A dipole with a questionable length of
450 ohm feeder and an antenna tuner.  - The whole thing radiates, feeder included.
Do you know anyone who has built one from scratch without purchasing a kit?
How about someone who has compared it to a dipole of identical length fed with
a balun and an antenna tuner?

The popularity of these kit is proof that most hams are too inept to measure
and cut wire.  Forget about them home brewing, or understanding something
technical about what they purchase.

Every once in a while, there is a bright light, like Bob B. who fools around
with a new idea, like APRS.

APRS which can be a lot of fun if we don't take it too serious and forget this
is a hobby and not the self appointed radio arm of some pseudo police force,
disaster assistance org., or weird militia group who looks for lost children in
spare time.
```

```
 -..  .     ...-  .  ...--  -..  ..  -...
```

---

177. Nautical charts

From: "W. Ronald Gentry" <gentry@chemsun.chem.umn.edu>
Date: Fri, 8 Mar 1996 13:10:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603081910.NAA08814@chemsun.chem.umn.edu>
Rendered body type: text/plain

Can anyone tell me the best source for nautical charts on CD ROM?

Thanks,

Ron

```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
W. Ronald Gentry
Department of Chemistry
University of Minnesota
207 Pleasant St. SE, A-14
Minneapolis, MN  55455
   E-Mail:  gentry@chemsun.chem.umn.edu
   Telephone:  612-625-2894, 612-624-6000
   TeleFax:    612-626-8659
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

---

178. Re: "weird militia group" flame

From: Will Flor <willf@rrgroup.com>
Date: Fri, 08 Mar 96 13:32:03 -0800
To: aprssig@tapr.org
Message-ID: <9603081932.AA10524@inc.net>
Rendered body type: text/plain

You wrote:

```
----------
From:   Greg Blair[SMTP:siggraph@dgp.toronto.edu]
Sent:   Friday, March 08, 1996 11:50AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:7327] Re: HF <-> VHF


   >APRS which can be a lot of fun if we don't take it too serious and
   >forget this
   >is a hobby and not the self appointed radio arm of some pseudo
   >police force,
   >disaster assistance org., or weird militia group who looks for lost
   >children in spare time.
```

Speak for yourself, pardner. As a member of Civil Air Patrol, I am one of many who use APRS for disaster assistance *and* looking for lost children in what you casually dismiss as my "spare time." And no, we are not a "weird militia group." In fact, I am **deeply** personally insulted by that characterization of search and rescue personnel, including yours truly. We may dress in camoflage BDUs but we are not "weird militia" - we are real live human beings - just like yourself - who **volunteer** our time to try to save somebody else's life and/or property. I'm a ham, too - but my interest in APRS is NOT ONLY a hobby, but something I do as a service to my country (we're part of the Air Force's Air Education and Training Command) as well as to the general aviation community and anybody else in dire straits.

I am not mad - but I *am* deeply disappointed and very disgusted.

-Will Flor   willf@rrgroup.com   "Badger 323"
Milwaukee Emergency Services Squadron
Civil Air Patrol

---

179. Re: [APRSSIG:7323] Re: HF <-> VHF

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 11:45:45 -0800
To: aprssig@tapr.org
Message-ID: <199603081945.LAA28488@sprynet.com>
Rendered body type: text/plain

I'd say that's probably there as a default for
1) someone who is not in a local VHF APRS network...

```
2) possibly to give widest notice that the user is working
under Win/MacAPRS....(notice I DIDN'T say "advertise")

Of course, the end-user of the software package is supposed to be (read IDEALLY)
acquainted with the APRS software in some way/shape/form and would be likely to
change the path in the config file when they edit in their own callsign and
lat/lon....(Oh, well, I can dream, can't I?)

SIDEBAR TO ALL WINAPRS USERS:

I've discovered that you can program your KAM to default to SEPARATE digi paths
by setting the path statement in the WINAPRS.CFG file to a dual-port command
structure:  i.e.

"GATE,WIDE/APRSW V WIDE,WIDE"

This is what I'm doing at my station presently and it DOES work! (undocumented
feature?)

On Fri, 8 Mar 1996, jleonard@tbcnet.com (John B. Leonard) wrote:
>Ok, then can somebody explain why the WinAPRS default protopath is set to
>this?  And I think the MacAPRS uses it too.
>
>Just curious.
>73
>jbl
>
>
>>Replies/comments interspersed for clarity....
>>  I think what you're referring to is a >FIXED station using
>>WIDE,GATE,GATE,WIDE for ALL their traffic!  It's not a good idea to
>>blatantly use the WIDE,GATE,GATE,WIDE path just so you're seen all >the time.
>>
>>
>>Hope this clarifies for you, Bill.
>>Best 73,
>>Jim Duncan, KU0G
>>APRS--Kansas City Coordinator
>>EMail:  ku0g@sprynet.com
>>
>>"Can't we all just get along?" -- R. King, 1994.
>>
>------------------------------------------------------------------
>J Barry Leonard/N9VJQ
>DeKalb IL
>E-MAIL:  jleonard@tbcnet.com
>KARC Hamfest Web Page at
>http://tbcnet.com/~jleonard/hamfest.htm
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

180. Re: [APRSSIG:7324] Re: HF <-> VHF

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 11:47:34 -0800
To: aprssig@tapr.org
Message-ID: <199603081947.LAA28649@sprynet.com>
Rendered body type: text/plain

```
We probably all "like" Bill, it's just that sometimes we don't always AGREE with
him.  One of the nice things about this SIG/country etc. is that we have the
freedom to think as we will and to express those opinions/thoughts in open
forum!

On Fri, 8 Mar 1996, jleonard@tbcnet.com (John B. Leonard) wrote:
>Don't worry, Bill.  Some of us like you just fine.
>
>
>>In a message dated 96-03-08 09:44:16 EST, you write:
>>
>>> I found sufficient sense in Bill's reasoning
>>
>>Now there is a statement worth saving!!!
>>
```

```
>-------------------------------------------------------------------
>J Barry Leonard/N9VJQ
>DeKalb IL
>E-MAIL:  jleonard@tbcnet.com
>KARC Hamfest Web Page at
>http://tbcnet.com/~jleonard/hamfest.htm
>.
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

181. Re: [APRSSIG:7325] Re: Is this possible???

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 11:53:26 -0800
To: aprssig@tapr.org
Message-ID: <199603081953.LAA29479@sprynet.com>
Rendered body type: text/plain

```
My comments appended at the bottom of this page....
KU0G

On Fri, 8 Mar 1996, William Nolle <ke4eer@hiwaay.net> wrote:
>WB4LTF@aol.com wrote:
>>
>> >Wow that's just great Bob, now everyone will be beaconing ALL HF
>> positions onto VHF.
>>
>> Why is it that this response didn't surprise me????
>>  I think it's great also. I LIKE to see the HF'es and have 3 different gates,
>> within hearing distance,to chose from,but what the heck,the more the
>> merrier!!!.
>> I can not see what the BIG DEAL is. There are all sorts of keys on my
>> keyboard that will dictate what I see on my map.  If I want to see my local
>> area, that is all I have to look at and if I want to see what kind of
>> activity is on HF I can push  F1 and look at the overall picture.
>> Is there REALLY a problem here (if there is, it escapes me) or do some folks
>> just like to WHINE?
>>
>> Bud
>> wb4ltf@aol.com---------------
>You must not have been using APRS for to long like i have, i have seen it
>several times during a period of heavy weather that we where attempting
>to use APRS for that community service between the RED+ and the HARC
>club, but because of the many many HF messages going back and forth it
>killed that in this area. They didn't use the one line message either!.
>They used the Bulletin feature to send messages back and forth. IF YOU
>DON'T SEE ANYTHING WRONG WITH THAT, YOU NEED SOMMEBODY TO TEACH YOU A FEW
>MANNERS. You may consider this whining but i don't GROW UP!!!.
>
>Bill KE4EER
>
This is EXACTLY the kind of scenario that I was portraying earlier today.
Common sense and good operating practice dictate (or at least they're SUPPOSED
to..) that when emergency/health & welfare traffic such as what Bill mentions is
on the frequency that other traffic should yield until the situation is
concluded!  It all comes down to education, folks.  You've got to set up a
standard operating procedure and make sure that everyone in your network is
working within the SOP to insure that we DON'T have problems like this!  Check
out the KCAWG Web Site and read our Recommended Operating Practices
statement...It's probably not the best nor, by any means, perfect but it's a
foundation for us to build on here.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

182. Re: [APRSSIG:7326] Re: HF <-> VHF

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 12:02:17 -0800
To: aprssig@tapr.org

Message-ID: <199603082002.MAA00523@sprynet.com>
Rendered body type: text/plain

```
But how many of us actually DO operate an HF mobile in our cars, Bill?  What I
intended to say but didn't make clear was that the VHF cross-country mobile
operating APRS falls into the same category as an HF cross-country mobile.

A notable exception is Peter, W7LUS, who is on the road in his truck constantly!
 If I were on the road this much I'd have an HF rig mobile, too!

Note that this does NOT apply to the casual APRS Mobile traveling around in
his/her own LAN!  Nobody in California, New York or Florida (to name a few)
cares about where I go here in Kansas City so I don't use the
WIDE,GATE,GATE,WIDE in my car.  I HAVE done this in the past and was, politely
and graciously, reminded that I shouldn't do it unless I was on a cross-country
trek.  Been there, done that, too!
(You wouldn't believe how lonesome it can get on APRS when you're out of your
local VHF LAN!  It's about as exciting as watching the grass grow and you
salivate whenever the laptop beeps that it's heard something!!!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"If at first you don't succeed, keep suckin' 'til you do suck seed!" -- Curly
Howard, 1937.
```

---

183. Re: [APRSSIG:7327] Re: HF <-> VHF

From: ku0g@sprynet.com
Date: Fri, 8 Mar 1996 12:04:20 -0800
To: aprssig@tapr.org
Message-ID: <199603082004.MAA00833@sprynet.com>
Rendered body type: text/plain

```
Amen, Greg.

We just all have to take the time to practice good operating habits!

***End Thread***
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

184. Re: [APRSSIG:7286] Re: EME for everyone

From: Bill Duckwitz <duckwitz@mindspring.com>
Date: Fri, 8 Mar 1996 15:48:31 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309154814.520f3da2@pop.mindspring.com>
Rendered body type: text/plain

```
At 09:26 AM 3/7/96 -0600, you wrote:
>On Wed, 6 Mar 1996 KD4EMI@aol.com wrote:
>
>> Just a dumb question...Why does the gov send this signal into space..?
>
>WB4APR REPLY COMMENT:  It is one of the PRMARY means that NORAD uses for
>generating the KEPS for the 7000 objects hurteling through space around
>this planet.  The precise time of the PING tells you when the object
>crossed the fence, the doppler tells you at what angle and speed, using a
>phased array receive antenna tells you WHERE it crossed the fence,and
>with that info you can UPDATE the keps.
>
W4PBV COMMENT:  In fact NORAD and the Air Force are tracking in excess of
23,000 objects in orbit around the earth.

=====================================================
Bill, W4PBV , Col., USAFR, Ret., ex Heavy Driver
Kennesaw, GA                    34*04 N 84*36 W
duckwitz@mindspring.com or 73002.3554@compuserve.com
CEO Bosley's Basement Laboratories, Piedmont Division
No Work Solicited                 Nothing Guaranteed
```

---

185. Re: [APRSSIG:7327] Re: HF <-> VHF

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Fri, 08 Mar 1996 16:41:23 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960308214123.1edf8044@sun.lssu.edu>
Rendered body type: text/plain

'Twas said:

"1. One of the neat APRS things is bi-directional messaging which would be lost with a crippled one way repeat of HF traffic onto VHF."

IMHO:

Unless I miss the prime reason for Ke4eer's position, in the NOISE, smoke and flames,
he was concerned, primarily, with a lot of useless (though casually interesting) hf beacons, bulletins, hf chatter, experimentation, fixed vhf-hf-vhf transmissions, blah, blah, blah, that is gated into all vhf nets by those that include in their UNPROTO path, that magic GATE word, with at times, a liberal sprinkling of the WIDE word.

I, on hf/vhf, and kc8ark on vhf, have no problem with any and all traffic because we
are all there is, close to full time in this area. All qrm is better than none, and it is appreciated. For those in areas where the vhf net(s) are more mature, and used for a multitude of purposes, I can understand the possible objection to the "junk" that is
my treasure. The use of selective filtering, as APR created, provides a mechanism
whereby vhf stations can ignore the incoming "junk" on an individual basis, but that does not eliminate the actual vhf rf qrm caused by the undesired GATEd signals, or the
offence taken by some, to it.

The previous discussions concerning baud rates vs qrm from hf to vhf, though valid from a technical point of view, do not create any less vhf qrm on the vhf nets. I have marvelled at the amount of "junk" I have pumped into the vhf ether, on many occaisions, and while gating with a TCP/IP setup, I created many trace files on vhf and hf, to read later in the evening, when I came home from work. On the weekends, especially, there has been "tons".

If this issue of hf to vhf qrm is to be resolved, I suspect that a more judicious use of the GATE word in many UNPROTO paths is in order. The use of the WIDE word, should also be considered in the context of shared rf resources, and the qrm it creates. I may cuff kc8ark about the head and ears, to keep him in line, but it is difficult to suggest "better" operating habits to one far removed from my immediate sphere of influence. If anarchy rules, we all lose.

I would hate to see the ability for TRAVELLERS (please note the emphasis :-) to be denied the ability to gate from one part of the country (world?) to another because
of reactions to questionable operating habits. Area gates such as FLGATE, are far from a cureall. If the APRS network is to remain a cohesive world wide? vhf-hf-vhf network the, tit for tat, as discussed, and sometimes implemented, will only mean an APRS network of less value to all. Turning off the gate stations, makes isolated vhf networks. The proliferation of area gates and specific vhf digi calls, makes a laptop, and nationwide knowledge of the network a prerequisite for "simple" mobile operation. I can see the
diversification of the network down the road, but I hope for reasons other than I perceive relevant to the current fire.

I would hate to see the loss of information of value to most APRS users, sent normally throughout the entire network, because of reactions to an ever expanding "flood" of
data of little value to those far removed from its origin.

I hope, that the current ROAR!!!! will subside, rapidly, and a more amicable and rational discourse will replace it.

As I am sure Bill remembers, my "junk" was heard heard in his area.

BTW Bill, if you wouldn't charge out of the chute with a roar, in a cloud of fire and smoke, everytime someone waves a flag, you would see me smile. Some among us play you like a violin while all have to suffer the discord :-)

Pete, wa4hei

186. Re: [APRSSIG:7325] Re: Is this possible???

From: rwf <rwf@mindspring.com>
Date: Fri, 8 Mar 1996 17:14:59 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960308171547.3cd7f10e@mindspring.com>
Rendered body type: text/plain

```
Bill (EER)
Does this mean that I should stop using the GATE system to send my GPS
mobile position back home from Florida to Ga?  I have been using path:
WIDE, GATE,GATE,N4NEQ-2,WIDE  whenever I get the chance.  I think the folks
back home can then see where their wayward son is these days.   As you may
recall, I am STILL on this marathon mother-of-all-road-trips.   Today, I
used WIDE,GATE,GATE,WIDE, so you could see mee too!


But I always thought this was one of the types of activity the GATES were
designed for...

Ralph  N4NEQ
```

---

187. Re: [APRSSIG:7329] Re: "weird militia group" flame

From: rwf <rwf@mindspring.com>
Date: Fri, 8 Mar 1996 17:47:23 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960308174812.3cd75208@mindspring.com>
Rendered body type: text/plain

```
At 01:34 PM 3/8/96 -0600, Will Flor wrote:

>I am not mad - but I *am* deeply disappointed and very disgusted.
>

I think you miunderstood what he was saying.  I did not take it that way.


N4NEQ
Ralph Fowler, 1Lt
Red Star 16, Ret.
GA Wing Communications Engineer , Ret.
```

---

188. Re: [APRSSIG:7320] Re: Mobile station - VHF

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 8 Mar 1996 17:12:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603082312.RAA10972@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
ku0g@sprynet.com sez:
>
> WATCH OUT!!!  We'll have Bill complaining that we should have a pick-up w/gun
> racks and open containers icon again!!

I, for one, support the call for an icon of a pickup with the
"Easy-Rider-Rifle-Rack!"

Gerry
```

---

189. Re: [APRSSIG:7274] APRSgate

From: n2czf@gate.net
Date: Fri, 8 Mar 1996 18:27:54 -0500
To: aprssig@tapr.org
Message-ID: <199603082327.SAA48304@osceola.gate.net>
Rendered body type: text/plain

```
Well Bob I for one am runing out of money for PK-900's and KAM+'s I would love
to see that feature or even a more streamlined version of APRS. No Satelite
stuff, etc etc. in it JUST FOR GATEWAY OPERATIONS AND MONITORING. I run 2PC's
here with two GATEWAYS and it get's to be a bit on money. If others want to do
the same hamfest specials can be put to good use for a complete gateway at the
price of one dual port TNC.

I think APRS as is is great for the average user and no other features are
needed at this time but another special version like APRStrak was made would be
good for those that need it. REMEMBER THE HAMFEST SPECIAL I have been given 4
286's here with no hard drive, someone else is giving me 10 meg HD's for free
and I have 6 more TNC's that means I can set up 3 more GATEWAYS at a minimal
cost. Many others may find small HD's for the asking in building such a system
so keep the size of APRS to a minimum. Between the almost needed ProComm+, APRS,
```

and maybe a few utilities in addition to DOS not much room is left for backups
and .HST's.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

190. Re: [APRSSIG:7335] Re: EME for everyone

From: KD4EMI@aol.com
Date: Fri, 8 Mar 1996 18:37:24 -0500
To: aprssig@tapr.org
Message-ID: <960308183722_241189246@mail04.mail.aol.com>
Rendered body type: text/plain

I thought that the air farce is tracking objects optically..?
(Both from land and air based telescopes)
Besides, whats the beamwidth on a device like that ? If I knew that,
then I could understand it better. A large beam width would make sense.
I was picturing a small "BEAM" and it wasnt making sense.

Point #2 Re the HF-VHF thing...
I operate HF and VHF mobile and at home. The hf side can be
quite busy with qso's and beacons. SOMETIMES it's hard to
even get a beacon thru unless you wait a while.
Someone wrote, something like "I can hit a key and only monitor
etc etc"
That doesnt stop the HF freq from getting tied up though. You can choose
to monitor who you wish, but if everyone is on HF then its still gonna be
slow.   So if your in a QSO, USE THE CALLSIGN OF THE DARN GATE.
DONT USE
 GATE GATE WIDE REALLY WIDE, WIDER STILL, etc for your unproto.

 I am still looking for folks to QSY to some other bands..

I run a loop antenna and operate 10-30 only.
PS IF you ever thought about a loop antenna, get it. Worked a ton
of stations and most of it DX !
My first rtty qso was CROATIA !!

Cant we keep this on a NON emotional level guys ?   We could get
a lot more thoughput and all benefit by it. State your case and
be gone !

Now, b4 flames, just think about what you want to say and then sanitize it
and make your point. NO ENERGIZER BUNNY CLONES ...

Mike KD4EMI
Have a nice day

---

191. KAM UPGRADE

From: KD4EMI@aol.com
Date: Fri, 8 Mar 1996 18:37:25 -0500
To: aprssig@tapr.org
Message-ID: <960308183723_241189282@emout04.mail.aol.com>
Rendered body type: text/plain

Anyone got a 5.0 chip for their KAM laying around they dont want ?
I would like to get a later version from my 3.1 KAM.

Mike
KD4EMI@AOL.COM

---

192. Re: [APRSSIG:7325] Re: Is this possible???

From: "AL Z., N3KAE" <ldajz@epix.net>
Date: Fri, 08 Mar 1996 18:39:11 -0800
To: aprssig@tapr.org
Message-ID: <3140EF4F.6597@epix.net>
Rendered body type: text/plain

Well, well, well... Didn't I just shake up a hornet's nest on this one.

For those of you who may be interested, I am the original postee of the
message titled: Is this possible?. It all started a few nights ago when
I was staring at a spare MFJ 1270 TNC and thought... Gee wouldn't it be
nice to see some HF (GATE) stations show up regularly here in NE PA? I
read through the APRS docs and saw a boat-load of info on dual-port
TNC setups, but nothing about a dual-TNC setup. A few of us here in NE
PA monitored the HF APRS freq.'s during the past hurricane season and

were honestly impressed at the effort put forth by the storm trackers. We recently got a VHF WIDE-RELAY on a local mountain (Scranton, PA) and are looking forward to enhancing it this Spring.

Just for the record, our miniscule mountain digi doesn't even have an UNPROTO set, so I highly doubt we would disrupt the entire eastern seaboard's VHF activity by having a GATEway here. But it seems that a few people flew right off of the axe handle over this topic in general. To them I say; GET AWAY FROM THE COMPUTER AND GET A HOBBY!!!

If anyone in particular feels that HF APRS activity is being mishandled, then please stop being the genius in the back of the classroom and MAKE YOUR VALID POINTS KNOWN.

I recently saw a list of APRS freq.'s/proposed freq.'s on this SIG for HF use. There were 3 for each band 80 through 10 Meters. Isn't it time for some serious sub-coordination and policing of these freq.'s??? ie one for WX/mobiles and one for DX/chatting. This should allow for some quelling of this obvious quiet riot, and maybe an agreement and etiquette, en masse, can be established. You, the SYSOPS of the HF GATES should really consider this or some other plan of action, less you be subject to increased frustration when APRS doubles in popularity.

For those of you who lended positive information on a dual-TNC setup; I thank you very much.

Flamers welcomed...

Al, N3KAE

---

193. Re: [APRSSIG:7327] Re: HF <-> VHF

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 8 Mar 1996 18:42:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960308184104.8184E-100000@laraby.tiac.net>
Rendered body type: text/plain

On Fri, 8 Mar 1996, Greg Blair wrote:
(snip)
>
> 2. At the risk of sounding like Wayne Green:
>
> Amateur radio is a hobby. We do it for fun and no other reason.
>

First Amateur Radio is a *service*, then it is a hobby. At least that's my understanding of Part 95.

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

194. Re: [APRSSIG:7283] Re: Is this possible???

From: n2czf@gate.net
Date: Fri, 8 Mar 1996 18:47:17 -0500
To: aprssig@tapr.org
Message-ID: <199603082347.SAA19108@osceola.gate.net>
Rendered body type: text/plain

BPQ.....

THis is something I have toyed with and Peter WA4HEI in MI. has also done. The idea was great and seemed to work somewhat but for a beginer it is not!

Anyone know G8BPQ or have his E-mail address ? This is a man we need to speak with. Bob ??????? HUmmmmmm ????
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

195. Re: [APRSSIG:7306] Re: Is this possible??? RE: FLGATE

From: n2czf@gate.net
Date: Fri, 8 Mar 1996 18:53:41 -0500
To: aprssig@tapr.org
Message-ID: <199603082353.SAA39940@osceola.gate.net>
Rendered body type: text/plain

I see the Collier Co. area is using BPQ with FLGATE. Do remember that FLGATE is for the FL APRS NET ON 80M ONLY!! What little there is hi hi.

If you are on 3.585 LSB going to 145.79 in the state of Florida as a GATEWAY use FLGATE as MYGATE. If you are operational on 10.151 LSB stick with GATE as the MYGATE. No one on 30M uses FLGATE since those transmissions are used all over the country, if you are set to FLGATE on 30M nothing will come thru.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

196. Re: [APRSSIG:7336] Re: HF <-> VHF

From: jleonard@tbcnet.com (John B. Leonard)
Date: Fri, 8 Mar 1996 17:56:27 -0600
To: aprssig@tapr.org
Message-ID: <199603082356.RAA20477@tbc2.tbcnet.com>
Rendered body type: text/plain

> 'Twas said:
>
> "1. One of the neat APRS things is bi-directional messaging which would be lost
>with a crippled one way repeat of HF traffic onto VHF."
>
> IMHO:
>
> Unless I miss the prime reason for Ke4eer's position, in the NOISE, smoke
>and flames,
>he was concerned, primarily, with a lot of useless (though casually
>interesting) hf beacons, bulletins, hf chatter, experimentation, fixed
>vhf-hf-vhf transmissions, blah, blah, blah, that is gated into all vhf nets
>by those that include in their UNPROTO path, that magic GATE word, with at
>times, a liberal sprinkling of the WIDE word.

Case in point:

Last night various APRS users in the Chicago area participated in a Severe Wx/Tornado Drill. My job was to put the WX on the screen, with warnings, etc. They (the participants) checked in and did all kinds of APRS/Skywarn things. The drill lasted from 7 til 7:40pm.

If we had a GATE operating in the area, the drill would have been fighting against the hf "noise" coming in. Collisions were a concern as it was on VHF. Think about introducing HF noise, HF that can't HEAR!

Ask the GATE to turn off for drills, you ask? I beg to differ with you on the definition of a drill. A drill is performed so that those stations will see the problems, and hopefully correct them. And so the next drill runs a little better. We hope. Of course, next time could be the real thing. No drill.

This Skywarn vs HF gate problem has been a concern for a long time. I just hope that somebody's ragchew in TX doesn't collide with somebody's urging to get outa the way of a twister in IL.

73's

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
KARC Hamfest Web Page at
http://tbcnet.com/~jleonard/hamfest.htm

---

197. [APRSSIG:7333] Re: HF <-> VHF

From: n2czf@gate.net
Date: Fri, 8 Mar 1996 19:12:21 -0500
To: aprssig@tapr.org
Message-ID: <199603090012.TAA69462@osceola.gate.net>
Rendered body type: text/plain

<---- Begin Forwarded Message ---->
>> I HAVE done this in the past and was, politely
and graciously, reminded that I shouldn't do it unless I was on a cross-country trek. >>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com
<---- End Forwarded Message ---->

On this topic I will say that I do on a RARE occasion go WIDE,GATE,GATE,WIDE when I am in the area. I did do this often a few years ago when a GPS tracker was rare in a area served by a GATE. Now that this is much more common I cut back quite a bit, maybe once every 3-4 months. "Back in the ol' days" I was geting messages at the home PC that everyone was having fun tracking me while I was driving arround Palm Beach (Donald and Marla were even followed during one of these trips!).

I don't think a OCCASIONAL track is that bad but things need to be considered. Position Rate, UNPROTO path (WIDE,GATE or WIDE,GATE,GATE,WIDE), but most of all the time you are on. A 30 minute trip with collisions on VHF and faiding on HF will not be a big deal but a 30 minute trip to dinner, with the car in one spot for the duration of the dinner TX'ing every 5 mins would be.

Think of this over the weekend, it will solve many problems and is very simple.

PLEASE USE COMMON SENSE !

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

198. [APRSSIG:7336] Re: HF <-> VHF RE: FLGATE

From: n2czf@gate.net
Date: Fri, 8 Mar 1996 19:46:30 -0500
To: aprssig@tapr.org
Message-ID: <199603090046.TAA43828@osceola.gate.net>
Rendered body type: text/plain

<---- Begin Forwarded Message ---->
Date: Fri, 8 Mar 1996 15:56:26 -0600 (CST)
Reply-To: aprssig@tapr.org
From: Peter Markham <pmarkham@sun.lssu.edu>
To: aprssig@tapr.org
Subject: [APRSSIG:7336] Re: HF <-> VHF

Area gates such as FLGATE,
are far from a cureall. If the APRS network is to remain a cohesive world wide? vhf-hf-vhf network the, tit for tat, as discussed, and sometimes implemented, will only mean an APRS network of less value to all. Turning off the gate stations, makes isolated vhf networks. The proliferation of area gates and specific vhf digi calls, makes a laptop, and nationwide knowledge of the network a prerequisite for "simple" mobile operation. I can see the
diversification of the network down the road, but I hope for reasons other than I perceive relevant to the current fire.

Pete, wa4hei
<---- End Forwarded Message ---->

I agree with Pete that cuting down traffic will not be a cureall with such aliases as FLGATE, MIGATE, or XYGATE but the FLGATE was done for 1 reason only and this reason would have created havoc with 30 meters. WE WANTED A LOT OF TRAFFIC, AS MUCH AS POSSIBLE !! I have 2 GATES up 24hrs a day 7days a week one on 30M and one on 80M. KD4UYR I believe only has one but keeps it mostly on 80M now. If we would have made our 80M GATEs alias as GATE and not FLGATE then told everyone on VHF in the area to go APRS VIA WIDE,GATE,GATE,WIDE we would have really been hung to dry! It will possibly be impossible to get everyone to change back to normal operations later on if we killed 30M for the duration of the tests and once 30M came back everyone would keep using WIDE,GATE,GATE,WIDE.

Why did we want so much traffic ?? We wanted 3.585 to be busy all the time so new 80M users could zero beat at any time and once everyone was on frequency then we were going to run a somewhat controlled test to rate the 80M APRS success rate WITHIN the state. 30M is worthless for us to keep in touch with and we are too far spread and large to make use of even the most expensive/extensive VHF digi system. Emergency Communmications is what APRS is best suited for and that is what we want to apply it to. If we do not have the RF link APRS is quite worthless to everyone here unless we need it on a small scale which could be taken care of on any regular 2 meter repeater. We have plans for VAST ammounts of data to be passed in at least the southern half of the state, we do not have the amateur interest yet in the northern region, or at least enough to take into account now. No other band can accomplish this other than 80M so far, and 80M is still not 100% but it is quite good.

With what I have just stated you can see APRS here in Southern FL is making quite a change. Their are those that want to use it for fun and others that want to use it for a more serious mission. Neither group is wrong for wanting what they do but ONE system/gate can't handle it all. Their will be a split probably later on with more users coming into the ranks but all in all we will grow. Some will keep to the day in day out operations, some will be involved in the Emergency Management aspect while others will be part of both activities.

As Pete has stated it will cause a problem but it will be transparent if done properly. 30M gates will serve travelers and routine operations while the 80M gate for FL or any other state will serve a SPECIFIC niche, coverage WITHIN THE STATE. No one in this area is suffering now due to the FLGATE, many probably do not even know that it is here, they just know that TAMPA is a regular on the map now which they were not before. If anyone want's to use it they can, if they do not they follow the standard APRS protocall and things are as usual.

Maybe even someday in the future 3.585 will gate to some other frequency other than 145.79. Either way 10.151<->145.79 will remain as always and offer it's services to everyone. Statewide APRS operations could move to another VHF frequency or even another frequency AND Internet! but that is another ball of worms. I plead the 5th on that topic and deny any comments about it!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

199. Re: [APRSSIG:7342] KAM UPGRADE

From: ka9nyn@ix.netcom.com (David R. Mohr)
Date: Fri, 8 Mar 1996 16:54:19 -0800
To: aprssig@tapr.org
Message-ID: <199603090054.QAA10113@ix16.ix.netcom.com>
Rendered body type: text/plain

```
You wrote:Its only $25 for the current rom upgrade from Kantronics, but
I'll look for my latest upgrade I'm not using, for ya!!
                            73 , Dave.
>
>Anyone got a 5.0 chip for their KAM laying around they dont want ?
>I would like to get a later version from my 3.1 KAM.
>
>Mike
>KD4EMI@AOL.COM
>
>
```

---

200. Good Ol' Boy Icon

From: n2czf@gate.net
Date: Fri, 8 Mar 1996 20:07:10 -0500
To: aprssig@tapr.org
Message-ID: <199603090107.UAA39506@osceola.gate.net>
Rendered body type: text/plain

Well if we ever get a digi in Glades or Okeechobee County we will need a Pickup Truck Icon with a gun rack!

Funny for some but so true just a few miles away from here. They sometimes even get lost and are spotted quite often in these here neck of the woods. Wonder if we can add a dog to the bed of that Pickup while Bob is at it ??

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

201. Re: [APRSSIG:7325] Re: Is this possible???

From: payneb@rmi.net (Brandon Payne)
Date: Fri, 8 Mar 1996 20:27:07 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <m0tvFJD-000JMyC@rmii.com>
Rendered body type: text/plain

```
> You must not have been using APRS for to long like i have, i have seen it
> several times during a period of heavy weather that we where attempting
> to use APRS for that community service between the RED+ and the HARC
> club, but because of the many many HF messages going back and forth it
> killed that in this area. They didn't use the one line message either!.
> They used the Bulletin feature to send messages back and forth. IF YOU
> DON'T SEE ANYTHING WRONG WITH THAT, YOU NEED SOMMEBODY TO TEACH YOU A FEW
> MANNERS. You may consider this whining but i don't GROW UP!!!.
>
> Bill KE4EER
```

I usually remain silent during these discussions, but I had to bite on this one. In most of my ten years as a communicator I have found most hams to respect a published emergency frequency. Maybe you might consider using an alternate frequency for APRS during your community service activities.

Brandon Payne N0HSM
Firefighter/EMT

---

202. Re: [APRSSIG:7337] Re: Is this possible???

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 08 Mar 1996 22:54:14 -0800
To: aprssig@tapr.org
Message-ID: <31412B16.2D73@hiwaay.net>
Rendered body type: text/plain

```
rwf wrote:
>
> Bill (EER)
> Does this mean that I should stop using the GATE system to send my GPS
> mobile position back home from Florida to Ga?  I have been using path:
> WIDE, GATE,GATE,N4NEQ-2,WIDE  whenever I get the chance.  I think the folks
> back home can then see where their wayward son is these days.   As you may
> recall, I am STILL on this marathon mother-of-all-road-trips.   Today, I
> used WIDE,GATE,GATE,WIDE, so you could see mee too!
>
> But I always thought this was one of the types of activity the GATES were
> designed for...
>
> Ralph  N4NEQ-----------------
```

No NO, i'm not talking about mobiles. Not yours or W7LUS-14 it's the base to base HF users. I enjoy watching an HF mobile as well as others do, but it's not those users that create the problem. I don't need to tell you Ralph you have been in the midst of some of this, your just not as vocal about it as i am Hi. And i do have to make a statement that since i have been running my station WIDE,GATE,GATE,WIDE from VHF i haven't seen the abuse that we where having a while back. It's just that i see it heading that way again specially now that Bob is helping out. Well if it does we are prepared in this area to all beacon VHF-->HF, what's good for one is good for all i would say. So no Ralph you have NEVER heard me talking (Rather typing a statement) that was directed to HF mobiles. I hope that sets the record straight Hi.

Bill Ke4EER

---

203. Re: [APRSSIG:7339] Re: Mobile station - VHF

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 08 Mar 1996 23:03:01 -0800
To: aprssig@tapr.org
Message-ID: <31412D25.3E1C@hiwaay.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> ku0g@sprynet.com sez:
> >
> > WATCH OUT!!!  We'll have Bill complaining that we should have a pick-up w/gun
> > racks and open containers icon again!!
>
> I, for one, support the call for an icon of a pickup with the
> "Easy-Rider-Rifle-Rack!"
>
> Gerry-------------------------
```

Yes Yes thanks Gerry ;-)

Bill KE4EER

---

204. Re: [APRSSIG:7347] Re: HF <-> VHF

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 08 Mar 1996 23:28:49 -0800
To: aprssig@tapr.org
Message-ID: <31413331.48FD@hiwaay.net>
Rendered body type: text/plain

```
John B. Leonard wrote:
>
> > 'Twas said:
```

> >
> > "1. One of the neat APRS things is bi-directional messaging which would be
> lost
> >with a crippled one way repeat of HF traffic onto VHF."
> >
> > IMHO:
> >
> > Unless I miss the prime reason for Ke4eer's position, in the NOISE, smoke
> >and flames,
> >he was concerned, primarily, with a lot of useless (though casually
> >interesting) hf beacons, bulletins, hf chatter, experimentation, fixed
> >vhf-hf-vhf transmissions, blah, blah, blah, that is gated into all vhf nets
> >by those that include in their UNPROTO path, that magic GATE word, with at
> >times, a liberal sprinkling of the WIDE word.
>
> Case in point:
>
> Last night various APRS users in the Chicago area participated in a Severe
> Wx/Tornado Drill. My job was to put the WX on the screen, with warnings,
> etc. They (the participants) checked in and did all kinds of APRS/Skywarn
> things. The drill lasted from 7 til 7:40pm.
>
> If we had a GATE operating in the area, the drill would have been fighting
> against the hf "noise" coming in. Collisions were a concern as it was on
> VHF. Think about introducing HF noise, HF that can't HEAR!
>
> Ask the GATE to turn off for drills, you ask? I beg to differ with you on
> the definition of a drill. A drill is performed so that those stations will
> see the problems, and hopefully correct them. And so the next drill runs a
> little better. We hope. Of course, next time could be the real thing. No
> drill.
>
> This Skywarn vs HF gate problem has been a concern for a long time. I just
> hope that somebody's ragchew in TX doesn't collide with somebody's urging to
> get outa the way of a twister in IL.
>
> 73's
> ---
> J Barry Leonard/N9VJQ
> DeKalb IL
> E-MAIL: jleonard@tbcnet.com
> KARC Hamfest Web Page at
> http://tbcnet.com/~jleonard/hamfest.htm--
My point exactly, this happened here a while back and the Red Cross gave
up on the idea of ever using the club shack and the club's know how on
APRS simple because there was just to much HF traffic (Useless if i may
say). But there are those people that think during heavy weather here in
North Alabama that it's a joke and that this is only a hobby and that we
should not worry to much about human life.

PS: to let some of you folks know i have received many messages in
support of this, but most feel they do not want their messages reposted
to the SIG and i will honor that request, Specially from down the FLGATE
area.

Bill KE4EER

---

205. Re: [APRSSIG:7352] Re: Is this possible???

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 09 Mar 1996 01:35:57 -0800
To: aprssig@tapr.org
Message-ID: <314150FD.7CF7@hiwaay.net>
Rendered body type: text/plain

Brandon Payne wrote:
>
> > You must not have been using APRS for to long like i have, i have seen it
> > several times during a period of heavy weather that we where attempting
> > to use APRS for that community service between the RED+ and the HARC
> > club, but because of the many many HF messages going back and forth it
> > killed that in this area. They didn't use the one line message either!.
> > They used the Bulletin feature to send messages back and forth. IF YOU
> > DON'T SEE ANYTHING WRONG WITH THAT, YOU NEED SOMMEBODY TO TEACH YOU A FEW
> > MANNERS. You may consider this whining but i don't GROW UP!!!.
> >
> > Bill KE4EER
>
> I usually remain silent during these discussions, but I had to bite on
> this one. In most of my ten years as a communicator I have found most

```
> hams to respect a published emergency frequency.  Maybe you might
> consider using an alternate frequency for APRS during your community service
> activities.
>
> Brandon Payne N0HSM
> Firefighter/EMT-----------------------
No thanks Brandon. I fought hard for coordination of 145.790 in North
Alabama when others didn't bother to, so why should i be the one to pack
up and move. Good idea but not a valid one. Thanks Brandon if that was
possible i would.

Bill KE4EER
```

---

206. mACaprs SAVING STATIONS TRACK HISTORY

From: Ron Malinowski <weather@xnet.com>
Date: Sat, 9 Mar 1996 04:08:51 -0600 (CST)
To: APRSSIG@tapr.org
Message-ID: <199603091008.EAA01760@flood.xnet.com>
Rendered body type: text/plain

```
I was wondering, I used to be able to click on a station on MAC Aprs and go
under file and save and save that HST of one station, now I cannot do this,
is it just me, or are others experiencing this also..?
Ron v 2.4.1
```

---

207. Re: [APRSSIG:7351] Good Ol' Boy Icon

From: Martin Smith <msmith4@bayou.uh.edu>
Date: Sat, 09 Mar 1996 05:31:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <01I24GIGYUZU00066P@Post-Office.UH.EDU>
Rendered body type: text/plain

```
At 07:20 PM 3/8/96 -0600, you wrote:
>Wonder if we can add a dog to the bed of that Pickup while Bob is at it ??
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
Yea Thats It..... I was kinda thinkin of a Dead Buck Tied to the Hood!
Gotta have THAT!

Marty WD5DZC
```

---

208. Re: [APRSSIG:7351] Good Ol' Boy Icon

From: KD4EMI@aol.com
Date: Sat, 9 Mar 1996 07:04:50 -0500
To: aprssig@tapr.org
Message-ID: <960309070448_164256005@emout10.mail.aol.com>
Rendered body type: text/plain

```
Actually, can we just get the DOG ICON...
Id prefer a lab retriever looking dog...

My Lab is going to carry my aprs pack when we go camping...

:)
Mike   KD4EMI
```

---

209. Re: [APRSSIG:7332] Re: Is this possible???

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sat, 9 Mar 1996 06:31:13 -0600
To: aprssig@tapr.org
Message-ID: <9603091231.AA22853@omnifest.uwm.edu>
Rendered body type: text/plain

```
>> wb4ltf@aol.com---------------
>You must not have been using APRS for to long like i have, i have seen it
>several times during a period of heavy weather that we where attempting
>to use APRS for that community service between the RED+ and the HARC
>club, but because of the many many HF messages going back and forth it
>killed that in this area. They didn't use the one line message either!.
>They used the Bulletin feature to send messages back and forth. IF YOU

        I can see where that could be a problem if the "gate" was
unattended so it could be turned off.
```

Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu

---

210. Re: [APRSSIG:7325] Re: Is this possible???

From: WB4LTF@aol.com
Date: Sat, 9 Mar 1996 08:42:53 -0500
To: aprssig@tapr.org
Message-ID: <960309084250_345915576@emout08.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-08 12:41:33 EST, you write:

>You must not have been using APRS for to long

Only about 3 years.

>YOU NEED SOMMEBODY TO TEACH YOU A FEW
MANNERS.

Do you THINK you qualify???

Bud
wb4ltf@aol.com
```

---

211. Re: [APRSSIG:7349] Re: HF <-> VHF RE: FLGATE

From: WB4LTF@aol.com
Date: Sat, 9 Mar 1996 08:47:33 -0500
To: aprssig@tapr.org
Message-ID: <960309084732_345917617@emout06.mail.aol.com>
Rendered body type: text/plain

```
Just a quick Question.   I thought we had changed to GATEFL vs FLGATE.
If I'm wrong that could explane why I'm not going thru!!!

Bud
wb4ltf@aol.com
```

---

212. Re: [APRSSIG:7352] Re: Is this possible???

From: WB4LTF@aol.com
Date: Sat, 9 Mar 1996 08:48:31 -0500
To: aprssig@tapr.org
Message-ID: <960309084830_345917629@emout08.mail.aol.com>
Rendered body type: text/plain

```
At the risk of sounding like a pointy - ear'd chacter of the past;

Wouldn't the LOGICAL approch be to ask the local gates to shut down during an
emergency.
This is assuming that the LOCALS talk to each other :-}

Bud
wb4ltf@aol.com
```

---

213. Re: [APRSSIG:7353] Re: Is this possible???

From: WB4LTF@aol.com
Date: Sat, 9 Mar 1996 08:48:37 -0500
To: aprssig@tapr.org
Message-ID: <960309084836_345917642@emout10.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-09 00:37:30 EST, you write:

>Well if it does we
>are prepared in this area to all beacon VHF-->HF, what's good for one is
>good for all i would say.

No there's a novel approach.  If it's broke , brake it worse!
```

---

214. Re: [APRSSIG:7351] Good Ol' Boy Icon

From: WB4LTF@aol.com
Date: Sat, 9 Mar 1996 08:47:28 -0500
To: aprssig@tapr.org
Message-ID: <960309084726_345917621@emout07.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-08 20:55:46 EST, you write:

>Wonder if
```

>we can add a dog to the bed of that Pickup while Bob is at it ??

Thats Houndog Rich and while we're at it a nice 108" whip antenna with a coon
tail and a tennis ball would be nice:-}

Bud
wb4ltf@aol.com

---

215. HF <-> VHF Gates, etc

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 9 Mar 1996 08:52:57 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960309081914.5356A-100000@pinegov>
Rendered body type: text/plain

Why does this subject come up once every three months on this sig?

The primary purpose of APRS is to permit the mobile tracking of GPS stations throughout the United States through a series of digipeaters and gateways. This is why the program was created.

The secondary purpose of APRS is to track weather related events on both a mesoscale and microscale level...as indicated by the large amount of effort in decoding the U-II and U-2000 weather stations and the use in several areas of stand-alone weather reporting stations.

We have been using APRS in the Tampa Bay area since version 1 for both of these purposes quite successfully and I fail to see the problem that other areas are reporting...despite the fact that Pinellas County Florida has the highest number of amateur radio operators per capita in the United States with over 2000 licensed hams in an area of 437 square miles.

We have used APRS to augment ARES drills and excersises and we always use it to augment SKYWARN ops. When traffic gets too heavy, the GATE gets turned off.

And, finally, I spent the better part of my summer uplinking the positions of 24 tropical cyclones in the Atlantic Basin, 19 of which reached named status. These uplinks occurred at the minimum of three times a day...and sometimes six...and thankfully, Peter, W7LUS, helped out when I wasn't available or when band conditions were bad.

Now, you may think these things are a waste of band width...especially the hurricane updates if you live in Minnesota...however; the entire East Coast and Gulf Coast states are effected every year...thats an awful lot of people whose lives can be turned upside down by just one of these weather phenomena.

APRS is NOT intended to replace more conventional packet systems and LAN's. If you want a chat channel...build a CROWD node or just go unproto on a simplex frequency of your choice...or jump onto the IRC bandwagon.

The Florida GATEFL exists to fill an existing void between east and west coasts. The major cities in Florida are just far enough away from each other to restrict reliable VHF comms without a repeater. Remember...we don't have many mountains to put up wide area links. The highest point in Florida is 238 feet, in Jackson County, near Marianna, in the panhandle.

Forty meters is NOT reliable south of 30 degrees N unless you speak fluent Spanish. We receive South American stations, especially broadcast stations, almost 24 hours per day here in the 40 meter range.

So, what's my point? Simple, we all have to work together and be willing to share the frequencies.   Instead of complaining...come up with solutions and work together for the common good.

73 de Kevin KD4UYR
Tampa Bay area, Florida

---

216. Re: [APRSSIG:7351] Good Ol' Boy Icon

From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 10:08:44 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309100932.3b3f1192@mindspring.com>
Rendered body type: text/plain

At 07:20 PM 3/8/96 -0600,Rich wrote:
>Well if we ever get a digi in Glades or Okeechobee County we will need a
Pickup
>Truck Icon with a gun rack!

And don't forget a Harley icon for Daytona (along with a racecar) hehe

---

217. Re: It is Bob's,Mark's and Keith's Fault

From: "Jerry" <jerdptro@xnet.com>
Date: Sat, 9 Mar 1996 09:15:24 +0000
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil, ksproul@hardees.rutgers.edu, sproul@ap.org
Message-ID: <199603091512.JAA16553@flood.xnet.com>
Rendered body type: text/plain

Let us put the gate controversy to rest. I always say that fixing
the blame is more effective that fixing the problem. I chose to put
the blame where it belongs, on Bob Bruninga [BB] and the
Evil Sproul Twins [EST].
How dare they write programs that are obviously to powerful and flexible
to put in the hands of the general public! Their releases should
allow monitoring only. That would totally eliminate the problems
discussed on this SIG. It would be simple code, just a USA map or
perhaps a few local maps with your own station icon on it i.e. dog,
pickup, gunrack, ET, whatever..

They are totally unresponsive to our needs. I think Keith just
changes the version numbers for an update....heck, he even hid the
fact that you can open more than one window at a time on the mac. And
look at the "simple" problem Bob can't fix, namely, running 72 ports on an
8088. I won't even pick on Mark, he admit's openly, "I don't know
anything about windows." Such a shame. How did they ever get their
license's. Speaking of which, I have been watching with glee the
SIGS regarding HF<> GATES. I propose a 160 meter, 10 watt hf gate.
That should take care of the HF jamming up the VHF. During the
recent tornado drill in the Chicago area, the 30meter gate killed all
the traffic on VHF (I think there was one HF spot, if any during the drill)

And to those in the Chicagoland area who enjoy seeing the spots on
VHF via the gate, I say phooey!! How dare you ask me to contribute
to your viewing enjoyment! Starting today, there will be a .25 per
posit fee for watching HF spots on VHF.

You may submit your two bits to me via Cyber Currency. Believe me,
it will be more useful than your giving me your two cents.

Please contact the authors and insist they be responsible. Put an
end to the wreckless way they release their shareware. Don't send
them a Cristmas card...and above all, those on VHF please put
WIDE,WIDE,GATE,GATE,WIDE,WIDE in your path, even when talking to the
new guy two blocks away. The power company here loves that. Oh, lest
i forget, flatlanders remember, run at least 80watts with complex
routing with WIDE at the end, does a nice job of killing the aprs
net. See, if the code was RIGHT we wouldn't have these problems.

Just a thought

Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

---

218. Re: [APRSSIG:7358] Re: Good Ol' Boy Icon

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 07:45:02 -0800
To: aprssig@tapr.org
Message-ID: <199603091545.HAA08039@sprynet.com>
Rendered body type: text/plain

Don't forget the rusted out toolbox and a wooden hutch for the huntin' dawgs....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

219. Re: [APRSSIG:7364] Re: Is this possible???

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 07:47:25 -0800
To: aprssig@tapr.org
Message-ID: <199603091547.HAA08281@sprynet.com>
Rendered body type: text/plain

```
Or, more appropriately.....

If we can't play with the way WE want to, then we'll make it so nobody can play
with it!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

220. Re: [APRSSIG:7363] Re: Is this possible???

From: jleonard@tbcnet.com (John B. Leonard)
Date: Sat, 9 Mar 1996 09:49:07 -0600
To: aprssig@tapr.org
Message-ID: <199603091549.JAA06372@tbc2.tbcnet.com>
Rendered body type: text/plain

```
>Why does this subject come up once every three months on this sig?

BECAUSE IT AIN'T RESOLVED TO EVERYBODY'S SATISFACTION, THAT'S WHY.  ALSO,
THE UNIVERSE OF APRS USERS IS CONSTANTLY CHANGING.

>The primary purpose of APRS is to permit the mobile tracking of GPS
>stations throughout the United States through a series of digipeaters and
>gateways.  This is why the program was created.
>
>The secondary purpose of APRS is to track weather related events on both
>a mesoscale and microscale level...as indicated by the large amount of
>effort in decoding the U-II and U-2000 weather stations and the use in
>several areas of stand-alone weather reporting stations.
>

(snip)

>So, what's my point?  Simple, we all have to work together and be willing
>to share the frequencies.   Instead of complaining...come up with
>solutions and work together for the common good.
>
>73 de Kevin KD4UYR
>Tampa Bay area, Florida
>

Let's take this further...

Assume that the GATE-keeper is unavailable during an emergency (and face it,
most emergencies can't be predicted), if the GATE were a REMOTEly-controlled
TNC (ala KPC-3, ver. 6) then one or more parties within the Skywarn net
would have the remote access code to shut it down during WX emergencies.

And the primary purpose of APRS may different to you in FL than to me in
CornCounty IL, than to W7LUS.  I would suggest one read the APRS docs to
find out what Bob APR had in mind when he started this.

Thots, anyone?

73
jbl

>At the risk of sounding like a pointy - ear'd chacter of the past;
>
>Wouldn't the LOGICAL approch be to ask the local gates to shut down during an
>emergency.
>This is assuming that the LOCALS talk to each other :-}
>
>Bud
>wb4ltf@aol.com
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
```

```
E-MAIL:  jleonard@tbcnet.com
KARC Hamfest Web Page at
http://tbcnet.com/~jleonard/hamfest.htm
```

---

221. Re: [APRSSIG:7366] APRSSIG digest?

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Sat, 09 Mar 1996 11:27:59 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960309162759.1adfcba6@sun.lssu.edu>
Rendered body type: text/plain

```
Are the APRSSIG articles available in digest form? If so where? TIA.

                                         Pete, wa4hei
```

---

222. Re: [APRSSIG:7368] Re: It is Bob's,Mark's and Keith's Fault

From: KD4EMI@aol.com
Date: Sat, 9 Mar 1996 11:30:12 -0500
To: aprssig@tapr.org
Message-ID: <960309113011_442051862@emout10.mail.aol.com>
Rendered body type: text/plain

```
That was really funny !

MIke
```

---

223. Re: [APRSSIG:7286] Re: EME for everyone

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 9 Mar 1996 11:29:42 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9603091107.A28961-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Hmmmmm....  How does the doppler give you an angle measurement?  I can
understand the speed measurement, but not the angle.  However if, as you
say, you can measure speed and angle then than will infer velocity  and
then that, with position and time, will provide the needed data to update
the keps.


William Manley KB4XE
z002594b@bcfreenet.seflin.lib.fl.us
http: //ourworld.compuserve.com/homepages/bmanley

On Thu, 7 Mar 1996, Bob Bruninga wrote:

> WB4APR REPLY COMMENT:  It is one of the PRMARY means that NORAD uses for
> generating the KEPS for the 7000 objects hurteling through space around
> this planet.  The precise time of the PING tells you when the object
> crossed the fence, the doppler tells you at what angle and speed, using a
> phased array receive antenna tells you WHERE it crossed the fence,and
> with that info you can UPDATE the keps.
```

---

224. Hawaii heard on East Coast!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 11:38:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309113545.4439A-100000@greatlakes>
Rendered body type: text/plain

```
Noticed one packet this AM from Oahu digipeater KH6HH-15.  Quite a long haul
for 10 MHz from Hawaii to Maryland....

Are their other DIGIs that should be in the DIGIWEST.bk file?
```

---

225. Re: [APRSSIG:7361] Re: Is this possible???

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 09 Mar 1996 10:49:27 -0800
To: aprssig@tapr.org
Message-ID: <3141D2B7.2DE8@hiwaay.net>
Rendered body type: text/plain

```
WB4LTF@aol.com wrote:
>
> In a message dated 96-03-08 12:41:33 EST, you write:
>
> >You must not have been using APRS for to long
```

```
>
> Only about 3 years.
>
> >YOU NEED SOMMEBODY TO TEACH YOU A FEW
> MANNERS.
>
> Do you THINK you qualify???
>
> Bud
> wb4ltf@aol.com----------------------------
YES,YES,YES I believe so!

Bill KE4EER
```

---

226. Re: [APRSSIG:7363] Re: Is this possible???

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 09 Mar 1996 10:51:33 -0800
To: aprssig@tapr.org
Message-ID: <3141D335.182@hiwaay.net>
Rendered body type: text/plain

```
WB4LTF@aol.com wrote:
>
> At the risk of sounding like a pointy - ear'd chacter of the past;
>
> Wouldn't the LOGICAL approch be to ask the local gates to shut down during an
> emergency.
> This is assuming that the LOCALS talk to each other :-}
>
> Bud
> wb4ltf@aol.com-----------------------
Above is another missconception. Nobody knows who runs a gate and who
doesn't there's no way of telling. If you know how to tell clue us all in
on this!.

Bill KE4EER
```

---

227. Re: [APRSSIG:7366] HF <-> VHF Gates, etc

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 09 Mar 1996 11:04:34 -0800
To: aprssig@tapr.org
Message-ID: <3141D642.4130@hiwaay.net>
Rendered body type: text/plain

```
Kevin Heyboer wrote:
>
> Why does this subject come up once every three months on this sig?
>
> The primary purpose of APRS is to permit the mobile tracking of GPS
> stations throughout the United States through a series of digipeaters and
> gateways.  This is why the program was created.
>
> The secondary purpose of APRS is to track weather related events on both
> a mesoscale and microscale level...as indicated by the large amount of
> effort in decoding the U-II and U-2000 weather stations and the use in
> several areas of stand-alone weather reporting stations.
>
> We have been using APRS in the Tampa Bay area since version 1 for both of
> these purposes quite successfully and I fail to see the problem that
> other areas are reporting...despite the fact that Pinellas County Florida
> has the highest number of amateur radio operators per capita in the
> United States with over 2000 licensed hams in an area of 437 square miles.
>
> We have used APRS to augment ARES drills and excersises and we always use
> it to augment SKYWARN ops.  When traffic gets too heavy, the GATE gets
> turned off.
>
> And, finally, I spent the better part of my summer uplinking the
> positions of 24 tropical cyclones in the Atlantic Basin, 19 of which
> reached named status.  These uplinks occurred at the minimum of three
> times a day...and sometimes six...and thankfully, Peter, W7LUS, helped
> out when I wasn't available or when band conditions were bad.
>
> Now, you may think these things are a waste of band width...especially
> the hurricane updates if you live in Minnesota...however; the entire East
> Coast and Gulf Coast states are effected every year...thats an awful lot
> of people whose lives can be turned upside down by just one of these
> weather phenomena.
>
```

> APRS is NOT intended to replace more conventional packet systems and
> LAN's. If you want a chat channel...build a CROWD node or just go
> unproto on a simplex frequency of your choice...or jump onto the IRC
> bandwagon.
>
> The Florida GATEFL exists to fill an existing void between east and west
> coasts. The major cities in Florida are just far enough away from each
> other to restrict reliable VHF comms without a repeater. Remember...we
> don't have many mountains to put up wide area links. The highest point
> in Florida is 238 feet, in Jackson County, near Marianna, in the panhandle.
>
> Forty meters is NOT reliable south of 30 degrees N unless you speak
> fluent Spanish. We receive South American stations, especially broadcast
> stations, almost 24 hours per day here in the 40 meter range.
>
> So, what's my point? Simple, we all have to work together and be willing
> to share the frequencies.   Instead of complaining...come up with
> solutions and work together for the common good.
>
> 73 de Kevin KD4UYR
> Tampa Bay area, Florida-----------------------------

Kevin i aggree with most of what you are saying. Upto this point i
haven't mentioned any name or calls, but since you used W7LUS in your
message i will also. He was the biggest abuser of having a gate and then
using that gate and the APRS Bulletin function to keyboard with another
APRS Sig user in Michigan untill our plans for local support to the Red+
was totally wiped out during a local tornado warning.

You asked for a solution, well i think it should be written into the
software if at all possible that when a person is running a gate from Hf
to VHF that somehow that person's position is shown as such!. Right now
and i say this over and over but nobody understands THERE'S NO WAY TO
TELL WHO'S RUNNING A GATE (Or the so called local GATE). How can you
shoot at something you can't see???

Bill KE4EER

---

228. Re: [APRSSIG:7328] Nautical charts

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 12:09:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309120351.4439C-100000@greatlakes>
Rendered body type: text/plain

On Fri, 8 Mar 1996, W. Ronald Gentry wrote:

> Can anyone tell me the best source for nautical charts on CD ROM?

WB4APR REPLY COMMENT: I dont know if you saw my earlier posting about
the CAPN software. It is a full featured professional NAVIGATION program
that uses the BIT IMMAGE nautical charts that are now becomming
standard. The neat thing, is that they are comitted to working with us
(Dos, Win, Mac APRS) on an APRS interface!

Sorry, but I dont have their address or info here at home, but will try
to post it here Monday.

---

229. I have your address wrong

From: Scott Miller <scottm@sierra.net>
Date: Sat, 09 Mar 1996 08:38:45 -0800
To: aprssig@tapr.org
Message-ID: <3141B415.1B6D@sierra.net>
Rendered body type: text/plain

AL Z N3KAE,
please straighten me out. I have returned mail for you.
73 Scott Miller

---

230. Re: [APRSSIG:7339] Re: Mobile station - VHF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 12:24:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309122039.4439F-100000@greatlakes>
Rendered body type: text/plain

On Fri, 8 Mar 1996, Gerald J Creager wrote:

> I, for one, support the call for an icon of a pickup with the

> "Easy-Rider-Rifle-Rack!"

WB4APR REPLY COMMENT: In my next version, I am changing my TRUCK display to a PICKUP. I have proposed to Sproul Bros to change the current generic shape currently represented by the lower case letter "u" to represent large 18 wheelers... If they agree, then we will have both BIG trucks and little trucks. In APRSdos, the default SSID that implies TRUCK, will represent the little truck.

---

231. Re: [APRSSIG:7341] Re: EME for everyone

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 12:31:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309122637.4439G-100000@greatlakes>
Rendered body type: text/plain

On Fri, 8 Mar 1996 KD4EMI@aol.com wrote about the NAVY radar beam:

> I thought that the air farce is tracking objects optically..?
> (Both from land and air based telescopes)
> Besides, whats the beamwidth on a device like that ? If I knew that,
> then I could understand it better. A large beam width would make sense.
> I was picturing a small "BEAM" and it wasnt making sense.

WB4APR REPLY COMMENT: Yep, it is an EAST horison to West horizon beam that is much less than 1 degree wide. It is foremd by hundreds of simple 217 MHz diopoles in a single north south line over a mile long. So it radiates a very very narrow beam in the N/S direction but an OMNI pattern in the E/W diretion. Therefore it forms a thin RF fence of CW engergy, through which satelites fly.

---

232. Re: [APRSSIG:7347] Re: HF <-> VHF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 13:11:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309130730.4637A-100000@greatlakes>
Rendered body type: text/plain

On Fri, 8 Mar 1996, John B. Leonard wrote:

> Last night various APRS users in the Chicago area participated in a Severe
> Wx/Tornado Drill. My job was to put the WX on the screen, with warnings,
> etc. They (the participants) checked in and did all kinds of APRS/Skywarn
> things. The drill lasted from 7 til 7:40pm.
>
> If we had a GATE operating in the area, the drill would have been fighting
> against the hf "noise" coming in.

WB4APR REPLY COMMENT: I dont understand. I thought there were THREET GATES in the Chicago area. Apparently the "QRM" from them is so little, that you didnt even notiice they were there?

---

233. HF gate solution

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 13:44:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309133642.4637E-100000@greatlakes>
Rendered body type: text/plain

On Sat, 9 Mar 1996, someone wrote concenrning just turning the GATE off when you are doing a special event.....

> I can see where that could be a problem if the "gate" was
> unattended so it could be turned off.

WB4APR REPLY COMMENT: Come on guys, instead of complaining, think about a solution. That is the fun of HAM radio. Here is what I would do with one transistor and one resistor:

Connect the VHF CONNECT LED of the GATE's dual port TNC through a 1 K resistor to the base of an NPN transistor. Connect the Emitter to ground. COnnect the collector to the AUDIO from the HF receiver which is going to the HF port of the TNC.

NOW, whenever anyone wants to "silence" the gate, they simply connect to the VHF side of the GATE. As long as that connection is in place, the dual port station will not HEAR any HF stuff to gateway. The GATEway sysop should set the parameters in his TNC so that this connection will

TIMEOUT after a reasonable time. (1 hour?)

---

234. Re: [APRSSIG:7368] Re: It is Bob's,Mark's and Keith's Fault

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Sat, 09 Mar 1996 13:57:41 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960309185741.251fcb7a@sun.lssu.edu>
Rendered body type: text/plain

At 09:29 AM 3/9/96 -0600, you wrote:
>Let us put the gate controversy to rest. I always say that fixing
>the blame is more effective that fixing the problem. I chose to put
>the blame where it belongs, on Bob Bruninga [BB] and the
>Evil Sproul Twins [EST].

Well said. Hang 'em!

Pete, wa4hei

---

235. Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 14:12:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309140026.4637H-100000@greatlakes>
Rendered body type: text/plain

On Sat, 9 Mar 1996, William Nolle wrote:

> You asked for a solution, well i think it should be written into the
> software if at all possible that when a person is running a gate from Hf
> to VHF that somehow that person's position is shown as such!.

WB4APR REPLY COMMENT: Bill makes a good point. ANY GATE must in
fairness to all in his area, beacon his GATEway symbol on VHF.
You see, the GATE function is totally a TNC function. APRS has no
knowledge that it is connected to a TNC that happens to have GATEway
enabled. If APRS is NOT running, then the TNC will naturally beacon on
BOTH HF and VHF, its position and its GATE symbol. The problem is, that
while APRS is running, it takes over the BEACON function from the TNC and
sets BEACON EVERY to 0, so that the TNC BTEXT and APRS BText do NOT both
get transmitted. But APRSdos only beacons on the band
Selected, NOT ON BOTH. There are 2 solutions:

Any GATE operator shuld use OCT mode and change his TNC BEACON to every
10 minutes on VHF (APRS will have set it to 0). He will have to do this
every time he runs APRS. (This has been long recommended in HF.TXT)

I should be able to modify APRS to do this automatically... Here is what
I will do. If you have told APRS that you are runnig dual port, I will
send out BEACON EVERY 0/10 instead of the current BEACON EVERY 0. I know
this will work on the KAM, will that do the job on all other dual ports?

---

236. Re: [APRSSIG:7328] Nautical charts

From: hsgentry@cstone.net (Sam Gentry)
Date: Sat, 09 Mar 1996 14:50:53 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.32.19960309195053.00673a30@cstone.net>
Rendered body type: text/plain

NOAA sells almost all (by now probably all) the US waters paper charts on
CD. They should be available from any fairly large chart supplier or chart
agent who sells paper charts. These are RASTER SCAN charts and I think a
viewer is available on the CD. Several companies (including my company)
sell navigation packages that will display these charts and place your ship
on the chart using GPS or other position source. The charts are actually
produced and distributed by a private (non government) company. I can't
remember the name, but this should not matter. Check with your chart
supplier or call NOAA.

Sam

At 01:12 PM 3/8/96 -0600, you wrote:
>Can anyone tell me the best source for nautical charts on CD ROM?
>
>Thanks,
>
>Ron
>

```
>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>W. Ronald Gentry
>Department of Chemistry
>University of Minnesota
>207 Pleasant St. SE, A-14
>Minneapolis, MN  55455
>   E-Mail:  gentry@chemsun.chem.umn.edu
>   Telephone:  612-625-2894, 612-624-6000
>   TeleFax:    612-626-8659
>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>
>
```

---

237. Re: [APRSSIG:7291] Bandpass filters

From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 15:16:49 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309151652.37a7736c@mindspring.com>
Rendered body type: text/plain

```
John Munsey wrote:

>Help!  Several weeks ago there was considerable traffic about 2 meter
>bandpass filters that sold for about $90.00  I would like to purchace a
>couple but have lost the address.

John -
Many people have sent you the info on DCI, and they make an excellent
product.  It is a bandpass filter as you mention.  I know Ralph Olds, the
owner of DCI and vouch for his products.

I saw another interesting product at the Miami Hamfest.  It is a notch
filter by PAR Electronics of Lantana FL.  Cost is 59.00 and it is about 3"
square and 1" high.  This is microscopic compared to the DCI.

The way it works is:  On 2 meters, much of the garbage you hear comes from
pagers and pther transmitters in the 151-152 MHz band.  The filter notches
this section of band out of your receiver.  It is transparent to all other
frequencies, including 440.  The notch is at least 45 dB, I think.  This
seems to cure the intermod problem in the areas in which I tried it (Miami,
Tampa, Orlando).  I will try it in Atlanta when I come home from this long
road trip.

I haven't bench tested it, but PAR had an analyzer at their booth hooked up
to one.  It showed only about .1 to .3 dB insertion loss!  Notch depth was
as advertised.

I wouldn't have bought it spontaneously, but on the second day of the
hamfest, I was hanging around the booth and 6 different people came up and
told him that they had bought on Saturday and were amazed at the results.

If your interference is pagers, I would look into this device.  The DCI, of
course, is a different design and is designed to pass only 2 meters (the
whole band).  Both of them are excellent products.

I hope to try both of them at a digi site between my pass cavity and my antenna.

Oh 1 more thing.  I tried this test at my hotel.

152.48   Pager transmitter received at full scale.  I inserted the filter
and the signal dropped to less than 1 bar on the S meter.  Notw THAT is
attenuation!!


73

Ralph
```

---

238. Re: [APRSSIG:7315] Re: DIGIPEATERS and Torch

From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 15:16:52 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309151654.35cf272a@mindspring.com>
Rendered body type: text/plain

```
At 12:23 AM 3/8/96 -0600, you wrote:
>> Date:          Thu, 7 Mar 1996 09:47:38 -0600 (CST)
>> Reply-to:      aprssig@tapr.org
>> From:          Bob Bruninga <bruninga@nadn.navy.mil>
```

```
>> To:           aprssig@tapr.org
>> Subject:      [APRSSIG:7287] Re: DIGIPEATERS and Torch
>
>> On Thu, 7 Mar 1996, Earl Boatman KB0NRK wrote:
>>
>> > Where can I get a copy of the file torchc.bk?.
>> > The ship that i work  on has been asked to carry the torch into
>> > Savannah.    If we go I will  need a ship icon (three masted barque)
>>
>> WB4APR REPLY COMMENT:  Consider it done!  Tell me more.  How far do you
>> carry the torch?  Across the ocean?  WHere do you carry it FROM?
>> To Savannah GA?  Or is this just a cermenoial go out at dark and come
>> back in with the lights on?
>>
>> The TORCHw.BK and TORCHc.bk files should be on the tapr site.  Still
>> working on the TORCHe.  If not, tell me...
>>
>>
>Bob I can't find torchc.bk at TAPR can you email it to me?.
>If you look at the torch pict you can see where it (the trail) leaves
>the coast at St Pete's FL. I understand that a USCG cutter will pick
>up the torch and tranfere it somewhere off of Savannah and we will
>take it in to port.  ( I Hope) ; ^ ).
>
>I have some APRS questions?.  We will be no more than 100nm off the
>coast at any time, will 10m or 6m do for tracking the ship from the
>land?.  And tracking the torch from the ship?.  As I thank it will be to
>far for VHF (in July ).  Or will I need to up my code speed : ^ ).
>
>BTW the Elissa was in Savannah in 1894.  Yes that's 102 years ago.
>
>
>_______________________________________________________
>Earl A. Boatman KB0NRK              Barque Elissa
>eboatman@mail.phoenix.net           Three Masted, 202ft
>1414 winnie                         Pier 21
>Galveston, TX, 77550                Galveston, TX.
>(409) 762-2098                      (409) 763-1877
>_______________________________________________________
>
>
```

---

239. Re: [APRSSIG:7374] Re: EME for everyone

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 9 Mar 96 15:19:16 -0500
To: <aprssig@tapr.org>
Message-ID: <199603092017.PAA12542@newworld.bridge.net>
Rendered body type: text/plain

```
>Hmmmmm....  How does the doppler give you an angle measurement?  I can
>understand the speed measurement, but not the angle.  However if, as you
>say, you can measure speed and angle then than will infer velocity  and
>then that, with position and time, will provide the needed data to update
>the keps.
>
Think of it as GPS in reverse....one unknown "transmitter", the bounced
signal from the satellite, and multiple known recievers. By comparing the
doppler and time of arrival at 3 different places you get an exact fix
and speed vectors (remember one demension is known because of the planar
nature of the signal. Add more recievers and the fix gets better.

Steve KO4HD
```

---

240. Re: [APRSSIG:7376] Re: Is this possible???

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 12:28:07 -0800
To: aprssig@tapr.org
Message-ID: <199603092028.MAA04671@sprynet.com>
Rendered body type: text/plain

```
On Sat, 9 Mar 1996, William Nolle <ke4eer@hiwaay.net> wrote:
>WB4LTF@aol.com wrote:
>>
>> In a message dated 96-03-08 12:41:33 EST, you write:
>>
>> >You must not have been using APRS for to long
>>
>> Only about 3 years.
>>
```

```
>> >YOU NEED SOMMEBODY TO TEACH YOU A FEW
>> MANNERS.
>>
>> Do you THINK you qualify???
>>
>> Bud
>> wb4ltf@aol.com----------------------------
>YES,YES,YES I believe so!
>
>Bill KE4EER
>

Oh, shut up already.
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

241. Re: [APRSSIG:7377] Re: Is this possible???

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 12:31:06 -0800
To: aprssig@tapr.org
Message-ID: <199603092031.MAA05068@sprynet.com>
Rendered body type: text/plain

```
On Sat, 9 Mar 1996, William Nolle <ke4eer@hiwaay.net> wrote:
>WB4LTF@aol.com wrote:
>>
>> At the risk of sounding like a pointy - ear'd chacter of the past;
>>
>> Wouldn't the LOGICAL approch be to ask the local gates to shut down during an
>> emergency.
>> This is assuming that the LOCALS talk to each other :-}
>>
>> Bud
>> wb4ltf@aol.com----------------------
>Above is another missconception. Nobody knows who runs a gate and who
>doesn't there's no way of telling. If you know how to tell clue us all in
>on this!.
>
>Bill KE4EER
>

All you have to do is look at the ID and see whose ID string says GATE/G!!!  I
can't believe that there are those people out there who claim to have extensive
packet/APRS experience that don't know what they're looking at as it scrolls by
on the screen!!!

Bill:  That's not NECESSARILY intended for you...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

242. Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 12:33:15 -0800
To: aprssig@tapr.org
Message-ID: <199603092033.MAA05367@sprynet.com>
Rendered body type: text/plain

```
<BIG SNIP>
Right now
>and i say this over and over but nobody understands THERE'S NO WAY TO
>TELL WHO'S RUNNING A GATE (Or the so called local GATE). How can you
>shoot at something you can't see???
>
>Bill KE4EER

Oh, Sweet Jeeeezuz!  Now he's going to go around shooting people who run
gates!!!
>
>
```

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

243. Re: [APRSSIG:7381] Re: Mobile station - VHF

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 12:34:38 -0800
To: aprssig@tapr.org
Message-ID: <199603092034.MAA05594@sprynet.com>
Rendered body type: text/plain

Just don't forget the houndawg, gun rack and open container, Bob!!! <snicker>

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

244. Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc

From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 15:39:08 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309153911.2eafc210@mindspring.com>
Rendered body type: text/plain

<snip>

>Right now
>and i say this over and over but nobody understands THERE'S NO WAY TO
>TELL WHO'S RUNNING A GATE (Or the so called local GATE). How can you
>shoot at something you can't see???
>
>Bill KE4EER
>

For what it is worth, The GATE I saw in Sanford, FL was using the diamond
symbol on the APRS map. And the one in Souh Atlanta puts VHF<>HF Gateway in
his comments. I have seen it done several ways, but *mostly* the folks
make it known they are a GATE.

Ralph

---

245. (no subject)

From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 15:44:53 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309154456.2f577d74@mindspring.com>
Rendered body type: text/plain

Folks, I have a question...

Maybe I am overlooking something, but I have read the KPC-3 manual several
times and not seen anything contrary to this.

When I leave a message to ALL on the mailbox in one of our KPC3 APRS digis,
the PBS will not let anyone else read it but me. It Carries the flag of PN
which means "private" and "not yet forwarded".

Is there any way these bulletins can be made public when they are left? Is
it a seting in a manual supplement I don't have or something like that? I'm
using 6.0 firmware.

These bulletins are for the general info of local APRS users and I only
recently discovered that no one could see them except for me!

Thanks, and please answer here on the SIG.

BTW- The KPC 9600/1200 tnc that was on a node about a year ago had
bulletins that ALL could see.

Ralph N4NEQ

246. Olympic Torch Relay Map

```
From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 15:55:29 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309155531.2f5756d2@mindspring.com>
Rendered body type: text/plain
```

```
I have uploaded to TAPR.ORG a file called torch.zip.  It is 126K in size and
contains a file called torchrun.bmp.  It is a 640x480x256 color bmp file
suitable for use as a Windows wallpaper scene.  It is the official map of
the Olympic Torch Relay and was produced by its presenter, Coca-Cola.

Ralph  N4NEQ
```

---

247. Re: [APRSSIG:7384] HF gate solution

```
From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 13:06:07 -0800
To: aprssig@tapr.org
Message-ID: <199603092106.NAA09121@sprynet.com>
Rendered body type: text/plain
```

```
Now HERE'S a GREAT IDEA!  (just don't be within range of KE4EER if you do this!)

On Sat, 9 Mar 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>On Sat, 9 Mar 1996, someone wrote concenrning just turning
>the GATE off when you are doing a special event.....
>
>>         I can see where that could be a problem if the "gate" was
>> unattended so it could be turned off.
>
>WB4APR REPLY COMMENT:  Come on guys, instead of complaining, think about
>a solution.  That is the fun of HAM radio.  Here is what I would do with
>one transistor and one resistor:
>
>Connect the VHF CONNECT LED of the GATE's dual port TNC through a 1 K
>resistor to the base of an NPN transistor.  Connect the Emitter to
>ground.  COnnect the collector to the AUDIO from the HF receiver which is
>going to the HF port of the TNC.
>
>NOW, whenever anyone wants to "silence" the gate, they simply connect to
>the VHF side of the GATE.  As long as that connection is in place, the
>dual port station will not HEAR any HF stuff to gateway.  The GATEway
>sysop should set the parameters in his TNC so that this connection will
>TIMEOUT after a reasonable time.  (1 hour?)
>
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

248. Re: [APRSSIG:7342] KAM UPGRADE

```
From: ronalda@InterLink.NET (ronalda)
Date: Sat, 09 Mar 1996 16:32:35 -0500
To: aprssig@tapr.org
Message-ID: <9603092130.AA27000@InterLink.NET>
Rendered body type: text/plain
```

```
>Anyone got a 5.0 chip for their KAM laying around they dont want ?
>I would like to get a later version from my 3.1 KAM.
>
>Mike
>KD4EMI@AOL.COM
>I have a 6.0 chip on hand is it ok for you.

                         Ronald VE2JOR  73's
>
>
```

---

249. Re: [APRSSIG:7367] Re: Good Ol' Boy Icon

```
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 9 Mar 1996 16:46:01 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309164536.6749D-100000@pinegov>
Rendered body type: text/plain
```

On Sat, 9 Mar 1996, rwf wrote:

> At 07:20 PM 3/8/96 -0600,Rich wrote:
> >Well if we ever get a digi in Glades or Okeechobee County we will need a
> Pickup
> >Truck Icon with a gun rack!
>
> And don't forget a Harley icon for Daytona (along with a racecar) hehe
>
>
Oh yes, we will need the racecar for Sebring too.....!!!

---

250. Re: [APRSSIG:7377] Re: Is this possible???

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 9 Mar 1996 16:50:49 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309164812.6749E-100000@pinegov>
Rendered body type: text/plain

On Sat, 9 Mar 1996, William Nolle wrote:

> WB4LTF@aol.com wrote:
> >
> > At the risk of sounding like a pointy - ear'd chacter of the past;
> >
> > Wouldn't the LOGICAL approch be to ask the local gates to shut down during an
> > emergency.
> > This is assuming that the LOCALS talk to each other :-}
> >
> > Bud
> > wb4ltf@aol.com-----------------------
> Above is another missconception. Nobody knows who runs a gate and who
> doesn't there's no way of telling. If you know how to tell clue us all in
> on this!.
>
> Bill KE4EER
>
>
Bill, I have said it before, I'll say it again,,,the GATE must ID sooner
or later....generally once every 10 mins....elsewise its time to get the
DF team on alert...

My ID string is:

KD4UYR>ID KD4UYR KD4UYR-1/M ECHO/D GATEFL/G KD4UYR-7/N

Look through your beacon list and find it!

de KD4UYR

---

251. Ground Team/Dog Team

From: William Neal <wmn3@dfw.net>
Date: Sat, 9 Mar 96 15:57:20 CST
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309155130.1e474780@dfw.net>
Rendered body type: text/plain

Talking about new symbols ect..

I'm about to implement APRS in a local search team, First Response Search
and Rescue (FRSAR), here in the DFW area. We are a NASAR, RACES, and
SKYWARN affiliated bunch and can see some good uses for APRS. *Most* of
FRSAR searches to date have dealt with Alzhimers patients who wander away
from the nursing home. So, our search area is typically within .6 to one
mile of the place last seen (aka nursing home).

I am interested in some _SMALL_ symbol to show a search team or dog search
team. A dog? Person or Backpack? I don't know. I don't even know if it's
worth the effort.

Bob's present work on boxes/circles with a number/letter would work ok too.
In fact, this is the way I'm going to do it. That way he (or someone)
doesn't even have to work on a new symbol.

Just as soon as the IRS coughs up my money, look for me in Fort Worth on
145.790MHz (n0nsa-0 or n5xpg-0) going/coming to Hurst and NAS Ft Worth JRB
(formerly Carswel AFB). Now to check on Paccomm's prices....

Cheers, Bill

```
William Neal, Sgt, USAF (Ret.)
----------------------------------------
wmn3@dfw.net *** n0nsa@n5aux.tx.usa.noam
Home 817-788-8550 *** Page 817-452-9787
----------------------------------------
Retired at age 31!  As the lady on the Church's commercial say's, "Gotta Luv
It".
```

---

252. Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 9 Mar 1996 16:58:40 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309165501.6749F-100000@pinegov>
Rendered body type: text/plain

```
Make up your mind Bill...either you know who the GATE is, or you
don't...remember that a GATE station will generally have a listed path of
GATE,WIDE or DIGI,GATE,WIDE while a VHF station using a GATE with have
WIDE,GATE,GATE,WIDE....just for grins Im gonna see if I can send you a
message through your hidden gate....

Kevin
```

---

253. Re: [APRSSIG:7396]

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 9 Mar 96 17:55:25 -0500
To: <aprssig@tapr.org>
Message-ID: <199603092253.RAA21579@newworld.bridge.net>
Rendered body type: text/plain

```
>Folks, I have a question...
>
>Maybe I am overlooking something, but I have read the KPC-3 manual several
>times and not seen anything contrary to this.
>
>When I leave a message to ALL on the mailbox in one of our KPC3 APRS digis,
>the PBS will not let anyone else read it but me.  It Carries the flag of PN
>which means "private" and "not yet forwarded".
>
>Is there any way these bulletins can be made public when they are left?  Is
>it a seting in a manual supplement I don't have or something like that?  I'm
>using 6.0 firmware.
>
>These bulletins are for the general info of local APRS users and I only
>recently discovered that no one could see them except for me!
>
>Thanks, and please answer here on the SIG.
>
>BTW-  The KPC 9600/1200 tnc that was on a node about a year ago had
>bulletins that ALL could see.
>
>Ralph  N4NEQ
Use SB (Send Bulletin insead of just S (which is really Send Private).

Steve KO4HD
```

---

254. Re: [APRSSIG:7396]

From: Dave Kaplan <dkaplan@pionet.net>
Date: Sat, 9 Mar 1996 17:14:16 -0600
To: aprssig@tapr.org
Message-ID: <9603092314.AA32535@ELWOOD.pionet.net>
Rendered body type: text/plain

```
>Maybe I am overlooking something, but I have read the KPC-3 manual several
>times and not seen anything contrary to this.

Ralph, Look at 68 of the KPC Manual dated July 1, 1992


>When I leave a message to ALL on the mailbox in one of our KPC3 APRS digis,
>the PBS will not let anyone else read it but me.  It Carries the flag of PN
>which means "private" and "not yet forwarded".

Corrrect, Private means that only the SYSOP and person the message is
addressed to (in this case callsign ALL) can read the message.


>
```

>Is there any way these bulletins can be made public when they are left? Is
>it a seting in a manual supplement I don't have or something like that? I'm
>using 6.0 firmware.
>

Use SB (send bulletin) rather than SP (send private) any it will work.

Dave
WB0WNX Ham
NHQ151 Cap

---

255. Re: [APRSSIG:7396] KPC-3 Held messages

From: jack swift <jswift@up.net>
Date: Sat, 09 Mar 1996 18:45:48 -0500
To: aprssig@tapr.org
Message-ID: <9603092348.AA05150@btc1>
Rendered body type: text/plain

there is a command for the kpc-3 that has all incoming messages 'held'...
"PBHOld ON|OFF
 default ON
 When ON, any message received over the radio will automatically be held by
your PBBS for review.
 <snip> Note that any message addressed TO or @ your MYCALL or MYPBBS will
always be held."

It's new in version 5.1

At 02:55 PM EST 3/9/96 -0600, rwf wrote:
>Folks, I have a question...
>
>Maybe I am overlooking something, but I have read the KPC-3 manual several
>times and not seen anything contrary to this.
>
>When I leave a message to ALL on the mailbox in one of our KPC3 APRS digis,
>the PBS will not let anyone else read it but me. It Carries the flag of PN
>which means "private" and "not yet forwarded".
>
>Is there any way these bulletins can be made public when they are left? Is
>it a seting in a manual supplement I don't have or something like that? I'm
>using 6.0 firmware.
>
>These bulletins are for the general info of local APRS users and I only
>recently discovered that no one could see them except for me!
>
>Thanks, and please answer here on the SIG.
>
>BTW- The KPC 9600/1200 tnc that was on a node about a year ago had
>bulletins that ALL could see.
>
>Ralph N4NEQ
>
>

```
--------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

256. Re: [APRSSIG:7398] Re: HF gate solution

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 09 Mar 1996 18:40:44 -0800
To: aprssig@tapr.org
Message-ID: <3142412C.4D55@hiwaay.net>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Now HERE'S a GREAT IDEA! (just don't be within range of KE4EER if you do this!)
> ------------
Well your within my range if you are in Southern TN,Nearly all of AL, and
a big part of GA,MS. And maybe more soon when i add 2 more 13B2's to my
already stacked 13B2's and of course i'm looking to trade in my 300W
Mirage for a 600W one....

Bill KE4EER

Bill KE4EER

---

257. Maxon TX Radios

From: Miami Network <0004818186@mcimail.com>
Date: Sat, 9 Mar 96 20:01 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <21960310010112/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

A message was posted about 3 or 4 days ago and it got by me.

A Radio Transmit Only was being made available to members of this
Sig and I think I would like to purchase one. If anyone still has
that message and or the e-mail address of the individual that posted
it, I would be most appreciative.

73, Seymour, KC4NMY
Miaminet@mcimail.com

---

258. KPC-3 invisible messages . Thanks!

From: rwf <rwf@mindspring.com>
Date: Sat, 9 Mar 1996 20:16:29 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960309201717.3effe2c4@mindspring.com>
Rendered body type: text/plain

Jack, Dave, Steve- Thanks for the speedy replies!   I found that the PBHOld
command did not do anything for me, but that redoing the messages and
sending them with SB (Send Bulletin) instead of regular S (which is really
Send Personal) did the trick.

The messages were simply little blurbs explaining what the "strange" traffic
on the digi was and where to get the program.

They are working fine now.

I guess my lack of familiarity of BBS use was the cause of this one. Maybe
that is a hidden advantage!
I see far too many of the same message on BBS after BBS all offering the
same thing for sale in an area no one would ever want to go. Like: For
sale 2 sections of Rohn 25. You take down and pick up. And it is in
Oregon and I am in GA.   :)

---

259. Re: [APRSSIG:7366] HF <-> VHF Gates, etc

From: Jeff Ward <jward@gulf.net>
Date: Sat, 09 Mar 1996 19:28:51 -0600
To: aprssig@tapr.org
Message-ID: <199603100128.TAA00626@marlin.gulf.net>
Rendered body type: text/plain

At 08:09 AM 3/9/96 -0600, you wrote:
>Why does this subject come up once every three months on this sig?
>
>The primary purpose of APRS is to permit the mobile tracking of GPS
>stations throughout the United States through a series of digipeaters and
>gateways. This is why the program was created.
>
>The secondary purpose of APRS is to track weather related events on both
>a mesoscale and microscale level...as indicated by the large amount of
>effort in decoding the U-II and U-2000 weather stations and the use in
>several areas of stand-alone weather reporting stations.
>

That may be the order of priority that was originally intended, but in some
areas, like here in the Florida panhandle, APRS has evolved with DIFFERENT
priorities. It's primary purpose is for local area severe weather nets.

>We have been using APRS in the Tampa Bay area since version 1 for both of
>these purposes quite successfully and I fail to see the problem that
>other areas are reporting...despite the fact that Pinellas County Florida
>has the highest number of amateur radio operators per capita in the
>United States with over 2000 licensed hams in an area of 437 square miles.
>

>We have used APRS to augment ARES drills and excersises and we always use
>it to augment SKYWARN ops. When traffic gets too heavy, the GATE gets
>turned off.
>

That's fine if your HF gateway station participates in your ARES activities and
is willing to turn off the gate during emergencies...but sometime this isn't
the case.

>
>APRS is NOT intended to replace more conventional packet systems and
>LAN's. If you want a chat channel...build a CROWD node or just go
>unproto on a simplex frequency of your choice...or jump onto the IRC
>bandwagon.
>

145.790 is our "CHAT" channel. Every night at least 6 or 7 guys are on
chewing the rag...and that serves to keep APRS use fresh in our minds...lay
off for a couple of months and you start to forget the commands :-)
So in effect, it is constant emergency communications training.

>The Florida GATEFL exists to fill an existing void between east and west
>coasts. The major cities in Florida are just far enough away from each
>other to restrict reliable VHF comms without a repeater. Remember...we
>don't have many mountains to put up wide area links. The highest point
>in Florida is 238 feet, in Jackson County, near Marianna, in the panhandle.
>

Wow! How about that? I live in Florida at 282 feet above sea-level. The
highest point in Florida is actually in Walton County near Paxton...check your
source again...only about 100 miles off I guess!

>Forty meters is NOT reliable south of 30 degrees N unless you speak
>fluent Spanish. We receive South American stations, especially broadcast
>stations, almost 24 hours per day here in the 40 meter range.
>
>So, what's my point? Simple, we all have to work together and be willing
>to share the frequencies.   Instead of complaining...come up with
>solutions and work together for the common good.
>

We're all in agreement here, I think. But just because HF gates are more
important to you in your area, doesn't mean their first on everybody else's
list. In the Florida panhandle, we lost too many APRS users (prospective
emergency communicators) because they got sick and tired of putting up with
the useless rf-interferring packets. If you run an hf-vhf gate in the
panhandle,
be prepared to get pounced on...folks up here (as I expect they are in Bill,
KE4EER's area) are very touchy about that kind of thing.

73,
Jeff, N4TRY

---

260. Re: [APRSSIG:7396]

From: KD4EMI@aol.com
Date: Sat, 9 Mar 1996 21:01:13 -0500
To: aprssig@tapr.org
Message-ID: <960309210112_346463929@emout07.mail.aol.com>
Rendered body type: text/plain

Try sending SB instead of SP

Mike
KD4EMI

---

261. RE: [APRSSIG:7388] Re: Bandpass filters

From: Ken Wolfe <kwolfe@interramp.com>
Date: Sat, 9 Mar 1996 21:10:53 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0DFC.EA9566C0@ip133.philadelphia.pa.interramp.com>
Rendered body type: text/plain

I can vouch for the PAR unit....great for multi band units. It completely cured my
pager noise problems while driving around downtown Philadelphia....
    Ken

John Munsey wrote:

>Help! Several weeks ago there was considerable traffic about 2 meter
>bandpass filters that sold for about $90.00 I would like to purchace a
>couple but have lost the address.

John -
Many people have sent you the info on DCI, and they make an excellent product. It is a bandpass filter as you mention. I know Ralph Olds, the owner of DCI and vouch for his products.

I saw another interesting product at the Miami Hamfest. It is a notch filter by PAR Electronics of Lantana FL. Cost is 59.00 and it is about 3" square and 1" high. This is microscopic compared to the DCI.

The way it works is: On 2 meters, much of the garbage you hear comes from pagers and pther transmitters in the 151-152 MHz band. The filter notches this section of band out of your receiver. It is transparent to all other frequencies, including 440. The notch is at least 45 dB, I think. This seems to cure the intermod problem in the areas in which I tried it (Miami, Tampa, Orlando). I will try it in Atlanta when I come home from this long road trip.

I haven't bench tested it, but PAR had an analyzer at their booth hooked up to one. It showed only about .1 to .3 dB insertion loss! Notch depth was as advertised.

I wouldn't have bought it spontaneously, but on the second day of the hamfest, I was hanging around the booth and 6 different people came up and told him that they had bought on Saturday and were amazed at the results.

If your interference is pagers, I would look into this device. The DCI, of course, is a different design and is designed to pass only 2 meters (the whole band). Both of them are excellent products.

I hope to try both of them at a digi site between my pass cavity and my antenna.

Oh 1 more thing. I tried this test at my hotel.

152.48   Pager transmitter received at full scale. I inserted the filter and the signal dropped to less than 1 bar on the S meter. Notw THAT is attenuation!!

73

Ralph

---

262. Re: [APRSSIG:7403] Re: HF <-> VHF Gates, etc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 21:21:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309211814.5646A-100000@greatlakes>
Rendered body type: text/plain

On Sat, 9 Mar 1996, Kevin Heyboer wrote:

> don't...remember that a GATE station will generally have a listed path of
> GATE,WIDE or DIGI,GATE,WIDE while a VHF station using a GATE with have
> WIDE,GATE,GATE,WIDE....

WB4APR REPLY COMMENT: Wrong. He is looking for the GATE on VHF. YOu cannot tell anything about a GATE by it path. The path of its GATEwayed packets is determined by the originator of the packet, not by any of the GATEway TNC settings.

---

263. Re: [APRSSIG:7356] Re: Is this possible???

From: Lambrc@aol.com
Date: Sat, 9 Mar 1996 21:57:42 -0500
To: aprssig@tapr.org
Message-ID: <960309215742_242018200@emout08.mail.aol.com>
Rendered body type: text/plain

What about us that only got a few channels on a XTAL bound rig for use on APRS???

Ron
also in the Huntsville area..

---

264. Re: [APRSSIG:7376] Re: Is this possible???

From: Lambrc@aol.com
Date: Sat, 9 Mar 1996 21:56:55 -0500
To: aprssig@tapr.org
Message-ID: <960309215655_242018273@emout05.mail.aol.com>
Rendered body type: text/plain

Boy! You sure got a firstorm going this time!..

Ron

---

265. Re: [APRSSIG:7403] Re: HF <-> VHF Gates, etc

From: Lambrc@aol.com
Date: Sat, 9 Mar 1996 21:56:53 -0500
To: aprssig@tapr.org
Message-ID: <960309215652_242018294@emout07.mail.aol.com>
Rendered body type: text/plain

If you use a 3rd party software package (suck as MSYS) and don't put a POSIT string in the beacon. How you goning to tell where it is?

Ron
WB7VDN
also in Huntsville area.

---

266. Another stupid question

From: "AL Z., N3KAE" <ldajz@epix.net>
Date: Sat, 09 Mar 1996 22:32:05 -0800
To: aprssig@tapr.org
Message-ID: <31427765.6BF8@epix.net>
Rendered body type: text/plain

Sorry folks, but I was the one who initially posted the infamous: Is this possible??? question that has been re:'ed about 40 times by now. Anyway, my intent on the initial question was quite benign and innocent.

Besides the point, and with regard to all of the HF "hash" being brought onto VHF; I was on 30 Meters today and was quite suprised!

Maybe I'm confused, but can someone please explain to me why a long-winded QSO between a few stations (ALL on 30M) needed to use UNPROTO's of W7LUS,GATE,WIDE? Wasn't W7LUS good enough for a QSO? Seems this is a major part of the problem. As I'm sure no one on VHF really cared about the QSO, just the beacon spots. I thought one of the objects of APRS was to minimize your UNPROTO to accomplish an (INDIVIDUAL) task.

For POSTINGS, the above mentioned UNPROTO would be sure to enlighten a VHF'er, but no need to share an entire QSO with them. It seems easy enough to toggle my UNPROTO on this end.

With this in mind, I wouldn't be too quick to blame the owners of the GATEs, just the users.

AL, N3KAE

---

267. Olympic Torch Relay Question

From: wd4ahz@kd4yal.ampr.org
Date: Sat, 09 Mar 96 23:19:40 UTC
To: aprssig@tapr.org
Message-ID: <7849@kd4yal.ampr.org>
Rendered body type: text/plain

Who is organizing the relay in Florida (especially Tampa/St. Pete area?) We may be able to help from the Sarasota end, July 4th! Like to talk to that person to see if we can't assist. Been playing with APRS about a week now ...
IT'S NEAT!!!
73, Ron WD4AHZ

wd4ahz@kd4idr.netline.net

---

268. GATEway fix now

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Mar 1996 23:30:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960309231838.5793A@greatlakes>
Rendered body type: text/plain

```
I went to "fix" APRS so that it would send out the command
BEACON EVERY 0/60 so that dual port KAMS would continue to BEACON their
location/BText on VHF even if they were operating on HF.  Guess what?

The B E 0 command is in the file APRS\SYSTEM\INITTAPR.TNC file.  This
means all we have to do is EDUCATE all GATE operators that it is their
responsibility to EDIT   B E 0  to  B E 0/60,  and the problem of
"hidden" gateways will go away.

Note, on the KAM, BEACON periods are in MINUTES instead of 10's of
seconds, so on the KAM, use B E 0/10...

THIS PROCEDURE MUST BECOME COMMON KNOWLEDGE throughout the APRS
community... Spread the word.  (Sproul Bros may have a different solution
on Mac/Win APRS....)
```

---

269. Re: [APRSSIG:7410] Re: HF <-> VHF Gates, etc

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 09 Mar 1996 23:02:10 -0800
To: aprssig@tapr.org
Message-ID: <31427E72.98D@hiwaay.net>
Rendered body type: text/plain

```
Jeff Ward wrote:
>
> At 08:09 AM 3/9/96 -0600, you wrote:

> be prepared to get pounced on...folks up here (as I expect they are in Bill,
> KE4EER's area) are very touchy about that kind of thing.
>
> 73,
> Jeff, N4TRY

Thanks for writing it better then i could have. Yes your right we have
lost enough people that where fed up with all the gate traffic. At one
time when we had just started i counted 12 locals users, that's before
we even had a digi. You know how many we have left now that we do have a
digi, 2 regulars myself included!!!!. APRS was growing fast but dying
now. And you people wonder why i get upset with HF gates. I'm telling you
i'm just about to the point of using my coordinated digi for something
other then APRS (maybe just straight keyboarding) since my papers state
"coordinated for packet activity" not just APRS. Like i said it's not the
mobiles or boats, but the base station gates that bother us here. Make
jokes about it rather then trying to help solve the problem. By the way
the local packet group is looking for a good digi site and frequency!.

Bill KE4EER
```

---

270. Re: [APRSSIG:7410] Re: HF <-> VHF Gates, etc

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 21:27:03 -0800
To: aprssig@tapr.org
Message-ID: <199603100527.VAA29559@sprynet.com>
Rendered body type: text/plain

```
I thought the Bach Tower Garden was the highest point in Florida....at least
that's what they told us last January!
Seem to recall that it's at slightly more than 300 feet ASL...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

271. Re: [APRSSIG:7417] Another stupid question

From: ku0g@sprynet.com
Date: Sat, 9 Mar 1996 21:34:57 -0800
To: aprssig@tapr.org
Message-ID: <199603100534.VAA00419@sprynet.com>
Rendered body type: text/plain

There ya go again! Now it'll take THREE TIMES AS LONG to get Bill to shut up!!!

You ARE right, though. It's the USERS' fault not the operator of the gateway.
Chances are, though, that the stations may have been using LUS because they
couldn't see each other. They could have been on VHF and were using their own
gateway, too, but given the path you posted, they probably weren't.

People DO need to think about the path they use. The old rule about using the
minimum power necessary to maintain communications also applies to the use of
digipeaters!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

272. Re: [APRSSIG:7392] Re: Is this possible???

From: rkramer@cdx.net (Ronald Kramer)
Date: Sun, 10 Mar 1996 07:02:26 GMT
To: aprssig@tapr.org
Message-ID: <31427e32.90227118@mail.cdx.net>
Rendered body type: text/plain

On Sat, 9 Mar 1996 14:47:55 -0600 (CST), you wrote:

```
>
>
>On Sat, 9 Mar 1996, William Nolle <ke4eer@hiwaay.net> wrote:
>>WB4LTF@aol.com wrote:
>>>
>>> At the risk of sounding like a pointy - ear'd chacter of the past;
>>>
>>> Wouldn't the LOGICAL approch be to ask the local gates to shut down during an
>>> emergency.
>>> This is assuming that the LOCALS talk to each other :-}
>>>
>>> Bud
>>> wb4ltf@aol.com-----------------------
>>Above is another missconception. Nobody knows who runs a gate and who
>>doesn't there's no way of telling. If you know how to tell clue us all in
>>on this!.
>>
>>Bill KE4EER
>>
>
>All you have to do is look at the ID and see whose ID string says GATE/G!!!  I
>can't believe that there are those people out there who claim to have extensive
>packet/APRS experience that don't know what they're looking at as it scrolls by
>on the screen!!!
>
>Bill:  That's not NECESSARILY intended for you...
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>"Can't we all just get along?" -- R. King, 1994.
>
Not necesarily so   if they have hid turned on they do not
send out an ID packet showing the gate callsign or id....!!!!

Regards, Ron ...                           73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

273. Re: [APRSSIG:7359] Re: Good Ol' Boy Icon

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 10 Mar 1996 06:59:52 -0600
To: aprssig@tapr.org
Message-ID: <9603101259.AA03094@omnifest.uwm.edu>
Rendered body type: text/plain

I see - gonna have a lab in space???? It'll be good company for Gerry's
Cows in Space.

Dave N9UNR

```
dbarrow@omnifest.uwm.edu
```

274. Re: Can't we all get along?

```
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 10 Mar 1996 08:12:40 -0600
To: aprssig@tapr.org
Message-ID: <9603101412.AA28913@omnifest.uwm.edu>
Rendered body type: text/plain
```

```
Oh, shut up already.
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
------
        It would appear that Jim answers his own quotation....

        It would further appear that the answer is in the negative.

Dave, N9UNR
dbarrow@omnifest.uwm.edu

P.S.  If 73 means "Best Wishes" - what does Best 73 mean?
        Best Best Wishes???????
```

275. Re: [APRSSIG:7420] Re: HF <-> VHF Gates, etc

```
From: ku0g@sprynet.com
Date: Sun, 10 Mar 1996 06:37:10 -0800
To: aprssig@tapr.org
Message-ID: <199603101437.GAA23623@sprynet.com>
Rendered body type: text/plain
```

```
On Sat, 9 Mar 1996, William Nolle <ke4eer@hiwaay.net> wrote:
>Thanks for writing it better then i could have. Yes your right we have
>lost enough people that where fed up with all the gate traffic. At one
>time when we had just started i counted 12 locals users, that's before
>we even had a digi. You know how many we have left now that we do have a
>digi, 2 regulars myself included!!!!. APRS was growing fast but dying
>now.

Based on the way you attack and criticize, Bill, is it just possible that you
may have run everyone off because of your attitude?


And you people wonder why i get upset with HF gates. I'm telling you
>i'm just about to the point of using my coordinated digi for something
>other then APRS (maybe just straight keyboarding) since my papers state
>"coordinated for packet activity" not just APRS. Like i said it's not the
>mobiles or boats, but the base station gates that bother us here.

You COULD just shut down the gateway, you know!

>Make
>jokes about it rather then trying to help solve the problem. By the way
>the local packet group is looking for a good digi site and frequency!.
>
>Bill KE4EER

I would encourage you to go right out and do just that, Bill!  Don't wait:  DO
IT TODAY!  I'm quite certain that the "local packet group" would dearly love to
have your digi site and your coordinated digi, not to mention your
high level of knowledge, experience and that particular style of personal
expression and caring that you are blessed with!

>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

276. Re: [APRSSIG:7423] Re: Is this possible???

```
From: ku0g@sprynet.com
Date: Sun, 10 Mar 1996 06:38:16 -0800
```

To: aprssig@tapr.org
Message-ID: <199603101438.GAA23751@sprynet.com>
Rendered body type: text/plain

```
On Sun, 10 Mar 1996, rkramer@cdx.net (Ronald Kramer) wrote:
>Not necesarily so   if they have hid turned on they do not
>send out an ID packet showing the gate callsign or id....!!!!
>
>Regards, Ron ...                            73 de Ron
>         Internet: rkramer@cdx.net (Ron Kramer)
>         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>

GOOD POINT!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

277. Re: [APRSSIG:7329] Re: "weird militia group" flame

From: AZWDC@aol.com
Date: Sun, 10 Mar 1996 10:48:28 -0500
To: aprssig@tapr.org
Message-ID: <960310104827_242261984@emout05.mail.aol.com>
Rendered body type: text/plain

```
Way to go. You took the words right out of my mouth.

AZWDC@aol.com

Capt. James A. Owen, CAP
Director of Communications
Arizona Wing, Civil Air Patrol
WW7J
```

---

278. Re: [APRSSIG:7427] Re: Is this possible???

From: Ozzie N4SCY <ozzie@digital.net>
Date: Sun, 10 Mar 1996 13:08:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960310130207.8433C-100000@digital.net>
Rendered body type: text/plain

```
Personally, I feel that HID should default to ON. While the justification
of the manufacturers is to say that this cuts down on QRM, I feel that
HID ON allows a digipeater using an alias to ID itself when used as a
digi. My feeling is that complying with FCC regulation on station
identification IS NOT QRM.


     Ozzie

n4scy@amsat.org
http://ddi.digital.net/~ozzie
       ^^^
| When political signiture tags are outlawed, only
| outlaws will have political signiture tags.
| PAT PAULSEN FOR PRESIDENT!  http://www.paulsen.com


On Sun, 10 Mar 1996 ku0g@sprynet.com wrote:

>
>
> On Sun, 10 Mar 1996, rkramer@cdx.net (Ronald Kramer) wrote:
> >Not necesarily so   if they have hid turned on they do not
> >send out an ID packet showing the gate callsign or id....!!!!
> >
> >Regards, Ron ...                            73 de Ron
> >         Internet: rkramer@cdx.net (Ron Kramer)
> >         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
> >
>
> GOOD POINT!
>
> Best 73,
> Jim Duncan, KU0G
```

> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com
>
> "Can't we all just get along?" -- R. King, 1994.
>
>

---

279. Re: [APRSSIG:7346] Re: Is this possible??? RE: FLGATE

From: Gary Arnold <garnold@naples.net>
Date: Sun, 10 Mar 1996 17:11:27 -0800
To: aprssig@tapr.org
Message-ID: <31437DBF.E89@naples.net>
Rendered body type: text/plain

n2czf@gate.net wrote:
>
> I see the Collier Co. area is using BPQ with FLGATE. Do remember that FLGATE is
> for the FL APRS NET ON 80M ONLY!! What little there is hi hi.
>
> If you are on 3.585 LSB going to 145.79 in the state of Florida as a GATEWAY use
> FLGATE as MYGATE. If you are operational on 10.151 LSB stick with GATE as the
> MYGATE. No one on 30M uses FLGATE since those transmissions are used all over
> the country, if you are set to FLGATE on 30M nothing will come thru.
>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida
>
> Re-read the message Rich. Collier County is NOT (at the moment) using

BPQ. Dale was asking if there is a way to do so, and if not, how it
might be done to make use of a single computer and a number of ports.
At this point, the ONLY HF we are contemplating is 30 meters...80 is a
possibility down the road.

Using BPQ would allow a number of frequencies to be used, and controlled
flexibility as to what digi's where port to port. First we have to find
a way to do it!
73,
Gary

--

Gary Arnold, CEM
Coordinator, Collier County Emergency Management
Naples FreeNet: garnold@naples.net
Compuserve: 76656.2753@compuserve.com
FIRN: arnoldg1@mail.firn.edu
Packet Radio: WB2WPA @ WB2WPA.#nap.fl.usa.noam

---

280. Help w/ Garmin-45 & Laptop

From: Larry Griffin <largriff@onramp.net>
Date: Sun, 10 Mar 1996 12:49:04 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0E7F.F8BB98E0@lub13.onramp.net>
Rendered body type: text/plain

I've got a borrowed Garmin-45 I'm trying to connect to a Laptop computer.
All I get on the screen is garbled characters, as though my Com parameters aren't right. What am I
doing wrong?

Here's my setup.

Garmin-45 in NMEA 0183 V 2.0 output
Computer (running ProComm) Com parameters: 4800 N-8-1

Please help!

Larry Griffin - AB5GE - <largriff@onramp.net>

---

281. Re: [APRSSIG:7088] Re: Peet Bros. U-2000

From: rkramer@cdx.net (Ronald Kramer)
Date: Sun, 10 Mar 1996 21:22:20 GMT
To: aprssig@tapr.org
Message-ID: <314347c3.141835504@mail.cdx.net>
Rendered body type: text/plain

On Wed, 28 Feb 1996 03:44:24 GMT, rkramer@cdx.net (Ronald Kramer)
wrote:

>On Tue, 27 Feb 1996 18:09:51 -0500 (EST), you wrote:
>
>>Yes, you sent me some windows screen captures, but I dont know how to
>>display them... First, they were atttachemnts to a message, which go
>>somewhere on my service provider's NIX system. THen I have to figure out
>>how to get them downloaded from the UNIX machine to mine,
>The above I can not help you with ...
>
>> then I have to
>>find someone with windows that can show me how to display them...
>Not needed as these where two .exe screen captures that from dos
>when run will view on screen, no viewer needed.
>
>>
>>Its easier, if you just type in the characters of the WX line at the
>>bottom of the screen that caused the crash.. and include that in a
>>messsage, hi hi...
>>
>Well lets see if can type hi hi
>Have to forget about screen wrap with internet to less than 80 chrs
>
>LM,PM:8   -1
>KE2VW>APRS,KE2VW-2*,VE3YYZ,WIDE:$ULTW0000000001C30000279D00049C050001----00370005
>C$:
>ES$In MyCall:j= 5 and Tl =6.W.Tlz 1014.1.R&Blz 0lz 39941
>OOOPS! ERR number 6 Hit Enter to Resume or Q to Quit?
>
>Bcn: KE2VW   251218 U2000 Remote Weather
>
>KE2VW>APRS,KE2VW-2*,VE3YYZ,WIDE:$ULTW0000000001C300001C30000279D00049C050001----0
>
>That's what the screen wrote to me.......
>
>Also here is the info that is decoded in the V screen I think when the
>
>U2000 is in the data logger mode, some of the line is unfamilar
>to me...
>
>KE2VW....._002/004/T045/C000/P520/B014/H005/U2
>
>I hope that this is enough info for you to figure out how to make APRS
>not lock up and decode the U2000 properly...
>
>Keep up the good work.....and u did leave yourself wide open
>on the com port issue ... hi hi
>
>
>Regards, Ron ...   73 de Ron
>   Internet: rkramer@cdx.net (Ron Kramer)
>   Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
Bob,   Greg KE2VW and myself are wondering if you received
the above message ??
tnx de Ron
Regards, Ron ...   73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

282. Re: [APRSSIG:7428] Re: "weird militia group" flame

From: "Robert G. Abrams" <ki6mp@adnc.com>
Date: Sun, 10 Mar 1996 13:23:36 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19960310133504.357ffd00@mail.adnc.com>
Rendered body type: text/plain

At 09:51 AM 3/10/96 -0600, you wrote:
>Way to go. You took the words right out of my mouth.
>
>AZWDC@aol.com
>
>Capt. James A. Owen, CAP
>Director of Communications
>Arizona Wing, Civil Air Patrol
>WW7J
>
>I agree and hello Jim de Bob in San Diego
Calif. Wing APRS Coordinator

Jim pse take note of my NEW internet address:

Best 73 and: " keep the faith "

>

---

283. Re: [APRSSIG:7431] Help w/ Garmin-45 & Laptop

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sun, 10 Mar 1996 14:35:08 -0700
To: aprssig@tapr.org
Message-ID: <199603102135.OAA03042@usr4.primenet.com>
Rendered body type: text/plain

LARRY:

R U sure that your cable is hooked up properly? If not try this...

9 Pin		25 Pin	
1	to	8	
2	to	3	plus Brown wire from Garmin Data cable
3	to	2	plus White " " " " "
4	to	20	
5	to	7	plus Black " " " " "
6	to	6	
7	to	4	
8	to	5	
9	to	22	

I think that you'll find that this helps. Also, check your TNC setups.
Follow the instructions given in the APRS manual and the TNC manual....Good
luck, hope to see you on the map....73, Alan, WC7R

At 12:59 PM 3/10/96 -0600, you wrote:
>I've got a borrowed Garmin-45 I'm trying to connect to a Laptop computer.
\>All I get on the screen is garbled characters, as though my Com parameters
aren't right. What am I doing wrong?
>
\>Here's my setup.
>
\>Garmin-45 in NMEA 0183 V 2.0 output
\>Computer (running ProComm) Com parameters: 4800 N-8-1
>
\>Please help!
>
\>Larry Griffin - AB5GE - <largriff@onramp.net>
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

284. Garmin-45

From: Larry Griffin <largriff@onramp.net>
Date: Sun, 10 Mar 1996 16:15:22 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0E9C.CAA33040@lub13.onramp.net>
Rendered body type: text/plain

What NMEA sentence(s) does the Garmin GPS-45 spit out? Is there any way to choose different ones? I don't see anything in the manual about it.

Larry Griffin - AB5GE - <largriff@onramp.net>

---

285. Pennsylvania Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Mar 1996 17:31:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960310172937.7370B-100000@greatlakes>
Rendered body type: text/plain

I just did street level maps of WEST CHESTER PA for a new users AB3O. My VHF path to him is margnial, I have two questions:

1) Is there already a PAmaps.zip? Or should I begin one?

2) Is there someone here onthe SIG that can download these maps and get them to these guys in WEST CHESTER, PA?

Respond direct. TNX

286. Re: [APRSSIG:7436] Pennsylvania Maps

From: W2HOB@aol.com
Date: Sun, 10 Mar 1996 19:22:11 -0500
To: aprssig@tapr.org
Message-ID: <960310192210_347246830@emout10.mail.aol.com>
Rendered body type: text/plain

```
For Bob WB4APR Re: PAMAPS.ZIP

I don't think there is anyone working on Southeastern PA maps but
if you have 'em, I can download them from TAPR and either make
'em available to the West Chester guys via the modem port of the
NTS BBS here (w2hob.#snj.nj.usa.noam) at 609-261-8350 up to
9600, N,8,1 or I'll slip a 3.5" disk in the U.S.Snail if someone will slip
me their address!

What's their/your pleasure?
73 de Boyd w2hob@aol.com
```

---

287. Beacon

From: Victor Morange <vmorange@ix.netcom.com>
Date: Sun, 10 Mar 1996 16:39:16 -0800
To: aprssig@tapr.org
Message-ID: <31437634.540F@ix.netcom.com>
Rendered body type: text/plain

```
I'm new to APRS and when I do Xmit-Beacon command it transmits but I get no
conformation that it was transmitted. How can I fix this and set the number
of minutes it automatically beacons?

Victor Morange
vmorange@ix.netcom.com
KO6ZK
```

---

288. Re: Help w/ Garmin-45...

From: Larry Griffin <largriff@onramp.net>
Date: Sun, 10 Mar 1996 18:53:54 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0EB2.F2852440@lub12.onramp.net>
Rendered body type: text/plain

```
Thanks Alan, for the info.  I had already figured out the problem, tho.  I was using the wrong DB-9 pin
for ground.  After I connected to pin 1, it works like a champ!

LarGriff
```

---

289. Re: OWLY

From: schiers@ibm.net (Robert Schiers)
Date: Sun, 10 Mar 96 20:54:05
To: aprssig@tapr.org
Message-ID: <199603110200.CAA65784@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
Geez guys, I thought it was just me that started threads
that degenerated into intemperate discourse. (the
thankfully dead "more com ports" thread).

How 'bout we all stow our snide remarks for a while, eh?

73,

hasan schiers, N0AN
------------------------------------------------------------
schiers@ibm.net
------------------------------------------------------------
```

---

290. Re: [APRSSIG:7440] Re: OWLY

From: ku0g@sprynet.com
Date: Sun, 10 Mar 1996 19:42:23 -0800
To: aprssig@tapr.org
Message-ID: <199603110342.TAA18696@sprynet.com>
Rendered body type: text/plain

```
On Sun, 10 Mar 1996, schiers@ibm.net (Robert Schiers) wrote:
>Geez guys, I thought it was just me that started threads
>that degenerated into intemperate discourse. (the
>thankfully dead "more com ports" thread).
>
```

```
>How 'bout we all stow our snide remarks for a while, eh?
>
>73,
>
>hasan schiers, N0AN
>-----------------------------------------------------------
>schiers@ibm.net
>-----------------------------------------------------------
>
Yes, let's do just that, PLEASE!  I'm really tired of all of the bickering...

>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

291. Re: [APRSSIG:7441] Re: OWLY

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 10 Mar 1996 23:36:45 -0800
To: aprssig@tapr.org
Message-ID: <3143D80D.4013@hiwaay.net>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> On Sun, 10 Mar 1996, schiers@ibm.net (Robert Schiers) wrote:
> >Geez guys, I thought it was just me that started threads
> >that degenerated into intemperate discourse. (the
> >thankfully dead "more com ports" thread).
> >
> >How 'bout we all stow our snide remarks for a while, eh?
> >
> >73,
> >
> >hasan schiers, N0AN
> >-----------------------------------------------------------
> >schiers@ibm.net
> >-----------------------------------------------------------
> >
> Yes, let's do just that, PLEASE!  I'm really tired of all of the bickering...
>
> >
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
> "Can't we all just get along?" -- R. King, 1994.---------------------------------------------------
Sure Jim then why do you keep fueling the fire Hi HI

Bill KE4EER
```

---

292. Ultimeter 500

From: Steve Sable <ssable@ic.net>
Date: Mon, 11 Mar 1996 08:19:08 -0500
To: aprssig@tapr.org
Message-ID: <m0tw7Vi-0001hTC@ic.net>
Rendered body type: text/plain

```
How does one tell if the Ulitmeter is sending any data? I have the 500 and
got the serial cable from Peet Bros.
I have a DOS 5.0 boot disk with no autoexec.bat of config.sys on it and have
tried to run both APRS and AUTOWX and both dont show any data from the
Ultimeter 500. I am registered for APRS and WX.
I run my PK-900 on comm2 and dont have the mouse in comm1 but rather have
the Ultimeter 500 cable plugged into comm1 instead.
Been through the validation process on APRS with the ALT-S routine to set
APRS and WX and holding the 2 keys down on the Ulitmeter for "data logging
mode", and still nothing.
If I try AUTOWX, it asks the usual com questions for the TNC and Long and
Lat but when it is looking for U-II port it comes back and says, "NO DATA ON
COMM 1".
I have actually tried all 3 modes on the Ultimeter 500 with both programs
with no luck. Once I did get gibberish on APRS on the line just below the
status box but it didnt add the gibberish to my BTEXT.
Do I maybe need to run a MODE statement in the config.sys file to wake up
```

comm 1? Any other suggestion's are welcome.

```
                                  \\\\
                                  (o^o)
    ========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    ========================================================
```

---

293. EER Bill's Digi

From: mark.endicott@nashville.com
Date: Mon, 11 Mar 96 07:53:13
To: aprssig@tapr.org
Message-ID: <199603111400.IAA08403@tapr.org>
Rendered body type: text/plain

Bill:

We put up a new digi in Franklin, TN yesterday. We have not been seeing your station on a regular basis. Wondering if you have it on all the time or if it's just signals. The new digi is KF4AJO-1, it is mounted on the south side of a tower at about 90 feet. It's lobe should favor your direction. 73's......Mark

```
                   __________________________________________
                  |                                          |
                  |               Mark Endicott              |
                  |              P.O. Box 148242             |
                  |        Nashville, Tennessee 37214        |
                  |                  WB0NOO                  |
                  |        mark.endicott@nashville.com       |
                  |                                          |
                  |__________________________________________|
```

---

294. Garmin 40/45 FAQ + NMEA FAQ + C++ NMEA Source Code

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Mon, 11 Mar 1996 05:39:23 -0500
To: aprssig@tapr.org
Message-ID: <314402DB.6E4F@dgp.toronto.edu>
Rendered body type: text/plain

Recent posting to this news group have requested Garmin 45
and NMEA info.

Attached, you will find 3 files:

1. the Garmin GPS FAQ
2. the NMEA FAQ
3. a zip of C++ source code that reads and writes NMEA sentences

[Attachment: g45faq.txt; text/plain; 91,969 bytes]
[Attachment: nmeafaq.txt; text/plain; 25,752 bytes]
[Attachment: mfcnmea.zip; application/x-zip-compressed; 111,672 bytes]

---

295. Re: Ultimeter 500

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 11 Mar 1996 09:03:44 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB0F29.AA180FC0@lub04.onramp.net>
Rendered body type: text/plain

Steve,

Take a look at Ulti-Mate software at http://www.onramp.net/swta/wxsoft.htm
Ulti-Mate supports U-II, U-500 and U-2000 weather stations.

Larry Griffin - AB5GE <largriff@onramp.net>

---

296. Enough is Enough!

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 11 Mar 96 10:48:18 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.826559298.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Enough is enough, the crap on this mailing list has gotten WAY out of control.

This SIG was designed to promote and share the knowledge and ideas about APRS,
GPS, and related topics..

It was NOT designed to be a flame-fest... Go do that on rec.radio.something.

I have had SEVERAL people either tell me that they have un-subscribed or that
if it doesn't calm down that they WILL un-subscribe..

If it doesn't calm down, we will resort to making this a MODERATED group..

I do NOT want to do this!!
So, PLEASE keep the flames and personalities out of this..

There have been SEVERAL topics that have come up that, at least in the
beggining, were worth discussing, but people's opinions got in the way of
facts..

Then there are the topics that there is NO correct answer.. And that an
'answer' from one part of the country does NOT apply to another part of
the country.

So, please calm down, and discuss APRS/GPS related topics with dignity and
not flames..

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

297. xmitfreq on 30 mts

From: w4rte@ab6z.ampr.org
Date: Mon, 11 Mar 96 10:27:55 PST
To: aprssig@tapr.org
Message-ID: <9062@ab6z.ampr.org>
Rendered body type: text/plain

new on aprs and packet. need help on understanding
actual xmit and rcvr freq on 30 mts. hr aprs
at 10.151.51. using aea. looks ot of band to me.
john w4rte

---

298. Europe, South America and PA maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Mar 1996 11:26:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960311112406.14776A-100000@greatlakes>
Rendered body type: text/plain

I just posted the following files in tapr/SIG/aprssig/upload

eumaps02.zip Only Netherlands, Bosnia, and the Heel of Italy
samaps02.zip Maracaebo and Argentina
pamaps01.zip West Chester

---

299. Re: [APRSSIG:7443] Ultimeter 500

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Mar 1996 11:42:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960311114122.14776F-100000@greatlakes>
Rendered body type: text/plain

On Mon, 11 Mar 1996, Steve Sable wrote:

> How does one tell if the Ulitmeter is sending any data? I have the 500 and
> got the serial cable from Peet Bros.

REPLY: Run a dumb terminal program such as PROCOMM and be sure to set
the baud rate to 2400 baud. APRS assumes 2400 baud for the Ultimeter, so
it is not user configurable...

---

300. RE: [APRSSIG:7447] Enough is Enough!

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Mon, 11 Mar 1996 10:55:44 -0600 (CST)
To: aprssig@tapr.org

Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960311105544.2081193e@exame2.dseg.ti.com>
Rendered body type: text/plain

```
Thanks, Keith. We needed that!

   73 Claude Head
      K5DTN
      chead@exame2.dseg.ti.com
```

---

301. Re: [APRSSIG:7447] Enough is Enough!

From: "Robert G. Abrams" <ki6mp@adnc.com>
Date: Mon, 11 Mar 1996 09:05:02 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19960311091632.351f47b8@mail.adnc.com>
Rendered body type: text/plain

```
At 10:00 AM 03/11/96 -0600, you wrote:
>Enough is enough, the crap on this mailing list has gotten WAY out of control.
>
>
>This SIG was designed to promote and share the knowledge and ideas about APRS,
>GPS, and related topics..
>
>It was NOT designed to be a flame-fest... Go do that on rec.radio.something.
>
>
>I have had SEVERAL people either tell me that they have un-subscribed or that
>if it doesn't calm down that they WILL un-subscribe..
>Thank you for your concern Keith, I was thinking of unsubscribing but I'll
stick
around for a while longer now. Good luck.
>
>If it doesn't calm down, we will resort to making this a MODERATED group..
>
>I do NOT want to do this!!
>So, PLEASE keep the flames and personalities out of this..
>
>
>
>There have been SEVERAL topics that have come up that, at least in the
>beggining, were worth discussing, but people's opinions got in the way of
>facts..
>
>
>Then there are the topics that there is NO correct answer.. And that an
>'answer' from one part of the country does NOT apply to another part of
>the country.
>
>
>So, please calm down, and discuss APRS/GPS related topics with dignity and
>not flames..
>
>
>Keith Sproul                             Ham Radio: WU2Z
>Student Housing Network Coordinator      ksproul@noc.rutgers.edu
>Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
>http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
>
>
>
```

---

302. Re: [APRSSIG:7444] EER Bill's Digi

From: William Nolle <ke4eer@hiwaay.net>
Date: Mon, 11 Mar 1996 11:16:56 -0800
To: aprssig@tapr.org
Message-ID: <31447C28.F78@hiwaay.net>
Rendered body type: text/plain

```
Well glad to hear that. Do you mean my shack station KE4EER or KE4EER-5
the digi ?. You should see the digi with no problem!. Myself, i do have
times that i'm working on something and may be off of APRS. It should be
easy for me to hit your new digi. I will give it a try. I wonder if you
guys see anything North of Nashville, i have pointed my beams out North
many times but have never seen anything North of Nashville.
Will see you on APRS 73

Bill KE4EER
------------------------
```

```
>
> Bill:
>
>         We put up a new digi in Franklin, TN yesterday.  We have not been
> seeing your station on a regular basis.  Wondering if you have it on all
> the time or if it's just signals.  The new digi is KF4AJO-1, it is mounted
> on the south side of a tower at about 90 feet.  It's lobe should favor your
> direction.  73's......Mark
>
>                    __________________________________________
>                   |                                          |
>                   |              Mark Endicott               |
>                   |             P.O. Box 148242              |
>                   |        Nashville, Tennessee 37214        |
>                   |                  WB0NOO                  |
>                   |        mark.endicott@nashville.com       |
>                   |                                          |
>                   |__________________________________________|
>
```

303. Re: [APRSSIG:7359] Re: Good Ol' Boy Icon

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 11 Mar 1996 11:24:47 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603111724.LAA12208@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
KD4EMI@aol.com sez:
>
> Actually, can we just get the DOG ICON...
> Id prefer a lab retriever looking dog...
>
> My Lab is going to carry my aprs pack when we go camping...

If I can't get a cow, why should YOU get a dog?  :-)

73, gerry
```

304. Re: [APRSSIG:7374] Re: EME for everyone

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 11 Mar 1996 11:30:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603111730.LAA12256@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
William Manley sez:
>
> Hmmmmm....  How does the doppler give you an angle measurement?  I can
> understand the speed measurement, but not the angle.  However if, as you
> say, you can measure speed and angle then than will infer velocity  and
> then that, with position and time, will provide the needed data to update
> the keps.

Horizon acquisition to closest approach (0-doppler) to horizon LOS.  With at
least 2 passes, you can infer angles for both (thrree passes is better to
refine the longest in-sky dwell time) and back into angles.  If you've got
instantaneous doppler measurements for all of the passes, it's straightforward
math, with a little help from Johannes Kepler to back into angles as well as
velocities... angular velocities, at least!

73, gerrh
n5jxs@tamu.edu
```

305. Re: [APRSSIG:7447] Enough is Enough!

From: ku0g@sprynet.com
Date: Mon, 11 Mar 1996 09:50:00 -0800
To: aprssig@tapr.org
Message-ID: <199603111750.JAA29239@sprynet.com>
Rendered body type: text/plain

```
WELL SAID, SIR!!!

Thank you!!! (again)
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

```
"Can't we all just get along?" -- R. King, 1994.
```

---

306. Re: [APRSSIG:7448] xmitfreq on 30 mts

From: ku0g@sprynet.com
Date: Mon, 11 Mar 1996 10:02:54 -0800
To: aprssig@tapr.org
Message-ID: <199603111802.KAA00955@sprynet.com>
Rendered body type: text/plain

```
Take a look at HF.TXT in the README files.  That explains the frequency issue.
You're OK as long as you're running LSB....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

307. Tips and Hints please.

From: Jim Prentice WA2MZF QCWA 27911 <PRENTICE@scanva.canton.edu>
Date: Mon, 11 Mar 1996 13:19:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I27PCCQ8S20003DG@scanva.canton.edu>
Rendered body type: text/plain

```
Hello to group..


   While I plead guilty of not reading all etc. And have been on
30 meters for the most part. I would still like some hints as to
what to set unproto es other settings to, gate ? wide ? etc.


Guess in other words, some of us might need more instructions ?

I did set beacon text to something like " I am around for live
keyboard contacts"  and someone actually contacted me etc.

Thanks for help guys.
```

---

308. Packet Operating Software

From: "PAUL MANNING" <MANNING_P@wfum.flint.umich.edu>
Date: Mon, 11 Mar 1996 13:21:25 EDT
To: aprssig@tapr.org
Message-ID: <84274153E9C@WFUM.flint.umich.edu>
Rendered body type: text/plain

```
Other than APRS software,what other types of software are people
running???

Is there a defacto program that everyone has,or should have??

Info: KPC-3 TNC(2 years old,no GPS)
      IBM Compatible XT
      20 Mbit Hard Drive
      640 k Ram


Any info would be helpful.

Paul
N8VXD
pmanning@umich.edu
```

---

309. Position tracking via WO-18

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Mar 1996 13:36:41 -0500 (EST)
To: Dave Guimont <G_DGUIMONT@qualcomm.com>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960311113458.14776C-100000@greatlakes>
Rendered body type: text/plain

```
Dave asked for the BPSK uplink frequency for the WO-18 digipeater,
presumably to try to digi an APRtrak position report like we did with
SPRE.  If WO-18 is going to operate continuously in digipeater mode,
then this satellite could be the basis for world wide amateur mobile
vehicle position reporting.   The 1200 baud BPSK uplink is 145.900.
```

The AMSAT APRtrak software will plot the position of any stations that
digipeat their position and status in one of the following formats:

W3ADO>FM19SX,WEBER-1:Hi!

Here your position report uses your 6 digit grid square in the TO field.
This packet is only about 1/2 second long and permits the maximum number
of vehicles or stations per pass probably close to 200 or more. It will
place you within about 2 miles of your QTH and include any status or
comments on the end.

The more precise format allows you to transmit your symbol character so
that your type of vehicle or station will appear on the map. It takes
longer, almost a full second.

W3ADO>APRS,WEBER-1:@141329h3859.11N/07629.12W>Enroute Europe

This format is the time, an "h", then the LAT/LONG, and the final
character is one of 126 different symbol characters followed by any
comments. The symbols can reperesent all maner of vehicles, trucks,
cars, boats and aircraft.

If you are running the APRtrak software, it will automatically transmit your
position. Be sure you are using a satellite BPSK modem, WO-18 has no
mechanism for noremal terrestrial AX.25 FM signals.

---

310. RE: xmitfreq on 30 mts (out of band?)

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 11 Mar 96 14:01:01 EST
To: aprssig@tapr.org
Cc: w4rte@ab6z.ampr.org
Message-ID: <CMM-RU.1.4.826570861.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>10.151.51. using aea. looks out of band to me.

If you are using 10.151.51 in LSB, you are actually within band..

I use a modern Solid-State rig that WON'T let me xmit out-of-band, it is
quite happy with this frequency...

It is quite understandable that this causes confusion, and you are not the
first person to ask this question....

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

311. Re: [APRSSIG:7420] Re: HF <-> VHF Gates, etc

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 11 Mar 1996 14:12:22 EST
To: <aprssig@tapr.org>
Message-ID: <11MAR96.15342889.0049.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

Bill
in defence of w7lus his gate has not been up for a LONG time now
my guess at the time of the incident was a malfunioning wx station that
was tx on vhf every 10 sec. I refuse to identify the party!
other ideas inculde that u could be geting trafic from the atl or athens
digi if a hf user is going gate,wide,wide or a vhf user going
wide,gate,gate,wide,wide the use of 2Xwide at the end is the cause
of many colisions hear in the athens ,atl area we should decide
on a standard for this and so that we can properly space the gates
Bill if there are only 12 users in ur area how in the world did hf gate
trafic shut down ur system and interfer with ur event.
we have 6 users in athens myself having a mobile, another 2 mobiles
and wb4vnt some times has 2 or 3 stations up in addition to a digi and
a gate way, also we are going to add a Gatega or gagate which ever itis\
supposed to be. We also get all of the trafic from atl and alabama
most of the time as well as trafic from western NC. We still have no
problems with maxed out channels. (one of the alabama staions is YOU)
Im sorry Bill i hope u don't take this to personal but ur making

a mtn. out of a mole hill!!!!
Even when i had my Jeep (no gunrack :)) sending position reports every
30 sec to see how close our maps were there were still no problems.
The only thing that i see as a small problem that needs to be addresed
is this X2 wides on gate trafic it does cause problems and we need
to fix it with a nag msg or some thing.

Thanks
Lynn N4YCI
PS Im puting on the fire proof suit bill so put a match to the torch :)

---

312. Re: [APRSSIG:7447] Enough is Enough!

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 11 Mar 1996 14:28:10 EST
To: <aprssig@tapr.org>
Message-ID: <11MAR96.15627220.0049.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

>I would like to say im sorry for my last msg
>i receved keiths msg just after writing mine.
i got way frustrated after reading 389 msg from this sig
which contained exactly 25 good msg with worth wide info to me
if that was a radio sig to nosie id throw it in the trash!!!!
Keith and others i think that we may not be able to play nice
and we may infact need a moderated group im sad to say.
I think that a few people are trying to use this group as there long
distant 3rd grade play ground and picking on people and starting
idiotic arguments and bill i dont nessesarly mean you.

Lynn N4YCI

---

313. Re: [APRSSIG:7459] Packet Operating Software

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 11 Mar 1996 14:01:33 -0700
To: aprssig@tapr.org
Message-ID: <199603112101.OAA16943@usr3.primenet.com>
Rendered body type: text/plain

There is APRTRAK, for STS and Sat. tracking, there is Packet Pet, and
PacketLite which are TNC programs, and of course the software that came with
your KPC-3. You might look at upgrading your EPROM. It is very inexpensive
and might open up a wider range of functions for you. I have the PK-232MBX
and a KPC-3. The "3" is my mobil/APRS unit and I think the world of it. Hope
that this helps. Hope to see you on the map...73, Alan, WC7R......//\\

At 12:45 PM 3/11/96 -0600, you wrote:
>Other than APRS software,what other types of software are people
>running???
>
>Is there a defacto program that everyone has,or should have??
>
>Info: KPC-3 TNC(2 years old,no GPS)
>   IBM Compatible XT
>   20 Mbit Hard Drive
>   640 k Ram
>
>
>Any info would be helpful.
>
>Paul
>N8VXD
>pmanning@umich.edu
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

314. xmitfreq on 30 mts (out of band?) (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Mar 1996 16:03:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960311155642.22356D-100000@greatlakes>
Rendered body type: text/plain

If you are using 10.151.51 in LSB, you are actually within band..

```
If your rig thinks this is out of band and won't let you XMT, then simply
subtract twice the value of your TNC's tones and operate USB...

For high-tone TNC's this is 10.147.26 or for low tone TNC's it is
10.147.6  USB, but the convention is to state frequencies by their LSB
equivalents.
```

315. Newsgroup

```
From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Mon, 11 Mar 1996 13:03:19 -0800
To: aprssig@tapr.org
Message-ID: <9603112103.AA29553@gvgadg.gvg.tek.com>
Rendered body type: text/plain
```

```
Is it time to turn this sig into a news group?

Then messages can be threaded together, and killed or skipped.

rec.radio.amateur.digital.aprs

Randy




-----------------------------------------------------------------------
|                          My opinions are my own.                    |
|                                                                     |
|                                    O-                               |
|                                                                     |
| Randy Hall WA2AGE  randyh@gvgadg.gvg.tek.com   Grass Valley Products|
-----------------------------------------------------------------------
```

316. Re: [APRSSIG:7462] Re: HF <-> VHF Gates, etc

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Mar 1996 16:07:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960311160550.22356F-100000@greatlakes>
Rendered body type: text/plain
```

```
On Mon, 11 Mar 1996, HOLCOMB, GREGORY FRA wrote:

> other ideas inculde that u could be geting trafic from the atl or athens
> digi if a hf user is going gate,wide,wide or a vhf user going
> wide,gate,gate,wide,wide the use of 2Xwide at the end is the cause
> of many colisions hear in the athens ,atl area we should decide
> on a standard for this and so that we can properly space the gates

WB4APR REPLY COMMENT:  NO ONE SHOULD EVER USE ANYTHING MORE THAN ONE WIDE
after going through a GATE .  PERIOD.  THAT IS THE POLICY AND JUMP ON
ANYONE THAT DOES SO WITH BOTH FEET!
```

317. Re: [APRSSIG:7455] Re: EME for everyone

```
From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 11 Mar 96 17:35:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199603112233.RAA09753@newworld.bridge.net>
Rendered body type: text/plain
```

```
>>
>> Hmmmmm....  How does the doppler give you an angle measurement?  I can
>> understand the speed measurement, but not the angle.  However if, as you
>> say, you can measure speed and angle then than will infer velocity  and
>> then that, with position and time, will provide the needed data to update
>> the keps.
>
>Horizon acquisition to closest approach (0-doppler) to horizon LOS.  With at
>least 2 passes, you can infer angles for both (thrree passes is better to
>refine the longest in-sky dwell time) and back into angles.  If you've got
>instantaneous doppler measurements for all of the passes, it's
>straightforward
>math, with a little help from Johannes Kepler to back into angles as well as
>velocities... angular velocities, at least!

Remember, you get multiple readings at multiple different recievers for
each pass through the beam, all with different dopplers and arrival
times. It is exactly the same mathematical problem as your little
handheld GPS solves every second, but  with one transmitter and multiple
```

recievers. And it only takes a single blip, not multiple passes. There
would be no way to match up the blips from different orbits, unless you
already had the keps!

Steve KO4HD

---

318. Re: [APRSSIG:7462] Re: HF <-> VHF Gates, etc

From: William Nolle <ke4eer@hiwaay.net>
Date: Mon, 11 Mar 1996 16:55:27 -0800
To: aprssig@tapr.org
Message-ID: <3144CB7F.885@hiwaay.net>
Rendered body type: text/plain

```
HOLCOMB, GREGORY FRA wrote:
>
> Bill
> in defence of w7lus his gate has not been up for a LONG time now
> my guess at the time of the incident was a malfunioning wx station that
> was tx on vhf every 10 sec.  I refuse to identify the party!
> other ideas inculde that u could be geting trafic from the atl or athens
> digi if a hf user is going gate,wide,wide or a vhf user going
> wide,gate,gate,wide,wide the use of 2Xwide at the end is the cause
> of many colisions hear in the athens ,atl area we should decide
> on a standard for this and so that we can properly space the gates
> Bill if there are only 12 users in ur area how in the world did hf gate
> trafic shut down ur system and interfer with ur event.
> we have 6 users in athens myself having a mobile, another 2 mobiles
> and wb4vnt some times has 2 or 3 stations up in addition to a digi and
> a gate way, also we are going to add a Gatega or gagate which ever itis\
> supposed to be. We also get all of the trafic from atl and alabama
> most of the time as well as trafic from western NC.  We still have no
> problems with maxed out channels. (one of the alabama staions is YOU)
> Im sorry Bill i hope u don't take this to personal but ur making
> a mtn. out of a mole hill!!!!
> Even when i had my Jeep (no gunrack :)) sending position reports every
> 30 sec to see how close our maps were there were still no problems.
> The only thing that i see as a small problem that needs to be addresed
> is this X2 wides on gate trafic it does cause problems and we need
> to fix it with a nag msg or some thing.
>
> Thanks
> Lynn N4YCI
> PS Im puting on the fire proof suit bill so put a match to the torch :)-----------------------
Hi Lynn, no need to put on your fireproof suit Hi. Yes i noticed that
W7LUS hasen't been on for a while other then his 18 wheeler W7LUS-14. No
never did have any problems with VHF traffic other the there are several
users in your area that insist on keyboarding using a path something like
Relay,KD4DLT-7,N4NEQ-2,N4KMJ-7,N4NR-7,WIDE,WIDE. No need to tell you
who i'm talking about either with this path, then local keybaording gives
us everything several times. We locally just use KE4EER-5 nothing else!!.
I have seen many other variations of that path. No Lynn like i said there
has not been that problem lately since W7LUS used to keyboard with the
fellow up in Michigan. But the reason i was concerned with all the talk
on here about more and more gates beaconing to VHF. Path's should be
adjusted many times to fit the situation, i for one change mine very
often depending if i'm using my beams or an omni antenna, and also by
the direction my beams are pointing. You APRS users in the Atlanta area
have a great setup, but it takes cooperation between ALL area users not
just a couple. The biggest problem i see (That you don't see) is that the
N4KMJ-7 has a realy realy bad receiver, but a great transmitter,
therefore we hear everything beaconed trough it but can't send nothing
back trough it. I have done some tests using my stacked beams and 300w
and still cannot hit that digi, yet it shows in my D list as receiving
it direct!. That realy is a problem. Anyway i better get off this wagen
or i will get Bitched at again for posting messages that are to Loooong.

Bill KE4EER
```

---

319. Re: [APRSSIG:7367] Re: Good Ol' Boy Icon

From: n2czf@gate.net
Date: Mon, 11 Mar 1996 18:42:56 -0500
To: aprssig@tapr.org
Message-ID: <199603112342.SAA36684@osceola.gate.net>
Rendered body type: text/plain

I took the GPS and the HT but no TNC or outdoor antenna to Daytona. Maybe next
year... I wonder if there is a Motorcycle ICON at all, never took a look.

73's De Rich N2CZF

```
n2czf@gate.net
Jupiter Farms Florida
```

---

320. Re: [APRSSIG:7384] HF gate solution

```
From: n2czf@gate.net
Date: Mon, 11 Mar 1996 18:48:40 -0500
To: aprssig@tapr.org
Message-ID: <199603112348.SAA30006@osceola.gate.net>
Rendered body type: text/plain
```

```
GREAT Idea!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

321. Re: [APRSSIG:7447] Enough is Enough!

```
From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 11 Mar 1996 18:38:51 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9603111850.A12968-b100000@acme>
Rendered body type: text/plain
```

```
On Mon, 11 Mar 1996, Keith Sproul wrote:

> Enough is enough, the crap on this mailing list has gotten WAY out of control.
>
> It was NOT designed to be a flame-fest... Go do that on rec.radio.something.
>
> I have had SEVERAL people either tell me that they have un-subscribed or that
> if it doesn't calm down that they WILL un-subscribe..

    Thank you Keith - My finger was getting tired of hitting the delete
key on 120 out of the last 135 message. I believe that there might be a
bunch of folks like me who have just been sitting back, reading the sub
for the last couple of month, afraid to pop in due to:
    1) Lack of knowledge (due to our refusal to take the time to
       shift throught all the doo doo to find any worthwhile imformation.
    2) A great desire not to get our hinies singed. (Once burned, and never
       forgotten.)
   Can you imagine what would happen at the Dayton Eyeball if everybody
showed up with their sholder chips. We'd have to call out the riot squad.

   Wether this thing is moderated or not, I'll lerk around in the
background, sharing what limited knowledge I have when the need arises.


John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address:  39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
```

---

322. [APRSSIG:7401] Re: Is this possible???

```
From: n2czf@gate.net
Date: Mon, 11 Mar 1996 19:00:54 -0500
To: aprssig@tapr.org
Message-ID: <199603120000.TAA27176@osceola.gate.net>
Rendered body type: text/plain
```

```
<---- Begin Forwarded Message ---->
Date: Sat, 9 Mar 1996 16:15:14 -0600 (CST)
Reply-To: aprssig@tapr.org
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
To: aprssig@tapr.org
Subject: [APRSSIG:7401] Re: Is this possible???


>>Bill, I have said it before, I'll say it again,,,the GATE must ID sooner
>>or later....generally once every 10 mins....elsewise its time to get the
>>DF team on alert...

>>My ID string is:

>>KD4UYR>ID KD4UYR KD4UYR-1/M ECHO/D GATEFL/G KD4UYR-7/N

>>Look through your beacon list and find it!

>>de KD4UYR
```

And also many GATE's do use the DIAMOND ICON to state that they are a GATE. If the ID string get's erased by a APRS BTEXT look for the Diamonds. Now if the station has not set their Beacon for the non-operative APRS baand that is a different story! I have always set my beacon to to every 30-45 mins if I am working in a single band mode. This way the diamond will show up even if I am on the other band, as far a proper ID the ID string as Kevin pointed out will come out to satisfy FCC regulations. It will not stay on screen since the APRS BTEXT will take it over but with these two their is enough ID'ing to keep everyone informed.

<---- End Forwarded Message ---->

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

323. Re: [APRSSIG:7466] Newsgroup

From: "David G. Henderson" <daveh@moose.erie.net>
Date: Mon, 11 Mar 1996 19:07:39 -0500
To: aprssig@tapr.org
Message-ID: <199603120009.TAA19883@moose.erie.net>
Rendered body type: text/plain

On 11 Mar 96 at 15:14, Randy Hall wrote:
> Is it time to turn this sig into a news group?

Great idea. Let's do it!

73,
Dave, N3EOY

---

324. Re: [APRSSIG:7440] Re: OWLY

From: n2czf@gate.net
Date: Mon, 11 Mar 1996 19:12:03 -0500
To: aprssig@tapr.org
Message-ID: <199603120012.TAA21094@osceola.gate.net>
Rendered body type: text/plain

Don't know about everyone else but my Delete Key is seeing quite a bit of use!

At one time I read every message on the sig, takes a LONG time to DL all of the messages into my mailbox now so I don't even bother reading everything anymore.

For now Delete works fine but way things are going I think a moderator may be necessary if this keeps up!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

325. Re: [APRSSIG:7452] Re: Enough is Enough!

From: Bob Lorenzini <hwm@netcom.com>
Date: Mon, 11 Mar 1996 16:13:04 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960311161049.101C-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

Please, if you reply to a message do not quote the complete text.

Bob - wd6dod
hwm@netcom.com

---

326. Re: [APRSSIG:7459] Packet Operating Software

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 11 Mar 1996 16:15:12 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "MANNING_P@wfum.flint.umich.edu" <MANNING_P@wfum.flint.umich.edu> (Return requested)
Message-ID: <05D133144C210184*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
IBM Compatible XT
      20 Mbit Hard Drive
      640 k Ram
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

ARRRRRRRRRRRGGGGGGGGGHHHHHHHHH!!!!!!!!!
```

```
No, it's ok.  I'll be fine.  I just thought all these had died a looong time
ago...  Hey, Mark and Keith:  how about making WinAPRS a bit more retro?

%^)

73 - Jon NW6H
```

---

327. Garmin Protocol

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Mon, 11 Mar 1996 17:00:32 -0500
To: aprssig@tapr.org
Message-ID: <3144A280.7B57@dgp.toronto.edu>
Rendered body type: text/plain

```
There was question earlier today about the Garmin protocol
check out the following doc for full info:

ftp://sundae.triumf.ca/pub/peter/grmnprot.html
```

[Attachment: grmnprot.html; text/html; 11,450 bytes]

---

328. wealth of info on NMEA sentences and GPS s/w

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Mon, 11 Mar 1996 17:08:14 -0500
To: aprssig@tapr.org
Message-ID: <3144A44E.734@dgp.toronto.edu>
Rendered body type: text/plain

```
Check out the following URL for a wealth of NMEA and GPS
software, NMEA+GPS FAQ's, NMEA and proprietary serial
communications specs for popular GPS's such as Garmin
and Magellan.

Note the C++ source code to a class library that reads and
writes NMEA data from a comm port.

ftp://sundae.triumf.ca/pub/peter/index.html
```

---

329. Re: [APRSSIG:7459] Packet Operating Software

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 11 Mar 1996 16:15:12 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "MANNING_P@wfum.flint.umich.edu" <MANNING_P@wfum.flint.umich.edu> (Return requested)
Message-ID: <05D133144C210184*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
IBM Compatible XT
      20 Mbit Hard Drive
      640 k Ram
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

ARRRRRRRRRRRGGGGGGGGGHHHHHHHHH!!!!!!!!!



No, it's ok.  I'll be fine.  I just thought all these had died a looong time
ago...  Hey, Mark and Keith:  how about making WinAPRS a bit more retro?

%^)

73 - Jon NW6H
```

---

330. eer read this! new digi site!

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Mon, 11 Mar 1996 22:50:54 EST
To: <APRSSIG@tapr.org>
Message-ID: <11MAR96.24676289.0021.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
Bill
deleted ur last msg after reading it but wanted to ask u if what u
think about a digi in Ardmore TN? i may have access to a site
there for free.
Would this be to close to ur digi?
Let me know and ill persue it if u think it might be helpful to link
u guys up with Nashvill
```

```
73 Lynn
ps pardon the bandwidth to every one else
```

---

331. Re: [APRSSIG:7468] Re: EME for everyone

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 11 Mar 1996 22:11:44 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603120411.WAA15936@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Steve Dimse sez:
>
> Remember, you get multiple readings at multiple different recievers for
> each pass through the beam, all with different dopplers and arrival
> times. It is exactly the same mathematical problem as your little
> handheld GPS solves every second, but  with one transmitter and multiple
> recievers. And it only takes a single blip, not multiple passes. There
> would be no way to match up the blips from different orbits, unless you
> already had the keps!

Survey disagrees.  If you know that a station is, indeed, the same object on
2+ passes, you can solve the equation to a Keplerian set.  Did that research
about 5 years ago.  I'd not recommend it save to drive one bonkers, though.  I
first started thinking about this when DOVE was young, and actually asked N4HY
to give me 4 consecutive passes with carrier and no modulation.  He "politely"
declined, and on reflection, I agree: It'd have drained the batteries.
Specific AOS and LOS times and azimuths are required to solve the series.  TCA
is obviously available.  Dopplers over time are also achievable.

And, you're correct in the analogy that it's the same matrix the GPS receiver
solves all the time.

73, gerry
```

---

332. Re: [APRSSIG:7466] Newsgroup

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Mon, 11 Mar 1996 23:35:10 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960312043510.1b37a898@sun.lssu.edu>
Rendered body type: text/plain

```
At 03:16 PM 3/11/96 -0600, you wrote:
>Is it time to turn this sig into a news group?
>
>Then messages can be threaded together, and killed or skipped.
>
>rec.radio.amateur.digital.aprs
>
>Randy
>
   One of the best suggestions, lately, IMHO. Would that include a reliable
archive source?

                              Pete, wa4hei
```

---

333. Re: [APRSSIG:7466] Newsgroup

From: rwf <rwf@mindspring.com>
Date: Mon, 11 Mar 1996 23:58:36 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960311235838.29ff8346@mindspring.com>
Rendered body type: text/plain

```
At 03:14 PM 3/11/96 -0600, you wrote:
>Is it time to turn this sig into a news group?

NO!  Not all of get/read news groups.
News groups are so full of SPAM that they make our little disagreements look
like a teaparty!

Ralph
```

---

334. WHATSITGPSANTENNA

From: mark.endicott@nashville.com
Date: Mon, 11 Mar 96 23:35:16
To: aprssig@tapr.org
Message-ID: <199603120542.XAA27582@tapr.org>
Rendered body type: text/plain

Ever since I got my first GPS I have found the subject of external antennas interesting and thought provoking. There have been several attempts to use non-amplified patches with mixed results. It was not until Bob (APR) mentioned that he was comparing a vertical 1/4 wave whip that I realized that the miracle of lock could be accomplished with something other than an amplified antenna. I also thought that it would be better if I could use a standard NMO type mount on top of my vehicle. Slamming doors on coaxial cable at 1500 MHz didn't seem like a good idea. I mounted a 1/4 wave antenna, 1.75 in. tall, on the roof of my Jeep and it did in fact lock.

However, I soon found out that the birds overhead and at high angles were seldom visible on the GPS 45 screen. It seemed obvious that a vertical antenna was not the answer. Remembering the patch antenna articles, I decided to squash the vertical antenna down to a flat disk. I cut a 3.5 in circle out of PC board with a circle cutter and bolted it to the 5/16 (24) stud that protrudes from the same 1/4 wave mount that I had been using. The mount holds the disk about an inch off the surface of the roof. I had 17 feet of RG-58 cable already attached to the mount. To my surprise, instant lock, and the high sats. were now visible. The signal strength was not equal to the attached antenna standing beside the car, but it was useable. Next, I replaced the RG-58 with Mini-8 and cut it down to about 10 feet long. Now it works better, total cost "cheap". From my location and with my GPS-45 I have had no problems with this "antenna thing" for the last week or so.

I have a few questions for you engineers that know about this stuff.

1. Assuming that at uhf, capture area is an important consideration, should I try a pizza pan?

2. Knowing that the diameter of the antenna element effects the Q and bandwidth, what the heck have I done? Is this antenna really horizontal or is it a very broad band, but short, vertical? Or, is it just a hunk of metal that works?

3. Without matching sections what is the impedance of a center fed pizza pan that may approximate a 1/2 wave or full wave at 1500 MHz. Or, does it matter with the GPS-45?

4. What about amplifiers? I don't see why one of the little 20db modules wouldn't work. or perhaps a good FET, any ideas?

I have now made three of these little "things" and they all work the same. One used a Larsen mount and the others used an Antenex mount, no noticeable difference. A butter tub makes a good radome, a contribution from a Nerd friend of mine. Cut a hole in the lid and put it around the NMO mount and snap the top on. WARNING yellow tubs make you look like a taxi.

I am only posting this because Kieth has chewed us all out about flames and I feel safe.

Patent Pending...........Mark WB0NOO

```
 __________________________________________
|                                          |
|              Mark Endicott               |
|             P.O. Box 148242              |
|       Nashville, Tennessee 37214         |
|                 WB0NOO                   |
|       mark.endicott@nashville.com        |
|                                          |
|__________________________________________|
```

335. Re: [APRSSIG:7481] eer read this! new digi site!

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 12 Mar 1996 00:41:26 -0800

To: aprssig@tapr.org
Message-ID: <314538B6.2BF0@hiwaay.net>
Rendered body type: text/plain

```
HOLCOMB, GREGORY FRA wrote:
>
> Bill
> deleted ur last msg after reading it but wanted to ask u if what u
> think about a digi in Ardmore TN? i may have access to a site
> there for free.
> Would this be to close to ur digi?
> Let me know and ill persue it if u think it might be helpful to link
> u guys up with Nashvill
>
> 73 Lynn
> ps pardon the bandwidth to every one else-------------------------------------------
Well Lynn actually Ardmore,TN is about 30 NW of KE4EER-5, i guess that
would depend on it's coverage but don't think it would hurt it any. I
don't think we have to much trouble getting to Nashville, it's Atlanta
that we have a hard time reaching, and that's what's so bad about N4KMJ-7
if it's receiver was working the way it should that would be a great digi
location. Jack told me that he knows about the receiver problem due to
all the other digi's on the same site. But in answer to your question i
don't think it would hurt us any to have a digi in Ardmore if it is a low
power digi.

Bill KE4EER
```

---

336. Re: [APRSSIG:7482] Re: EME for everyone

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 12 Mar 96 03:13:53 -0500
To: <aprssig@tapr.org>
Message-ID: <199603120812.DAA16134@newworld.bridge.net>
Rendered body type: text/plain

```
>Steve Dimse sez:
>>
>> Remember, you get multiple readings at multiple different recievers for
>> each pass through the beam, all with different dopplers and arrival
>> times. It is exactly the same mathematical problem as your little
>> handheld GPS solves every second, but  with one transmitter and multiple
>> recievers. And it only takes a single blip, not multiple passes. There
>> would be no way to match up the blips from different orbits, unless you
>> already had the keps!
>
>Survey disagrees.  If you know that a station is, indeed, the same object on
>2+ passes, you can solve the equation to a Keplerian set.  Did that research
>about 5 years ago.  I'd not recommend it save to drive one bonkers,
>though.  I
>first started thinking about this when DOVE was young, and actually asked
>N4HY
>to give me 4 consecutive passes with carrier and no modulation.  He
>"politely"
>declined, and on reflection, I agree: It'd have drained the batteries.
>Specific AOS and LOS times and azimuths are required to solve the series.
>TCA
>is obviously available.  Dopplers over time are also achievable.

But that isn't the situation here...all the government "fence" gets is a
bunch of pings...it must be able to get the keps from a single pass.
There is no way for the system to know which set of pings are from the
same object. I agree there is a way to do it for a single object which
can be identified over a series of passes, but that info isn't available
to the gov't system.

Steve
```

---

337. Re: [APRSSIG:7466] Newsgroup

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Tue, 12 Mar 1996 09:14:24 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9603120814.AA01817@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

```
Randy Hall writes:
>
> Is it time to turn this sig into a news group?
>
> Then messages can be threaded together, and killed or skipped.
```

>
> rec.radio.amateur.digital.aprs
>
> Randy

Yes! Who can get the ball rolling faster?

--Shannon, DL6SEU

---

338. Re: Position tracking via WO-18

From: kc4yer@amsat.org (Philip Chien)
Date: Tue, 12 Mar 1996 04:08:54 -0400
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <v01510101ad6ad37f5dfc@[155.212.21.16]>
Rendered body type: text/plain

Bob Bruninga <bruninga@nadn.navy.mil> said in response to a question by
Dave Guimont <G_DGUIMONT@qualcomm.com>:

```
>Dave asked for the BPSK uplink frequency for the WO-18 digipeater,
>presumably to try to digi an APRtrak position report like we did with
 ^^^^^^^^^^

>SPRE.  If WO-18 is going to operate continuously in digipeater mode,
>then this satellite could be the basis for world wide amateur mobile
                     ^^^^^
>vehicle position reporting.
```

<assorted comments about how APRS is so efficient and wonderful deleted>

I did not see the original message from Dave Guimont. Only Bob's response
which appeared publicly in the AMSAT-BB server.

But with qualifying words like 'presumably' and 'could' I've got to wonder
what the original question was, and whether or not it had anything to do
with APRS, or even position location at all. On the face of it all I can
discern from the original message is that the sender asked what is the
uplink frequency for WO-18.

With Bob's forceful (to use a tactful term) encouragement for APRS as the
world standard for tracking and position location transmissions, and past
history of encouraging the use of APRS even when it's been actively
discouraged I've got to question what's the background behind this question
and answer - or even why this answer is appearing publicly in the AMSAT-BB
server.

I do not know whether or not the original question was a public question in
the APRS sig, or a private E-mail request. But I've got to really question
just posting an answer in to the AMSAT-BB and APRS sig which encourages the
use of APRS without any detail about the original question. It's a
fundamental rule of netediquite to provide enough information from the
original question when responding publicly, so it can be understood in
proper context.

Bob's post brings up several questions:

1) What was the original question?

2) Did it even have anything to do with APRS?

3) Has the use of APRS been sanctioned or condoned by the WO-18 control
operators?

4) Has the use of APRS been discouraged by the WO-18 control operators?

5) Why is the sky blue? (well, I could look that one up ...)

>like we did with SPRE.

I felt that I had to respond to that clause separately. Before STS-72 Bob
was heavily hyping APRS and SPRE and how wonderful it was. Fine, SPRE was
the first amateur spacecraft to authorize and sanction the use of APRS and
it's certainly okay to promote what you're doing (within reasonable
limits).

Overall I've got to say that I was underwhemed by the use of APRS with
SPRE. I've previously posted my comments as an observer, and somebody who

tried unsucessfully to get through.

But I've got to question the claims made about how wonderful APRS would be for spacecraft applications. There were only a couple of CONUS passes by SPRE before it failed, but that's not APRS's fault. Within those passes there were what - under 100 successful contacts? Overall less contacts than many SAREX missions running packet with a similar period. So I've got to question the claims about how efficient APRS is, and the continued claims after SPRE's flight.

Philip Chien, Earth News - space writer and consultant PCHIEN@IDS.NET

```
   __                                 __^__          __________
  |   \                          +---/     \---+    (=========
  |____\___________              +---\_____/---+     //
  >____)|        | \__                    \  \______//___
 >/     |________|    \                   [         _____\
 >|____________________\                   \_______/
 Roger, go at throttle up         CHR$(32) the final frontier
```

---

339. Re: [APRSSIG:7455] Re: EME for everyone

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 12 Mar 1996 07:34:59 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9603120710.A6708-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I don't really see how a horizon to horizon measurement can be derived from the reflection off of a spacecraft passing throught he Norad curtain. Considering the width of the beam and, at least for grazing satellites (not Cows!), it would be an instantaneous ping. Higher objects would be in the beam longer, but certainly not provide a horizon-to-horizon presence.

Steve Dimse had suggested to view the problem as though it was an inverted GPS geometry. That makes some sense if a precise measurement of time is available and synchronizing all receivers. But that does not explain how a doppler measurement can provide a angle and speed.

My guess is that no single pass occurance would be useful to fully characterize an unknown object. The elapsed times of passage of a single unknown would ultimately infer orbital period and therefore the trajectory semi-major axis. Other measures might give precise position at the time of curtain passage. I don't yet see how the curtain is used to identify eccentricity, argument of perigee, inclination, or the ascending node.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
http: //ourworld.compuserve.com/homepages/bmanley

On Mon, 11 Mar 1996, Gerald J Creager wrote:
>
> Horizon acquisition to closest approach (0-doppler) to horizon LOS. With at
> least 2 passes, you can infer angles for both (thrree passes is better to
> refine the longest in-sky dwell time) and back into angles. If you've got
> instantaneous doppler measurements for all of the passes, it's straightforward
> math, with a little help from Johannes Kepler to back into angles as well as
> velocities... angular velocities, at least!

---

340. Re: [APRSSIG:7466] Newsgroup

From: Tom Busch <tomb@avoca.nwscc.sea06.navy.mil>
Date: Tue, 12 Mar 1996 08:42:27 -0800
To: aprssig@tapr.org
Message-ID: <3145A973.21C8@avoca.nwscc.sea06.navy.mil>
Rendered body type: text/plain

Randy Hall wrote:
>
> Is it time to turn this sig into a news group?
> I think all lists go through this, trouble is, not everyone has Usenet
access. Usually the solution ends up being to start a news group, and
the articles get posted to both. Will the list server handle this?

TomB

---

341. Re: [APRSSIG:7466] Newsgroup

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 12 Mar 1996 09:08:08 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960312140808.2f875b5e@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 15:16 3/11/96 -0600, you wrote:
>Is it time to turn this sig into a news group?
>
>Then messages can be threaded together, and killed or skipped.
>
>rec.radio.amateur.digital.aprs
>
>Randy
>

Don't think so; then you really open it up to all sorts of trash & spam.
The devil you know is preferable... Bob
```

---

342. Re: Position tracking via WO-18

From: H Smith <hbs@crl.com>
Date: Tue, 12 Mar 1996 06:59:54 -0800 (PST)
To: Philip Chien <kc4yer@amsat.org>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960312065325.1645J-100000@crl10.crl.com>
Rendered body type: text/plain

```
Phillip,

I have the following question about APRS.  It there a practical use for
APRS?  It seems to me that it is nothing but a toy (at best).  The
original post concerning WO-18 even admitted that "it was fun to watch...".

Thanks,

Smitty, NA5K

Henry Smith (hbs@crl.com)
```

---

343. (no subject)

From: AZWDC@aol.com
Date: Tue, 12 Mar 1996 10:15:49 -0500
Message-ID: <199603121515.KAA28170@emout05.mail.aol.com>
Rendered body type: text/plain

```
group" flame

Hi Bob: Hav'nt heard from you in a while...let me know how youre system is
developing
in CA. Wing..73  DE JIM
```

---

344. SPRE Track History

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Mar 1996 10:50:51 -0500 (EST)
To: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960312103332.2592A-100000@greatlakes>
Rendered body type: text/plain

```
I finally got around to editing together a track history file of the SPRE
mission from all the log files submitted.  This file may be replayed in
APRS or APRtrak and you will see the track history of the spacecraft and
the positions of all stations that were successful in digipeating their
position via the spacecraft.

     During replay, you will see the same thing that APRS users saw
during the mission.  You will see the spacecraft approach the land mass
and when it comes in range, you will begin to see stations popping up on
the map.  The only areas that reported contacts were in the US, South
Africa, Japan, Hawaii and Austrailia.

     We are still trying to analyze the GPS position reports received that
actually reported the SPRE position, but for the purpose of this file, I
entered these positions from orbital predictions.  I think if you replay
this file, you will find the visual representation of contacts to be far
more interesting than watching the teletype style form of SAREX packet
contacts that was designed over 10 years ago.

     During the first REPLAY, zoom out to the whole world so you can see
```

```
all contacts in the file.  THen you can zoom into to specific areas and
replay again to see better detail.

The file name is SPRE.HST which has been posted as spre.zip for ftp from
tapr.org in the directory tapr/SIG/aprssig/upload.  This file also
includes the file SPRE.BK which can be LOADED into APRS/trk to be able to
see the actual packets and locations of all stations without having to do
continuous replays.
```

---

345. [APRSSIG:7425] Re: Can't we all get along?

From: dwetzel@uswest.com (Doug Wetzel)
Date: Tue, 12 Mar 1996 08:55:21 -0600
To: aprssig@tapr.org
Message-ID: <14592ca0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
________________________________________________________________________________
Subject: [APRSSIG:7425] Re: Can't we all get along?
From:    "David W. Barrow III" <dbarrow@omnifest.uwm.edu> at Internet-Mail
Date:    3/10/96  8:27


Oh, shut up already.
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
------
        It would appear that Jim answers his own quotation....

        It would further appear that the answer is in the negative.

Dave, N9UNR
dbarrow@omnifest.uwm.edu

P.S.  If 73 means "Best Wishes" - what does Best 73 mean?
        Best Best Wishes???????

No, No -

It's supposed to be Best 73's.  That means Best Regardses......



;-)

Doug
KC7CO
```

---

346. Re: [APRSSIG:7485] WHATSITGPSANTENNA

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Tue, 12 Mar 1996 11:28:14 EST
To: <aprssig@tapr.org>
Message-ID: <12MAR96.12388307.0069.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
This post as well as Bobs post about the 1/4 got the cogs turning about
something besides Microbial Ecology (my hard class) any way the other
day in class when i should have been litening i thought what about a
scaled down version of the egg-beater. It would provide some over head
and im going to go out on a limb and say that i think that gps is
circular in polarization and this might help increace signal strenth.
I have no idea how hard one of these things would be to make but i think
that it could be easily mouted to a NMO but a N mount would provide less
loss.
73 Lynn
N4YCI
```

---

347. Re: [APRSSIG:7445] Garmin 40/45 FAQ + NMEA FAQ + C++ NMEA Source Code

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 12 Mar 1996 11:00:30 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad6b5b12b373@[199.1.11.147]>
Rendered body type: text/plain

```
>Recent posting to this news group have requested Garmin 45
>and NMEA info.

I would think a pointer to the location of this information
whould have served better than a 0.25 Meg E-mail message.

I wonder what that 100K+ attachment did to AOL and Progigy users.

"No good read goes un-pun-ished."

 but thanks for the thought ... followed by sound of a hand being slapped.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

348. Re: [APRSSIG:7493] Re: Position tracking via WO-18

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Mar 1996 12:31:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960312123021.5246F-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 12 Mar 1996, H Smith wrote:

> Phillip,
> I have the following question about APRS.  It there a practical use for
> APRS?  It seems to me that it is nothing but a toy (at best).  The
> original post concerning WO-18 even admitted that "it was fun to watch...".

WB4APR REPLY COMMENT:  Tell that to the off shore boating contingent of
HAM radio who use the pacsats to report their position to friends/family
back home...
```

---

349. Re: [APRSSIG:7497] Re: WHATSITGPSANTENNA

From: geh@aip.org (gordon_hardman)
Date: Tue, 12 Mar 96 12:32:10 EST
To: aprssig@tapr.org
Cc: s@aip.org
Message-ID: <9603121732.AA19784@aip.org>
Rendered body type: text/plain

```
I recently had the opportunity to analyze the "eggbeater" (crossed
full-wave loops) antenna. Its pattern is very similar to that of a
crossed dipole, depending on how you mount it above the ground plane.
Both of these have thet property that th pattern is only truly
circularly polarized directly overhead, and collapses to linear on the
horizon. Also, max gain occurs overhead, where what you would like is
max gain on the horizon, since the slant range to the birds is longer.
The simplest antenna which seems to satisfy these requirements is the
quadrifilar helix. A full-wave quadrifilar is no more difficult to
make than the full-wave eggbeater. The quadrifilar, and to some extent
the eggbeater are great antennas in that they are relatively
unaffected by modest ammounts of nearby metal (other antennas), both
in their pattern and swr.
An interesting alternative to try might be the canted turnstyle
antenna. I built one of these for my Magellan Trailblazer XL, with an
NEC pseudomorphic FET at the base- it works well, much better
indicated signals on the idiot bars on the display. I also used a
disposable plastic coffee sup as a radome. I have not put it on my
vehicle yet, I was thinking of fixing it to my mountain bike. I used
the FET because it gave about 8-10 dB of gain with only a couple mA of
current from the GPS's 5V on the center conductor, rather than the
25-150 mA some active antennas seem to want.
gordon
hardman
<geh@aip.org>
```

---

350. Re: Position tracking via WO-18

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Tue, 12 Mar 96 18:02:51 UTC
To: bruninga@nadn.navy.mil
Cc: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <95488@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
WB4APR said the following:

> Dave asked for the BPSK uplink frequency for the WO-18 digipeater,
```

> presumably to try to digi an APRtrak position report like we did with
> SPRE. If WO-18 is going to operate continuously in digipeater mode,
> then this satellite could be the basis for world wide amateur mobile
> vehicle position reporting. The 1200 baud BPSK uplink is 145.900.

I think this is wrong. I built the WO-18 spacecraft receiver and it has NO BPSK capability. It is straight FSK, just like in AO-16 and LUSAT.

The downlink on WO-18 (like its mates) is BPSK. Perhaps there was confusion because the modulation formats are different on up- and down-link?

73 de Tom, W3IWI

---

351. Position reporting via WO-18

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Mar 1996 13:40:10 -0500 (EST)
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960312131720.7122A-100000@greatlakes>
Rendered body type: text/plain

In response to some missinformation in Mr. Chen's panning of APRS experiments, I saw nothing in the AMSAT invitation to digipeat via WO-18 that indicated who's packets were good, and who's were bad.

Further, I have never advocated APRS or APRtrak stations to use MIR as a space digipeater, and in any case where my comments where missinterpreted to think so, I have soundly restated that MIR should not be un-invitedly used as a digipeater for APRS packets. What I had observed is a large number of stations digipeating LONG BEACONS containing their CITY and STATE via MIR. I was only suggesting that those stations that seem to be compelled to digipeat via, or to friviously connect to MIR, could significantly reduce their packet size (and QRM potential) by using a formatted LAT/LONG or grid square report instead so that at least their packet could be automatically plotted on a map.

Clearly MIR is a precious international amateur radio asset in space and should not be abused by anyone. I have endorsed and fully support an AMSAT proposed message that would clearly state that UI frame digipeating via MIR is strongly discouraged whether they are EGO beacons or APRS position reports.

I would, however, propose an exception for aircraft and ships at sea more than 200 miles offshore where their chance of a one packet position report would cause no QRM, and where such a single packet would have enough value even by Mr Chen's standards.

---

352. Re: [APRSSIG:7259] Freq Coordination of 145.79

From: dwetzel@uswest.com (Doug Wetzel)
Date: Tue, 12 Mar 1996 12:17:06 -0600
To: aprssig@tapr.org
Message-ID: <145c2040@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

<SNIP>
Since dwetzel@uswest.com is currently having a coordination problem, I suggest that he be drafted to collect information from everyone on the SIG about states that are coordinated. SEND IT TO THE SIG so that everyone knows what areas are coverd and which ones are not. Be sure you include the following kinds of information. Keep it brief. THanks

FREQ	STATE	COMMITTEE	DATE
5.79	MARYLAND	TMARC, The Mid Atlantic FM & Repeater Council	1993
		DMARC, The Digital Mid Atlantic Radio Council	
		Not "coordinated" but LISTED. Neither group "coordinates" digital users.	

<SNIP>

Hopefully our Draftee, Dwetzel will edit all responses into a nice resource file for everyone...

I have three responses so far - hardly a "file"!

Kansas
Florida
Maryland

Doug

```
KC7CO
dwetzel@uswest.com
```

---

353. Re: [APRSSIG:7496] Re: Can't we all get along?

```
From: ko4qc@ix.netcom.com (Joel Gamble )
Date: Tue, 12 Mar 1996 11:58:46 -0800
To: aprssig@tapr.org
Message-ID: <199603121958.LAA28981@ix3.ix.netcom.com>
Rendered body type: text/plain
```

```
You wrote:
>
>
>_______________________________________________________________________
________
>Subject: [APRSSIG:7425] Re: Can't we all get along?
>From:    "David W. Barrow III" <dbarrow@omnifest.uwm.edu> at
Internet-Mail
>Date:    3/10/96  8:27
>
>
>Oh, shut up already.
>>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>"Can't we all just get along?" -- R. King, 1994.
>------
>        It would appear that Jim answers his own quotation....
>
>        It would further appear that the answer is in the negative.
>
>Dave, N9UNR
>dbarrow@omnifest.uwm.edu
>
>P.S.  If 73 means "Best Wishes" - what does Best 73 mean?
>        Best Best Wishes???????
>
>No, No -
>
>It's supposed to be Best 73's.  That means Best Regardses......
>
>
>
>;-)
>
>Doug
>KC7CO
>
>
      How about just"talk to you later...bye!"
     Always works for me!!
                                 Ko4qC
```

---

354. Re: [APRSSIG:7459] Packet Operating Software

```
From: Arthur Booten <N2ZRC@gnn.com>
Date: Tue, 12 Mar 1996 16:08:02
To: APRSSIG@tapr.org
Message-ID: <199603122108.QAA04052@gnn-2.gnn.com>
Rendered body type: text/plain
```

```
On Mon, 11 Mar 1996 12:45:14 PAUL MANNING wrote:
>
>Other than APRS software,what other types of software
>are people running???

     Gee, Paul, are you asking for a survey?  If so:

Processor: PC clone 486DX/2 50MHz
Hard Drives: 420Mb & 1,260 Mb
RAM: 12 Mb     TNC: KPC-3 Ver. 5.1

Packet programs:
     Graphic Packet Ver. 1.61b
          Very versatile & easy to use, up to 10 simul-
        taneous connects, saves to hard or floppy disk,
        supports 7+, many other features.
     WinPacket Ver. 5.4
          Built-in scripting, can be used in a multitask-
        ing environment, will automatically pick up mail
        and new bulletin list from BBS with 1 click.

     APRS 7.5

     MacAPRS for Windows Beta 0.2.5

     Kantronics Pacterm.com (as a fall-back)

     I also use (for extremely portable use) a Sharp Wizard
electronic organizer as a "Dumb Terminal."  It may not be
the most versatile (TNC's in Terminal Mode, NO SOFTWARE!,)
but the whole packet station (TNC, H-T, roll-up J-pole & the
Wizard) weighs in at UNDER THREE POUNDS, AND IS TOTALLY
PORTABLE (hence the alias TPPSBX, or Totally Portable Packet
Station, Bronx.)


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

---

355. Re: [APRSSIG:7485] WHATSITGPSANTENNA

From: Arthur Booten <N2ZRC@gnn.com>
Date: Tue, 12 Mar 1996 16:07:26
To: APRSSIG@tapr.org
Message-ID: <199603122108.QAA04045@gnn-2.gnn.com>
Rendered body type: text/plain

```
On Mon, 11 Mar 1996 23:51:13 mark endicott wrote:
>
>3.  Without matching sections what is the impedance of a
>center fed pizza pan that may approximate a 1/2 wave or
>full wave at 1500 MHz. Or, does it matter with the GPS-45?
>
     This depends on several factors outlined below:

1) Is it a small, medium or large pie pan;
2) Is it Neapolitan, Sicilian, Deep-dish or Stuffed;
3) Does it have anchovies, pepperoni or other "extras"?

     I'm not sure if you were joking or not with the "pizza
pan" antenna, but it made me laugh so hard I cried!  73


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

---

356. Re: [APRSSIG:7498] Re: Garmin 40/45 FAQ + NMEA FAQ + C++ NMEA S

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Tue, 12 Mar 1996 17:17:55 -0000
To: aprssig@tapr.org
Message-ID: <19960312171806.04054d69.in@inertia.net>
Rendered body type: text/plain

```
On 12 Mar 96 at 11:05, Robert Winingham wrote:

> >Recent posting to this news group have requested Garmin 45
> >and NMEA info.
>
> I would think a pointer to the location of this information
> whould have served better than a 0.25 Meg E-mail message.
>
> I wonder what that 100K+ attachment did to AOL and Progigy users.
>
> "No good read goes un-pun-ished."
>
>  but thanks for the thought ... followed by sound of a hand being
>  slapped.
>
> 73
>
> Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
>
>
```

```
Yea!
```

---

357. Re: [APRSSIG:7499] Re: Position tracking via WO-18

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Tue, 12 Mar 1996 17:20:34 -0000
To: aprssig@tapr.org
Message-ID: <19960312172106.0407b441.in@inertia.net>
Rendered body type: text/plain

```
On 12 Mar 96 at 11:48, Bob Bruninga wrote:

> On Tue, 12 Mar 1996, H Smith wrote:
>
> > Phillip,
> > I have the following question about APRS.  It there a practical
> > use for APRS?  It seems to me that it is nothing but a toy (at
> > best).  The original post concerning WO-18 even admitted that "it
> > was fun to watch...".
>
> WB4APR REPLY COMMENT:  Tell that to the off shore boating contingent
> of HAM radio who use the pacsats to report their position to
> friends/family back home...
>>
  WJ8T Comment of the day:  Tell that to the Event Coordinator as
he's watching his Bike/Foot/Marathon Race and knows precisely where
his SAG/MECH Wagons are!!!!
```

---

358. Re: Position tracking via WO-18

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Tue, 12 Mar 1996 17:31:26 -0500 (EST)
To: H Smith <hbs@crl.com>
Cc: Philip Chien <kc4yer@amsat.org>, amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960312172819.10719A-100000@paccomm>
Rendered body type: text/plain

```
On Tue, 12 Mar 1996, H Smith wrote:

> Phillip,
>
> I have the following question about APRS.  It there a practical use for
> APRS?  It seems to me that it is nothing but a toy (at best).  The
> original post concerning WO-18 even admitted that "it was fun to watch...".
>
> Thanks,
>
> Smitty, NA5K
>
> Henry Smith (hbs@crl.com)


I'd wager the people who work emergencies don't think it a toy. Picture
the ease of tracking small boats in a flooded area as they look for
stranded people and animals and can't see the ground to tell where they are.

Or ask the US forces in Bosnia who have ordered a system to monitor
border patrols and markers (based on APRS technology).

>From one perspective, all of ham radio consists of playing with toys. But
some good comes of it.

Gwyn, W1BEL
```

---

359. Re: [APRSSIG:7490] Re: EME for everyone

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 12 Mar 96 18:08:14 -0500
To: <aprssig@tapr.org>
Message-ID: <199603122306.SAA04756@newworld.bridge.net>
Rendered body type: text/plain

```
>I don't really see how a horizon to horizon measurement can be derived
>from the reflection off of a spacecraft passing throught he Norad
>curtain.  Considering the width of the beam and, at least for grazing
>satellites (not Cows!), it would be an instantaneous ping.  Higher
>objects would be in the beam longer, but certainly not provide a
>horizon-to-horizon presence.
You want a single ping to determine the orbit.
>
>Steve Dimse had suggested to view the problem as though it was an
```

```
>inverted GPS geometry.  That makes some sense if a precise measurement of
>time is available and synchronizing all receivers.  But that does not
>explain how a doppler measurement can provide a angle and speed.
>
OK...try this...a station in Alabama gets a doppler of +250Hz, a station
in Colorado also gets +250Hz and a station in Miami gets -100Hz. The sat
must be moving towards the first two and away from the third. A little
advanced math would tell you the exact angle and speed. Using the time of
arrival of the signal (yes, the receivers must be well synchronized)
would give the position.

>My guess is that no single pass occurance would be useful to fully
>characterize an unknown object.  The elapsed times of passage of a single
>unknown would ultimately infer orbital period and therefore the
>trajectory semi-major axis.  Other measures might give precise position
>at the time of curtain passage.  I don't yet see how the curtain is used
>to identify eccentricity, argument of perigee, inclination, or the
>ascending node.
>
No, the form of kep elements we use is actually crunched down from
vectors. If you have an exact time, position in three dimensions, and
speed vectors in three dimensions, you have the precise orbit. There are
programs that convert between these two formats. Look at the keps NASA
releases on SpaceLink for the shuttle. They provide them in both formats.
The vector format is especially helpful for controlled objects...fire a
thruster, and you just have to add the delta v to the vector elements at
the time of firing.

Hams use the form we do largely for historic reasons. With them, it is
possible to manually determine satellite pass info. Vectors must be
figured with computers, and when AMSAT started, no ham had their own
computer. AMSAT has a pubication of figuring orbits without computers.
Try it by hand sometime if you want a hint of the complexity of orbital
mechanics...and develop a real appreciation for your computer!

73 de Steve, KO4HD
```

---

360. Re: [APRSSIG:7493] Re: Position tracking via WO-18

From: Ed Rogers <edwardwr@inil.com>
Date: Tue, 12 Mar 1996 17:31:56 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4b11.32.19960312233156.00698ce0@inil.com>
Rendered body type: text/plain

```
At 09:26 AM 3/12/96 -0600, you wrote:
>Phillip,
>
>I have the following question about APRS.  It there a practical use for
>APRS?  It seems to me that it is nothing but a toy (at best).  The
>original post concerning WO-18 even admitted that "it was fun to watch...".
>
>Thanks,
>
>Smitty, NA5K
>
>Henry Smith (hbs@crl.com)
>
>
Don't know about the rest of you but so far this "toy" has;

Tracked multi marine mobile USCGAUX small craft on both routine patrol and
dedicated SAR evolutions here on Lake MI...

Allowed Illinois Wing CAP to run several ground/air search teams, in real
time, with digital comms freeing voice from un-needed excess traffic...

Allowed me to get current local WX info at a glance...

Will soon ( come on Agrello ) provide instant DFing to USCGAUX units at
Station Cal Harbour, Station Wilmette and Aux Facility Waukegan. In the cold
waters off Chicago seconds count, this toy is going to save a life!!

Changed the way we think about packet radio, face it prior at APRS most 1200
baud 2 meter packet was "whats for sale or allusa messages", don't think
APRS has had an impact? Notice all the TNC's with GPS support on the box?...

But I think the most positive thing this simple program has done is to open
up our minds about what we can do with existing hardware, made us THINK, not
just talk into a mike, pound brass or whatever. I've learned more reading
```

some of the messages on this sig than from any other mode of communication
in our hobby.

Also what's wrong with having fun?

>

73
Ed
N9LCI

MESSAGE OF THE MONTH

"There are two kinds of pilots flying retracts, those who have landed gear up, and those who will"

---

361. Nashville and North etc.

From: mark.endicott@nashville.com
Date: Tue, 12 Mar 96 18:39:32
To: aprssig@tapr.org
Message-ID: <199603130044.SAA25991@tapr.org>
Rendered body type: text/plain

Bill:

Re: Franklin Tennessee Digi KF4AJO-1.
    EER-5 Huntsville.
    North of Nashville APRS activity.

I haven't been regularly seeing your digi (-5) in the Nashville area. I do, on occasion, do see your home station but I don't remember if I see -5 at the same time. I'll start watching more closely. Hopefully the new station AJO-1 will help although it's just 10 watts now. You will soon see the Williamson County EMS Station and the directors Jeep roaming the county. We need a volunteer Ham in Williamson County to get involved with this APRS project.

We see nothing North of Nashville other than KC4WPS-3 in Gallatin. I do hear that there was some activity in S. Kentucky berore my time.

We have just arranged for tower space in Clarksville. We have a 60 W station about ready to go there but need more time and warm weather. I think Clarksville will, perhaps, link us into Paducah, Ky and cover some of the Land Between the Lakes area and up I-24.

KQ4TV gave me a copy of some more detailed maps (gratefully made by N4QEA) of the Nashville area but I have been unable to make them work or get the maplist right, or something, wana Help?

```
 __________________________________________
|                                          |
|               Mark Endicott              |
|              P.O. Box 148242             |
|        Nashville, Tennessee 37214        |
|                  WB0NOO                  |
|        mark.endicott@nashville.com       |
|                                          |
|__________________________________________|
```

---

362. MFJ Packet Xtals

From: William Richarz <wricharz@ix.netcom.com>
Date: Tue, 12 Mar 1996 19:41:58 -0500
To: aprssig@tapr.org
Message-ID: <199603130045.QAA03202@ix9.ix.netcom.com>
Rendered body type: text/plain

I have a set of crystals 145.79Mhz. They are for the MFJ Data radio. Will send for $12. Hate to see them laying around when someone out there could use them.

73 de Bill

```
===========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
```

```
               URL: http://www.transprt.com/wricharz
============================================================================
```

---

363. subscribe

From: Roger Good <rogerg@usit.net>
Date: Tue, 12 Mar 1996 18:50:54 -0800
To: aprssig@tapr.org
Message-ID: <3146380E.200@usit.net>
Rendered body type: text/plain

subscribe

---

364. Re: [APRSSIG:7509] Re: Position tracking via WO-18

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 12 Mar 1996 19:52:45 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960313005245.1f6f35f4@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 04:56 PM 3/12/96 -0600, "Gwyn Reedy, W1BEL" <gwyn@paccomm.com> wrote:
>On Tue, 12 Mar 1996, H Smith wrote:
>
>> Phillip,
>>
>> I have the following question about APRS.  It there a practical use for
>> APRS?  It seems to me that it is nothing but a toy (at best).  The
[...]

>
>Or ask the US forces in Bosnia who have ordered a system to monitor
>border patrols and markers (based on APRS technology).
>
>>From one perspective, all of ham radio consists of playing with toys. But
>some good comes of it.
>
>Gwyn, W1BEL

Hmm... At first blush that sounds like US forces ordered APRS, but then
you really didn't say that; just that they ordered, "...a system...based
on APRS technology..." Did they use APRS as Smitty was asking about?

Anyway, ham radio is fun.

Bob Kirk
N3OZB
```

---

365. Re: [APRSSIG:7006] converting maps

From: loflinj@mail.yamhillesd.k12.or.us (Jack Loflin)
Date: Tue, 12 Mar 1996 19:16:57 -0800
To: aprssig@tapr.org
Message-ID: <v01540701ad6bee50af95@[198.237.200.233]>
Rendered body type: text/plain

```
Have another question for ya about maping. Was wondering if there is any
way to take my track log stuff and enter it into macaprs so I only get
little dots, not call or jeep running around. did manage to get the jeep
and call!

        -Jack
```

---

366. Re: [APRSSIG:7487] Re: EME for everyone

From: Bill Duckwitz <duckwitz@mindspring.com>
Date: Tue, 12 Mar 1996 22:30:25 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19960312223021.49e7c89c@pop.mindspring.com>
Rendered body type: text/plain

```
At 02:18 AM 3/12/96 -0600, Steve Dimse wrote:
>>Steve Dimse sez:
>>>
>>> Remember, you get multiple readings at multiple different recievers for
>>> each pass through the beam, all with different dopplers and arrival
>>> times. It is exactly the same mathematical problem as your little
>>> handheld GPS solves every second, but  with one transmitter and multiple
>>> recievers. And it only takes a single blip, not multiple passes. There
>>> would be no way to match up the blips from different orbits, unless you
>>> already had the keps!
>>
```

>>Survey disagrees. If you know that a station is, indeed, the same object on
>>2+ passes, you can solve the equation to a Keplerian set. Did that research
>>about 5 years ago. I'd not recommend it save to drive one bonkers,
>>though. I
>>first started thinking about this when DOVE was young, and actually asked
>>N4HY
>>to give me 4 consecutive passes with carrier and no modulation. He
>>"politely"
>>declined, and on reflection, I agree: It'd have drained the batteries.
>>Specific AOS and LOS times and azimuths are required to solve the series.
>>TCA
>>is obviously available. Dopplers over time are also achievable.
>
>But that isn't the situation here...all the government "fence" gets is a
>bunch of pings...it must be able to get the keps from a single pass.
>There is no way for the system to know which set of pings are from the
>same object. I agree there is a way to do it for a single object which
>can be identified over a series of passes, but that info isn't available
>to the gov't system.
>
>Steve
>

OK guys. Here might be an answer for you. I think, and will give you an
address for confirmation, that the fence is only to key the phase shift
radar on location and time of occurance to track object. Like a warning
beacon. The AF uses a very large phase shift radar to track the space
objects - junk as well as satellites. Lloyd C. Wood <woodl@cybertron.com>.
Woody works for AF at Eglin AFB where the big radar lives.

Bill

---

367. 1:2,000,000 map disk

From: n8mwz@alpha.wcoil.com (Bob Hartman)
Date: Tue, 12 Mar 1996 22:41:14 -0500
To: aprssig@tapr.org
Message-ID: <199603130341.WAA24454@alpha.wcoil.com>
Rendered body type: text/plain

Please excuse the bandwidth if this has been previously covered
in detail. Please also respond in direct email as I do not
receive the SIG. This is in regards to the USGS 1:2,000,000
CD-ROM dated 7/95 which does not appear to be in the same format
as the older versions. I had heard that the old programs would
not work correctly on this ROM. If anyone knows the steps needed
to make useful APRS maps from this disk, I would appreciate
hearing about them. If there are any special programs required,
I would appreciate their exact filename for FTP and their
location if not on the TAPR site.
Thanks in advance.

73 de N8MWZ

Bob

```
//////////////////////////////////////////////////////////////////
//// Bob Hartman, N8MWZ              Grid Square EN70        ////
//// Lima, Ohio                      40 45N, 084 06W         ////
//// <n8mwz@amsat.org>               Member ARRL, AMSAT, &   ////
//// VHF, UHF, OSCAR 13 {soon}       TAWG #OH89              ////
//////////////////////////////////////////////////////////////////
```

---

368. NE PA Maps (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Mar 1996 22:59:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960312225857.15064H-100000@greatlakes>
Rendered body type: text/plain

WB4APR REPLY COMMENT: Anyone in PA wanna help put these maps together?

---------- Forwarded message ----------
Date: Tue, 12 Mar 1996 19:28:21 -0500
From: Bernie A <berlyn@epix.net>
To: bruninga@nadn.navy.mil
Subject: NE PA Maps

Hi Bob,
        A while ago I started to make some maps of northeast PA. I have
about 25 to 30 made. Unfortunatly, working 2 jobs and going to school I

just don't have the time to pull things together. I made them using the USGS maps I got from the Internet. I did not put any labels on them nor did I stack them for APRS. However I did create them in an orderly fashion and kept good documentation. If you or anyone else is interested in having the maps, I would be happy to send them to you/them for completion and arranging.

Thanks Bob.....Bernie WM3L berlyn@epix.net

---

369. Unproto path bug

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 12 Mar 1996 23:05:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960312225720.14129A-100000@laraby.tiac.net>
Rendered body type: text/plain

I recently upgraded from 6.8a to 7.5

I posted a msg regarding the problem that I was having with unproto paths taken from the 'saved' list not working properly while a manually entered path (with the "U" command) works just fine. I did not recieve much help from the sig with this problem when I posted my first msg.

I have further info that convinces me that there is a bug in the program.

Tonight I happened to notice that the manually entered path, when viewed with the TAB key, had a *lowercase* "via", while a path taken from the 'saved list' had an *uppercase* "VIA". Entering a path to the saved list in lowercase always get save as uppercase.

I went to the config file and with an editor changed a couple of the paths in the saved list to lowercase "via". Now those paths work every time!

Bob, please check this out!

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

---

370. Re: [APRSSIG:7513] MFJ Packet Xtals

From: ku0g@sprynet.com
Date: Tue, 12 Mar 1996 20:22:57 -0800
To: aprssig@tapr.org
Message-ID: <199603130422.UAA08766@sprynet.com>
Rendered body type: text/plain

KCAWG has gotten a deal on 5 older Regency single-channel radios. Not sure what model yet, but would you hang on to those crystals until I find out? If they're compatible, I'll take 'em off your hands!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

371. Weather

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 12 Mar 1996 22:34:42 -0800
To: aprssig@tapr.org
Message-ID: <31466C82.5E5B@hiwaay.net>
Rendered body type: text/plain

Just downloaded and used a program called WinWeather, it works great and your able to get the latest WX from internet for your city. That made me wonder since you can print this weather info could it be ported from the Parrallel port right into the APRS bulletin function?. By the way the graphics screen also shows all the other WX info like Wind,Temp,Hum,etc. Just an idea..

Bill KE4EER

---

372. Re: practical use for APRS

From: Will Flor <willf@rrgroup.com>
Date: Tue, 12 Mar 96 23:27:36 -0600
To: aprssig@tapr.org
Message-ID: <9603130528.AA14544@inc.net>

Rendered body type: text/plain

You wrote:

From: Robert Kirk[SMTP:kirk@neptune.gsfc.nasa.gov]
Sent: Tuesday, March 12, 1996 7:17 PM
To: aprssig@tapr.org
Subject: [APRSSIG:7515] Re: Position tracking via WO-18

At 04:56 PM 3/12/96 -0600, "Gwyn Reedy, W1BEL" <gwyn@paccomm.com> wrote:
   >>On Tue, 12 Mar 1996, H Smith wrote:
   >>
   >>> Phillip,
   >>>
   >>> I have the following question about APRS. It there a practical use for
   >>> APRS? It seems to me that it is nothing but a toy (at best). The
   >[...]
   >
   >>
   >>Or ask the US forces in Bosnia who have ordered a system to monitor
   >>border patrols and markers (based on APRS technology).
   >>

   >Hmm... At first blush that sounds like US forces ordered APRS, but then
   >you really didn't say that; just that they ordered, "...a system...based
   >on APRS technology..." Did they use APRS as Smitty was asking about?

No - they use a system **based on** APRS. So - the answer to the question
is "Yes. One practical use for APRS is to use it as a base to develop associated
technologies, like those in use in Bosnia by U.S. forces." This happens in software
development all the time, and it is **definitely** a practical use. In other words,
there are practical uses for APRS other than running the APRS program and hooking
your computer up to a GPS, TNC and antenna. Now do you understand?

   >Anyway, ham radio is fun.

   >Bob Kirk
   >N3OZB

73 de Will KB9JTT

---

373. RE: [APRSSIG:7491] Re: Newsgroup

From: Roger Sellers <rsellers@misha.net>
Date: Tue, 12 Mar 1996 23:23:32 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB106A.F201C280@dial21.misha.net>
Rendered body type: text/plain

I've searched USENET for an APRS sig, one does not yet exist. I think someone has to patition
to get a group started to USENET. At the "value" of the group has to be approved by someone.
Not sure though.....

Roger
KB9LBU

From: Tom Busch[SMTP:tomb@avoca.nwscc.sea06.navy.mil]
Sent: Tuesday, March 12, 1996 1:51 AM
To: aprssig@tapr.org
Subject: [APRSSIG:7491] Re: Newsgroup

Randy Hall wrote:
>
> Is it time to turn this sig into a news group?
> I think all lists go through this, trouble is, not everyone has Usenet
access. Usually the solution ends up being to start a news group, and
the articles get posted to both. Will the list server handle this?

TomB

---

374. New digi

From: "MICHAEL D. HULL" <102750.2516@compuserve.com>
Date: 13 Mar 96 02:26:51 EST
To: APRSSIG <APRSSIG@tapr.org>
Message-ID: <960313072650_102750.2516_GHT13-1@CompuServe.COM>
Rendered body type: text/plain

Hello all

```
 There is a new 2 meter  Digi in South BirmingHAM Alabama
   it is a Solar powered system run by John KD4QIA in Shelby co.
   the coverage of the digi is from B'HAM  to Montgomery

   KD4QIA-7 !3314.27N/08646.10W#PHG4584/WIDE-RELAY-Solar Digi

 He is planing to add 6 Meter to the digi after dayton and would like to
  know what other's are doing on 6M ( freq, modes ect...)
  send info here or to email address below

-------------
Mike KD4DLT
email 102750.2516@compuserve.com
```

---

375. Re: [APRSSIG:7518] 1:2,000,000 map disk

From: ku0g@sprynet.com
Date: Wed, 13 Mar 1996 05:06:10 -0800
To: aprssig@tapr.org
Message-ID: <199603131306.FAA20152@sprynet.com>
Rendered body type: text/plain

```
Suggest you RTFM....Look in the README files in your APRS/README directory.
Files:  MAPMAKIN.TXT, MAP.TXT, etc...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

376. Re: [APRSSIG:7474] Re: Newsgroup

From: mwalker@interlog.com (Mike Walker)
Date: Wed, 13 Mar 96 08:20:03 EST
To: aprssig@tapr.org
Message-ID: <199603131319.IAA17883@gold.interlog.com>
Rendered body type: text/plain

```
On Mon, 11 Mar 1996 18:28:00 -0600 (CST) you wrote:

>On 11 Mar 96 at 15:14, Randy Hall wrote:
>> Is it time to turn this sig into a news group?
>
>Great idea.  Let's do it!
>
>73,
>Dave, N3EOY
>
>
>
I prefer to have this as a mail reflector instead of a news group.

My 2 cents worth..

mike

Mike Walker                              mwalker@interlog.com
127 High St. W.                              rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

377. Re: [APRSSIG:7477] Re: Packet Operating Software

From: jleonard@tbcnet.com (John B. Leonard)
Date: Wed, 13 Mar 1996 07:30:58 -0600
To: aprssig@tapr.org
Message-ID: <199603131330.HAA11116@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Well, my understanding is that there are a LOT of those out there, hence the
need for DOS APRS  :-)

73's
jbl



>
>      IBM Compatible XT
>      20 Mbit Hard Drive
>      640 k Ram
>^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
>
```

```
>ARRRRRRRRRRRGGGGGGGGGHHHHHHHHH!!!!!!!!!!
>
>
>
>No, it's ok.  I'll be fine.  I just thought all these had died a looong time
>ago...  Hey, Mark and Keith:  how about making WinAPRS a bit more retro?
>
>%^)
>
>73 - Jon NW6H
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
```

---

378. Re: Position tracking via WO-18

From: "Dr. David R. Fordham, JMU School of Accounting" <fordhadr@jmu.edu>
Date: Wed, 13 Mar 1996 08:47:20 -0500 (EST)
To: H Smith <hbs@crl.com>
Cc: Philip Chien <kc4yer@amsat.org>, amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.HPP.3.91.960313083222.7901A-100000@falcon.jmu.edu>
Rendered body type: text/plain

```
On Tue, 12 Mar 1996, H Smith wrote:

> Phillip,
> I have the following question about APRS.  It there a practical use for
> APRS?  It seems to me that it is nothing but a toy (at best).  The
> original post concerning WO-18 even admitted that "it was fun to watch...".

I am reminded of the report that when Faraday (or was it Oersted?) was
first demonstrating the transmission of radio waves across a room,
a woman reporter asked, "Yes, this is all a nice demonstration, but what
good is it?  All it appears to do is consume resources and generate
noise."  The esteemed scientist responded, "Madam, what good is a
newborn baby?  All it appears to do is consume resources and generate
noise, too."

I'm not an APRS operator, but I have been mildly entertained by the
Bob&Phil show recently.  Fortunately, I cull the mail before I let it
get to my students.  I don't like to dampen enthusiasm for the hobby too
early.        :)


------------------------------------------------------------------------------
Dr. David R. Fordham                          E-Mail: fordhadr@jmu.edu
ARS KD9LA, Editor, MARA Monitor               Voice Phone: 540-568-3024
Zane Showker Hall Room 329                    Fax:  540-568-3299
James Madison University
Harrisonburg, VA 22807        Web Homepage: http://falcon.jmu.edu/~fordhadr/
------------------------------------------------------------------------------
```

---

379. garmin45 msg

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Wed, 13 Mar 1996 07:14:19 -0800
To: aprssig@tapr.org
Message-ID: <199603131514.HAA29643@CATI.CSUFresno.EDU>
Rendered body type: text/plain

```
While there was indeed lotsa useful info in that message, it is of interest to
those who can afford a Garmin only!  Congrats to the clown that uploaded that!
he just qualified for the Guiness Book of Records for the LONGEST MESSAGE
EVER!  Some of us DO have limited hard disk space, you know!  Actually I want
to print it out incase I hit the lottery and can buy a Garmin, but it will take
nearly a case of paper!  Gotta find a word processor that will inport a file
that long too.  Please, guys, don't put any messages longer than a pa[Dge on
here!73, Pat
/?
x
```

---

380. Re: [APRSSIG:7527] Re: Newsgroup

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Wed, 13 Mar 1996 10:10:07 EST
To: <aprssig@tapr.org>
Message-ID: <13MAR96.10982149.0239.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
>On Mon, 11 Mar 1996 18:28:00 -0600 (CST) you wrote:
>
>>On 11 Mar 96 at 15:14, Randy Hall wrote:
>>> Is it time to turn this sig into a news group?
>>
>>Great idea.  Let's do it!
>>
>>73,
>>Dave, N3EOY
>>
>>
>>
>I prefer to have this as a mail reflector instead of a news group.
>
>My 2 cents worth..
>
>mike
>
>Mike Walker                               mwalker@interlog.com
>127 High St. W.                              rf:  va3mw@va3bbs
>Mississauga, ON
>L5H 1K4
i agree my 2cents, unless u want more problems than we have now !
lynn N4YCI
```

---

381. RE: [APRSSIG:7531] Re: Newsgroup

From: Steve Dubois <steve@muskoka.com>
Date: Wed, 13 Mar 96 11:15:51 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.960313111633.Steve@steve.muskoka.com>
Rendered body type: text/plain

```
I agree...my 2 cnts worth..
Steve
VA3HOI
-------------------------------------
Name: Steve Dubois
E-mail: Steve Dubois <steve@muskoka.com>
Date: 03/13/96
Time: 11:15:51

This message was sent by Chameleon
-------------------------------------
```

---

382. APRS75a comming soon

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Mar 1996 11:39:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960313113521.9889A-100000@greatlakes>
Rendered body type: text/plain

```
Here is what will be in 75a.  Have I forgotten anything that I promised to
fix (that is relatively easy...)  Otherwise, I hope to post it by Friday...

Ver 75a:
*** Moved all MAPLISTS to a new directory MAPLISTS to unclutter the
    APRS directory. I suggest keeping a copy of MAPLIST.USA in the APRS
    directory so you can still run old versions of APRS if needed.
*** New GATE rules:  Every GATE operator must put B E 0/10 instead of
    B E 0 in their INITTAPR.TNC file so they beacon on VHF if operating
on HF
* New GATE symbol looks like a gate
* Truck symbol is now a pickup. "u" becomes an 18 wheeler
* WX-DispWX and WX-ShowTemp commands show WX vice CALLS on map.  See WX.txt
* During REPLAY, FILEname is retained for subsequent use
* Fixed DF vehicle heading
* WX-JustWX command now toggles ON until toggled OFF
* alt-SETUP-OTHER-REDRAW command toggles on an auto-redraw function.  The
  map will be redrawn every time your station Beacons.  This to keep the
  screen fresh for un-attended displays
* New CFIG75.APR file.  You can update your old CFIG73x file by adding
  3 new items to the line after RELAY near the end of the file so that
  it becomes 0,0,0,0 and then rename the file to CFIG75.APR
* New TORCHw, TORCHm, and TORCHe.bk files for olympic torch route
* Updated DIGIwest and DIGIeast.bk files
* SPRE.HST file shows the results of the APRS posits via SPRE satellite
```

---

383. Re: [APRSSIG:7526] Re: 1:2,000,000 map disk

From: rwf <rwf@mindspring.com>
Date: Wed, 13 Mar 1996 11:56:23 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960313115624.2a5f4dfc@mindspring.com>
Rendered body type: text/plain

Re: Bob Hartman's question about the 1:2,000,000 disks

Calm down- Jim, (UOG). Don't be so quick to condemn him!

I recall seeing messages here that the format changed on the 1:2,000,000 CD.
I recall that "optional" format may not be the type that is compatible with
our tools for making the 32 mile maps now. Gerry Creager was checking with/
complaining to USGS on it, I think.

I think Bob has run into this problem and I don't think anyone has solved it
yet so how can he RTFM?

This is the reason I have been holding off on my own 1:2,000,000 Disk. I
think the 100,000 : 1 disks are still ok.

Also, he asked that you respond via Email. Said he didnt read the SIG.

Ralph

At 07:17 AM 3/13/96 -0600, you wrote:
>Suggest you RTFM....Look in the README files in your APRS/README directory.
>

---

384. Re: [APRSSIG:7526] Re: 1:2,000,000 map disk

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Mar 1996 11:57:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960313115516.9889E-100000@greatlakes>
Rendered body type: text/plain

On Wed, 13 Mar 1996 ku0g@sprynet.com wrote:

> Suggest you RTFM....Look in the README files in your APRS/README directory.
> Files: MAPMAKIN.TXT, MAP.TXT, etc...

WB4APR REPLY COMMENT: I donno about that. There is nothing in my TEXT files
about the problem of the new USGS format for the 2,000,000 CD ROM which is
incompatible with MAKEMAP programs...

I too am hoping someone else has an answer to this problem...

---

385. APRS ain't no toy :-)

From: H Smith <hbs@crl.com>
Date: Wed, 13 Mar 1996 08:40:58 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960313083242.22802B-100000@crl7.crl.com>
Rendered body type: text/plain

WOW! Lots of info on APRS.

Actually, my original email was meant to be a private email, however,
afterwards I noticed that I had accidently sent copies to both the amsat-bb
list well as the aprssig list. And, I am not even subscribed to the
aprssig list yet :-)

So I apologize if I raised some hackles with the "toy" reference.

Anyway, I appreciate all of the very FB information about APRS and it's uses.

As you might have surmised, I am not a packeteer, but I am interested in
getting back into satellite chasing. So, I am now interested in some of
the digital modes that are being used.

So, thanks for the information. As I said before, I am not subscribed to
the aprrsig list so I am trusting that this email will get on the list.
Since I am not copying the amsat-bb list on this email, you may email any
further info directly to me if you wish, otherwise I won't see it.

CUL,

Smitty, NA5K

```
Henry Smith (hbs@crl.com)
```

---

386. ChooChoo GPS mobile (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Mar 1996 12:04:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960313120203.9889G-100000@greatlakes>
Rendered body type: text/plain

```
---------- Forwarded message ----------
From: William B. Bliss/WB6LPG <wbliss@coastside.net>

   Believe we have a first out here in Calif. (Rich/KQ6EF was KE6RXJ) is
a train engineer and has already run GPS MOBILE while running his train.
   Today he is running Oakland to Reno Nevada, over 200 miles.
   He is running Garmin GPS-45, KPC-3, Alinco DJ-G1, HT..
```

---

387. RE: [APRSSIG:7527] Re: Newsgroup

From: "Sadowski,P O4 USAF JCSAR/EDD" <sadowskp@jcsar.nellis.af.mil>
Date: Wed, 13 Mar 96 09:03:00 cst
To: aprssig <aprssig@tapr.org>
Message-ID: <3146E616@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

```
Ditto for me.... for some of us, our only interface to the Internet is via
E-Mail..
so the reflector is a real benefit....

ALOHA
Al   AH6LS

 ----------
From: aprssig
To: aprssig
Subject: [APRSSIG:7527] Re: Newsgroup
Date: Wednesday, March 13, 1996 7:36AM

On Mon, 11 Mar 1996 18:28:00 -0600 (CST) you wrote:

>On 11 Mar 96 at 15:14, Randy Hall wrote:
>> Is it time to turn this sig into a news group?
>
>Great idea.  Let's do it!
>
>73,
>Dave, N3EOY
>
>
>
I prefer to have this as a mail reflector instead of a news group.

My 2 cents worth..

mike

Mike Walker                               mwalker@interlog.com
127 High St. W.                               rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

388. Railroad GPS Mobile on APRS

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Wed, 13 Mar 1996 09:55:04 -0800
To: aprssig@tapr.org
Message-ID: <199603131755.JAA14261@poseidon>
Rendered body type: text/plain

```
ALL APRS.
   Believe we have a FIRST in APRS GPS mobile tracking. Today Rich/KQ6EF-9
engineer on railroad train, Oakland, Ca. to Reno, Nv is running GPS MOBILE
and tracking fine at this moment.
   Rich is using a Garmin GPS-45, KPC-3 TNC, and Alinco DJ-G1 HT as his
transciver.
   Mag mount on roof of engine, some have 110AC, older ones run 68V DC, also
```

```
some cabs are fiberglass, so has to tape down his antenna on roof with poor
ground plane.Intends make unit more portable and easy to carry and place in
engine.

   Am GATEing his signal from VHF/145.010 used here in Ca. to 30M/10151/LSB.

  Is this an APRS FIRST ???. If any one else has run RAILROAD GPS MOBILE,
let us know.

  Rich/KQ6EF (richsnol@ix.netcom.com)  (For an attaboy.)

   73's & Enjoy,  Bill/WB6LPG..
NNNN

WBB/WB6LPG
```

---

389. Re: [APRSSIG:7516] Re: converting maps

From: Ron Malinowski <weather@xnet.com>
Date: Wed, 13 Mar 1996 13:37:22 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603131937.NAA09359@flood.xnet.com>
Rendered body type: text/plain

```
>Have another question for ya about maping. Was wondering if there is any
>way to take my track log stuff and enter it into macaprs so I only get
>little dots, not call or jeep running around. did manage to get the jeep
>and call!
>
>        -Jack

N9QGS REPLY:

I think what you want to do is, open your map, load your track history file,
let it run through it then click on object change it to a dot, go under
display options and don't display call, and then clear screen again, and
click on jeep and hit the (R)eplay function and it should be all dots.  Hope
this helps

Ron N9QGS
```

---

390. Re: [APRSSIG:7539] Railroad GPS Mobile on APRS

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Wed, 13 Mar 1996 11:47:40 -0800
To: aprssig@tapr.org
Message-ID: <9603131948.AA05750@gvgadg.gvg.tek.com>
Rendered body type: text/plain

```
>ALL APRS.
>   Believe we have a FIRST in APRS GPS mobile tracking. Today Rich/KQ6EF-9
>engineer on railroad train, Oakland, Ca. to Reno, Nv is running GPS MOBILE
>and tracking fine at this moment.
>   Rich is using a Garmin GPS-45, KPC-3 TNC, and Alinco DJ-G1 HT as his
>transciver.
>   Mag mount on roof of engine, some have 110AC, older ones run 68V DC, also
>some cabs are fiberglass, so has to tape down his antenna on roof with poor
>ground plane.Intends make unit more portable and easy to carry and place in
>engine.
>
>   Am GATEing his signal from VHF/145.010 used here in Ca. to 30M/10151/LSB.
>
>  Is this an APRS FIRST ???. If any one else has run RAILROAD GPS MOBILE,
>let us know.
>
>  Rich/KQ6EF (richsnol@ix.netcom.com)  (For an attaboy.)
>
>   73's & Enjoy,  Bill/WB6LPG..
>NNNN
>
>WBB/WB6LPG
>
>
>



ME
   I DID!!

I had my Sacramento to Rochester Train trip back before Christmas. I had my
```

GPS-45, Pico Packet TNC, FT-470, and laptop computer running the whole way.
I saw stations in Ca, Co, and around Chicago. I know of one station outside
of Denver that saw my posit. I was at a disavantage of not being able to
have outside antennas, I hope Rich can have outside ants!!!

I talked to Rich just before my trip left for my trip. I was hoping that he
was to be on my train, but he doesn't do that route. I was wishing for a
contact at the front of the train!

Randy

```
----------------------------------------------------------------------
|                         My opinions are my own.                    |
|                                                                    |
|                                   O-                               |
|                                                                    |
|                                                                    |
|      "Television is a medium. So called because it is neither      |
|       rare nor well-done." - Ernie Kovacs                          |
|                                                                    |
| Randy Hall WA2AGE  randyh@gvgadg.gvg.tek.com   Grass Valley Products|
----------------------------------------------------------------------
```

---

391. Re: [APRSSIG:7530] garmin45 msg

From: "Michael Turner" <mturner@fox.nstn.ca>
Date: Wed, 13 Mar 1996 15:37:12 -0500
To: aprssig@tapr.org
Message-ID: <199603132039.QAA07501@Fox.nstn.ca>
Rendered body type: text/plain

>While there was indeed lotsa useful info in that message, it is of interest to
>those who can afford a Garmin only! Congrats to the clown that uploaded that!
>he just qualified for the Guiness Book of Records for the LONGEST MESSAGE
>.EVER!
Not only that. It corrupted my downloading of email. I had to Telnet and
delete it before I could download. Good to know that the message contained
useful information
            Michael Turner. VE3PRW.
        "Keep the Bubble in the Centre"

---

392. Re: [APRSSIG:7533] APRS75a comming soon

From: "Michael Turner" <mturner@fox.nstn.ca>
Date: Wed, 13 Mar 1996 15:47:06 -0500
To: aprssig@tapr.org
Message-ID: <199603132049.QAA10471@Fox.nstn.ca>
Rendered body type: text/plain

>Here is what will be in 75a. Have I forgotten anything that I promised to
>fix (that is relatively easy...) :
     Its great that the APRS program is progressing so well. However I am
concerned about the problem of keeping the text files updated. It would be an
onerous task if it was necessary to print them all out after each
update. I have to admit that I haven't checked to ascertain whether in
fact that would be necessary. However, judging from the remarks in the
SIG,it would seem to be so.

            Michael Turner. VE3PRW.
        "Keep the Bubble in the Centre"

---

393. APRS

From: mssi@his.com (Bob Fontana)
Date: Wed, 13 Mar 1996 15:46:36 -0500
To: aprssig@tapr.org
Message-ID: <199603132050.PAA18660@mail.his.com>
Rendered body type: text/plain

Please send me information on upgrading our APRS software
to display GPS data. Thanks.

Bob Fontana
AK3Y

---

394. Re: [APRSSIG:7538] Re: Newsgroup

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 13 Mar 1996 13:26:28 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960313212628.006ac468@mail.cts.com>
Rendered body type: text/plain

```
I would like to remind the group that you can have both a newsgroup and an
E-Mail echo of that group. I don't think this group is big enough for a
mainline rec.xxxxx group but the alt.xxx groups were created for just this
purpose. Also it is much easier to establish an alt. group. The big problem
with this mail server is the [APRSSIG:xxxx] in the subject line which
prevents my mail reader (Eudora Pro) from sorting the messages by thread. It
would save me time everyday if this group would go to an alt. newsgroup. I
vote yes.

Barbara  KK6IB
E-Mail: fehner@cts.com

_______________________________________________________________________________
At 11:23 AM 3/13/96 -0600, you wrote:
>
>Ditto for me.... for some of us, our only interface to the Internet is via
>E-Mail..
>so the reflector is a real benefit....
>
>ALOHA
>Al   AH6LS
>
> ----------
>From: aprssig
>To: aprssig
>Subject: [APRSSIG:7527] Re: Newsgroup
>Date: Wednesday, March 13, 1996 7:36AM
>
>On Mon, 11 Mar 1996 18:28:00 -0600 (CST) you wrote:
>
>>On 11 Mar 96 at 15:14, Randy Hall wrote:
>>> Is it time to turn this sig into a news group?
>>
```

395. WX/DIGI PHG string problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Mar 1996 17:22:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960313172038.17109C-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 13 Mar 1996, Larry Keeran wrote:

> At the DIGI, k9orp-1, a wide (set that way) I set PHG.  Then manually
> entered the WX.  From another site, the PHG covers the first part of the WX
> box at the top of the screen when you do N (next wx station).

WB4APR REPLY COMMENT:  Unfortunatelly the APRS protocols cannot support
both PHG and a MANUAL WX report.  Sorry...
```

396. Re: [APRSSIG:7543] Re: APRS75a comming soon

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Mar 1996 17:27:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960313172351.17109E-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 13 Mar 1996, Michael Turner wrote:

>      Its great that the APRS program is progressing so well. However I am
> concerned about the problem of keeping the text files updated. It would
> be an onerous task if it was necessary to print them all out after each
> update.

WB4APR REPLY COMMENT:  I go to great lengths to update ALL AFFECTED text
files with each new release.  In each new release, the UPDATE version
contains new copies of only those TEXT files that have changed.  ALso
if there are significant changes, then I highlight that in the
NEWNOTES.txt file which comes with all upgrade versions.  Your TEXT files
are automatically UPDATED whenever you upgrade to a new version.  If you
want to PRINT the new files, then ONLY print the TEXT files in the UPGRADE..
```

397. News Group vs Mail Reflector

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 13 Mar 96 18:36:33 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.826760193.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The APRSSIG is currently done as a MAIL list. The responses to this question have been varied...

Currently, I don't see any major reason to move it to a News Group, especially since they are somewhat more subject to SPAMming than a news reflector..

On the other hand, if we DO decide to go to a newsgroup, I will go thru the proper channels to get it set up as rec.radio.digital.aprs

At the moment, due to the comments, both on the SIG and personal, I think it should stay as a mail list for the moment..

Another comment, Please do NOT!! send enclosures to the SIG, it can cause major problems for some of the different mail programs in use..

If you have a large file that is of interest to the group, upload it to TAPR and send a notice about it to the SIG..

Keith

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

398. Sharp Wizard "Terminal"

From: Arthur Booten <N2ZRC@gnn.com>
Date: Wed, 13 Mar 1996 18:56:43
To: APRSSIG@tapr.org
Message-ID: <199603132357.SAA05924@gnn-2.gnn.com>
Rendered body type: text/plain

I got several requests for info about my "Totally Portable Packet Station" setup so rather than answer them all separately I figured there might be more people interested in it that have not (yet) asked.

It seems any 8000 or 9000 series Sharp Wizard Organizer that has the proprietary 15-pin connector can be used as long as it has a terminal mode. Sharp sells an RS-232 level converter that's about 1 x 2 x 6 inches, has a standard 25-pin female jack on one end, a 6 foot cord with the proprietary 15-pin plug on the end and a coaxial jack for 6 V dc.

I stuck a piece of velcro on the bottom of the thing, another on top of the KPC-3 which has a 9 V "transistor" battery installed. For the 6 V the level converter needs I got a 4-AA battery holder from Radio Shack, made a short wire from it to the right size DC coax jack (I forget what size) and used a few more pieces of velcro on it and the KPC-3. Add a VERY short (6 inches is enough) 25-pin plug to 25-pin plug and VOILA!

As far as settings go, I use 9600 8-N-1 between the TNC and Wizard. Unfortunately, while the Model 9600-II Wizard I use will support 80-character lines, you have to scroll left and right in order to see it. The screen (without scrolling) is 62 characters wide, so you have to tell this to the TNC. The down side of this is you get a whole line, then the "rest" of the line. It looks kinda funny but you get used to it. I also should say that if you have bad eyes or fat fingers this setup probably won't to be to your liking.

Believe it or not, this setup is how I first got onto packet. I'd NEVER owned a computer at that point and did just fine with it for over a year. In fact, during CQ magazine's CQ 50 celebration I made over a hundred contacts with this contraption! No hard-to-configure software, no pesky port conflicts. Not much versatility either but what do you want...a 900 GHz super-ultra-pentium-pro that fits in a shirtpocket? Intel don't play dat! But for sheer portability and bang for your buck? Suuuuuuuuuuuuuuuuuuuuure! 73 all.

Arte Booten <N2ZRC@gnn.com> or <N2ZRC@aol.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

---

399. Re: [APRSSIG:7534] Re: 1:2,000,000 map disk

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 13 Mar 1996 18:17:05 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603140017.SAA01749@solar.cs.tamu.edu>
Rendered body type: text/plain

rwf sez:
>
> I recall seeing messages here that the format changed on the 1:2,000,000 CD.
> I recall that "optional" format may not be the type that is compatible with
> our tools for making the 32 mile maps now. Gerry Creager was checking with/
> complaining to USGS on it, I think.

They changed the format and HAVEN'T published a standard yet. They talk the
standard to death on their associated web sites, but there's nothing that
identifies the file structure that I can find a link to. I still have a
little more complaining to do! :-)

> This is the reason I have been holding off on my own 1:2,000,000 Disk.   I
> think the 100,000 : 1 disks are still ok.

So far!

73, gerry
n5jxs@tamu.edu

---

400. Re: [APRSSIG:7485] WHATSITGPSANTENNA

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 13 Mar 1996 19:16:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603140116.TAA02418@solar.cs.tamu.edu>
Rendered body type: text/plain

mark.endicott@nashville.com sez:
>
An interesting antenna story.

>
> Ever since I got my first GPS I have found the subject of
> external antennas interesting and thought provoking. There
> have been several attempts to use non-amplified patches with
> mixed results. It was not until Bob (APR) mentioned that he
> was comparing a vertical 1/4 wave whip that I realized that
> the miracle of lock could be accomplished with something
> other than an amplified antenna. I also thought that it
> would be better if I could use a standard NMO type mount on
> top of my vehicle. Slamming doors on coaxial cable at 1500
> MHz didn't seem like a good idea. I mounted a 1/4 wave
> antenna, 1.75 in. tall, on the roof of my Jeep and it did in
> fact lock.
>
> However, I soon found out that the birds overhead and at
> high angles were seldom visible on the GPS 45 screen. It
> seemed obvious that a vertical antenna was not the answer.
> Remembering the patch antenna articles, I decided to squash
> the vertical antenna down to a flat disk. I cut a 3.5 in
> circle out of PC board with a circle cutter and bolted it to
> the 5/16 (24) stud that protrudes from the same 1/4 wave
> mount that I had been using. The mount holds the disk about
> an inch off the surface of the roof. I had 17 feet of RG-58
> cable already attached to the mount. To my surprise, instant
> lock, and the high sats. were now visible. The signal
> strength was not equal to the attached antenna standing
> beside the car, but it was useable. Next, I replaced the
> RG-58 with Mini-8 and cut it down to about 10 feet long. Now
> it works better, total cost "cheap". From my location
> and with my GPS-45 I have had no problems with this "antenna
> thing" for the last week or so.
>

And tests notwithstanding, one set of datapoints do not a conclusion make
(regards using a 1/4 wave). There's a reason Garmin's first non-amplified

antenns on the GPS-50 and -55, and -95 (espeically aviation applications, but
others apply) used quadrifilar helices.

>   I have a few questions for you engineers that know about
>   this stuff.
>
>   1. Assuming that at uhf, capture area is an important
>   consideration, should I try a pizza pan?

Knock yourself out. You'll do better with a patch approximating resonance
over a ground plane.

>   2. Knowing that the diameter of the antenna element effects
>   the Q and bandwidth, what the heck have I done? Is this
>   antenna really horizontal or is it a very broad band, but
>   short, vertical? Or, is it just a hunk of metal that works?

shooting in the blind here, without resorting to some of the design tools, but
I believe you've come up with an approximation of a very broadband vertical,
with a small half-cone of obscuration. I'd have expected the patch to be
somewhat smaller, but you could be seeing coupling effects, etc., from the
materials already in use.

>   3. Without matching sections what is the impedance of a
>   center fed pizza pan that may approximate a 1/2 wave or full
>   wave at 1500 MHz. Or, does it matter with the GPS-45?

Well, it's almost certainly a 50-ohm circuit. It does matter somewhat. I'm
not even gonna hazard a guess here, without digging out the tools. And that's
going to take some doing, these days.

>   4. What about amplifiers? I don't see why one of the
>   little 20db modules wouldn't work. or perhaps a good FET,
>   any ideas?

They should, but since you're getting good results, why?

>   I have now made three of these little "things" and they all
>   work the same. One used a Larsen mount and the others used
>   an Antenex mount, no noticeable difference. A butter tub
>   makes a good radome, a contribution from a Nerd friend of
>   mine. Cut a hole in the lid and put it around the NMO mount
>   and snap the top on. WARNING yellow tubs make you look
>   like a taxi.

Consider it "local color".

>   I am only posting this because Kieth has chewed us all out
>   about flames and I feel safe.

Your results are interesting and thought provoking. There's nothing wrong
with a little experimentation. I'd suggest you borrow a PVT-6 and use Bob's
program to compare results.

73, gerry

---

401. Updating Docs "was [APRSSIG:7547] Re: APRS75a comming soon"

From: Dave Kaplan <dkaplan@pionet.net>
Date: Wed, 13 Mar 1996 19:39:16 -0600
To: aprssig@tapr.org
Message-ID: <9603140139.AA01910@ELWOOD.pionet.net>
Rendered body type: text/plain

>If you want to PRINT the new files, then ONLY print the TEXT files in the
UPGRADE..
>
>
I find that keeping a directory, alpha sorted (DIR /ON) at the front of my
documentation helps. When I update to a new version I print another alpha
sorted directoey of the Docs then print any where the date of the doc has
changed from the old printout. Another way to do this is to do a date
sorted (DIR /OD) command and only print the files that have changed since
your last download. A bit time consuming but well worth the effort.

Dave

---

402. Re: [APRSSIG:7546] WX/DIGI PHG string problem

From: billh@netins.net (John W. (Bill) Hays)
Date: Thu, 14 Mar 1996 02:33:50 +0000
To: aprssig@tapr.org
Message-ID: <v01530500ad6d19e56d2b@[199.120.94.86]>
Rendered body type: text/plain

```
>On Wed, 13 Mar 1996, Larry Keeran wrote:
>
>> At the DIGI, k9orp-1, a wide (set that way) I set PHG.  Then manually
>> entered the WX.  From another site, the PHG covers the first part of the WX
>> box at the top of the screen when you do N (next wx station).
>
>WB4APR REPLY COMMENT:  Unfortunatelly the APRS protocols cannot support
>both PHG and a MANUAL WX report.  Sorry...

Hmmmmmm....Using MacAPRS I seem to be able to do it.

Bill; W0OMV
PKT W0OMV@WR9B.IL.USA.NOAM
e-mail: billh@netins.net
```

---

403. Re: [APRSSIG:7541] Re: Railroad GPS Mobile on APRS

From: n2czf@gate.net
Date: Wed, 13 Mar 1996 21:39:34 -0500
To: aprssig@tapr.org
Message-ID: <199603140239.VAA06176@osceola.gate.net>
Rendered body type: text/plain

```
Well he was beat by at least 1 station so far, I do not know if anyone else has
done Railroad APRS yet.

Seymour KC4NMY from North Miami did this about 1 month ago from the Ft.
Laurderdale area to Wildwood FL.

Either way it is good to see the different activity. I saw the K6 Station here
in FL when it was uplinked by Bill WB6LPG at about 19:00 EST on 30M.

My hat off to both of the Railroad fans!
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

404. Re: [APRSSIG:7548] News Group vs Mail Reflector

From: n2czf@gate.net
Date: Wed, 13 Mar 1996 21:51:50 -0500
To: aprssig@tapr.org
Message-ID: <199603140251.VAA61642@osceola.gate.net>
Rendered body type: text/plain

```
RE: the Enclosures that Keith spoke about in the previous message I agree. I
often crash when I read the messages with the attached files or crash when I try
to delete the message without even reading it.

Users with Microsoft Mail that are using it to post messages please beware of
this problem. Another sig member noticed this after repeated attachments (every
sig posting he did!) and found that Microsoft has done this intentionally to
proide other Microsoft users a alternative to read the message (Word I believe).
There is a way to shut it off but I do know the command.

Please look into this, it can become quite annoying to reboot every time we try
to delete the message. Darn that Microsoft!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

405. Eudora Pro Filter (For Barbara)

From: rwf <rwf@mindspring.com>
Date: Wed, 13 Mar 1996 22:08:08 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960313220809.3d376e9e@mindspring.com>
Rendered body type: text/plain

```
My Eudora Pro filter works great every day.  Here is what I use

header "to"  contains  aprssig

Ralph  N4NEQ
________
```

406. Re: [APRSSIG:7556] Eudora Pro Filter (For Barbara)

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Wed, 13 Mar 1996 22:35:23 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960314033523.27c77272@sun.lssu.edu>
Rendered body type: text/plain

```
At 09:17 PM 3/13/96 -0600, you wrote:
>
>My Eudora Pro filter works great every day.  Here is what I use
>
>header "to"  contains  aprssig
>
>Ralph  N4NEQ
>________

  My Eudora Light sorts quite well by subject, under the "edit" bar.

                              Pete, wa4hei
```

---

407. Re: Position tracking via WO-18

From: ka0yos@arn.net
Date: Wed, 13 Mar 1996 22:35:25 -0600
To: H Smith <hbs@crl.com>, Philip Chien <kc4yer@amsat.org>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <199603140434.WAA17050@arnet.arn.net>
Rendered body type: text/plain

```
At 06:59 AM 3/12/96 -0800, H Smith wrote:
>Phillip,
>
>I have the following question about APRS.  It there a practical use for
>APRS?  It seems to me that it is nothing but a toy (at best).  The
>original post concerning WO-18 even admitted that "it was fun to watch...".
>
>Thanks,
>
>Smitty, NA5K
>
>Henry Smith (hbs@crl.com)
>
>
I am NOT an APRS expert or even APRS equipped for that matter, but it has
proven very useful for the storm spotting efforts here on the high plains.
APRS equipped mobile units making pin-pointing tornados and the like much
easier!

73,
Joe
```

---

408. Re: [APRSSIG:7535] Re: 1:2,000,000 map disk

From: ku0g@sprynet.com
Date: Wed, 13 Mar 1996 20:47:14 -0800
To: aprssig@tapr.org
Message-ID: <199603140447.UAA18395@sprynet.com>
Rendered body type: text/plain

```
Well, that's what I get for reading the mail late at night when I'm tired!  I
blew it.  I missed (somehow) the part about the 2,000,000:1 CD being different.
 My apologies!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

409. Re: [APRSSIG:7537] ChooChoo GPS mobile (fwd)

From: ku0g@sprynet.com
Date: Wed, 13 Mar 1996 20:50:09 -0800
To: aprssig@tapr.org
Message-ID: <199603140450.UAA18823@sprynet.com>
Rendered body type: text/plain

```
Now we're gonna need a DIESEL engine for the train symbol.

I can supply paint schemes so the train icons comply with the right railroad!
<snicker>

Actually, Bob, I CAN, as I just realized that a Train Engineer Simulator that I
```

have has miniature engines and I can select their paint scheme, too! I can
capture these and make some gifs and you can turn them into icons, then!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.

---

410. Re: [APRSSIG:7560] Re: ChooChoo GPS mobile (fwd)

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 14 Mar 1996 00:02:34 -0800
To: aprssig@tapr.org
Message-ID: <3147D29A.2D86@hiwaay.net>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Now we're gonna need a DIESEL engine for the train symbol.
>
> I can supply paint schemes so the train icons comply with the right railroad!
> <snicker>
>
> Actually, Bob, I CAN, as I just realized that a Train Engineer Simulator that I
> have has miniature engines and I can select their paint scheme, too! I can
> capture these and make some gifs and you can turn them into icons, then!
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com
>
> "Can't we all just get along?" -- R. King, 1994.-----------------------------
Thanks Bob for the PICKUP Icon, even tough it won't have a gunrack in the
window or beercans in the back. Just keep making fun Jim Hi Hi.

Bill KE4EER

---

411. Re: [APRSSIG:7548] News Group vs Mail Reflector

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Thu, 14 Mar 1996 06:13:11 -0600
To: aprssig@tapr.org
Message-ID: <9603141213.AA25800@omnifest.uwm.edu>
Rendered body type: text/plain

Please keep this as a mailing list.

Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu

---

412. Re: [APRSSIG:7529] Re: Position tracking via WO-18

From: kwschildt@ns.syncentral.com (Kenneth Schildt)
Date: Thu, 14 Mar 1996 08:02:52 -0600
To: aprssig@tapr.org
Message-ID: <9603141357.AA21136@ns>
Rendered body type: text/plain

Some people have practical uses for APRS... People like myself enjoy APRS and
Ham radio because it is FUN!!! de Ken N4VSD

>On Tue, 12 Mar 1996, H Smith wrote:
>
>> Phillip,
>> I have the following question about APRS. It there a practical use for
>> APRS? It seems to me that it is nothing but a toy (at best). The
>> original post concerning WO-18 even admitted that "it was fun to watch...".

---

413. News Group vs Mail Reflector

From: rrucker@cais.cais.com (Dick Rucker)
Date: Thu, 14 Mar 1996 09:25:20 -0500
To: aprssig@tapr.org
Message-ID: <v01540b05ad6db7b46993@[206.161.65.81]>
Rendered body type: text/plain

>Currently, I don't see any major reason to move it to a News Group,
>especially since they are somewhat more subject to SPAMming than a news
>reflector..

I agree with you, Keith. My delete button works just fine and I have no trouble deciding what to read/archive and what to just blow away.

If it ain't broke, don't fix it.

73, Dick

Richard A. "Dick" Rucker
Solo Consulting, Inc.
Fairfax, VA
email via SMTP: rrucker@cais.com
Amateur Radio: KM4ML

---

414. Re: [APRSSIG:7556] Eudora Pro Filter (For Barbara)

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Thu, 14 Mar 1996 09:46:13 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960314144613.0067bfe0@mail.one.net>
Rendered body type: text/plain

I can't resist comment! After watching all the flames, spamming, etc, and almost quiting the list, here comes a "nugget of gold" that makes it all worth while -- even though its technically off subject!

I've tried to set up my Eudora filters with limited success. Then the attached hit me like a lightbulb. I was over enginnering the darn thing. I reset my filters.........and added simple "from" filters for personal mail, and everything worked perfectly.

Thanks for the fine tip Ralph!

Bob
N8NGA

****
****
At 09:16 PM 3/13/96 -0600, you wrote:
>
>My Eudora Pro filter works great every day. Here is what I use
>
>header "to" contains aprssig
>
>Ralph N4NEQ
>________
>
>
FROM MY WORLD
    ----TO YOUR WORLD
           ----THROUGH THE VIRTUAL WORLD

"NEVER PART WITHOUT LOVING WORDS TO THINK OF DURING
YOUR ABSENCE. IT MAY BE THAT YOU WILL NOT MEET AGAIN
IN LIFE"...........JOHN PAUL RICHTER

---

415. Information

From: BordingK@aol.com
Date: Thu, 14 Mar 1996 09:56:21 -0500
To: aprssig@tapr.org
Message-ID: <960314095621_245858461@emout08.mail.aol.com>
Rendered body type: text/plain

To subscribe do I just send a message with subscribe in the message line without anything in the subject line? Thanks.

Ken Bording
KF4COH

---

416. WinWeather

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Thu, 14 Mar 1996 07:56:05 -0800
To: aprssig@tapr.org
Cc: ke4eer@hiwaa6y.net
Message-ID: <199603141556.HAA22417@poseidon>
Rendered body type: text/plain

Attn: Bill/KE4EER,   Filed: 141541GMT MAR 96

  Your Weather message on WinWeather program, which you say is the greatest.

```
Please advise where, we can locate and download same.
  Am interested in weather and would like to give it a try also. Assume its
free, share, or a no coast program. Thanks for advice.

   73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN
WBB/WB6LPG
```

---

417. PAmaps02.zip Newton PA

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Mar 1996 11:41:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960314113619.920A-100000@greatlakes>
Rendered body type: text/plain

```
I just posted PAmaps02.zip which now also has NORTH Newton Square.

I extracted the wrong QUAD, so only did the top half of the area
above 40.0000 degrees...

Using MK100Kv20 I have found that you should never use the .MAP results,
because the randomly thrown away points always result in meaningless
roads and intersection.  YOu must use MAPFIX on the .DAT files instead...

ALso, MK100V20 always crashes, because of a file name error, so I run it
under QB.exe  so that I can fix the error and let it continue.  It makes
1, 4 or 9 maps all at once...  Didnt KB4XF fix the file name problem in a
later version?  What is the name of that later version?
```

---

418. Re: [APRSSIG:7567] WinWeather

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 14 Mar 1996 12:19:30 -0800
To: aprssig@tapr.org
Message-ID: <31487F52.1C7E@hiwaay.net>
Rendered body type: text/plain

```
William B. Bliss/WB6LPG wrote:
>
> Attn: Bill/KE4EER,                               Filed: 141541GMT MAR 96
>
>   Your Weather message on WinWeather program, which you say is the greatest.
> Please advise where, we can locate and download same.
>   Am interested in weather and would like to give it a try also. Assume its
> free, share, or a no coast program. Thanks for advice.
>
>    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
> NNNN
> WBB/WB6LPG

No problem i think Hi. I will give this a try and see if it works.

Let me know if this worked.

Bill
```

---

419. Maps

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 14 Mar 1996 12:48:29 -0800
To: aprssig@tapr.org
Message-ID: <3148861D.31B5@hiwaay.net>
Rendered body type: text/plain

```
Bob in order to use the version you have, you have to enter an 8
character file name or it will crash everytime. Funny you have that
problem since i did also this morning making some maps, i had just forgot
about that problem so i looked on Tapr and found a later version that
doesn't have that problem and it's called MK100K2a.ZIP. This version
worked great trough a 9 mile grid of maps i did this morning. By the way
been playing with the new USGS 2,000.000 files in the new format and in
no way can i make those files work, sure hope they won't change all their
CD's to that format or we will be sunk.

Bill KE4EER
```

---

420. Re: [APRSSIG:7556] Eudora Pro Filter (For Barbara)and others

From: Marvin Munster x5388 <mmunster@qualcomm.com>
Date: Thu, 14 Mar 1996 11:32:58 -0800
To: aprssig@tapr.org

Message-ID: <199603141933.LAA10226@illyana.qualcomm.com>
Rendered body type: text/plain

At 09:16 PM 3/13/96 -0600, you wrote:
>
>My Eudora Pro filter works great every day. Here is what I use
>
>header "to" contains aprssig
>
>Ralph N4NEQ
>________
>
>

I use Eudora Pro and it works well. I filter this SIG into several categories. Everything from Bob goes into one mailbox. He repeats enough of the original message to make sense, and then answers the question. I don't need to read the rest.

Works like this:

```
        [HEADER]        To:
        [CONTAINS]      Aprssig
        [AND]
        [HEADER]        From:
        [CONTAINS]      Bruninga
        (X)TRANSFER TO: Bob Bruninga   (which I keep under Ham/Packet/APRS/BOB)
```

Next (IMPORTANT - filters must be in the order you want them filtered. It filters in order of the list.)

```
        [HEADER]        To:
        [CONTAINS]      Aprssig
        [AND]
        [HEADER]        <<ANY HEADER>>
        [CONTAINS]      MAP
        (X)TRANSFER TO: MAP   (which I keep under Ham/Packet/APRS/MAP)
```

Next

```
        [HEADER]        <<ANY HEADER>>
        [CONTAINS]      Aprssig
        [AND]           (ignore)
        [HEADER]        (blank)
        [CONTAINS]      (blank)
        (X)TRANSFER TO: Incomming   (which I keep under
Ham/Packet/APRS/incomming)
```

Incomming is my file for all other stuff that everyone writes. By placing it after the other 2 filters, it allows them to strip out the subjects that I want to be filed in another location and leaves the rest for review. This is a big file with all the chatter on this refelector. I can review it if there is something interesting in the SUBJECT line or if Bob mentions something that I might be interested in going back to check out. I dump this entire file about once a week.

Any questions, just e-mail me. I am not trying to sell Eudora, however our company does produce it. You can get information from the web site www/qualcomm.com or call 1(800) 4-Eudora.

```
                   __\/__
               .  / _  _ \  .
               |\| (o)(o) |/|
     -------.000o----oo----o000o.--------
     |   Marvin J. Munster - WB6PKK     |
     | WB6PKK @ KJ6VC.#SOCA.CA.US.NOAM  |
     |      mmunster@qualcomm.com       |
     |____________________0ooo._________|
                .ooo0     (   )
                (   )      ) /
                 \ (      (_/
                  \_)
```

---

421. >->->->->VIRUS ALERT!<-<-<-<-<

From: Arthur Booten <N2ZRC@gnn.com>
Date: Thu, 14 Mar 1996 14:39:59

To: APRSSIG@tapr.org
Message-ID: <199603141940.OAA05344@gnn-2.gnn.com>
Rendered body type: text/plain

```
I realize this isn't APRS related but thought you might
like this information a friend sent me.

----------------------------<SNIP>---------------------------
>   A new trojan horse virus has emerged on the internet
>with the name PKZIP300.ZIP, so named as to give the im-
>pression that this file is a new version of the PKZIP
>software used to ZIP (compress) files.  DO NOT DOWNLOAD
>THIS FILE UNDER ANY CIRCUMSTANCES!  If you install or
>expand this file, the virus will wipe your hard disk and
>affect modems at 14.4 and higher.  This is an extremely
>destructive virus and there is not yet a way of cleaning
>up this one.
>
>   Repeat:  Do not download any file with the name
>PKZIP300 -- regardless of the extension.
>
-------------------------------------------------------------


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

422. Re: [APRSSIG:7564] News Group vs Mail Reflector

From: Kent Larson <klarson@access.digex.net>
Date: Thu, 14 Mar 1996 14:26:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960314142549.20389A-100000@access4.digex.net>
Rendered body type: text/plain

```
Keith,

My thoughts too.

Thanks, Kent

On Thu, 14 Mar 1996, Dick Rucker wrote:

>
> >Currently, I don't see any major reason to move it to a News Group,
> >especially since they are somewhat more subject to SPAMming than a news
> >reflector..
>
> I agree with you, Keith.  My delete button works just fine and I have no
> trouble deciding what to read/archive and what to just blow away.
>
> If it ain't broke, don't fix it.
>
> 73, Dick
>
> Richard A. "Dick" Rucker
> Solo Consulting, Inc.
> Fairfax, VA
> email via SMTP: rrucker@cais.com
> Amateur Radio: KM4ML
>
>
>
```

423. Re: [APRSSIG:7552] Updating Docs

From: jack swift <jswift@up.net>
Date: Thu, 14 Mar 1996 15:10:14 -0500
To: aprssig@tapr.org
Message-ID: <9603142015.AC21722@btc1>
Rendered body type: text/plain

```
At 07:41 PM EST 3/13/96 -0600, Dave Kaplan wrote:
>>If you want to PRINT the new files, then ONLY print the TEXT files in the
>UPGRADE..
>>
>>
>I find that keeping a directory, alpha sorted (DIR /ON) at the front of my
>documentation helps.
>
```

i use the DOS COPY command to combine all the files and then can use
a word processor to word search for the 'offending' command or desired action.

(p.s. let's keep this just a mail reflector...)

```
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

424. Re: [APRSSIG:7557] Re: Eudora Pro Filter (For Barbara)

From: Barbara Fehner <fehner@cts.com>
Date: Thu, 14 Mar 1996 12:58:55 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19960314205855.006a85ec@mail.cts.com>
Rendered body type: text/plain

Take another look and you will see that it sorted by APRSSIG message number
and not by the message subject. The [APRSSIG:XXXX] is the first thing Eudora
sees in the subject line so it sorts by that. You can't get rid of it by
using the filter either without losing the whole subject.

Barbara KK6IB

```
________________________________________________________________________________
At 09:54 PM 3/13/96 -0600, you wrote:
>At 09:17 PM 3/13/96 -0600, you wrote:
>>
>>My Eudora Pro filter works great every day.  Here is what I use
>>
>>header "to"  contains  aprssig
>>
>>Ralph  N4NEQ
>>________
>
>  My Eudora Light sorts quite well by subject, under the "edit" bar.
>
>                                Pete, wa4hei
>
>
>
```

425. USGS Files

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 14 Mar 1996 15:33:01 -0800
To: aprssig@tapr.org
Message-ID: <3148ACAD.317F@hiwaay.net>
Rendered body type: text/plain

For some reason i got the message "Access PERMISSIN DENIED" for the
100K and the 2M DLG files on the USGS when attempting to download some of
those files. I didn't have no problem accessing none of the other
directories using FTP. Wonder if it's something i'm doing or USGS
changed something again.

Bill KE4EER

426. Re: [APRSSIG:7572] >->->->->VIRUS ALERT!<-<-<-<-<

From: Tom Martin <jtm@mo.net>
Date: Thu, 14 Mar 1996 19:53:39 -0600
To: aprssig@tapr.org
Message-ID: <3148CDA3.243D@mo.net>
Rendered body type: text/plain

Theresa, I am passing this message along to you so you won't
download this program. I don't think you would ever have need to do
it but be aware. Almost all zip files are for IBM machines.

Talk to you in the morning.

Love, Dad

427. WO-18 Posit Reporting (2)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Mar 1996 21:35:12 -0500 (EST)

To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960314212320.9392A-100000@greatlakes>
Rendered body type: text/plain

```
Seeing this months QST article "The Road Less Traveled" about the under
utilization of the 1200 baud Pacsats and at the risk of inviting the
further wrath of Mr Chen, it seems to me that there is real potential
here via WO-18 for some serious experimentation with world wide
amateur mobile/portable position reporting.  Here's why:

  1) The UPLINK is 1200 baud FSK using only a 30 watt 2m FM radio!

  2) The antenna can be an OMNI 19 inch whip!

  3) A position report only takes ONE 1 second packet at
     a very low duty cycle.  Even at a rate of 1 a minute, this
     2% duty cycle could drive a 35 watt modular FM amp with NO
     HEAT SINK.. Meaning the 35 watt amp is the size of a MATCHBOX!

If you limited your uplinks to WO-18 passes only (4 per day for
10 minutes each) your total energy requirement would be 40 * 35 * 2 or
2800 Watt seconds (50% effeciency).  This is less than 1 Whr.  Eight
D cells could power this POSITION REPORTING device for several MONTHS!

Are there any Backpackers, DXpeditions, Rovers, RV'ers or SAIL boaters
listening?  The entire GPS receiver, TNC and XMTR could easily be built
into a Cracker Jack's box (plus batteries and 19 inch whip antenna)...
Remember this is WORLDWIDE coverage (but only 4 times a day..  Many
MORE at the poles).  Perfect for travelers on a multiple day expedition
far from conventional communications...

  OOPS, I forgot about the FSK modem for the TNC, but I ASSUME that
an FSK modem is simple to make for this TRANSMIT ONLY application...
Gwyn at PacComm, care to comment?  On the receive side, all we need
are a few RECEIVE sites per continent that would DIGI these PACSAT
POSITS onto the HF tracking frequency... (or the internet!)

Someone with PACSAT experience and MODEM experience want to elaborate on
the simplicity or complexity of the FSK modem for the uplink?

de WB4APR
```

---

428. Maxon 2m tx boards

From: Kevin Kelly <kkelly@radix.net>
Date: Wed, 13 Mar 96 21:58:10 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199603150254.VAA17621@news1.radix.net>
Rendered body type: text/plain

```
-- [ From: Kevin Kelly * EMC.Ver #2.5.03 ] --

Greetings SIG members:

Just received the surplus Maxon 2m transmitters offered by Mark Endicott in
a recent post.  The units are Very nicely packaged in metal enclosure with a
a db9 for the i/o and a bnc for the ant.  Looking forward to getting them
crystaled up for APRS trakers I'm building.  Just wanted to let the SIG know
that the transmitters are excellent quality at a good price.

73,
Kevin Kelly/N6QAB

Hope to meet you in Dayton.
```

---

429. Re: [APRSSIG:7521] Re: MFJ Packet Xtals

From: William Richarz <wricharz@ix.netcom.com>
Date: Thu, 14 Mar 1996 22:18:33 -0500
To: aprssig@tapr.org
Message-ID: <199603150318.TAA12643@ix2.ix.netcom.com>
Rendered body type: text/plain

```
At 10:46 PM 3/12/96 -0600, you wrote:
>KCAWG has gotten a deal on 5 older Regency single-channel radios.  Not sure
what
>model yet, but would you hang on to those crystals until I find out?  If
they're
>compatible, I'll take 'em off your hands!
```

Not sure if they will work, below is the Crystal specs;

Receiver Crystal:

```
XTAL Freq. = Operating Freq. - 10.7 MHz
             ---------------------------
                          3
TYPE.........3RD OVERTONE [44-MHz RANGE]
TOLERANCE.....003% cOMMERCIAL sTANDARD
TEMPERATURE...26-Degrees C [Room Temperature]
LOAD..........Series
CASE..........HC-25U or FM-2
```

Transmitter Crystal:

```
XTAL Freq. = Operating Freq.
             ---------------
                    8

TYPE .........Fundamental Mode [18-MHz range]
TOLERANCE......003% Commercial Standard
TEMPERATURE...26-Degrees  C [Room Temperature]
LOAD..........32 pF, Parallel
CASE..........HC-25U or FM-2
```

If you can use them let me know...Posted the specs on the SIG here in case
in anyone else can use them if you can't.

73 de Bill

```
============================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
               URL: http://www.transprt.com/wricharz
============================================================================
```

---

430. Re: [APRSSIG:7578] WO-18 Posit Reporting (2)

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Thu, 14 Mar 1996 23:38:32 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b11.16.19960315043832.26ff8652@sun.lssu.edu>
Rendered body type: text/plain

At 08:53 PM 3/14/96 -0600, you wrote:
> at the risk of inviting the further wrath of Mr Chen,
> it seems to me that

You now have my attention. &;-)

Pete/wa4hei

---

431. Still fuzzy about UNPROTO

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Thu, 14 Mar 1996 22:56:32 -0600
To: aprssig@tapr.org
Message-ID: <9603142256.AA32998@oscar.telalink.net>
Rendered body type: text/plain

In spite of reading text files and owners manuals and other books on packet
I am still a little fuzzy on the working sof UNPROTO. My discussion with
others reveals that they are just as much in the dark about this subject as I.
I have come up with some scenarios and a series of questions that I hope can
shed some light on this subject and hopefully help others to understand how
this works. Your assistance in understanding this is appreciated.

Bruce, KQ4TV

Given:
All digis are WIDE-RELAY.
All point-to-point communications are are 2-way.
(K4QTH & AA4W can hear each other etc.)
There are other WIDE-RELAY digis beyond the known "fringe" digis that can
be communicated with.
There are other unknown home (RELAY) stations that can hear one or more of
the digis.

```
                                  # AA4NN




                                  # AA4N




 # AA4WW           # AA4W         + K4QTH         # AA4E           # AA4EE




                                  # AA4S




                                  # AA4SS
```

Scenario 1:

K4QTH, AA4W, AA4N AA4E, & AA4S can hear each other.
All digis can hear the digi next to them (AA4E can hear AA4EE and vice versa).
AA4W, AA4N AA4E, & AA4S can hear each other.

Questions:

1. What UNPROTO path should K4QTH use to give the widest
   disemination and least QRM.
2. What UNPROTO path should each digi use to give the widest
   disemination and least QRM.
3. K4QTH sends his position report with an UNPROTO of
   APRS VIA RELAY,AA4N,AA4E,AA4W,AA4S,WIDE.
   How is his report propogated?

Scenario 2:

K4QTH can hear and be heard by AA4W, AA4N AA4E, & AA4S.
All digis can hear the digi next to them (AA4E can hear AA4EE and vice versa).
AA4W can hear AA4N & AA4S, AA4E can hear AA4N & AA4S.
AA4S can hear AA4E & AA4W, AA4N can hear AA4E & AA4W.

Questions:

1. What UNPROTO path should K4QTH use to give the widest
   disemination and least QRM.
2. What UNPROTO path should each digi use to give the widest
   disemination and least QRM.
3. K4QTH sends his position report with an UNPROTO of
   APRS VIA RELAY,AA4N,AA4E,AA4W,AA4S,WIDE.
   How is his report propogated?

Scenario 3:

K4QTH can hear and be heard by AA4W, AA4N AA4E, & AA4S.
All digis can hear the digi next to them (AA4E can hear AA4EE and vice versa).
AA4W, AA4N AA4E, & AA4S cannot hear each other.

Questions:

1. What UNPROTO path should K4QTH use to give the widest
   disemination and least QRM.
2. What UNPROTO path should each digi use to give the widest
   disemination and least QRM.
3. K4QTH sends his position report with an UNPROTO of
   APRS VIA RELAY,AA4N,AA4E,AA4W,AA4S,WIDE.
   How is his report propogated?

Scenario Independant Questions:

If there are three other stations (K1QTH, K2QTH, K3QTH) between AA4W and AA4E
and every one from AA4W to AA4E can hear each other.
What happens when K4QTH beacons his position with an UNPROTO of RELAY?

What happens when K4QTH beacons his position with an UNPROTO of RELAY,WIDE?

K4QTH recieves a report as follows:
K9QTH>APRS,WIDE,WIDE*:?APRS?
What digis passed this report?

My standalone tracker in my car has an UNPROTO of RELAY,WIDE.
Why is does my position report:
KQ4TV-9>APRS,WIDE,RELAY:$GPGLL,3610.65,N,08635.22,W*76
have them reversed?

---

432. US Naval Observatory Web Site

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 14 Mar 1996 23:45:46 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960314234546.20814e6c@exame2.dseg.ti.com>
Rendered body type: text/plain

Gerry - please note question to you later in this message. Thanks.

Hi guys

I stumbled across this, and if you don't already know about it, you should!

A very neat site! (http://tycho.usno.navy.mil/time.html)

I especially recommend reading the "standard disclaimer" near the bottom of the page! Don't miss this!

The first yellow button "click-on" ....("What time is it?")....will take you directly to the page where you can access the "real-time" clock. Your WEB browser needs to be Netscape to see the "real time" clock (not corrected for network delays!).

In addition to a lot of information about the standard clocks, there is a lot of information about the GPS system.

The following paragraph is excerpted from:

UNITED STATED NAVAL OBSERVATORY (USNO)
AUTOMATED DATA SERVICE (ADS)
File GPSTT -- <960102.1351>
..
..
..
GPS TIME INFORMATION
Beginning June 17, 1990 at 0000 UT, GPS time is given by its Composite Clock (CC). The CC or "paper" clock consists of all Monitor Station and satellite operational frequency standards. The system was previously referenced to one of the Monitor Station's operational frequency standards and switched from one station to another as needed. The GPS epoch is 0000 UT (midnight) on January 6, 1980. GPS time is not adjusted and therefore is offset from UTC by an integer number of seconds, due to the insertion of leap seconds. The number remains constant until the next leap second occurs. The offset is also given in the navigation (NAV) message and your receiver applies the correction automatically. As of January 1, 1996, GPS time is ahead of UTC by eleven (11) seconds.
..
..
..
This evening I compared the time as shown on my Garmin GPS 45 with WWV. They are exactly the same as far as I could tell by eye - certainly nothing like the 11 second offset mentioned above. So - at least the GPS 45 does the automatic correction mentioned above. I wonder if ALL the GPS receivers really do that?

Question to Gerry. Why does the GPS system carry this offset, instead of correcting its time to be the same as the USNO standard? Deliberately carrying this error and then requiring the receivers to correct for it seems a rather convoluted way of doing things. Please keep educating us from your experience with the GPS system!

73 Claude
K5DTN

---

433. RE: [APRSSIG:7555] Re: News Group vs Mail Reflector

From: Roger Sellers <rsellers@misha.net>
Date: Thu, 14 Mar 1996 23:50:04 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1202.AD8798C0@dial05.misha.net>
Rendered body type: text/plain

Re: crashes with attached files. In downloading files via usenet, the files can/should be no longer than
I beleive 15,000bytes., beyond that, in extracting the files, it will generate errors and corrupt the
files
or maybe more.

Roger Sellers
KB9LBU

From: n2czf@gate.net[SMTP:n2czf@gate.net]
Sent: Wednesday, March 13, 1996 2:58 PM
To: aprssig@tapr.org
Subject: [APRSSIG:7555] Re: News Group vs Mail Reflector

RE: the Enclosures that Keith spoke about in the previous message I agree. I
often crash when I read the messages with the attached files or crash when I try
to delete the message without even reading it.

Users with Microsoft Mail that are using it to post messages please beware of
this problem. Another sig member noticed this after repeated attachments (every
sig posting he did!) and found that Microsoft has done this intentionally to
proide other Microsoft users a alternative to read the message (Word I believe).
There is a way to shut it off but I do know the command.

Please look into this, it can become quite annoying to reboot every time we try
to delete the message. Darn that Microsoft!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

434. RE: [APRSSIG:7577] Re: >->->->->VIRUS ALERT!<-<-<-<-<

From: Roger Sellers <rsellers@misha.net>
Date: Thu, 14 Mar 1996 23:59:00 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1202.B19FE020@dial05.misha.net>
Rendered body type: text/plain

Thanks Dad,
I'm glad you care... btw, what is the program? And why
do you think it has a virus. I havn't had any problems with the APRS files.

From: Tom Martin[SMTP:jtm@mo.net]
Sent: Thursday, March 14, 1996 1:54 PM
To: aprssig@tapr.org
Subject: [APRSSIG:7577] Re: >->->->->VIRUS ALERT!<-<-<-<-<

Theresa, I am passing this message along to you so you won't
download this program. I don't think you would ever have need to do
it but be aware. Almost all zip files are for IBM machines.

Talk to you in the morning.

Love, Dad

---

435. Help, need GPS suggestions

From: Roger Sellers <rsellers@misha.net>
Date: Fri, 15 Mar 1996 00:23:06 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1205.9ADF9120@dial05.misha.net>
Rendered body type: text/plain

I'm relatively new to ham radio (6months) and the APRS stuff has captured my interest and
attention. I was able to get the WinAPRS up and running right after it was made available. I have
something on my PC that makes it want to crash (using Win95) but that's another issue entirely.
Anyway, I used to only have a HT and was switching back and forth between voice and using it
for APRS. I just baught an ICOM IC2000h at a hamfest and was setting out to build a portable
system using my trusty old '286 laptop. I will be limited to using the DOS APRS because of only
one com port on the laptop (mouse and TNC wont share nicely!). I got Windows to run on it, but
the TNC had a fit.

```
  Ok, so here goes, I got my 286 running off 12 volts, a KPC3, and the ICOM 2000 working together
now. I want to add a GPS unit. But, I really don't know the first thing about them other than the way
they are supposed to work. It sould as though there are a number of users here that have GPS's.
  Could I solicit some advice,comments, 2 cents worth, etc.. to help me make a wiser decision
on what make/model is better to use. I will assume others will also be interested in this kind of
advice. Here in Northern Illinois, our local area has a fair concentration of APRS users (all versions)
and I know there are several others here planning to make future purchases. I have been monitoring
the messages here for a while and have'nt seen much discussion along these lines. This may be
an old and frequent discussion here, but with so many new people getting into APRS, this is
continually useful to others like me.

  If you have an opinion or suggestion for a GPS unit of preference, I'd be interested. Also, info on
where
to purchase and $$ might be of help. There are no dealers close to me as far as I know of.
Thanks in advance,

Roger Sellers
KB9LBU
```

---

436. Re: [APRSSIG:7573] Re: News Group vs Mail Reflector

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Date: Fri, 15 Mar 1996 09:02:40 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <9603150802.AA04901@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

```
> >Currently, I don't see any major reason to move it to a News Group,
> >especially since they are somewhat more subject to SPAMming than a news
> >reflector..
>
> I agree with you, Keith.  My delete button works just fine and I have no
> trouble deciding what to read/archive and what to just blow away.

The thing is, I -have- to sort through my Email if I'm to make sure I
don't miss an important message or one I don't want to miss.  There are
threaded Email readers and there are mail processing (filter) programs,
but most news readers have these features built-in.  If I'm not
interested in a thread, I hit ^K (or whatever) and I never see an article
with that subject again.  If I get tired of someone, I can do the same
with them.  I can also have articles of particular interest to me
automatically highlighted (sort of a reverse kill -- again, these features
are built-in to most news-readers I've seen).

What's more, I can read APRS-related stuff when *I* want to, not every
time I want to check my Email.

Thus, I'm in favor of creating an APRS newsgroup, with the ability to
"mirror" it to a listserver for those who prefer the Email method.  I
can't imagine making it a newsgroup will add more garbage to it than
is already in this listserv topic!

Optionally, in addition to having a newsgroup, we could turn the APRSSIG
into a moderated list, so at least the flames and accidental "private"
replies are filtered out for the rest of us.

--Shannon, DL6SEU
```

---

437. Re: Help, need GPS suggestions

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Fri, 15 Mar 1996 07:38:38 -0600
To: aprssig@tapr.org, Roger Sellers <rsellers@misha.net>
Message-ID: <9603150738.AA38974@oscar.telalink.net>
Rendered body type: text/plain

```
>     I'm relatively new to ham radio (6months) and the APRS stuff
> has captured my interest and attention. I was able to get the WinAPRS
> up and running right after it was made available.

----stuff deleted------

> now. I want to add a GPS unit. But, I really don't know the first
> thing about them other than the way they are supposed to work. It sould
> as though there are a number of users here that have GPS's.
>   Could I solicit some advice,comments, 2 cents worth, etc.. to help
> me make a wiser decision on what make/model is better to use.

----stuff deleted------

>   If you have an opinion or suggestion for a GPS unit of preference,
```

> I'd be interested. Also, info on where to purchase and $$ might be of
> help. There are no dealers close to me as far as I know of. Thanks
> in advance,
>
> Roger Sellers
> KB9LBU

A year a go I was in the same position. After soliciting opinions and reading as much as I could find I ecided to buy a Garmin GPS45. It is a nice small unit with sufficient features and available at a reasonable cost. It has a removable antenna that can be remoted or an external antenna can be substituted. I also found it to be quite easy to interface to my computer and to my TNC (KPC3) to work as a standalone tracker. I have had a problem with my unit. Most days I park my car (equiped with a GPS45 and an APRS standalone tracker) in the garage and turn off my tracker. In the morning when turning on the tracker the GPS45 I has dropped from Normal to Sky Search. I have called Garmen and they have told me to send it in for warranty repair. I plan to do that next week. I purchased my unit from E&B Discount Marine (1-800-BOATING)(1-800-262-8464). I recommend getting the mounting bracket and the Power/Data cable. I purchased mine a year ago for about $335 including the bracket and cable.
I know others on the SIG like the Magellan units and recently there are several people that may tell you about the Eagle AccuNav Sport.

I hope this helps,

73
Bruce, KQ4TV

---

438. Re: [APRSSIG:7586] Help, need GPS suggestions

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 15 Mar 1996 08:13:51 -0600
To: aprssig@tapr.org
Message-ID: <199603151413.IAA02346@tbc2.tbcnet.com>
Rendered body type: text/plain

Roger,
First, all of your messages to the list have an attachment to them (at least on my computer). It must be unintentional. You may wish to look into it.

Second, the single port/GPS theme has been addressed in the /readme docs, so I think you may find some help there. If the need for an HSP switch comes up (that allows use of a TNC and GPS on the same port) I have one that I bought for Wx that evidently wont work for that function. I paid around $25 for it. I'll sell it to you for less.

Also, N9WMM in the Chicago area just bought a Garmin 45 from E&B Marine for about $270. I have their phone no, so you can get a catalog from them if you want. Let me know if you want it.

I live down the road in DeKalb.

73's
Barry

At 12:35 AM 3/15/96 -0600, you wrote:
>   I'm relatively new to ham radio (6months) and the APRS stuff has captured my interest and
>attention. I was able to get the WinAPRS up and running right after it was made available. I have
>something on my PC that makes it want to crash (using Win95) but that's another issue entirely.
> Anyway, I used to only have a HT and was switching back and forth between voice and using it
>for APRS. I just baught an ICOM IC2000h at a hamfest and was setting out to build a portable
>system using my trusty old '286 laptop. I will be limited to using the DOS APRS because of only
>one com port on the laptop (mouse and TNC wont share nicely!). I got Windows to run on it, but
>the TNC had a fit.
> Ok, so here goes, I got my 286 running off 12 volts, a KPC3, and the ICOM 2000 working together
>now. I want to add a GPS unit. But, I really don't know the first thing about them other than the way
>they are supposed to work. It sould as though there are a number of users here that have GPS's.
> Could I solicit some advice,comments, 2 cents worth, etc.. to help me

make a wiser decision
>on what make/model is better to use. I will assume others will also be
interested in this kind of
>advice. Here in Northern Illinois, our local area has a fair concentration
of APRS users (all versions)
>and I know there are several others here planning to make future purchases.
I have been monitoring
>the messages here for a while and have'nt seen much discussion along these
lines. This may be
>an old and frequent discussion here, but with so many new people getting
into APRS, this is
>continually useful to others like me.
>
> If you have an opinion or suggestion for a GPS unit of preference, I'd be
interested. Also, info on where
>to purchase and $$ might be of help. There are no dealers close to me as
far as I know of.
>Thanks in advance,
>
>Roger Sellers
>KB9LBU
>
>Attachment Converted: C:\EUDORA\APRSSIG2
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com

---

439. Re: [APRSSIG:7586] Help, need GPS suggestions

From: rkramer@cdx.net (Ronald Kramer)
Date: Fri, 15 Mar 1996 14:12:52 GMT
To: aprssig@tapr.org
Message-ID: <314979c4.292509972@mail.cdx.net>
Rendered body type: text/plain

On Fri, 15 Mar 1996 00:35:19 -0600 (CST), you wrote:

>Thanks in advance,
>
>Roger Sellers
>KB9LBU
>
>------ =_NextPart_000_01BB1205.9AE8B8E0
>Content-Type: application/ms-tnef
>Content-Transfer-Encoding: base64
>
>eJ8+IhAGAQaQCAAEAAAAAAABAAEAAQeQBgAIAAAA5AQAAAAAAADoAAENgAQAAgAAAAIAAgABBJAG
>AAwBAAABAAAADAAAAAMAADADAAAACwAPDgAAAAACAf8PAQAAAD8AAAAAAAAAgSsfpL6jEBmdbgDd

dito """"""""""

>------ =_NextPart_000_01BB1205.9AE8B8E0--

Mr Sellers... please fix your microsoft emailer so it does not add
these unnecessary files to the end of each message you send...

Thanks

Regards, Ron ...   73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

440. Re: [APRSSIG:7579] Maxon 2m tx boards

From: JAgrelo@aol.com
Date: Fri, 15 Mar 1996 09:13:42 -0500
To: aprssig@tapr.org
Message-ID: <960315091342_447085915@emout05.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-03-15 00:12:03 EST, you write:

>Just received the surplus Maxon 2m transmitters offered by Mark Endicott in
>a recent post. The units are Very nicely packaged in metal enclosure with a
>a db9 for the i/o and a bnc for the ant. Looking forward to getting them
>crystaled up for APRS trakers I'm building. Just wanted to let the SIG know
>that the transmitters are excellent quality at a good price.

How much?

Where do you get them?

Thanks!

 73 de Joe N2OOC
```
-------------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-------------------------------------------------------------------------------
-----------------
```

441. Base64?

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Fri, 15 Mar 1996 06:36:34 -0800
To: aprssig@tapr.org
Message-ID: <199603151436.GAA10398@CATI.CSUFresno.EDU>
Rendered body type: text/plain

Why do so many messages have pages of random ascii characters at the end that say transfer encoding base 64? not just some, but many! weird! Hope my msgs don't have all that nonsense!

442. gps antenna?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 15 Mar 1996 08:46:02 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960315144602.0097d13c@144.188.134.33>
Rendered body type: text/plain

Was there some person or group of people who were building and selling at a reasonable price a mobile gps antenna? If so, could you please point me in their direction. thanks.

Paul, WD9ABE

443. Re: [APRSSIG:7576] USGS Files

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Mar 1996 09:02:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603151502.JAA24742@solar.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:
>
> For some reason i got the message "Access PERMISSIN DENIED" for the
> 100K and the 2M DLG files on the USGS when attempting to download some of
> those files. I didn't have no problem accessing none of the other
> directories using FTP. Wonder if it's something i'm doing or USGS
> changed something again.

And I got a 404 error: Not found. Looks like they're changing something!

Maybe we should investigate using Tiger files?

73, gerry

444. RE: [APRSSIG:7588] Re: Help, need GPS suggestions

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Fri, 15 Mar 1996 9:13:29 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960315091329.20819d30@exame2.dseg.ti.com>
Rendered body type: text/plain

To: Roger Sellers, KB9LBU
    Roger, I also have a Garmin GPS 45 and have been pleased with it. It works fine for a stand alone tracker and is a fun instrument to add to the instrument cluster in the car. I got mine last summer from West Marine here in Dallas, although West Marine is a nationwide outfit. It cost $299. I also

```
bought the mounting bracket and the power/data cable, together cost an extra
$65. That's kinda steep for such items, but they work well and there is
minimum hassle about putting it all together. As Bruce said in his reply to
you, there are certainly other good units on the market, but I don't think
you will be unhappy with the GPS 45 if you decide to go that route.

To: Bruce Martin, KQ4TV
    Bruce, re your problem with the GPS going into Sky Search mode. I also
have experienced this when I parked the car in an undergound garage and left
the GPS 45 powered up. When I came back to the car, the GPS 45 was in a
power off state, and needed a Sky Search to get going again. However, this
does not happen if I remember to power down the GPS 45 when I park the car
where it cannot see the sky. Then, when back outside, a power up and the
unit usually reacquires lock on the birds in 10 to 20 seconds.

You say you turn off the tracker when you park in the garage. Does this mean
that you actually hit the on/off button on the GPS 45, or just drop the
external 12 v power? Just dropping the external 12 v power does not turn the
GPS 45 off (if you have the 4 AA cells installed internally as Garmin
recommends). When I make sure to turn off the GPS 45 with its front panel
switch, I do not have the Sky Search problem. Maybe that would work for you,
too.
    73 to all
    Claude Head
    K5DTN
```

---

445. Antennas... from M/A-Com

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Mar 1996 09:14:53 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603151514.JAA24842@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Last week, I talked to Roger Jacobs at M/A-Com.  He's the product manager for
their active and passive antenna line.  He tells me they *will*  sell small
quantities to the public and especially to hams.

If your local M/A-Com sales rep won't sell to you in qty-1 (They work on
commission, and Roger says sometimes they may try to avoid the small sales),
he says to call the factory and they will sell direct!

For Cows In Space, I used an ANC-C-109 patch antenna.  It's roughly 3 inches
in diameter, 3/8 inch tall and has an SMA connectoron the bottom.  In qty-25,
it cost $36.  I'd expect these _PASSIVE_ antennas to be about $45 in qty-1.
The ANP-A-114-4, a similar active antenna with about 24 dB of gain (I'm doing
*this* one from memory) is $80.25 qty-1, and it can be powered by +5 on the
coax.  The 114-4 uses a TNC connector, but they have other options.

M/A-Com has a catalog on diskette.  I'll port that to the tapr site next week
sometime.

73, gerry
```

---

446. Re: [APRSSIG:7583] US Naval Observatory Web Site

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Mar 1996 09:40:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603151540.JAA25289@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Claude 995-5040 pager 4541 sez:
>
> Gerry - please note question to you later in this message. Thanks.

WILCO

> Hi guys
>
> I stumbled across this, and if you don't already know about it, you should!
>
> A very neat site!  (http://tycho.usno.navy.mil/time.html)
>
> I especially recommend reading the "standard disclaimer" near the bottom of
> the page! Don't miss this!

'Way cool!  Thanks for the URL!  I've seen something like this before, but I
don't think, ever this complete!  I've saved that one for MY page!

> Question to Gerry. Why does the GPS system carry this offset, instead of
```

> correcting its time to be the same as the USNO standard? Deliberately
> carrying this error and then requiring the receivers to correct for it seems
> a rather convoluted way of doing things. Please keep educating us from your
> experience with the GPS system!

Makes the record-ceeping somewhat easier. I suspect yoour GPS-45 has been told to report times in UTC, and if it's outputting NMEA sentences it should be outputting UTC rather than GPS time, simply to comply with the NMEA standards.

GPS time is based on the original time they started the system. Every year or so, the geeks that be in charge decide the earth's slowing down, and add a second. From their perspective, it's real easy to add 1 second to the entry in the Almanac that each space vehicle transmits as part of the GPS message to all receivers, and which all receivers use to rough-determine satellites in view in the absence of good ephemeris data from the individual birds. The book-keeping associated with updating all 4 primary ground stations, the myriad backup ground stations, all the PRNs, AnD the user community, if they were to merely tie it all to UTC, would make life real interesting, and a little less synchronized.

Keeping track of the GPS offset shouldn't be a big issue on the ground. The user, if using NMEA should never have to worry this issue (older Magellan owners beware). folks using the Motorola PVT-6 engine can tell the receiver what form to output in Motorola Binary mode, thus making it painless there, too.

Hope this answered the question.

73, gerry

---

447. Re: [APRSSIG:7592] Base64?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Mar 1996 09:49:15 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603151549.JAA25345@solar.cs.tamu.edu>
Rendered body type: text/plain

Pat Bunsold sez:
>
> Why do so many messages have pages of random ascii characters at the end
> that say transfer encoding base 64? not just some, but many! weird! Hope
> my msgs don't have all that nonsense!

remember the Windows 95 thing? A lot of folks foresook a real, debugged operating system and got Windows 95, operatingon the belief that it was new, innovative and different... Micro$oft included in the package a mailer that automatically MIME-encodes everything sent out so that it can easily be read by their mailer and Word 7.0, assuming that they were the only folks on the Internet that used mail.

A number of folks who use other operating systems and mail programs have to contend with the issue. Micro$oft is of the opintion that it not their problem and do not, apparently, have an easy solution to getting rid of the attachments (they even MIME-encode a simple plain-text message!) so the only practical solution for the Windows 98 user is to go get Eudora or one of the other _working_ mail programs.

Me? I'll stay with what *I* have to work with every day: Unix, as well as OS/2, which implemented a real 32-bit multitasking OS several years ago!

73, gerry

---

448. Re: News Group vs Mail Reflector

From: Will Flor <willf@rrgroup.com>
Date: Fri, 15 Mar 96 09:52:41 -0600
To: aprssig@tapr.org
Message-ID: <9603151553.AA13330@inc.net>
Rendered body type: text/plain

You wrote:

From: S.Miller@rus.uni-stuttgart.de[SMTP:S.Miller@rus.uni-stuttgart.de]
Sent: Friday, March 15, 1996 2:10 AM
To: aprssig@tapr.org
Subject: [APRSSIG:7587] Re: News Group vs Mail Reflector

   >I'm in favor of creating an APRS newsgroup, with the ability to
   >"mirror" it to a listserver for those who prefer the Email method. I

>can't imagine making it a newsgroup will add more garbage to it than
>is already in this listserv topic!

Here's a better (IMHO) option: do what the emerg-l list and misc.emerg-services newsgroup have done - anything mailed to the emerg-l list is "automagically" posted to the newsgroup, so if anyone prefers Usenet, it's there for them. Dejanews is a great way to look up past postings, for example. However, postings to misc.emerg-services are *not* placed into the mailing list - so those who wish to read on-topic e-mail don't have to wade through spam. Then, moderate the mailing list if you must (*sigh*) but leave the newsgroup unmoderated. My prediction is that what happened with the mail list/newsgroup I mentioned will also happen to the APRSSIG - most of the traffic will be on the Usenet newsgroup, rather than the mailing list. This is because not only does the "spam" enter the system from Usenet, so does most of the useful discussion.

I certainly hope that this talk of "moderation" doesn't lead to the all-too-familiar "poison pill" of politics rearing its ugly head in APRS like it has in so many areas of ham radio. Most of the traffic on this mail list is, in fact, on-topic, and a *non-political* moderator would have to let it through. If the "moderator" is someone with a political axe to grind, this mailing list will quickly become a "politically correct mail only" list, which will serve nobody's interests except perhaps the moderator and his cronies. What will the "moderator" consider a flame and turn away? If a message is let through, someone feels insulted, and their reply *isn't* let through - the "moderator" has just taken a political position - "you can be insulted in a public forum, but you can't reply in the same forum because I said so." The last thing we need is a "zampolit" who turns away on-topic messages because he doesn't agree with the subject matter - there's a word for that, and it's *NOT* "moderation."

If anyone really cares (and can't figure it out from the above, ;-) I *strongly* oppose "moderation." It's too easy for a "moderator" to subtly change things to make it appear that political positions with which he agrees are universally accepted. I can easily see a "computer bigot" for example, only letting through messages slamming computers he doesn't like, and killing ones meekly pointing out that "they all have their strong points and their weak points." This is the kind of thing that IMNSHO *will* eventually happen here if this list becomes "moderated."

>Optionally, in addition to having a newsgroup, we could turn the APRSSIG
>into a moderated list, so at least the flames and accidental "private"
>replies are filtered out for the rest of us.

>--Shannon, DL6SEU

73 de Will KB9JTT

---

449. Re: [APRSSIG:7582] Still fuzzy about UNPROTO

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Mar 1996 11:18:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960315101754.14195F-100000@greatlakes>
Rendered body type: text/plain

On Thu, 14 Mar 1996, Bruce W. Martin asked about using UNPROTO paths:

```
>
>                      DIGI-NN
>
>                      DIGI-N
>
>  DIGI-WW   DIGI-W    K4QTH     DIGI-E    DIGI-EE
>
>                      DIGI-S
>
>                      DIGI-SS
>
> Scenario 1:  The inner 5 stns can all hear each other
>    Q1:  What should K4QTH use for widest coverage?       A: WIDE,WIDE
>    Q2:  What should each digi use for widest coverage?   A: WIDE,WIDE
>    Q3:  K4QTH sends  VIA RELAY,DIGI-W,DIGI-N,DIGI-E,DIGI-S,WIDE
  ANSWER: Goes in a BIG circle!  4 local copies, and then DIGI-s sends
          it ONCE VIA WIDE for 4 more copies. Total is 9 packets, only
          2nd tier digi to repeat it is DIGI-SS.  Each packet was 28
          characters LONGER than if he had used WIDE,WIDE.
          If he used W,W then all 8 digis would repeat it ONCE and the
          inner ring *may* do it twice, but hopefully they all collide
          at the same time and only take up one time slot..
          NOTE: each digi takes up 7 BYTES even if the name is only 4!
>
> Scenario 2: The inner 5 stns all hear their neighbors, but NOT across
> the center.  IE DIGI-E does not hear DIGI-W
>    Same Questions:....           A:  SAME ANSWERS
>
> Scenario 3:  The inner 4 digis *cannot* hear each other.
>    Same Questions:....           A:  SAME ANSWERS
>
>
> Scenario 4: Add K1QTH, K2QTH, K3QTH to the center region between DIGIw/e
> QUESTN: K4QTH beacons VIA RELAY
  ANSWER: All 3 stns and 4 digis ALL digipeat it at once.  9 packets total.
          But, since everyone heard it in the first place, it gets through.
> QUESTN: K4QTH beacons VIA RELAY,WIDE
> ANSWER: Total BEDLAM. All 4 digis and ALL 3 stns digi the RELAY, then
          all 4 DIGIs digi the 8 resulting WIDEs, and the second tier also
          DIGIs it for a worst case of 1 + 8 + 8*8 = 73 packets
  NOTES:  1) Non-isolated stations should NOT use RELAY at the beginning
          2) If they all hear each other, then use NO DIGIPEATERS
          3) If they dont all hear each other, then use VIA WIDE
          4) if you want to go out to all DIGIs, use WIDE,WIDE
          5) NEVER use W,W,W.  With perfect collision avoidance, a total of
             1+4 + 4*4 + 16*8 = 149 packets (R,W,W is the SAME!)
> QUESTN: K4QTH recieves this packet:   K9QTH>APRS,WIDE,WIDE*:?APRS?
>         What digis passed this report?
> ANSWER: Knobody knows, He probably got it LOTS of times too
>
> My tracker is via RELAY,WIDE.  Why are they reversed in my packet?:
>         KQ4TV-9>APRS,WIDE,RELAY:$GPGLL,3610.65,N,08635.22,W*76
  ANSWER:  Good question???
```

---

450. Minimum res on maps? (was Re: Base64?

From: Peter Laws <plaws@babo.uark.edu>
Date: Fri, 15 Mar 1996 10:40:31 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960315103310.1452A-100000@babo>
Rendered body type: text/plain

```
On Fri, 15 Mar 1996, Pat Bunsold wrote:

> Why do so many messages have pages of random ascii characters at the end
> that say transfer encoding base 64?  not just some, but many!  weird!  Hope

Microsoft's Win95 mailer has decided that everyone would also like an
RTF-formatted version of the email that unfortunate Win95 users send.
Since it is not 7-bit ascii, it is sent as a MIME attachment.  The default
can be changed, I've heard.

"Windows 95: 19 million beta testers and counting"

APRS:

What is the minimum resolution that APRS can show?  I admit to not having
installed APRS yet and should probably just RTFM ... :-)

Could one display, say, a 1*1 square mile area and show vehicle movement?
I assume one can just take the roads layer of the USGS files and blow it
up to what ever one needs ...

Peter

Peter Laws<plaws@comp.uark.edu>|"I'd rather get cable TV from the phone company
n5uwy@ka5bml.#nwar.ar.usa.noam |than phone service from the cable company"-unk.
```

---

451. Re: [APRSSIG:7595] Re: Help, need GPS suggestions

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 15 Mar 1996 11:30:23 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960315173023.00932054@144.188.134.33>
Rendered body type: text/plain

```
At 09:29 AM 3/15/96 -0600, you wrote:
>To: Roger Sellers, KB9LBU
>
>    Bruce, re your problem with the GPS going into Sky Search mode. I also
>have experienced this when I parked the car in an undergound garage and left
>the GPS 45 powered up. When I came back to the car, the GPS 45 was in a
>power off state, and needed a Sky Search to get going again. However, this
>does not happen if I remember to power down the GPS 45 when I park the car
>where it cannot see the sky. Then, when back outside, a power up and the
>unit usually reacquires lock on the birds in 10 to 20 seconds.
```

```
>


I had a similar problem with my Garmin 45. (It also had another annoying
feature regarding spontaneous 1 minute arrival warnings) I complained to
Garmin, and since it was still under the 1 year warranty I sent it back.
They returned a completely new unit with a MUCH more updated software
version. All problems are now gone! All I had to pay was shipping.

Paul, WD9ABE
```

---

452. Re: [APRSSIG:7601] Minimum res on maps? (was Re: Base64?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Mar 1996 11:56:00 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603151756.LAA26345@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Peter Laws sez:
>
> Could one display, say, a 1*1 square mile area and show vehicle movement?
> I assume one can just take the roads layer of the USGS files and blow it
> up to what ever one needs ...

I've been displaying a 400 acre pasture and watching cow movement quite
succesfully.

73, gerry
n5jxs@tamu.edu
```

---

453. GPS for landing planes

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Fri, 15 Mar 96 10:37:06 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <67@w6dnt.ampr.org>
Rendered body type: text/plain

```
The GPS system illustrated in Popular Science can land a jumbo jet by
category III (hands-off, completely automatic landing.)

FAA made 160 successful landings out of 161 in California. One of them was a
satellite kaput; plane did a go-around.)  [Apr 1996 Popular Science.]

Does anyone know how the system work? I'd like to know.

According to the diagram, they seem to have 2 transponders near the airport.
(which they called transceivers.) As well as a Differential transmitter
mounted at the tower.

I'd appreciate if someone can give me some detail of the set up, as the
article in the Poplar Science magazine (Apr.'96) is pretty short and vague.

-al.
```

---

454. Re: WO-18 Posit Reporting (2)

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Fri, 15 Mar 96 19:02:42 UTC
To: amsat-bb@amsat.org, bruninga@nadn.navy.mil
Cc: aprssig@tapr.org
Message-ID: <95740@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
WB4APR asked:

> Someone with PACSAT experience and MODEM experience want to elaborate on
> the simplicity or complexity of the FSK modem for the uplink?

First, the uplink is "MO" only, no "DEM" required.

The WO-18 uplink is IDENTICAL to AO-16 and LUSAT. The modulation used
is 1200 BPS with Manchester encoding. Here is the recipe:
  a. From your TNC extract the raw HDLC data bits at 1200 BPS
  b. Also extract from the TNC a 1200 Hz, 50% duty cycle clock signal
     synchronized with the data bits. Or if the clock is not available,
     it's pretty simple to lock a clock to the raw bits -- it can be
     done with as little as a 555 multivibrator.
  c. Take the 1200 BPS data and the 1200 Hz clock and feed them into
     an exclusive-or gate. This generates a phase reversal midway thru
     the bit.
  d. Low-pass filter this composite signal to ~2 kHz bandwidth. A
     simple RC filter with the RC product ~ 500 usec should be about
     right.
  e. Feed this signal into the FM input on the radio. Set the radio's
     deviation to about 2-2.5 kHz (probably less than it is running now).
  f. Packet away.

73, Tom
```

---

455. Re: [APRSSIG:7594] Re: USGS Files

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 15 Mar 1996 13:26:11 -0800
To: aprssig@tapr.org
Message-ID: <3149E073.5356@hiwaay.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> William Nolle sez:
> >
> > For some reason i got the message "Access PERMISSIN DENIED" for the
> > 100K and the 2M DLG files on the USGS when attempting to download some of
> > those files. I didn't have no problem accessing none of the other
> > directories using FTP. Wonder  if it's something i'm doing or USGS
> > changed something again.
>
> And I got a 404 error: Not found.  Looks like they're changing something!
>
> Maybe we should investigate using Tiger files?
>
> 73, gerry------------------ snip ----------
Yes and last night i logged on (FTP) and there was nothing in the 100K
and the 2M directories at all. So i think your right Gerry something's up
and changing at the USGS..

Bill KE4EER
```

---

456. NEW FORMAT 2MEG USGS CD-ROM

From: tedant@usa.pipeline.com (Theodore Antanaitis)
Date: Fri, 15 Mar 1996 14:37:58 -0500
To: aprssig@tapr.org
Message-ID: <9603151937.AA08434@pipe5>
Rendered body type: text/plain

```
If anyone has recently purchased a USGS DLG Optional Format 1:2,000,000
CD-ROM Mastered 7/95 and finds that the traditional APRS mapmaking programs
cannot extract data from it, I may be able to help.

I have created a pair of linked QBASIC programs from programs written by
N7JXS, KB4XF, W7KKE, WB4APR, and others to specifically handle this new
format. They are not graceful, nor efficient, nor bug free ... but they are
the only programs I know of that can presently handle this new CD.

Please, if any flamers (or others) want to jump in and VOLUNTEER to create
or modify another program to do this FEEL FREE.

Until that happens, please contact me via DIRECT email (no need to clutter
the SIG) and supply an address to which I can send you copies of the
programs. -THESE WILL NOT WORK ON THE OLDER FORMAT 1:2,000,000 CD-ROMs, so
I prefer not to upload them to an FTP site unless a greater need develops
(they are NOT works of art).

--

Ted Antanaitis WA7ZZB
email:   tedant@usa.pipeline.com
```

---

457. USGS Files

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 15 Mar 1996 13:42:57 -0800
To: aprssig@tapr.org
Message-ID: <3149E461.6759@hiwaay.net>
Rendered body type: text/plain

```
Well checked this morning and the USGS site is back up and running and i
was able to access both the 100K and the 2M directories, it doesn't look
like anything changed, but i did download one of the 2M files to see if
they can be used.
```

Bill KE4EER

---

458. Re: [APRSSIG:7607] NEW FORMAT 2MEG USGS CD-ROM

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 15 Mar 1996 16:31:40 -0800
To: aprssig@tapr.org
Message-ID: <314A0BEC.1B96@hiwaay.net>
Rendered body type: text/plain

```
Theodore Antanaitis wrote:
> 
> If anyone has recently purchased a USGS DLG Optional Format 1:2,000,000
> CD-ROM Mastered 7/95 and finds that the traditional APRS mapmaking programs
> cannot extract data from it, I may be able to help.
> 
> I have created a pair of linked QBASIC programs from programs written by
> N7JXS, KB4XF, W7KKE, WB4APR, and others to specifically handle this new
> format. They are not graceful, nor efficient, nor bug free ... but they are
> the only programs I know of that can presently handle this new CD.
> 
> Please, if any flamers (or others) want to jump in and VOLUNTEER to create
> or modify another program to do this FEEL FREE.
> 
> Until that happens, please contact me via DIRECT email (no need to clutter
> the SIG) and supply an address to which I can send you copies of the
> programs. -THESE WILL NOT WORK ON THE OLDER FORMAT 1:2,000,000 CD-ROMs, so
> I prefer not to upload them to an FTP site unless a greater need develops
> (they are NOT works of art).
> 
> --
> 
> Ted Antanaitis WA7ZZB
> email:   tedant@usa.pipeline.com--------
That's great Ted, even tough i don't have that cd i think it's great
someone is taking the Bull by the horn so to speak and doing something
for the APRS mapmakers Hi. Keep up the good work, wish i was a
programmer.

Bill KE4EER
```

---

459. Ultima 2000 Wx Station

From: Miami Network <0004818186@mcimail.com>
Date: Fri, 15 Mar 96 17:30 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <74960315223047/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

We just received our unit from Peet Brothers and initial tests have
proved most rewarding.

When this unit is installed and connected to the DB-25 of the KPC-3
at the DIGI site will it override the DIGI?

Can the Wx Station and a WIDE Digi peacefully coexist together or
is it an either or situation.

73, Seymour, KC4NMY
miaminet@mcimail.com

---

460. 1:2mil CD program

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 15 Mar 96 17:57:08 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.826930628.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

The program I am working on (MacCartogropher) will be able to support the new
format USGS 1:2million CD. This will NOT be done untill after Dayton, but it
WILL be done. This will enable us to make MacAPRS/WinAPRS maps from the new
CDs..

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

461. Re: [APRSSIG:7610] Ultima 2000 Wx Station

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 15 Mar 96 19:08:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199603160006.TAA05092@newworld.bridge.net>
Rendered body type: text/plain

```
>When this unit is installed and connected to the DB-25 of the KPC-3
>at the DIGI site will it override the DIGI?
>
>Can the Wx Station and a WIDE Digi peacefully coexist together or
>is it an either or situation.

Both can co-exist without any problems. When I'm not in the Keys I leave
my KPC on transmitting the data (and as a WIDE), you've probably seen
some of the data, starts with '!!' and then a bunch of numbers. The only
problem now is that MacAPRS and WinAPRS can't decode the data from a
stand-alone U-2000. They do fine on the U-II. I have been "encouraging"
Keith to get that feature into the program, hopefully won't be too long.
I don't know if the DOS version decodes the data.

Steve  KO4HD
```

---

462. RE: [APRSSIG:7590] Re: Help, need GPS suggestions

From: Roger Sellers <rsellers@misha.net>
Date: Fri, 15 Mar 1996 18:24:48 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB129C.B7DE06C0@dial14.misha.net>
Rendered body type: text/plain

```
Sorry about the attachments. I didnt even know they existed or were a problem.
I've received several DIRECT and Pointed messages about this, somewhat shy of rude.

  I've sent e-mail directly to others for some time, I even belong to another SIG
and have not seen or received a single comment or statements about attachments.

  I would be very happy to comply with the requests and will try to find out how
to correct it. Maybe some enlighted soul would be slower to complain and quicker
to offer a newbie to the SIG exactly how to turn it off. Till then, I will endevor to
correct the situation.
  As a coordinator, I've seen a number of posts by you. Maybe a notice or bulletin
periodically could be posted with directions of how/where to check would be in order.
It would be great to see advice posted nearly as faat as criticism is. Not every
user of Windows 95 is technically privy to the way that MS has defaults configured.

You learn to walk by falling down, you learn the correct way things are done by
mistakes, or can accept wisdom by being offered the solutions before you make the
mistakes. Are you and others so quick to condemn the mistakes of a newer ham
and chew them out when they started in amataur radio? I hope not. So in  that
logic, I hope you and others will have a bit of tolerance. I don't mind being told I have
made a mistake or am not doing something right. But some of you guys need to remember
a bit of etiquite. I'd wish to expect more from ham radio operators.

Roger Sellers
KB9LBU
```

---

463. Re: [APRSSIG:7610] Ultima 2000 Wx Station

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Mar 1996 20:25:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960315202128.25795D@greatlakes>
Rendered body type: text/plain

```
On Fri, 15 Mar 1996, Miami Network wrote:

> When the U-2000 is installed and connected to the DB-25 of the KPC-3
> at the DIGI site will it override the DIGI?  Can the Wx Station and a
> WIDE Digi peacefully coexist together or is it an either or situation.

WB4APR REPLY COMMENT:  Both functions will work perfectly.  Its tricky
for me to figure out when to paint it blue, green, or partial green, but
except for the colors, it will FUNCTION...   We may have some tweaking
of my code anyway to make the MAP display make sense all the time.  The
WX will always work, its just can I paint it green instead of blue...
```

---

464. Ultimeter 500

From: Steve Sable <ssable@ic.net>
Date: Fri, 15 Mar 1996 21:13:40 -0500

To: aprssig@tapr.org
Message-ID: <m0txlVI-001ZX9C@ic.net>
Rendered body type: text/plain

```
ANYONE running a Ultimeter 500 with APRS or anything else?
Dont seem to get any data out of the ultimeter to the computer. I have their
interface cable which is a phone line to DB-9 serial connector.
I tried just a plain boot disk with no auto.bat or config.sys and tried
running Pro Comm Plus as the Peet Bros suggested with no luck. They said
data will just flow on the screen. Yes I held the 2 keys down for constant
data flow. Tried diff comm ports at 2400 baud.
Peet bros even exchanged my key board and spent quite some time on the phone
as we both worked side by side with an ohm meter checking the connection
between the keypad and the end of the DB-9. All is ok.
They want to send me another key-pad but I dont think 2 of them could be
bad. Dont know what else to suspect. ANYONE have the 500? Would like to hear
from you. I think I have exhausted any leads from the helpful Peet Bros.
Love the unit but also would like to get data flowing.
                                  \\\\
                                  (o^o)
    =========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    ========================================================
```

---

465. Re: [APRSSIG:7593] gps antenna?

From: ku0g@sprynet.com
Date: Fri, 15 Mar 1996 18:30:20 -0800
To: aprssig@tapr.org
Message-ID: <199603160230.SAA18020@sprynet.com>
Rendered body type: text/plain

```
Try taking a look at the KC APRS Working Group homepage.  One of our members,
N0LRF, is manufacturing a GPS antenna and all the information is on our page.
The URL is:

http://ourworld.compuserve.com/homepages/APRS_KC

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com

"Can't we all just get along?" -- R. King, 1994.
```

---

466. Re: [APRSSIG:7601] Minimum res on maps? (was Re: Base64?

From: ku0g@sprynet.com
Date: Fri, 15 Mar 1996 18:36:33 -0800
To: aprssig@tapr.org
Message-ID: <199603160236.SAA18946@sprynet.com>
Rendered body type: text/plain

```
Minimum resolution is 1/16 of a mile (.03125) and that would be NAUTICAL
miles...  You can zoom in and out by factors of 2x or, optionally, 8x by using
PG UP and PG DN.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

467. WO-18 digipeater for APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Mar 1996 22:12:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960315215641.26059B-100000@greatlakes>
Rendered body type: text/plain

```
THings are exciting!  Here is a summary:
1) Looks like we have Weber OK for playing APRS on WO-18!  See below...
2) Tom Clark says it only takes an XOR gate at the right place in your
   TNC and a simple RC filter for the audio to XMT!
3) I borrowed a PSK modem and on my first pass copied 50 packets of
   PHOTO-8.  Its all giberish on PROCOMM, but the packets are just
   normal ole AX.25 packets with headers and all.  The telemetry and
   STATUS packets are human readaable
4) Saw no digipeated packets.  Interface to the radio for XMT was MIC
   audio, and on UHF downlink was speaker audio. (I had forgotten how
   easy it was (except for the $300 modem, hi hi)
5) I tried to XMT, but missed half the pass due to tunAng innexperience..
```

but have only BEGUN. I only got the audio cables
wired up 3 minutes before the pass, Had never heard the PSK signal
before, and my KEPS were 3 months old, but the bird was RIGHT ON SCHEDULE!
6) Freq for downlink was 437.102 SSB
Freq for uplink was 145.900 FM (manchester encoded)

Since the XMT side is so easy, Im beginning to think that the receive side is also very easy too... Except for the modem, remeber that all you need is a UHF downconverter to any SSB receiver, even an old CB will do! I wonder how well one of the DIRECT conversion HF kits ($70) would do???

OK, before I BUG the AMSAT-BB mailing list to death, how many APRS'ers on this SIG have 1200 baud PACSAT capability?

---------- Forwarded message --
Date: Fri, 15 Mar 1996 10:06:58 -0700 (MST)
From: Chris Williams <cwilliam@utw.com>

Concerning the recent discussion of position reporting via WO-18's digipeater. I don't understand the technique and won't venture an opinion. I'm just posting to let y'all know we here at Weber State do intend to keep the spacecraft's digipeater ON indefinitely. No plans to turn it OFF. It doesn't interfere with what the various students are doing with the spacecraft and we're glad to provide it to the amsat community as an experiment platform.

Chris Williams
WA3PSD

---

468. Re: [APRSSIG:7604] GPS for landing planes

From: rodneym@hearstelectroweb.com (Rodney Myrvaagnes)
Date: Fri, 15 Mar 96 18:05:26 EST
To: aprssig@tapr.org
Message-ID: <199603160406.UAA27576@ix3.ix.netcom.com>
Rendered body type: text/plain

On Fri, 15 Mar 1996 12:58:50 -0600 (CST) al wrote:

>The GPS system illustrated in Popular Science can land a jumbo jet by
>category III (hands-off, completely automatic landing.)
>
>FAA made 160 successful landings out of 161 in California. One of them was a
>satellite kaput; plane did a go-around.) [Apr 1996 Popular Science.]
>
>Does anyone know how the system work? I'd like to know.
>

I remember an article about this in GPS World when they had just started. In addition to the local differential GPS, the plane used a down-looking radar for precise altitude from 40 feet down to the runway. I haven't seen the PS article, but the transponders may be a later substitute for the radar.

A local differential setup that broadcast carrier-phase corrections for each Sat. would get the approach path fine, but separate altitude data might avoid landing 15 feet above or below the ground. :-)

Rodney Myrvaagnes -- not sailing on J36 Gjo/a
20 years without a car, TV, or home page
Associate Editor, Electronic Products Magazine

---

469. Re: Ultimeter 500

From: Larry Griffin <largriff@onramp.net>
Date: Fri, 15 Mar 1996 22:38:02 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB12C3.321FFB20@lub01.onramp.net>
Rendered body type: text/plain

Steve Sable wrote:
>ANYONE running a Ultimeter 500 with APRS or anything else?
>Dont seem to get any data out of the ultimeter to the computer. I have their
>interface cable which is a phone line to DB-9 serial connector.
>I tried just a plain boot disk with no auto.bat or config.sys and tried
>running Pro Comm Plus as the Peet Bros suggested with no luck. They said
>data will just flow on the screen. Yes I held the 2 keys down for constant
>data flow. Tried diff comm ports at 2400 baud.

What 2 keys did you hold down? You should hold down the <clear> and <anemometer>
keys (top left and bottom left) simultaneously for at least 3 seconds.

>Peet bros even exchanged my key board and spent quite some time on the phone
>as we both worked side by side with an ohm meter checking the connection
>between the keypad and the end of the DB-9. All is ok.
>They want to send me another key-pad but I dont think 2 of them could be
>bad. Dont know what else to suspect. ANYONE have the 500? Would like to hear
>from you. I think I have exhausted any leads from the helpful Peet Bros.
>Love the unit but also would like to get data flowing.

Sounds like you have checked most obvious things. If they swap the keyboard,
you might ask them to swap the cable too.

For other Ultimeter software, see http://www.onramp.net/swta/wxsoft.htm

Larry Griffin <largriff@onramp.net>

---

470. Maps

From: "Kenneth J. Mirabella" <kjm@flo-bin.com>
Date: Fri, 15 Mar 1996 21:06:31 -0800
To: aprssig@tapr.org
Message-ID: <314A4C57.7FBC@flo-bin.com>
Rendered body type: text/plain

Good day All:

Being new to APRS I am looking for more detailed maps of the Los Angeles
area. I have casocal.map, does anybody know of a more detailed map
available?

Also I am looking for a more detailed cabak_lv.map for the Baket to Las
Vegas race. I belong to Orange County RACES and we are planning to use
APRS on at least 2 team follow vehicles.

Any suggestions?

73 KM6YH

---

471. APRS75a posted

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Mar 1996 00:35:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960316003212.26511A-100000@greatlakes>
Rendered body type: text/plain

```
New in Version 75a.
*** Moved all MAPLISTS to a new directory MAPLISTS to unclutter the
    APRS directory. I kept a brief copy of MAPLIST.USA in the APRS
    directory so you can still run old versions of APRS if needed.
*** New GATE rules:  Every GATE operator must put B E 0/10 instead of
    B E 0 in their INITTAPR.TNC file so they beacon on VHF if operating
on HF
* New GATE symbol with a BIG G n it
* Truck symbol is now a pickup. "u" becomes an 18 wheeler
* WX-DispWX and WX-ShowTemp commands show WX vice CALLS on map.  See WX.txt
* During REPLAY, FILEname is retained for subsequent use
* Fixed DF vehicle heading
* WX-JUST command latches ON/OFF (JUST-WX still is one time display)
* alt-SETUP-OTHER-REDRAW command toggles on an auto-redraw function.  The
  map will be redrawn every time your station Beacons.  This to keep the
  screen fresh for un-attended displays
* New CFIG75.APR file.  You can update your old CFIG73x file by adding
  3 new items to the line after RELAY near the end of the file so that
  it becomes 0,0,0,0 and then rename the file to CFIG75.APR
* New TORCHw, TORCHm, and TORCHe.bk files for olympic torch route
* Updated DIGIwest and DIGIeast.bk files
* SPRE.HST file shows the results of the APRS posits via SPRE satellite
* WO-18 satellite accepts APRS POSITS!  See SPACE.txt

NEWFIX22: Some further changes
* Changed MAPFIX Display menu to SETUP MENU
* Fixed MAPFIX TASK-TRIM command so that TRIM area matches WHITE BORDER
* Adds USAswest, COlorado, ILPeBlm, TXAstn32 maps
```

---

472. Re: [APRSSIG:7620] Re: Ultimeter 500

From: Miami Network <0004818186@mcimail.com>
Date: Sat, 16 Mar 96 06:15 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <95960316111559/0004818186NA2EM@MCIMAIL.COM>
Rendered body type: text/plain

```
In the interest of time Radio Shack sells a RS-232 to DB-9
adaptor.

The DB-9 side has the push in pins so you can determine which
signal line from the phone jack will connect to which pins
of the DB-9.

I used this for the Ultima 2000 Wx and it works just perfect!

73, Seymour, KC4NMY
miaminet@mcimail.com
```

---

473. Ver:75a

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 16 Mar 1996 06:55:37 -0800
To: aprssig@tapr.org
Message-ID: <314AD669.34C9@hiwaay.net>
Rendered body type: text/plain

```
Bob and others, installed version 75a last night and in using the new
redraw function i find that it redraws the screen about every 5 seconds
or so, not just when my station beacons. It does this on both my pentium
90Mhz and my Laptop 486/50.

Bill KE4EER
```

---

474. Re: GPS for landing planes

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Sat, 16 Mar 96 04:44:06 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <69@w6dnt.ampr.org>
Rendered body type: text/plain

```
RM> I remember an article about this in GPS World when they had just
RM> started. In addition to the local differential GPS, the plane used
RM> a down-looking radar for precise altitude from 40 feet down to the
RM> runway. I haven't seen the PS article, but the transponders may be
RM> a later substitute for the radar.
RM>
RM> A local differential setup that broadcast carrier-phase
RM> corrections for each Sat. would get the approach path fine, but
RM> separate altitude data might avoid landing 15 feet above or below
RM> the ground. :-)

Yes, it is very possible that the transponders are being used to
substitute the down-looking radar, to enhance the position  by
triangulation. The article says "transceivers," so it is also possible
that they are using DME instead. (distance measurement equipment.) But
I am not sure if that is accurate enough (good enough resolution) for
the purpose. I am curious to know what they are: Xponders or DME.

WF> Actually, "category III" with respect to instrument landings has
WF> nothing to do with *how* the plane is landed - it is a term
WF> referring to the worst visibility conditions, including
WF> "zero/zero" (zero visibility, zero ceiling.)
WF>
WF> Most systems that allow landings under CatIII conditions do in
WF> fact require the pilot to land the plane by manipulating the
WF> controls in the normal way, etc. - it's just that the information
WF> he needs to do so is coming exclusively from a landing system
WF> rather than a look out the window.

You are correct. I should have been more specific. Under "zero/zero"
condition (believe that is Cat IIIa) I believe that it is mandatory
that the plane be flown by auto-pilot. FAA rules. Is that true? I've
heard that under certain circumstances, auto-pilot is mandatory. But I
am not sure if it is at Heathrow airport, London, or somewhere in U.S.

-al.
```

---

475. Re: [APRSSIG:7624] Ver:75a

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Mar 1996 08:53:02 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960316084856.26747C-100000@greatlakes>
Rendered body type: text/plain

```
On Sat, 16 Mar 1996, William Nolle wrote:

> Bob and others, installed version 75a last night and in using the new
> redraw function i find that it redraws the screen about every 5 seconds
> or so, not just when my station beacons. It does this on both my pentium
> 90Mhz and my Laptop 486/50.

WB4APR REPLY COMMENT:   Argh!!!  I now remember that I never tested that...
Nuts...  When will I learn!

And everyone must remmember that they MUST MOVE all of their MAPLISTS to the
new MAPLISTS directory.  When you UNzip the upgrade file, it will create a
new MAPLISTS directory and put some files in it, BUT YOU MUST COPY ALL your
MAPLISTS yourselves
```

---

476. [APRSSIG:7358] Re: Good Ol' Boy Icon

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Sat, 16 Mar 1996 09:55:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I2EHRKH0429APBQ4@delphi.com>
Rendered body type: text/plain

```
On  9-MAR-1996 07:08:08.4 aprssig said to JKHAM
   >At 07:20 PM 3/8/96 -0600, you wrote:
   >>Wonder if we can add a dog to the bed of that Pickup while Bob is at
   >it ?? >
   >Yea Thats It..... I was kinda thinkin of a Dead Buck Tied to the Hood!
   >Gotta have THAT!
   >Marty WD5DZC


   I WANT A NRA BUMPER STICKER.:)

   Just a note to state the obvious that this is getting silly and
   irrelevant. If Bob can do it no doubt he will and if not; OH-WELL
   We will survive.

John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@AOL.COM>


`[1;30;43mRainbow V 1.19.2 for Delphi - Test Drive
```

---

477. APRS coordination in AZ

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Sat, 16 Mar 1996 10:16:11 -0700 (MST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960316100901.27429B-100000@willow>
Rendered body type: text/plain

```
In response to my request for coordinating a digipeater on 145.79,
Arizona's coordinating body, ARCA, has refused to coordinate APRS
on that frequency.  Their concern is interference with space shuttle
up/down links on 145.8.  As we all know, and he admitted, 10Khz SHOULD be
more than enough clearance.  The problem as they see it is that most
packet users have no idea what their deviation really is and make no
attempt to correct it.  ARCA is following the "party" line of the
rest of the coordinators across the country in refusing to coordinate
APRS on .79.  This is going to become a real problem soon, ARCA says all
the coordinators are actively trying to de-coordinate the few states that
already approved .79.  ARCA says the coordinators probably wouldn't have
a problem with .79 if only there was some way to ensure that deviations
stay within the limits, but how would we do that?  Maybe start a
"deviation police patrol"? ;^)....
Anyway, I thought this should be brought up on the sig for discussion,
maybe we can get something worked out.

73
Chris, AA7WD
zoom@willow.sps.mot.com
```

---

478. Re: [APRSSIG:7421] Re: HF <-> VHF Gates, etc

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sat, 16 Mar 1996 13:47:14 -0500
To: aprssig@tapr.org
Message-ID: <314B0CB2.7424@pobox.com>

Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> I thought the Bach Tower Garden was the highest point in Florida....at least
> that's what they told us last January!
> Seem to recall that it's at slightly more than 300 feet ASL...
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com
>
> "Can't we all just get along?" -- R. King, 1994.

The following is from the 1995 Microsoft Bookshelf CD-ROM:

Florida (Facts and Figures)
Area, 58,560 sq mi (151,670 sq km). Pop. (1990) 12,937,926, a 32.8%
increase over 1980 pop. Capital, Tallahassee. Statehood, Mar. 3, 1845
(27th state). Highest pt., 345 ft (105 m), Walton co.; lowest pt., sea
level. Nickname, Sunshine State. Motto, In God We Trust. State bird,
mockingbird. State flower, orange blossom. State tree, Sabal palmetto
palm. Abbr., Fla.; FL.

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reserved.

73,
-Lew - W7LVW - Fort Myers, Florida

---

479. Re: [APRSSIG:7599] Re: News Group vs Mail Reflector

From: schiers@ibm.net (Robert Schiers)
Date: Fri, 15 Mar 96 19:14:35
To: aprssig@tapr.org
Message-ID: <199603161800.SAA128048@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

In <9603151553.AA13330@inc.net>, on 03/15/96 at 10:16 AM,
   Will Flor <willf@rrgroup.com> said:

>
>If anyone really cares (and can't figure it out from the above, ;-) I
>*strongly* oppose "moderation." It's too easy for a "moderator" to
>subtly change things to make it appear that political positions with
>which he agrees are universally accepted. I can easily see a "computer
>bigot" for example, only letting through messages slamming computers he
>doesn't like, and killing ones meekly pointing out that "they all have
>their strong points and their weak points." This is the kind of thing
>that IMNSHO *will* eventually happen here if this list becomes
>"moderated."

There are good and bad moderators. The OS/2 family of echoes on FidoNet
are all moderated and after two years, I have never seen what you predict
will happen, happen.

I don't care one way or the other about moderation. My experience with it
has been good. From what I have seen on this sig lately, it might be a
good idea. Moderation takes a LOT of time and thoughtful consideration,
which is asking quite a bit from a volunteer.

As far as usenet goes...I much prefer the simple listserver with peer
pressure for control or outright moderation if that fails.

Perhaps another way to look at it: If a bunch of poeple are so all fired
up for a newsgroup....let them go create it and leave the rest of of who
are content with a reflector to suffer with our inferior service. I, for
one, seem to be getting along quite well, even given the occasional bad
manners and bickering. Fortunately, they are in the vast minority and tend
to center around just a few individuals. Sooner or later, they get bored
and go away.

73,

hasan schiers, N0AN
----
schiers@ibm.net
----

480. Mail List vs News Group

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 16 Mar 96 15:01:44 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.827006504.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>I much prefer the simple listserver with peer pressure for control.

As I have said before,  the APRS Sig is going to stay on the TAPR list-server
as an un-moderated mail list.  Moderation takes a LOT of time, and is not
needed.


This is the way I prefer it too..

Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

481. Re: APRS coordination in AZ

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Mar 1996 15:05:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960316143917.27297B-100000@greatlakes>
Rendered body type: text/plain

```
On Sat, 16 Mar 1996, Chris Terwilliger wrote:

> In response to my request for coordinating a digipeater on 145.79,
> Arizona's coordinating body, ARCA, has refused to coordinate APRS
> on that frequency.  Their concern is interference with space shuttle
> up/down links on 145.8.

WB4APR REPLY COMMENT:  This problem has been addressed ad nauseum.  The
following technical solution has been implenented:

1) DUring signal aquisition (monitoring for activity on 145.8), all scanners
   and radios should be set to 145.805 since the signal will first appear
   at +3 KHz doppler..  This serves two functions:
   a) The satellite ground station is in the best position to detect clean
      audio at first opportunity
   b) The satellite ground station is 15 KHz away from the packets on 79
      and will not be annoyed by squelch breaks on his radio
   During a manned pass, if the operator IS AT HIS station, then he tunes
   down 5 khz during the pass to maintain clear audio through LOS
   IF HE IS NOT AT HIS STATION, THEN HE IS NOT LISTENING.

2) All APRSdos versions since 74 have a "MINIMIZE" function built into the
code.  When a properly authorized station sends the "MINIMIZE" comand,
all stations in the network will CEASE automatic transmissions for 8 minutes.
This should have NO impact on routine APRS operations.

3) Any APRS station involved in emergency or priority traffic, can
OVERRIDE this MIMIMIZE if the operator is PRESENT at his station and
takes over manual control.

4) The MINIMIZE command may be initiated in any number of ways:
   a)  By a volunteer joint AMSAT/APRS station
   b)  By all SAREX stations with official/scheduled contacts
   c)  By an automatic AMSAT/APRS station running APRtrak that can
       predict all passes AND detects activity on 145.80
   d)  By the MANNED SPACE CRAFT ITSELF!  This packet burst can be added
as a BEEP on the end of every Shuttle voice transmission in a 0.5 second
burst.  This hardware interfaces to any radio via the MIC jack and is
available NOW for under $100.

So it can be done, and the necessary software is in place.  This was a
severe coordination problem since the spacecraft has chosen to operate up
to 9 KHz out of the satellite subband.  In response, the APRS community has
responded and made the necessary adaptation to their operations.

The best solution would be if the MANNED SPACE comunity made a similar
compromise gesture and moved up slightly to 145.805
```

482. Re: [APRSSIG:7593] gps antenna?

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Sat, 16 Mar 1996 16:14:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960316161221.22898R-100000@paccomm>
Rendered body type: text/plain

```
On Fri, 15 Mar 1996, Paul Moller wrote:

> Was there some person or group of people who were building and selling at a
> reasonable price a mobile gps antenna? If so, could you please point me in
> their direction. thanks.


PacComm uses Trimble OEM GPS boards and antennas integrated into our
products. We can offer the amplified antennas at $50 plus shipping if
they will fit anyone's needs.

They take +5v for the amplifier mmic and have an SMA connector on a 15 ft
(or so) cord. The antenna is quite small yet performs very well.

If anyone is interested I'll post the specifications.

73,
Gwyn
PacComm
```

---

483. Re: [APRSSIG:7515] Re: Position tracking via WO-18

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Sat, 16 Mar 1996 13:54:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960316135043.22898B-100000@paccomm>
Rendered body type: text/plain

```
On Tue, 12 Mar 1996, Robert Kirk wrote:

> Hmm... At first blush that sounds like US forces ordered APRS, but then
> you really didn't say that; just that they ordered, "...a system...based
> on APRS technology..." Did they use APRS as Smitty was asking about?

There are professional versions of APRS and that is what was referred to.
Maybe I should have put the Bosnia thing under 'good that has come from
APRS' as opposed to uses of APRS.

Whenever I see the words ham and toy in the same sentence, my reaction is
to show how ham toys have been the source of 'real tools' i.e. there is
benefit to society and the economy from ham radio.

Gwyn
```

---

484. Re: News Group vs Mail Reflector

From: Will Flor <willf@rrgroup.com>
Date: Sat, 16 Mar 96 17:38:10 -0600
To: aprssig@tapr.org
Message-ID: <9603162339.AA09640@inc.net>
Rendered body type: text/plain

```
You wrote:
----------
From:   schiers@ibm.net[SMTP:schiers@ibm.net]
Sent:   Saturday, March 16, 1996 12:11 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:7630] Re: News Group vs Mail Reflector

In <9603151553.AA13330@inc.net>, on 03/15/96 at 10:16 AM,
   Will Flor <willf@rrgroup.com> said:

   >>
   >>If anyone really cares (and can't figure it out from the above, ;-) I
   >>*strongly*  oppose "moderation."  It's too easy for a "moderator" to
   >>subtly change things to make it  appear that political positions with
   >>which he agrees are universally accepted.  I can  easily see a "computer
   >>bigot" for example, only letting through messages slamming  computers he
   >>doesn't like, and killing ones meekly pointing out that "they all have
   >>their  strong points and their weak points."  This is the kind of thing
   >>that IMNSHO *will*  eventually happen here if this list becomes
   >>"moderated."

   >There are good and bad moderators.
```

There sure are.

> The OS/2 family of echoes on FidoNet
>are all moderated and after two years, I have never seen what you predict
>*will* happen, happen.

I never predicted anything of the sort. My prediction was, and remains, a prediction about the *APRSSIG* rather than the OS/2 echoes. To further expound, IMNSHO if APRSSIG becomes "moderated" we will have what you call a "bad moderator." This is because of politics, plain and simple. The APRSSIG mailing list is so chock-full of political disagreements that I can't imagine any moderator that wouldn't do, perhaps unconsciously, what I predicted above.

BTW - if you haven't seen the turned-away postings to a moderated list or newsgroup, there really isn't any way to tell if the moderator is "subtly chang[ing] things to make it appear that political positions with which he agrees are universally accepted". So, in other words, you wouldn't "see it happen" even if it *was* happening! This is the main reason I oppose "moderation."

>73,

>hasan schiers, N0AN

73 de Will KB9JTT

---

485. Moderated vs Non-Moderated

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 16 Mar 96 19:30:56 EST
To: willf@rrgroup.com, aprssig@tapr.org
Message-ID: <CMM-RU.1.4.827022656.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

We now have had as much CRAP about if this news group should be moderated or not as first started the discussion..

I have stated that this group will remain an UN-MODERATED MAIL LIST.

Lets not beat a dead horse.

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

486. Dayton Forums

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 15 Mar 1996 18:45:58 -0600
To: aprssig@tapr.org
Message-ID: <9603160045.AA03896@ELWOOD.pionet.net>
Rendered body type: text/plain

OK Bob and Bros. Sproul--I have the latest hamvention program and their is still not mention of you guys having any Forum time scheduled. Do you know something we don't?

Dave

---

487. Re: gps antenna?

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sat, 16 Mar 1996 19:43:05 -0600
To: aprssig@tapr.org
Message-ID: <v02140b02ad711e102acf@[204.181.160.13]>
Rendered body type: text/plain

>PacComm uses Trimble OEM GPS boards and antennas integrated into our
>products. We can offer the amplified antennas at $50 plus shipping if
>they will fit anyone's needs.
>
>They take +5v for the amplifier mmic and have an SMA connector on a 15 ft
>(or so) cord. The antenna is quite small yet performs very well.

```
>
>If anyone is interested I'll post the specifications.
>
>73,
>Gwyn
>PacComm


Yes, please, post the specs.


Ron W5RKN

also:
rparsons@bga.com
```

---

488. Re: [APRSSIG:7421] Re: HF <-> VHF Gates, etc

From: Dave Creek <dcreek@pixi.com>
Date: Sat, 16 Mar 1996 15:43:11 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.960316153759.7143A-100000@gorgax14.pixi.com>
Rendered body type: text/plain

```
On Sat, 9 Mar 1996 ku0g@sprynet.com wrote:

I thought the Bach Tower Garden was the highest point in Florida....at least
> that's what they told us last January!
> Seem to recall that it's at slightly more than 300 feet ASL...
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
> "Can't we all just get along?" -- R. King, 1994.

When I was stationed at Eglin AFB, FL in 1954, the highest point in the
state was a pile of oyster shell over 400 feet asl. The pile was located
near Mary Ester on the Inland Waterway and was the source for the base of
the runway at Eglin Field 9, later Hurlburt Field.

73 es Aloha,

Dave Creek, NH6BA
Ewa Beach, HI
dcreek@pixi.com
```

---

489. RE: Dayton & APRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 16 Mar 96 21:13:02 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.827028782.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
We will be in the DIGITAL forum with TAPR.. I have also requested an APRS
forum, but they only told me that they would see what they could do, and
weren't very cooperative...

Why don't you put some pressure on the DAYTON people..

Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

490. Re: Error Condition Re: UNSUBSCRIBE!

From: TOM DONALDSON <TOMD@IQUEST.NET>
Date: Sat, 16 Mar 1996 21:29:45 -0500
To: aprssig@tapr.org
Cc: TOMD@IQUEST.NET
Message-ID: <314B7919.77BE@IQUEST.NET>
Rendered body type: text/plain

```
aprssig@tapr.org wrote:
>
> We are sorry, but this system sensed the following request which may have been
> inadvertedly sent to this list:
>
```

```
> UNSUBSCRIBE   UNSUBSCRIBE
>
> If your posting was intentional, please accept our apologies and resend your
> mail message, making sure you do not include anything that may look like a
> request in the first line of the body of the actual message. If this was
> indeed a request please resend it to listproc@tapr.org
> Your entire message
> is copied below.
>
> -------------------------------------------------------------------------------
> UNSUBSCRIBE   UNSUBSCRIBE  UNSUBSCRIBEyes this was intentially sent    please unsubscribe!
tomd@iquest.net
```

---

491. Virus note

From: dlm@nr.infi.net (Dan McMillin)
Date: Sat, 16 Mar 1996 21:44:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199603170244.VAA27066@mh004.infi.net>
Rendered body type: text/plain

```
Someone posted a note warning of a PKUNZIP virus that I have misplaced. I
would like to get a copy of the note, Not the PK, sent to me direct.
Sorry for the using the sig.
Dan McMillin dlm@nr.infi.net
```

---

492. Re: [APRSSIG:7633] Re: gps antenna?

From: rwf <rwf@mindspring.com>
Date: Sat, 16 Mar 1996 22:19:45 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960316221946.2acf448e@mindspring.com>
Rendered body type: text/plain

```
At 05:30 PM 3/16/96 -0600, Gwyn wrote:

>PacComm uses Trimble OEM GPS boards and antennas integrated into our
>products. We can offer the amplified antennas at $50 plus shipping if
>they will fit anyone's needs.

Sounds like a *great* deal to me.  Much less than even Dealer cost on the
Motorola's I use, without the 20.00 cable!   Gwyn, you need to charge more!  :)

Ralph N4NEq
```

---

493. Re: [APRSSIG:7634] Re: Position tracking via WO-18

From: rwf <rwf@mindspring.com>
Date: Sat, 16 Mar 1996 22:19:48 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960316221950.2acfa9a8@mindspring.com>
Rendered body type: text/plain

```
At 05:36 PM 3/16/96 -0600, Gwyn wrote:
>
>There are professional versions of APRS and that is what was referred to.
>Maybe I should have put the Bosnia thing under 'good that has come from
>APRS' as opposed to uses of APRS.

I saw the hardware and concept for the "Bosnia thing"  and was impressed by
what I saw.  I agree that it demonstrates "the good that has come from
APRS"!  I'll not elaborate, as it is not my place to say more than Gwyn has.  :)

Ralph  N4NEQ
```

---

494. WO-18 Position/Status reporting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Mar 1996 22:27:12 -0500 (EST)
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960316222011.27934A-100000@greatlakes>
Rendered body type: text/plain

```
Continuing with the WO-18 digipeating discussion...  We now realize
that Tom Clark's 1 pulse per second output of the GPS can be used to
synchronize the position packet transmission slots.  Thus DOUBLING the
throughput to a SLOTTED ALOHA system!.  The following paragraphs
summarize this potential WO-18 application based on comments to date.

Sorry for the repetition, but I thought it important to keep the whole
idea within one message, until we arrive at the final concept based on
the knowledgable inputs from the SIGs.  Do not cross-post replies to
```

both the AMSAT and APRSSIGs. I will summarize contributions from both...

SUMMARY:
Amateur Satellite WO-18 has real potential for experiments with world wide amateur position/status reporting. Here's why:

1) The UPLINK requires only a 30 watt 2 meter FM radio
2) Many standard TNC's may be simply modified for the uplink
3) WO-18 covers everywhere in the world at least 2 times every 12 hrs.
4) Only an OMNI antenna is needed. No tracking required.
5) A position report requires only a single successful 1 second packet
6) As many as 500? mobile/portable stations can be tracked per footprint
7) Portable systems the size of a crackerjack Box (plus 8 C cells) are possible that would last for a month or more.

The objective of this system would be to provide twice daily POSITION/ STATUS reporting for all amateur radio equipped wilderness backpackers, DXpeditions, Rovers, RV'ers, SAIL boaters, Campers, and boaters.

THUMBNAIL ANALYSIS:
At least TWO 8 minute passes every 12 hrs = 16 min access time
Channel capacity 16 * 60 = 960 position reports
Packet length 1 sec
Aloha channel effeciency 18%
Resulting Throughput: 18% * 960 = 173 stations every 12 hours

BUT! With the GPS, we can use Slotted ALoha where all packets begin on the EXACT second (to the nearest 50 Microseconds)... This assures that any collisions perfectly overlap. The Slotted ALoha channel effeciency can approach 36% or almost 350 stations PER Satellite footprint.

The above analysis is for a single satellite footprint. Since WO-18 over Kansas sees the entire USA plus hundreds of miles at sea, it is a reasonable lower limit. But it would seem that East and West coast stations only see half of the collision potential on half of their passes, so the actual success potential is better. Can anyone provide a more rigorous analysis for this moving footprint and USA geography?

Still, a capacity of tracking 500 amateurs on extended trips is not something that will be saturated any time soon... Extend this to 5000 or more worldwide...

AREAS FOR MORE WORK AND COMMENT:

1) UPLINK TNC mod: Tom Clark says the TNC only needs an XOR gate and RC low pass filter to generate the Manchester UPLINK from the HDLC data and 1200 HZ clock. Anyone want to dig into their TNC schematics?

2) RECEIVE SITES: Due to the large footprint, only 4 RECEIVE sites are needed over the entire USA. North, South, East and West. Chas Richards comments that AUTOMATED reception of WO-18 is not trivial, but IS done. More work needed here...

3) For now, the receive sites simply digipeat the POSITS out onto HF and/or VHF. I can write a simple program that will gobble the posits up in real time, and then take its time reporting the posits out on the HF or VHF channel at a low duty cycle spread over hours so as not to overload that channel. The ultimate solution is a WEB page that gives everyone access to the tracking data. Any WEB masters interested?

4) What is the nominal success rate on a 1200 baud pacsat? Do you get 8 minute access most of the time? Has anyone written about or analyzed contention on the uplinks? How many *active* PACSAT equipped ground stations are there?

5) Will WO-18 digipeat a packet VIA WEBER-1,GATE,WIDE ?

6) What is the uplink RETRY period? I am thinking about 1 every 2 mins. The Aloha channel capacities assume ACKs and RETIRES. What are the channel capacities for these UI posits without ACKS?

NOTES: See this months QST article "The Road Less Traveled" about the under utilization of the 1200 baud Pacsats. Also the invitation to experiment with APRS via WO-18 in the Amateur Satellite Column.

Very small UPLINK systems are possible, because of the low 1% transmit duty cycle. At a once per minute rate a 35 watt modular power amp would need NO HEAT SINK.. The amp is the size of a MATCHBOX!
By limiting uplinks only to WO-18 passes (5 per day for 10 minutes

each) your total energy requirement would be less than 1 Whr per day.
Eight D cells could power this device for MONTHS! (20 WHrs per cell)

The GARMIN GPS-20 card is available for under $150 in quantities that includes the 1 pps timing output standard. Modify your TNC, hook up a 2m FM rig and you are on WO-18...

---

495. Re: [APRSSIG:7621] Maps

From: KSwaggart@aol.com
Date: Sat, 16 Mar 1996 23:43:11 -0500
To: aprssig@tapr.org
Message-ID: <960316234311_247942617@emout09.mail.aol.com>
Rendered body type: text/plain

For more California maps, download CAMAPS06.zip from TAPR.org in the PC maps directory.

There are a few more LA area maps, plus the baker to vegas map we did for last year's event.

Make sure you copy CAMAP06 into your top-level APRS directory, then unzip with the -dn option. When running APRS, change to MAPLIST.CA by going to Maps, then Change maplist and enter CA.

Have fun,

73, Ken, W7KKE
kswaggart@aol.com

---

496. Re: [APRSSIG:7632] Re: APRS coordination in AZ

From: n2czf@gate.net
Date: Sat, 16 Mar 1996 23:56:39 -0500
To: aprssig@tapr.org
Message-ID: <199603170456.XAA68284@osceola.gate.net>
Rendered body type: text/plain

RE: The Shuttle on 145.80.....

I have been reading clips here and there that the shuttle will broadcast on 145.84, this is a change from the original 145.80 proposed a few months ago. I have seen it in several forums but I can't guarantee this is true. Since they are the coordinators you would think they would know, or are they just "going with the flow" from the OLD DATA of a few months past ? You would think a "official" group would get the facts correct before making a decision to deny!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

497. $GPRMC PROTOCOL

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 16 Mar 1996 21:02:11 -0800
To: aprssig@tapr.org
Message-ID: <199603170502.VAA04963@poseidon>
Rendered body type: text/plain

Attn: GPS users...   Filed: 170500GMT MAR 96
      Following protocol from Motorola Tech Support. May be of interst to
 APRS GPS MOBILE fans, posted several times past two years..

$GPRMC PROTOCOL, RMC GPS Message. Gives Time, Position, Course/Speed.
Best for APRS use, plots your mobile unit as you move, for all to see on their maps.

```
       1      2 3       4 5        6 7     8    9      10 11 12
$GPRMC,xxxxxx,A,xxxx.xx,N,xxxxx.xx,W,xx.xx,xxx.,xxxxxx,xx.,E*xx<CR><LF
```

No.	Field	Units/Range
1	Time, UTC	Hours, Minutes, Seconds/
2	Status	A=Valid, V= Invalid
3	Latitude	Degrees, Minutes and Hundredths/ 00-90, 00-59, 00-99
4	Direction	N= North, S = South,
5	Lontitude	Degrees, Minutes and Hundredths/ 00-180, 00-59, 00-99,
6	Direction	E = East, W = West
7	Speed over ground	Knots/ 00.0 - 99.9
8	Course over ground	Degrees in referenced to True North/ 000-999 (000-359)

```
  9     Date                        Day,    Month,    Year/
                                    00-31,  00-12,    00-99/
  10    Variation                   Degrees/ 00-99
  11    Variation sense             E = East, W = West
  12    Mandatory Checksum          Hex - 7F
```

The above protocol data is as sent on a single Packet UI fram, like so:

```
WB6LPG-9 $GPRMC,095302,A,3727.39,N,12226.29,W,04.58,160.14,021094,15.45,E*4E
```

It is received as a plot/fix on you APRS Map as a Car&Call and heading line/flag, in the correct position and in your Position Log as foll:

```
WB6LPG   021094z020953/3727.39N/12226.29W>160/1.4/raw*/RMC Fix
```

If desired can send the $GPGGA sentence, for Time, Position, Altitude only. but very similiar fields.

73's & Enjoy, Bill/WB6LPG (wbliss@coastside.net) Half Moon Bay, Calif.
NNNN

WBB/WB6LPG

---

498. Maps

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 17 Mar 1996 00:42:15 -0800
To: aprssig@tapr.org
Message-ID: <314BD067.2587@hiwaay.net>
Rendered body type: text/plain

Bob i just made 9 maps using the grid and just used a name of TEST and it worked just fine. The filename of the latest version that i know of is MK100K2A.ZIP on tapr. I know it has some bugs, many times the last map will not complete when doing a grid. Try the MK100K2A.ZIP this one i found to be the only one that will except the shorter filename. I tough i send you a message to that effect the other day?.

Bill KE4EER

---

499. MacAPRS automatic screen refresh

From: Ron Malinowski <weather@xnet.com>
Date: Sun, 17 Mar 1996 01:56:35 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603170756.BAA10943@flood.xnet.com>
Rendered body type: text/plain

Hello all-

I just had a comment on MacAPRS that I wanted to mention, When I watch the traffic in the chicago area I see many mobiles, especially my self, and after a morning commute or
day the screen just has lots of cars and calls all lined up and down roads, and I always
have to refresh the screen, I wouldn't mind seeing MacAPRS have an opton either time set for every 5 minutes to refresh the screen that is in the foreground, or to do it when a station is updated (position-wise) also for weather, its nice the wind also, sometimes you can end up with a weather station with 30 wind directions, which is neat to get a windrose look at what peak speeds came from what direction, but then again, current situations you need to attend to the keyboard, just thought it would be a useful option

-Ron Malinowski, N9QGS
42 01 12 N 88 09 37 W
Streamwood, Illinois

```
*********************************************************************
* Ron Malinowski, Jr.        + Amateur Radio Operator: N9QGS       *
* Amateur Weather Observer   - SKYWARN    APRS WEATHER 145.79 Mhz  *
* STREAMWOOD, ILLINOIS       + Home Page:                          *
* 42°01'12"N 88°09'37"W      -    http://www.xnet.com/~weather     *
*********************************************************************
```

---

500. WO-18 Collision Avoidance

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 05:11:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317040030.28380A-100000@greatlakes>
Rendered body type: text/plain

Silly me... It just dawned on me...

Not only does the 1 pps GPS signal give us precise synchronism, the GPS also gives us ABSOLUTE time.... SO, you can assign all users their own absolute SLOT and therefore have NO collisions and 100% channel effeciency! During an 8 minute pass, there are 960 seconds so 960 users can uplink.

Now obviously, tho, you wouldnt want to be the 960th if your slot came up with the satellite only 1 degree above the horizon, so to allow for the constantly changing geometry and other factors, probably having a 4 minute cycle would give you 2 shots per pass (allowing 480 users). But probably the ultimate algorithm might be to have a variety of slot assignments such as this 60 second cycle:

SLOT NUMBER	USAGE	THEY GET	TOTAL USERS
1 thru 5	5 Priority ONE slots.	1 slot per minute	5
6 thru 15	10 Priority TWO slots.	1 slot every 2 mins	20
16 thru 30	15 Priority THREE slots	1 slot every 4 mins	60
31 thru 60	30 routine OPEN slots.	1 slot every 3 mins	43
	These slots (50%)		----
	are for unassigned stations	TOTAL	128

In this scenario, The priority ONE stations get a guaranteed free slot once a minute or as many as 8 to 12 packets per pass, and so on. A typical use for a priority ONE assignemnt would be for tracking the olympic torch this spring, or the cross Arctic expedition a few years back, or the Balloon flights, or any other such amateur radio event of national significance.

The other Priority slots could be reserved by stations for other events and situations. Still though, 50% of the satellite capacity is available for everyone on the normal slotted-aloha random unassigned basis at one packet every 4 mins. (120 slots) but the actual allowable loading would be 36% of that or about 43 more users as shown.

These numbers are PER PASS PER FOOTPRINT. You could easily assign the same priority slots to different stations on the East and West coasts.

ANYWAY.... This slot assignment idea shows the advantages of Tom Clark's precise timing ideas applied to a practical amateur satellite application. Although this same slotting technique can be used on any of the AMSAT birds to improve UPLINK channel effeciency, the beauty of this application is that EVERY GROUND STATION will already have the GPS UNIT for precise time!

---

501. Re: [APRSSIG:7647] Re: APRS coordination in AZ

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 05:19:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317051810.28380C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 16 Mar 1996 n2czf@gate.net wrote:

> RE: The Shuttle on 145.80.....
> I have been reading clips here and there that the shuttle will broadcast on
> 145.84, this is a change from the original 145.80 proposed a few months ago.

WB4APR REPLY COMMENT: No. The shuttle was never planned for .80. That is being reserved for international manned space... such as space station...

---

502. Maps for WinAPRS

From: Truman Boerkoel <truxenia@erinet.com>
Date: Sun, 17 Mar 1996 06:46:43 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b12.32.19960317114643.006630c4@erinet.com>
Rendered body type: text/plain

Is there a way to create detailed maps for Windows APRS using the DeLorme MapExpert CD?

Thanks de Tru K8JUG
truxenia@erinet.com

---

503. help with Aprs MFJ 1278B & Ultimeter 2000

From: "Donnie J. Murray" <james-m@ix.netcom.com>
Date: Sun, 17 Mar 1996 06:51:01 -0500
To: aprssig@tapr.org

Message-ID: <314BFCA5.5FA0@ix.netcom.com>
Rendered body type: text/plain

Hello and thanks for reading this..

Anyone up to helping a person that fairly new to all this get the Aprs WX function up and running with his MFJ1278B TNC, Ultimeter 2000, and laptop??

I can not seem to get the U2000 to pass the Wx info along to Aprs. I have placed the Utilimeter 2000 in the packet mode and have entered my registration numbers for APRS and the WX deal..

Any and all help appreciated..

Thanks
Don
AE4BR

---

504. Re: [APRSSIG:7650] MacAPRS automatic screen refresh

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 17 Mar 1996 06:22:56 -0800
To: aprssig@tapr.org
Message-ID: <314C2040.542C@hiwaay.net>
Rendered body type: text/plain

Ron Malinowski wrote:
>
> Hello all-
>
> I just had a comment on MacAPRS that I wanted to mention, When I watch
> the traffic in the chicago area I see many mobiles, especially my self,
> and after a morning commute or day the screen just has lots of cars
> and calls all lined up and down roads, and I always have to refresh
> the screen, I wouldn't mind seeing MacAPRS have an opton either time
> set for every 5 minutes to refresh the screen that is in the
> foreground, or to do it when a station is updated (position-wise) also
> for weather, its nice the wind also, sometimes you can end up with a
> weather station with 30 wind directions, which is neat to get a
> windrose look at-----------------

I have asked this same question (Well sort off) about a year ago, not the weather but the GPS position beacons. Why does every beacon have to have your callsign with it, why can't it be every 10th or whatever if it's still within a 10 minute time limmit?. There must be a way to use the GPS time function to make sure that you do ID every 9th or 10th minute. By the way Ron Version 75a does have that feature (Again well sort off) it was suppose to redraw your screen when your station beacons, but Bob didn't check it before releasing (He said this not me Hi) so now it redraws about every 5 seconds. On my 90Mhz pentium all i see is a little blip but would imagine on a slower machine it would contantly be redrawing, excelent idea tough once implimented the way Bob wanted it. But again i don't see why we need that many callsigns in a GPS beacon tough, but then again i'm not a programmer (The last statement thrown in for those that feel they must flame me). Just a question, not complaining fellows!!.

Bill ke4eer@amsat.org

---

505. Maplists

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 17 Mar 1996 07:37:03 -0800
To: aprssig@tapr.org
Message-ID: <314C319F.1BF1@hiwaay.net>
Rendered body type: text/plain

I was just wondering since all but one of the maplists where moved into a directory called maplist if there couldn't be a (L) for listing them all with the M-C something like is done with the O-D. I have 29 Maplists in that directory now and being the old man i am, in no way am i going to remember all those extensions. I have 7 or so just for Alabama alone, since each maplist will only hold 150 or so maps i think there's a need for that feature. Just an idea to make changing maplists easier.

Bill KE4EER

---

506. Re: [APRSSIG:7645] WO-18 Position/Status reporting

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 17 Mar 96 09:15:35 -0500

To: <aprssig@tapr.org>
Message-ID: <199603171413.JAA17664@newworld.bridge.net>
Rendered body type: text/plain

Bob...

I love the concept of a packet satellite for APRS position reports, but I don't think the system you describe using WO-18 is practical.

1. While the uplink system is relatively easy to run, the downlink is quite difficult. I have used the 1200 baud pacsats, and it ain't easy. Yes, automated reception is possible, but expensive and difficult to set up and maintain. Manual tracking is best described as a labor of love. I don't see many users willing to dedicate hardware worth say $500 to a system which may only be gated to handful of sites, and is only capable of transmitting 4 position reports a day. I have the equipment and experience to use WO-18, and I love APRS, but I'm not willing to put out the effort to gate on a regular basis. Have you heard from anyone who has experience with the 1200 baud pacsats that *is* willing to commit to regular gating?

2. While a system that could run independently for several months on D cells would have some exciting applications, the present hardware won't do that. You would need a custom programmed microprocessor that would figure out the pass times, turn on the GPS a couple minutes prior to get a fix, and transmit at the correct moment. Even the most efficient microprocessor requires abt 0.2 Watts/hr which would deplete the batteries quickly. A processor which would figure out the time of the next pass, and then put itself to sleep would work, but require not only custom software but custom hardware as well. Also, how would you handle getting updated keps to the processors out in the field so that they know when a pass is to occur? They are usually accurate to 30 sec or so after a month, but beyond that tend to fall off rapidly. Even small errors could play havoc on the slotting system.

3. Using the GPS time to sync everyone to a set slot would work well as long as no one else is using the satellite. If Weber is uplinking commands, that would cause major collisions. I would expect that Weber uses higher power to an az/el beam for the uplink, so the APRS traffic would probably not QRM them much.

I'd be glad to dust off my PSK modem to participate in a test of the satelitte though. What I'd love to see (and be willing to help support with $$$) would be a dedicated APRS pacsat. Anyone know of any space engineering students in need of a project???

73 de Steve KO4HD

---

507. RE: Call Signs with every packet

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 17 Mar 96 10:05:49 EST
To: aprssig@tapr.org, ke4eer@amsat.org
Message-ID: <CMM-RU.1.4.827075149.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Bill, KE4EER Wrote...

> I have asked this same question (Well sort off) about a year ago, not the
> weather but the GPS position beacons. Why does every beacon have to have
> your callsign with it, why can't it be every 10th or whatever if it's
> still within a 10 minute time limmit?.

I think you are missing something here.. The TNC sends out ITS call sign with EVERY SINGLE PACKET IT SENDS, NO MATTER WHAT!!

APRS, MacAPRS & WinAPRS, all use the call sign received by the TNC to recognize WHICH station it is from, this NOT extra data sent out..

The ONLY time APRS, MacAPRS & WinAPRS explicitly sends out the call sign is when you create an OBJECT. This position report is somewhat different and if you look at the data, it shows YOUR call sign as the sending station, AND the callsign (or name or whatever) is included in the DATA instead of the HEADER.

This is even more obvious if you have ever run into the HEADERLN OFF problem.

If HEADERLN is ON, the TNCs displays the following:

```
WU2Z*>APRSM:
```

```
@171455z4027.03N/07428.71WMPHG6260/ MacAPRS  2.4.5 -245-<76>

If HEADERLN if OFF, the TNC displays the following

WU2Z*>APRSM:@171455z4027.03N/07428.71WMPHG6260/ MacAPRS  2.4.5 -245-<76>
```

The programs DEPEND on the call-sign and data being on the SAME line so that it knows what data goes with what call-sign.

(The HEADERLN being ON is one of the more common problems I encounter with people trying to set up MacAPRS and WinAPRS for the first time.)

In the case of a STAND-ALONE GPS box, you get the following:

```
WU2Z-9>APRS:$GPGGA,105330.00,4029.642,N,07426.334,W,1,03,2.0,-30.0,M,-33.8,M,,
```

Now, if we were tracking 10 stations, and the ONLY data we got was the GPS data, how would we know which station was where?

Every!!! packet MUST have a call-sign with it for this to work.

On top of that, it is absolutely impossible to transmit a VALID AX-25 packet WITHOUT a call-sign.. And, I think it is also ILLEGAL to transmit an AX-25 packet without a call-sign.. (But I am not sure on this one)

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

508. aprs75a bug?

From: msjth@uxa.ecn.bgu.edu (jay hainline)
Date: Sun, 17 Mar 1996 09:07:44 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603171507.JAA08571@uxa.ecn.bgu.edu>
Rendered body type: text/plain

I recently downloaded the 75to75a.zip file and installed it in aprs. According to Bob, one of the new features is an automatic screen updating feature which is turned on with the Alt-S, Other, Redraw command. The screen is suppose to update whenever you transmit your beacon. However I see my screen "flicker" once every 5 seconds when this command is turned on. I assume it is trying to update the screen each time as if you are continuously hitting your spacebar no matter if you are transmitting your beacon or not. Is this a bug Bob?

73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

---

509. Re: [APRSSIG:7653] Maps for WinAPRS

From: "Jerry" <jerdptro@xnet.com>
Date: Sun, 17 Mar 1996 09:12:48 +0000
To: aprssig@tapr.org
Message-ID: <199603171508.JAA00200@flood.xnet.com>
Rendered body type: text/plain

Tru,
Yes, the Sproul's are working on such a program. Currently their map maker used USGS info to make the maps. Their goal is for you to be able to use other map programs as well. Of course, that is if those who own the rights i.e. DELORME don't wish to share code...anyway, at dayton, there is supposed to be a CD rom with programs and maps.
Jerry

```
---------------------------------------------------------------
Date:          Sun, 17 Mar 1996 05:55:25 -0600 (CST)
Reply-to:      aprssig@tapr.org
From:          Truman Boerkoel <truxenia@erinet.com>
To:            aprssig@tapr.org
```

```
Subject:       [APRSSIG:7653] Maps for WinAPRS

Is there a way to create detailed maps for Windows APRS
using the DeLorme MapExpert CD?

Thanks de Tru K8JUG
truxenia@erinet.com

Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com
```

---

510. FL USERS: 80M GATE IS STILL UP

From: n2czf@gate.net
Date: Sun, 17 Mar 1996 10:10:31 -0500
To: aprssig@tapr.org
Message-ID: <199603171510.KAA60654@osceola.gate.net>
Rendered body type: text/plain

```
Just to let everyone know Kevin and I are still on 3.585 LSB operating as a
GATEWAY. We are hoping to get more users on even if they do not have GATEWAY
capabilities via 80M. I would like to see the Jacksonville and Daytona area get
on, we have been in contact with others and hope that they will join in soon.

If you have GATEWAY capabilities to 145.79 set mygate to GATEFL (NOT FLGATE THAT
WAS THE OLD WAY) and your HF UNPROTO path to APRS VIA GATEFL,WIDE while your
path will stay the same.

If you are a VHF user with a 80M gate in the area set your UNPROTO path to
WIDE,GATEFL,GATEFL,WIDE or some variation that fits your local area network.

Storm season is coming and we hope that everyone will stay in touch to keep
abreast of all the WX conditions that speed across the state.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

511. Re: [APRSSIG:7653] Maps for WinAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 17 Mar 96 10:27:18 EST
To: aprssig@tapr.org
Cc: truxenia@erinet.com
Message-ID: <CMM-RU.1.4.827076438.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
> Is there a way to create detailed maps for Windows APRS
> using the DeLorme MapExpert CD?
>
> Thanks de Tru K8JUG
> truxenia@erinet.com
>


NO.......


DeLorme as VERY protective of their data and won't tell you anything about it..

We are working on the ability to use BIT-MAPs in MacAPRS, but we are not going
to get back to working on this until AFTER dayton due to do much work to do
on WinAPRS..



On the other hand, we ARE working on making maps from TIGER data, which when
finished, will be very good and have MOST of the info you need/want in them.
Including (hopefully) street names, etc..

Keith



Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

512. Re: [APRSSIG:7647] Re: APRS coordination in AZ

From: Arthur Booten <N2ZRC@gnn.com>
Date: Sun, 17 Mar 1996 11:24:06
To: APRSSIG@tapr.org
Message-ID: <199603171624.LAA05516@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
On Sat, 16 Mar 1996 23:07:11 Rich (N2CZF) wrote:

>RE: The Shuttle on 145.80.....
>
>I have been reading clips here and there that the shut-
>tle will broadcast on 145.84, this is a change from the
>original 145.80 proposed a few months ago.

     You're sort-of right.  When the Shuttle is engaged
in a mission with MIR, the downlink frequency is 145.84,
uplinks are 144.45 and 144.47.  Note that these freq's
are also used for communication between the two space-
craft.

     Under normal circumstances SAREX uses 145.55 as the
downlink and 144.91, -.93, -.95, -.97 and -.99.  Unfor-
tunately for those of us in the New York City area that
would like a crack at a SAREX contact, .91 thru .95 are
in use locally for DX cluster and there's node activity
on .99!   73

PS:  APRSSIG = YES    NEWSGROUP = NO!!!


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

---

513. U2000 modem mode

From: Dick Mead <mead@skat.usc.edu>
Date: Sun, 17 Mar 96 10:29:18 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.827087358.mead@sol.usc.edu>
Rendered body type: text/plain

```
Perhaps I have missed something. I have put my Ultimeter 2000
into modem mode and have yet to make it send any data.
The hint sheet claims the trigger is ">H". What is the character
sequence to send if this is not it and what is the pinout difference
for adding the data-in signal to the U-II cable.

Dick WB6NGC
```

---

514. Re: [APRSSIG:7664] APRSSIG digest 463

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 17 Mar 1996 13:38:19 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603171938.NAA06897@tapr.org>
Rendered body type: text/plain

```
> Date: Fri, 15 Mar 1996 18:45:58 -0600
> From: Dave Kaplan <dkaplan@pionet.net>
> To: aprssig@tapr.org
> Subject: Dayton Forums
> Message-ID: <9603160045.AA03896@ELWOOD.pionet.net>
>
> OK Bob and Bros. Sproul--I have the latest hamvention program and their is
> still not mention of you guys having any Forum time scheduled.  Do you know
> something we don't?
>
> Dave
>
>

Hello.

Latest information on the TAPR Digital Forum at Dayton as well as the Friday
evening BASH is on www.tapr.org.  Don't forget that this is the TAPR APRS
Special Interest Group, so it fits into the TAPR Digital Forum :-)

I also posted the full schedule about two weeks ago on tapr-bb.  We use
tapr-bb to post information on TAPR events and happenings, so it is a good
```

place to subscribe to get the latest info on what TAPR is doing or special issues.

Maps and stuff are on the web page.

Cheers - Greg, WD5IVD

TAPR Dayton Activities '96
Dayton Hamvention is May 17-19, 1996

```
TAPR Schedule
-------------
Friday
   12noon -- Exhibit Area Opens
   1:00pm -- TAPR Digital Forum Begins
   7:00pm -- PacketBASH
       (Dinner, Prizes, SIG meetings, Banquet Speaker!)

Saturday
   8am -- Exhibit Area Opens
   6pm -- Exhibit Area Closes
   9pm -- Informal SIG Meeting (TBD)

Sunday
   8am -- Exhibit Area Opens
   2pm -- Exhibit Area Closes
```

1996 TAPR Digital Forum (Friday)

The TAPR digital forum should be a great forum this year.
If you have time at Dayton -- be sure to attend the meeting!

```
1:00 - 1:45pm
       Introduction to Digital Communications
       Greg Jones, WD5IVD

1:45 - 2:30pm
       Making 56K Operations a Reality!
       Barry McLarnon, VE3JF

2:30 - 3:15pm
       Spread Spectrum Technology and current issues in
       Amateur Radio
       Phil Karn, KA9Q

3:15 - 3:45pm
       DAS and PCON and there use in Emergency
       Communications
       Paul Newland, AD7I

3:45 - 4:15pm
       BBS Issues and Trends
       Barry Buelow, WA0RJT

4:15 - 5:00pm+
       APRS Update and SIG Meeting
       Bob Bruninga, WB4APR and Keith Sproul, WU2Z
```

1996 Packet Bash!

The 1996 "Packet BASH" sponsored by TAPR and the Miami Valley FM Association will be held on Friday of the Dayton Hamvention. The BASH will be moved this year to a very much larger site! So, if you were one of the folks that felt it was just too crowded for dinner -- you were not alone.
The reason for the move was that TJ's Restaurant was just a little small for 1995. The event will be held at the AT&T site in Oakwood, OH (formerly NCR). The event will be catered and the dinning room holds about 400 people! So the more the merrier! To make the event even better -- we can stay a lot later than at the TJ's site last year, so we should have time for informal discussions after dinner.

A buffet dinner,

```
  a raffle for some neat prizes,
  a great program,
  and lots of fun will cost approximately $20 per person.

We hope that this will provide an opportunity for packet and digital radio
enthusiasts to have a great night out while at Hamvention.

The schedule of events for the Packet BASH is still tentative, but will look
something like this:
       1900 -- Dinner
       1945 -- Welcome
       2000 -- Keynote Address
       2030 -- Raffle
       2045 -- TAPR SIG Meetings

Talkin will be on 146.415 simplex.

For more information, send email to "packbash@ag9v.ampr.org" or stop
by the TAPR booth at Dayton for schedule and map.

Banquet tickets will be available until May 1st from the TAPR office.
After May 1st, tickets ordered will be available for pickup at the TAPR
booth. Walk-up to the event will be accommodated as best as possible.
There is limited room for Dinner. Amateurs who wish to attend the
speaker and discussion are asked to arrive around 2000 (8pm).
```

---

515. Re: [APRSSIG:7664] U2000 modem mode

From: rkramer@cdx.net (Ronald Kramer)
Date: Sun, 17 Mar 1996 20:18:26 GMT
To: aprssig@tapr.org
Message-ID: <314c72f4.487278064@mail.cdx.net>
Rendered body type: text/plain

```
On Sun, 17 Mar 1996 12:47:46 -0600 (CST), you wrote:

>Perhaps I have missed something. I have put my Ultimeter 2000
>into modem mode and have yet to make it send any data.
>The hint sheet claims the trigger is ">H". What is the character
>sequence to send if this is not it and what is the pinout difference
>for adding the data-in signal to the U-II cable.
>
>Dick WB6NGC
>
You should be using data logger mode for both stand alone and
aprs !!! the modem mode will not work for these programs
also the packet mode will lock everyone on channel up if used
in the standalone mode...
hope that helps you   press the bottom left and top left buttons
on the u2000 at the same time for three flashes of the lcd
readout for data logger mode.. 2400 baud

Regards, Ron ...                            73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

516. Re: [APRSSIG:7654] help with Aprs MFJ 1278B & Ultimeter 2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 15:50:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317154910.29521B@greatlakes>
Rendered body type: text/plain

```
On Sun, 17 Mar 1996, Donnie J. Murray wrote:

> I can not seem to get the U2000 to pass the Wx info along to Aprs.  I
> have placed the Utilimeter 2000 in the packet mode and have entered my
> registration numbers for APRS and the WX deal..
>
WB4APR REPLY COMMENT:   Berrraaaaap!  Leave the U2000 in data logging mode!
```

---

517. Re: [APRSSIG:7656] Maplists

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 15:53:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317155245.29521D@greatlakes>
Rendered body type: text/plain

```
On Sun, 17 Mar 1996, William Nolle wrote:

> I was just wondering since all but one of the maplists where moved into a
> directory called maplist if there couldn't be a (L) for listing them all
> with the M-C something like is done with the O-D. I have 29 Maplists in

WB4APR REPLY COMMENT:  Good idea, I was noticing that need too....  If
you dont see it next version, REMIND me!
```

---

518. Re: [APRSSIG:7659] aprs75a bug?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 16:04:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317160252.29521F-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 17 Mar 1996, jay hainline wrote:

> I recently downloaded the 75to75a.zip file and installed it in aprs.
> According to Bob, one of the new features is an automatic screen updating
> feature which is turned on with the Alt-S, Other, Redraw command. The
> screen is suppose to update whenever you transmit your beacon. However
> Is this a bug Bob?

WB4APR REPLY COMMENT:  Yes!  Sorry, I blew it....
```

---

519. Re: [APRSSIG:7666] Re: U2000 modem mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 16:33:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317163233.29521M-100000@greatlakes>
Rendered body type: text/plain

```
On Sun, 17 Mar 1996, Ronald Kramer wrote:

> also the packet mode will lock everyone on channel up if used
> in the standalone mode...

WB4APR REPLY COMMENT:  Not if they are running 75 or 75a... (I hope)
```

---

520. Re: [APRSSIG:7659] aprs75a bug?

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 17 Mar 1996 17:16:54 -0800
To: aprssig@tapr.org
Message-ID: <314CB986.4A0A@hiwaay.net>
Rendered body type: text/plain

```
jay hainline wrote:
>
> I recently downloaded the 75to75a.zip file and installed it in aprs.
> According to Bob, one of the new features is an automatic screen updating
> feature which is turned on with the Alt-S, Other, Redraw command. The
> screen is suppose to update whenever you transmit your beacon. However
> I see my screen "flicker" once every 5 seconds when this command is
> turned on. I assume it is trying to update the screen each time as
> if you are continuously hitting your spacebar no matter if you are
> transmitting your beacon or not. Is this a bug Bob?
>
> 73, Jay...
>
> Jay Hainline  KA9CFD  EN40
> Macomb,IL
> msjth@uxa.ecn.bgu.edu

Bob is already aware of this problem so no need to keep posting this
problem. I'm sure it will be fixed in the next version.

Bill KE4EER
```

---

521. CIBA Launch Notice

From: melliott@ocslink.com
Date: Sun, 17 Mar 1996 19:19:47 -0600
To: aprssig@tapr.org
Message-ID: <199603180119.TAA29968@ocslink.com>
Rendered body type: text/plain

```
The next Central Illinois Balloon Association (CIBA) high altitude balloon
launch is scheduled for Saturday, April 13, 1996.  Lift-off time for the
```

helium filled balloon is set for approximately 9:00 a.m.(CDT) from Washington,
IL. The rain date is set for the following day, same time, same location.
Estimated ceiling height for the package should be a minimum of 85,000 feet.

Two payload packages will be used. One package will be equipped with a GPS
receiver and a TNC operating on the APRS frequency of 145.790 mHz. Also on
board will be a beacon transmitter operating on a frequency of 146.565 mHz
simplex, a 35 mm still camera, and a temperature probe to record the inside
and outside temperature extremes.

The other package will contain a cross-band repeater. The input frequency
for cross-band repeat operation will be 147.585 mHz with a 146.2 Hz CTCSS
tone, and an output frequency of 446.025 mHz.

Recovery operation frequencies will be various repeaters in and around the
projected flight path, and a car-to-car/at-scene simplex frequency of 146.415
mHz.

A special event station is also planned to operate at or around 7.250 mHz
LSB, using the call of AA9MK. Watch and listen for possible changes to this
notice.

CICA Home Page: http://www.ocslink.com/~melliott

73

<---- End Forwarded Message ---->

---

522. Re: [APRSSIG:7664] U2000 & PICOpaket

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 17 Mar 1996 19:21:05 -0600
To: aprssig@tapr.org
Message-ID: <199603180119.TAA24835@tapr.org>
Rendered body type: text/plain

Here's the setup I'm using to run my U2000 with the PicoPacket TNC
two serial port.
U2000 in datalogger mode
[!!000000C501660000281B02AA--------004403BB]

```
TNC settings as follows
gpstext !!
[string to recognize]
lpath aprs v relay,digi1,digi2,digi3,wide       [digi path for wx data]
loc e 30
[becon wx string every 5 min]
b e 30
[becon btext every 5 min]
BText    !4156.45N/09142.42W_                        [postion format for
standalone WX]
unproto aprs v relay,digi1,digi2,digi3,wide  [digi path for becon data]
uimode on
[seemed to be the secret trick]
mya relay                                                             [so
you can still relay]
```

Plus the normal stuff like my, myp and so forth. I use an rs232
cable that has two rs232 connectors per end, so it can pass through data on
both ends. With this cable I can still us my Peet Bros datalogging software
as well as transmit WX data in the APRS format. Special thanks to Bob for
his patience in not pointing out my stupidity (it's all in those readme
files he wrote) and to Paul at Paccom for the firmware EPROM chip he sent.
Also on a 2 port Pico it does make a differece which position the
switch is in, make sure it's the left on position, looking at the back, and
not the right on position.

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

523. Re: [APRSSIG:7670] Re: U2000 modem mode

From: rkramer@cdx.net (Ronald Kramer)
Date: Mon, 18 Mar 1996 03:28:42 GMT
To: aprssig@tapr.org
Message-ID: <314cd799.513046595@mail.cdx.net>
Rendered body type: text/plain

On Sun, 17 Mar 1996 15:48:11 -0600 (CST), you wrote:

>On Sun, 17 Mar 1996, Ronald Kramer wrote:
>
>> also the packet mode will lock everyone on channel up if used
>> in the standalone mode...
>
>WB4APR REPLY COMMENT: Not if they are running 75 or 75a... (I hope)
>

ver 75 still locks up when receiving the packet mode sent
from a stand alone u2000 wx.
Have not checked 75a yet I have to get KE2VW to send some
frames out to see if it locks 75a up, I will do that as soon
as I hear from Greg.
I sent you a couple messages with the screen dumps
that show what aprs75 shows on the screen when it locks
up.

Regards, Ron ...   73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

---

524. Re: [APRSSIG:7657] Re: WO-18 Position/Status reporting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 22:27:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317221612.470C-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Mar 1996, Steve Dimse wrote:

> I love the concept of a packet satellite for APRS position reports, but I
> don't think the system you describe using WO-18 is practical.
>
> 1. While the uplink system is relatively easy to run, the downlink is
> quite difficult. I have used the 1200 baud pacsats, and it ain't easy.
> ....[but is it wort it for only 4 posits a day?]
> Have you heard from anyone who has experience with the 1200 baud
> pacsats that *is* willing to commit to > regular gating?

REPLY: I have logged 9 positive responses. I now have a PACSAT modem in my
office and can monitor all daytime passes...

As you point out, unless the PACSAT user POSITS are somehow distributed
to everyone that wants to monitor, then we haent done much. THat is
where the internet guys can contribute a lot...

> 2. While a system that could run independently for several months on D
> cells would have some exciting applications, the present hardware won't
> do that. You would need a custom programmed microprocessor that would

REPLY: No, I assumed such an exxpedition would print out pass times in
advance and if POSIT reporting was important enuff for their health and
welfare, that the HUMAN would time the pass.

> getting updated keps to the processors out in the field so that they know
> when a pass is to occur? They are usually accurate to 30 sec or so after
> a month, but beyond that tend to fall off rapidly. Even small errors
> could play havoc on the slotting system.

REPLY: The keps I used yesterday were 100 days old and the bird was right
on time. This timing has nothing to do with the SLOT timing. The SLOT
timing is on a repetative 1, 2, 3 or 4 minute absolute cycle independent
of where the satellite is..

> 3. Using the GPS time to sync everyone to a set slot would work well as
> long as no one else is using the satellite. If Weber is uplinking
> commands, that would cause major collisions. I would expect that Weber

REPLY: I assume they also have access to one of the other 4 receivers on
board.

> I'd be glad to dust off my PSK modem to participate in a test of the
> satelitte though. What I'd love to see (and be willing to help support
> with $$$) would be a dedicated APRS pacsat. Anyone know of any space

WB4APR REPLY COMMENT: Yes, I agree 100 percent, but we have to get their attention first. As you saw from the "NOT ON MY SATELLITE! " replies over on the AMSAT sig, we have an uphill PR job to do first, hi hi....

---

525. SIMULATE.bas bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Mar 1996 22:31:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960317222745.470D-100000@greatlakes>
Rendered body type: text/plain

WA7ZZB played a lot with my first SIMULATE.bas and discoverd that it was not properly detecting all collisions. I fixed the problem in the version of simulate.bas this is being distributed in version APRS75a and the upgrade file. If your SIMULATE.bas does NOT produce BLUE packets and YELLOW successes, then you have the old one. Dont use it. It will give you false better preformance simulations....

To the Agrelo class problem, it drops the number of transmitters per frequency by about a third... I think....

---

526. Re: [APRSSIG:7657] Re: WO-18 Position/Status reporting

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Sun, 17 Mar 1996 22:35:42 EST
To: <aprssig@tapr.org>
Message-ID: <17MAR96.24402793.0068.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
>Bob...
>
>I love the concept of a packet satellite for APRS position reports, but I
>don't think the system you describe using WO-18 is practical.
>
>1. While the uplink system is relatively easy to run, the downlink is
>quite difficult. I have used the 1200 baud pacsats, and it ain't easy.
>Yes, automated reception is possible, but expensive and difficult to set
>up and maintain. Manual tracking is best described as a labor of love. I
>don't see many users willing to dedicate hardware worth say $500 to a
>system which may only be gated to handful of sites, and is only capable
>of transmitting 4 position reports a day. I have the equipment and
>experience to use WO-18, and I love APRS, but I'm not willing to put out
>the effort to gate on a regular basis. Have you heard from anyone who has
>experience with the 1200 baud pacsats that *is* willing to commit to
>regular gating?
>>What exactaly is nessesary in the way of ant. and is tuneing due to
>> doppler shift nessesary?


>2. While a system that could run independently for several months on D
>cells would have some exciting applications, the present hardware won't
>do that. You would need a custom programmed microprocessor that would
>figure out the pass times, turn on the GPS a couple minutes prior to get
>a fix, and transmit at the correct moment. Even the most efficient
>microprocessor requires abt 0.2 Watts/hr which would deplete the
>batteries quickly. A processor which would figure out the time of the
>next pass, and then put itself to sleep would work, but require not only
>custom software but custom hardware as well. Also, how would you handle
>getting updated keps to the processors out in the field so that they know
>when a pass is to occur? They are usually accurate to 30 sec or so after
>a month, but beyond that tend to fall off rapidly. Even small errors
>could play havoc on the slotting system.
>>Although this sounds like a great idea i dont see the average user
>>needing this low power consumption mode but it would be great..
>>i see this as a 1200 baud link for vhf? could it be used for that as
>>well on a LOW tx rate to send msg from one vhf net work to another
>>It just seems like we are creating the same problem all over again
>>by flooding the HF network with one way non hearing stations if we
>>gate to HF that is assuming that we have hundreds of users.
>>but only having 4gates gating onto hf might solve the expence problem.
>>This may cause problems with the guys on HF.
>>Maybe a solution is to use another HF band for gate-sat gating to hf
>>but b-4 we get into this lets start using the bird!!!and see how it
>>works for aprs.
>>For not so power critical objects like my Jeep or a boat could we not
>>just have the tnc tx at a specific time slot utilizing curent
>>hardware like the KPC3's sloted postion reports is there a way to
>>cordinate these with the GPS /UTC time and have them tx every 25min
>>and if the bird is over head great and if not no harm done we just
```

>>assume that we will have our posions line up to the next pass

>3. Using the GPS time to sync everyone to a set slot would work well as
>long as no one else is using the satellite. If Weber is uplinking
>commands, that would cause major collisions. I would expect that Weber
>uses higher power to an az/el beam for the uplink, so the APRS traffic
>would probably not QRM them much.

>>Using UI frames it would not be that big of a deal to me if i lost
a few packets hear or there to update the BiRd
>>but my big question is we will not be the only users of this bird
>>so we may need to bounce this off of Weber and see if we could
>>cordinate these (priority time slots to have less qrm from other
>>users?!?!?!

>I'd be glad to dust off my PSK modem to participate in a test of the
>satelitte though. What I'd love to see (and be willing to help support
>with $$$) would be a dedicated APRS pacsat. Anyone know of any space
>engineering students in need of a project???
>>I would love to see this to but lets walk be for we try to run
>>other than renegade users digi'n thru mir we have only had one or 2
>>passes of a aprs packsat i think that this bird could provide a great
>>opportunity to findout what is possible

>73 de Steve KO4HD
>>
>>Lynn N4YCI
>>ps I think that gating this to vhf is a much beter idea but sometimes
>>u have to make compromises due to the expence of seting up one of thes
>>gate-wo18's for every 3 wides

---

527. $GPGGA sentence

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sun, 17 Mar 1996 19:56:58 -0800
To: aprssig@tapr.org
Message-ID: <199603180356.TAA09251@poseidon>
Rendered body type: text/plain

All GPS/APRS USERS.   From Motorola Tech Support..

NMEA-0183 protocol/sentences for the $GPGGA data string, giving time, position,
altitude.

```
       1      2       3 4        5 6 7 8   9   10 11  12 13
$GPGGA,xxxxxx,zzzz.zz,N,zzzzz.zz,W,x,x,xxx,uxx,M,uxxx,m*xx<CR><LF>
```

No	Field	Units/Range
1	Time/UTC of Posit.	Hours, Minutes, Seconds/ 00-24, 00-59, 00-59
2.	Latitude	Degrees, Minutes and Hundredths/ 00-90, 00-59, 00-99
3.	Direction	N = North, S = South
4.	Longitude	Degrees, Minutes and Hundredths/ 00-180, 00-59, 00-99
5.	Direction	E = East, W = West,
6.	GPS Quality Indicator	0 = GPS not Available 1 = GPS available.
7.	Number of Satellites Being used..	no units/ 2 - 4
8.	HDOP	no units/ ? - ? (Don't know what means, don't ask)
9.	Antenna Height	meters/ -99 to 99 where u is sign if minus.
10.	Units	M for meters.
11.	Geoidal Height	meters/ -99 to 99 where u is sign if minus
12.	Units	M for meters
13.	Checksum (optional)	Hex 00-7F

If you notice the above format in a packet message, this will give you some information on what the position report means. For APRS the $GPRMC sentence is more acceptable as it give Time, Positionk, Course, and speed. Whereas this $GPGGA data string, only give Time, Position and Height, which I have been told is not accurate height MSL on GPS receivers, below about 2000 feet.

WBB/WB6LPG

---

528. Re: [APRSSIG:7677] Re: WO-18 Position/Status reporting

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 18 Mar 96 00:58:17 -0500
To: <aprssig@tapr.org>
Message-ID: <199603180556.AAA18566@newworld.bridge.net>
Rendered body type: text/plain

```
>What exactaly is nessesary in the way of ant. and is tuneing due to
> doppler shift nessesary?

Reception is possible with an omni antenna, but far better results
obtained with a circularly polarized beam on an az/el rotor. A vertical
or horizontal beam also works, but is subject to deep fades.

Active tuning is needed, and is critical. The radio must be within 50 Hz
or so to lock the modem onto the signal. The doppler shift is more than
7000 Hz over the course of a pass. The beginning and end of a pass have
slowly changing doppler, with a rapid change in the middle...the same
time the beam heading is changing quickly. You need 4 hands to do this by
manually. I have a TrakBox now which handles the antenna rotor, making
things a whole lot easier. The PSK modem includes outputs to drive the
up/down buttons on most rigs to provide a measure of automatic freq
control as well, but the initial lock-on must be done manually. I have
not had much luck with this, as any fade of signal tends to cause the
modem to lose lock.

The fully automated systems use a computer to aim the antennas and tune
the radio directly. With good keplerian elements and an accurate clock,
the doppler can be predicted accurately enough to get the modem to lock
onto the signal.

Any volunteers???

Steve KO4HD
```

---

529. Re: [APRSSIG:7625] Re: GPS for landing planes

From: Bill Duckwitz <duckwitz@mindspring.com>
Date: Mon, 18 Mar 1996 01:14:59 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960318011439.109f8134@pop.mindspring.com>
Rendered body type: text/plain

```
At 07:08 AM 3/16/96 -0600, Al Chan - W6DNT wrote:
>RM> I remember an article about this in GPS World when they had just
>RM> started. In addition to the local differential GPS, the plane used
>RM> a down-looking radar for precise altitude from 40 feet down to the
>RM> runway. I haven't seen the PS article, but the transponders may be
>RM> a later substitute for the radar.
>RM>
>RM> A local differential setup that broadcast carrier-phase
>RM> corrections for each Sat. would get the approach path fine, but
>RM> separate altitude data might avoid landing 15 feet above or below
>RM> the ground. :-)
>
>Yes, it is very possible that the transponders are being used to
>substitute the down-looking radar, to enhance the position  by
>triangulation. The article says "transceivers," so it is also possible
>that they are using DME instead. (distance measurement equipment.) But
>I am not sure if that is accurate enough (good enough resolution) for
>the purpose. I am curious to know what they are: Xponders or DME.
>
>WF> Actually, "category III" with respect to instrument landings has
>WF> nothing to do with *how* the plane is landed - it is a term
>WF> referring to the worst visibility conditions, including
>WF> "zero/zero" (zero visibility, zero ceiling.)
>WF>
>WF> Most systems that allow landings under CatIII conditions do in
>WF> fact require the pilot to land the plane by manipulating the
>WF> controls in the normal way, etc. - it's just that the information
>WF> he needs to do so is coming exclusively from a landing system
>WF> rather than a look out the window.
>
>You are correct. I should have been more specific. Under "zero/zero"
>condition (believe that is Cat IIIa) I believe that it is mandatory
>that the plane be flown by auto-pilot. FAA rules. Is that true? I've
>heard that under certain circumstances, auto-pilot is mandatory. But I
>am not sure if it is at Heathrow airport, London, or somewhere in U.S.
```

```
>
>-al.
>
No such thing as a zero/zero landing.  Even Cat IIIa requires 600 feet
visability.  Being a pilot of 40 years or so, instrument rated etc with over
6000 hours heavy and  multiengine jet time, I can tell you that isn't much.
Cat IIIa landings require full autopilot operational and engaged.  Cat II
can be hand flown as long as all the nav equipment is operational (full
redundant).  I have done that many times but never have had the opportunity
to fly Cat III - hell, Cat II is scary enough for me.  I am retired now so I
don't guess I'll get the chance except maybe in the simulator.

Happy landings.

Bill
=====================================================
Bill, W4PBV , Col., USAFR, Ret., ex Heavy Driver
Kennesaw, GA                     34*04 N 84*36 W
duckwitz@mindspring.com or 73002.3554@compuserve.com
CEO Bosley's Basement Laboratories, Piedmont Division
No Work Solicited                  Nothing Guaranteed
```

---

530. USGS MAPS

From: Scott Miller <scottm@sierra.net>
Date: Mon, 18 Mar 1996 02:39:45 -0800
To: aprssig@tapr.org
Message-ID: <314D3D71.70C4@sierra.net>
Rendered body type: text/plain

```
can someone please provide me with the internet address
for the USGS MAPS?
THANKS Scott Miller in Tahoe City,Ca. KE6RKE
```

---

531. Another 75a bug?

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 18 Mar 1996 07:07:30 +0000 (EST)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: Bob Bruninga <bruninga@nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.960318070206.7224A-100000@pinegov>
Rendered body type: text/plain

```
Hi Bob and others...

Since I run a gate, I frequently switch from VHF mode to HF mode and vice
versa.  The other evening, just after installing 75a, I happened to
initiate the program at 1859 EST, or 2359 GMT.

I started in VHF mode....did a few things, and then switched to HF mode.
I immediately noticed a problem, after I switched to HF mode, my posit
reports were going out with the time stamp of 162407....2407 hours GMT?

The correct time should have been 170007z.......this creates real havoc
when trying to dead reckon track an object...

Bob, can you check on this pls?

Thanks in advance,

Kevin KD4UYR
```

---

532. Re: [APRSSIG:7604] GPS for landing planes

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 18 Mar 1996 07:25:24 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603181325.HAA03119@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Al Chan - W6DNT sez:
>
> The GPS system illustrated in Popular Science can land a jumbo jet by
> category III (hands-off, completely automatic landing.)
>
> FAA made 160 successful landings out of 161 in California. One of them was a
> satellite kaput; plane did a go-around.)  [Apr 1996 Popular Science.]
>
> Does anyone know how the system work? I'd like to know.

There are several components to this.  It's the subject of intense work at
Stanford by the Aerospace engineering department, as well as a friend who's
```

getting his Masters' degree on a variant of this (N5JXE).

The local GPS hardware "around" the airport are fake satellites, or "Pseudollites" in the parlance. They send GPS non-dithered position information out. These pseudollites do not move, but conform to the GPS Specifications, and send the exact same signals as "real" satellites that are orbiting overhead. Note that there are 24 satellites in the complete constellation, but room in the GPS spec for 36 transmitters, one of which is actually "not available" since its address signature is a repeat of another.

The 35 available "signatures" are the Gold Codes, and as long as the pseudollites send the appropriate Gold Codes and do not interfere with orbiting PRNs or nearby PRNs, they can be received as "real" GPS navigation data.

The system also uses differential GPS to improve the error associated with both system inherent ("common mode") and externally induced (Selective Availability) errors. I do not recall if they are using the lower resolution corrections or the higher resolution corrections normally associated with surveying.

An interesting piece of their work involved transmitting their corrections data on L1, rather than on a separate frequency, using one of the Gold Codes as a PRN. Seems the Trimble receivers they were using had no trouble grabbing it and knowing what to do with it!

Hope this helps. Are you interested in further info? How they coupled the GPS data to autoland? What hardware they used? I can probably find out.

73, gerry

---

533. Re: [APRSSIG:7681] USGS MAPS

From: William Nolle <ke4eer@hiwaay.net>
Date: Mon, 18 Mar 1996 07:29:19 -0800
To: aprssig@tapr.org
Message-ID: <314D814F.244D@hiwaay.net>
Rendered body type: text/plain

Scott Miller wrote:
>
> can someone please provide me with the internet address
> for the USGS MAPS?
> THANKS Scott Miller in Tahoe City,Ca. KE6RKE

Scott it's ftp://edcftp.cr.usgs.gov/pub/data/DLG/

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534. Re: [APRSSIG:7628] APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 18 Mar 1996 08:17:03 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603181417.IAA03574@solar.cs.tamu.edu>
Rendered body type: text/plain

To the best of my knowledge, there is not an active attempt by the coordination community to decoordinate APRS activities on any channel, where it's been recognized.

That said, I'm afraid the coners of your coordinator are probably valid, with regards to the spectral purity and tuning of the typical packet radio (did I really see someone suggesting Reagency radios here? I really hope not!). Because most of us think in terms of 5khz bandwidths for VHF/UHF FM, a lot of folks, who may even have access to some form of test equipment tend to adjust their deviation to "5 khz" by meter, without regard for the spectral display. On this path lies danger. Worse still are the folks who adjust their output "by ear" until it sounds like someone else's. This way's truly scarey.

I'd like to think the typical APRS user's more astute, but that may not always be the case.

>From a pragmatic aspect, I think interference with the Space subband is overplayed. However, 'til we can convince folks that the typical APRS user has a clean radio, and we're not going to overload the channel with blathering BBS traffic, I suspect there will be some reluctance on 145.79.

I'd really like to see a push with all the coordination bodies to set aside a single UHF channel nationwide for APRS, now while there's some time to do it. That'll require new radios, and new sites, which are admittedly a pain. What it will also allow is migration to higher speeds which is a _GOOD_THING_ for future growth.

73, gerry
n5jxs@tamu.edu

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535. GeoSystems Home Page

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 18 Mar 1996 08:33:01 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB14A5.87EF8000@lub11.onramp.net>
Rendered body type: text/plain

Check out this semi-interesting website for GeoSystems

http://www.geosys.com/

---

536. Re: [APRSSIG:7657] Re: WO-18 Position/Status reporting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 10:19:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318101431.6297A-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Mar 1996, Steve Dimse wrote:

> 2. While a system that could run independently for several months on D
> cells would have some exciting applications, the present hardware won't
> do that. You would need a custom programmed microprocessor that would
> ...

WB4APR REPLY COMMENT: Every TNC can do the SLOTTED ALOHA with no additional hardware. Just hook the 1 pps timing signal from the GPS to the external carrier detect input of the TNC. This signal is low for 900 ms out of every second. When it goes high, then it can send a packet. Lyle Johnson points out that you only get the theoretical doubling of capacity if the packets are of approximately equal length and approximately the full size of the slot. In our case, 1 second in 1 second for all... Perfect match...

---

537. Re: real foxhunt

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 10:39:18 -0500 (EST)
To: "Jonathan G. Schelmbauer" <jschelmb@mail.orion.org>
Cc: fox-list@netcom.com, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318102019.6297B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 11 Mar 1996, Jonathan G. Schelmbauer wrote:

> There has been a problem in my area with a dead keyer. Very few (if any)
> of the locals are skilled in fox-hunting and I was wondering if there was
> a very reliable, accurate, and easy way to find the transmitter....

WB4APR REPLY COMMENT: You will get many responses, but most will entail the efforts of DF specialists with special (tho common) equipment. The easiest way to involve everyone in your group is to simply use the OMNI DF technique in APRS. Here is what you tell everyone on your repeater.

"Everytime you hear the jammer, tune to the input of the repeater and note the signal strength and your location. EVEN IF YOU DONT HEAR IT, THIS INFORMATION IS *JUST* AS VALUABLE, IF NOT *MORE SO*!!! Report the following information preferrably by phone or other channel to someone with APRS:"

```
      YOUR LOCATION (lat/long prefered, but any recognizable reference)
                    (so that your location can be placed on the map)

      SUBJECTIVE SIGNAL STRENGTH: from 0 to 9.  ZERO is important!

      YOUR ESTIMATED ANTENNA HEIGHT ABOVE AVERAGE TERRAIN.  Look around
                     you.  For cars, use 10 feet unless you are on an
                     obvious hill top...
```

The APRS station can enter each of these "omni" signal reports and APRS will display colored circles around all reports proportional to singal strength and antenna height (using MAPS-PLOTS-DF command). The ZERO reports draw BLACK circles and eliminate all those areas where the jammer *IS NOT*. Note, if the APRS station has his TNC and radio turned on, EVERYONE else with APRS on that channel can see the same geographical plot too! Even HT reports are valuable. But be sure to indicate an antenna gain of 0 and a height of 0 to account for his poor receiving radius...

In just one jamming incident and with the typical dispersion of mobiles during commute time, these overlapping circles (mostly the ZERO reports) will make it very obvious what neighborhood is involved... Even if the jammer is also mobile, you will soon build up a profile of where he commutes... If you have APRS, load the DF-OMNI demonstration file and see what the plot looks like... You should have no problem getting to within a mile or two of the jammer using this technique where *EVERYONE* can participate...

---

538. Re: [APRSSIG:7677] Re: WO-18 Position/Status reporting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 10:56:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318104619.6297D-100000@greatlakes>
Rendered body type: text/plain

On Sun, 17 Mar 1996, someone wrote (it was too embedded in replies to replies for me to figure out whos words were whos:

> >>What is nessesary in the way of ant. and what about the doppler?

APR ANSWER: OMNI antenna and NO tuning on the uplink

> >>It just seems like we are creating the same problem all over again
> >>by flooding the HF network with one way non hearing stations if we

APR REPLY: GOod point, and clearly HF would not support a full satellite, but it will do to demonstrate the concept. I think the internet is the best route.

> >>For not so power critical objects like my Jeep or a boat could we not
> >>just have the tnc tx at a specific time slot utilizing curent
> >>hardware like the KPC3's sloted postion reports. Is there a way to
> >>cordinate these with the GPS /UTC time...?

APR REPLY: Great idea! THe KPC-3 can already sync to GPS time. So full implementation of the assigned slotting system can be done off-the-shelf with no additional control logic!!!

> >> and have them tx every 25min. If the bird is over head great and
> >> if not no harm done....

APRS REPLY: Wrong. Remember, this is the 2 meter satellite band. Each time you trasnmit UP, you will be QRMing someone else locally who may be listingin to the WEAK downlink from AO-10, 13, or others....

---

539. Re: [APRSSIG:7688] Re: real foxhunt

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 18 Mar 1996 10:13:13 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603181613.KAA05483@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

> In just one jamming incident and with the typical dispersion of
> mobiles during commute time, these overlapping circles (mostly the ZERO
> reports) will make it very obvious what neighborhood is involved...
> Even if the jammer is also mobile, you will soon build up a profile of
> where he commutes... If you have APRS, load the DF-OMNI demonstration
> file and see what the plot looks like... You should have no problem
> getting to within a mile or two of the jammer using this technique where
> *EVERYONE* can participate...

Sure wish I'd had this a couple or 3 years ago in Houston: We found the guy using "traditional" (and some extraspecial) techniques, but the manual plotting of multiple mobile reports was a real drag!

73, gerry

---

540. Virginia Maps

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Mon, 18 Mar 1996 11:20:09 +0000
To: aprssig@tapr.org
Message-ID: <199603181623.LAA10230@hemisphere.neocomm.net>
Rendered body type: text/plain

vamaps08.zip has been uploaded to ftp.tapr.org ,This file replaces all previous Vamaps*.zip.

This is our most up to date collection of Virginia maps. Most maps are of the 8 mile range. There are some 1 mile city maps for Lynchburg and Martinsville. Two maplist are included. Maplist.va views all the 8 mile and above maps of Virginia. Maplist.vac suppresses some 40+ maps in eastern Virginia, for viewing of the 1 mile city maps. About 2/3 of the maps have street and city labels. Some maps still need work, I will post an update when these maps are finished. Pete W4WWQ and myself WB4PAN hope you enjoy our joint effort on prepareing these maps.
Unzip with PKUNZIP -d to place maplist and maps in the proper directorys.

73

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

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541. GOLF TRACKING SYSTEM

From: DDOBBINS@aol.com
Date: Mon, 18 Mar 1996 11:48:52 -0500
To: aprssig@tapr.org
Message-ID: <960318114851_449212361@emout10.mail.aol.com>
Rendered body type: text/plain

For general info, Discovery is running a great show "Eyes in the Sky" which discusses, among many other things, how GPS is being used around the globe. It's easy to see some APRS-like activities happening, including one where GPS-equipped golf carts WITH data radios linked back to the club house are being used to update their positions on the course. Further, the player can depress one of several buttons on the panel and find out how close he is to the pin, then another button to ask for professional help from the clubhouse. Very professional, maps all nicely done, definitely a "way cool" system. If anyone knows where the golf course mentioned is located, I'd like to hear about it. Aloha, Dave/WH6YC. (Still not as neat as the cows in space project)

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542. RE: [APRSSIG:7687] Re: WO-18 Position/Status reporting

From: "Sadowski,P O4 USAF JCSAR/EDD" <sadowskp@jcsar.nellis.af.mil>
Date: Mon, 18 Mar 96 09:49:00 cst
To: aprssig <aprssig@tapr.org>
Message-ID: <314D8654@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

Bob

Wouldn't this approach mean that everyone is trying to transmit during the
same
100 millisecond slot? How do you enfore everyone to deconflict.... or are
you
relying on the FM capture effect to only get the strongest signal.. and
standard
CSMA/CA and the effectiveness stats that go along with Collision Avoidance??
I'm inclined to believe the doppler problem is more serious for most
stations...
However - the applicability of this technique to ground TSPI (MILSPEAK for
position tracking systems - time space position info) is real good....
especially
when combined with TDMA for same freq reuse (common for TSPI systems)
and slow update rates (usually, high dynamic TSPI data is at 10 Hz rate...
and
includes pitch roll yaw rates along with x y z accelerations... and aux
data... for
ground vehicle TSPI.... 6-10 sec updates are more than good enuff....) BTW
the
vacant TDMA slots are usually reserved for the repeater use in TDMA TSPI
here...

ALOHA
Al AH6LS

>WB4APR REPLY COMMENT: Every TNC can do the SLOTTED ALOHA with no
>additional hardware. Just hook the 1 pps timing signal from the GPS to
>the external carrier detect input of the TNC. This signal is low for
>900 ms out of every second. When it goes high, then it can send a

```
>packet.  Lyle Johnson points out that you only get the theoretical
>doubling of capacity if the packets are of approximately equal length and
>approximately the full size of the slot.  In our case, 1 second in 1
>second for all...  Perfect match...
```

---

543. Re: [APRSSIG:7685] Re: APRS coordination in AZ

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Mon, 18 Mar 1996 10:38:41 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318103658.28487A-100000@willow>
Rendered body type: text/plain

```
> I'd really like to see a push with all the coordination bodies to set aside a
> single UHF channel nationwide for APRS, now while there's some time to do it.
>
> 73, gerry
> n5jxs@tamu.edu
>
ARCA was enthusiastic about this and willing to give us a frequency right
now, but, do we have a consensus in the community for a UHF freq?

Chris, AA7WD
zoom@willow.sps.mot.com
```

---

544. e-mail access to WWWeb

From: Pete_Lascell@ena-east.ericsson.se (Pete Lascell)
Date: Mon, 18 Mar 1996 12:09:03 -0500
To: aprssig@tapr.org
Message-ID: <14da81e0@euslyn07.ena-east.ericsson.se>
Rendered body type: text/plain

```
Do you have only e-mail access to Internet and think you are missing a lot
of what the WWW has to offer?

There is a unique server that will read a WWW address and send
it to your e-mail account.  Try this example to get the TAPR/SIG:

Send a message addressed to:

              agora@dna.affrc.go.jp


Leave the subject line blank.

In the body of the message enter:

              send http://www.tapr.org/tapr/html/sigs.html



Hypertext search addresses found in the retreived text will be identified
at the end of your returned e-mail message allowing you to fetch the next
level of information.

For GPS information, try this address:

                   http://www.cnde.iastate.edu/gps.html


I hope this will help some of the SIGs readers to get more information
from the WWWeb.

Pete Lascell, W4WWQ
```

---

545. WO-18 digipeats...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 12:45:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318123346.9551D-100000@greatlakes>
Rendered body type: text/plain

```
Today was my second atttempt at WO-18.  I forgot about it until half way
thorugh the pass.  Here are my "newbee" experiences:

Really tough to manually tune in in the middle of the pass!  But once past
oerhead, the doppler tames down significantly.  I am using a high gain
beam, so I am actaully at a disadvantage, cuz if I ain't pointed at it,
its worse than a ground plane.  Talk about arms and legs flailing!!
```

The AZ-el contorls, the constant dopler, the keyboard, the toher PC
running instantrack! It would have made a nice movie...
Again I copied several packets and this time copied 4 digipeats....
The W4XYZ was my TNC, cuz I hadnt used this satellite TNC before and
never thoght to check the MY CALL first....

Attached is a copy of the packets received. I edited out about 50% of the packets and chopped them down to 80 character lines. But it gives you the idea of what you will see. Next pass, I will try the path of VIA WEBER-1,GATE.... I assume I got about 10% of the total number of packets if Im lucky...

I dont know where I'm going with this, but Im just having fun. I been meaning to check out the PacSats someday anyway, now I have an excuse...

```
WEBER>SPECT:XAWEBER-1>STATUS:□M1□
```

---

546. WO-18 pass

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 13:00:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318125158.10283A-100000@greatlakes>
Rendered body type: text/plain

I forgot about the first pass today, but remembered in the MIDDLE of the 2nd pass. Here are the experiences of a "newbee"....

1) Darn hard getting a lock in the "middle" of the high doppler! Much easier at beginning or end...

2) Im using an AZ EL mount cuz its whats hooked to the radio. But unless its pointed at the bird, it is worse than an omni (ergo you must track it)

3) I copied probably 30 packets (probably 10% of total per pass?)

4) I copied my digipeated packets (4)!

Trying to manually track the ANTENNA, Doppler, and operate the INSTANT track PC and the TNC PC would make a nice "charlie Chan" movie!

Here is a sampling of what I received (I edited out all binary packets since when I tried to put them in this message the first time, they crashed my internet mailer!) I also cut out most of the duplicate packets too.... I put the asterix at the beginning to highlight mine.

```
WEBER>SPECT:....garbage
WEBER-1>STATUS:....Garbage
WEBER-1>WODCH:WOD:26 27 28 29 2A 2B
WEBER-1>WOD:....garbage
WEBER>SPECT:....Garbage....
WEBER-1>TLM:stuff.....
WEBER-1>STATUS:stuff....
WEBER-1>WOD:more stuff...
WEBER>SPECT:stuff...
*WB4XYZ>APRS,WEBER-1*:     (this was me too, cuz I hadnt checked MYcall)
WEBER-1>TLM:stuff....
WEBER>SPECT:lots morestuff...
*WB4APR>APRS,WEBER-1*:
*WB4APR>APRS,WEBER-1*:@160240/3859.11N/07629.11W-CQ WO-18!
WEBER-1>LSTAT:I P:0x14C7 o:0 l:2666 f:2867, d:1 st:1
*WB4APR>APRS,WEBER-1*:
WEBER-1>LSTAT:I P:0x14C7 o:0 l:2666 f:2867, d:1 st:1
WEBER-1>TIME-1:PHT: uptime is 299/11:33:38.  Time is Mon Mar 18 17:21:54 1996
WEBER>SPECT:stuff...
WEBER-1>STATUS:stuf.... etc
```

See ya next pass! Maybe Ill have my up/dn buttons conected by then...

---

547. Re: [APRSSIG:7666] Re: U2000 modem mode

From: Dick Mead <mead@hamal.usc.edu>
Date: Mon, 18 Mar 96 10:41:55 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.827174515.mead@hamal.usc.edu>
Rendered body type: text/plain

I suppose I should have stated I already use the U2000 with APRS/MacAPRS.
I know what mode to use. I was playing with it, okay? I hope
someone has gotten it to send data in modem mode and will send me
info I seek.
Thanks,

Dick WB6NGC

---

548. Re: [APRSSIG:7687] Re: WO-18 Position/Status reporting

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 18 Mar 96 13:46:00 -0500
To: <aprssig@tapr.org>
Message-ID: <199603181844.NAA00642@newworld.bridge.net>
Rendered body type: text/plain

```
>> 2. While a system that could run independently for several months on D
>> cells would have some exciting applications, the present hardware won't
>> do that. You would need a custom programmed microprocessor that would
>> ...
>
>WB4APR REPLY COMMENT:  Every TNC can do the SLOTTED ALOHA with no
>additional hardware.  Just hook the 1 pps timing signal from the GPS to
>the external carrier detect input of the TNC.  This signal is low for
>900 ms out of every second.   When it goes high, then it can send a
>packet.  Lyle Johnson points out that you only get the theoretical
>doubling of capacity if the packets are of approximately equal length and
>approximately the full size of the slot.  In our case, 1 second in 1
>second for all...  Perfect match...
>
```

But if you leave the radio, GPS, and TNC on all the time, beaconing every 4 minutes, the D cell battery pack isn't going to last a day, much less 'months'. That was the thrust of this comment...you'd need custom microcontroller hardware and software to get that kind of battery life.

Steve KO4HD

---

549. On the Road with APRS

From: Mike Musick <71301.3106@compuserve.com>
Date: 18 Mar 96 15:31:35 EST
To: <aprssig@tapr.org>
Message-ID: <960318203135_71301.3106_FHJ81-1@CompuServe.COM>
Rendered body type: text/plain

Or, rather, "How I Spent My Summer Vacation" <g!>; i.e., some random musings about 17 days of on-the-road with APRS.

As "announced" about three weeks ago, my wife and I just returned from an extended driving vacation encompassing 12 Western states. I had APRS 7.5 running on an HP200LX palmtop throughout most of the trip, hooked-up to a GPS-45 through an HSP interface. We were beaconing posit reports at 180 second intervals, using a WIDE,WIDE via, and were running 50W.

Generally speaking, APRS performed pretty well. It became clear early on that my own lack of detailed familiarity with the program (I normally run the Mac version) caused a few minor glitches, none insurmountable or debilitating.

Probably the biggest annoyance came from using the older maps and USA maplist, and this created some gaps in the route coverage. The main problem with this was that in some cases we'd be only halfway across a state and then the auto-track would switch to the next state, leaving me with a blank map. Late in the trip I also discovered that the maplist was requesting a map for the Midwest that I didn't have, so some quick editing fixed the maplist and stopped APRS from crashing on map display.

Hardware-wise, there were some antenna problems a few days in. I was using a glass-mount antenna that has an adjustment capacitor, and it managed to get knocked out of whack four days into the trip while traversing bumpier sections of old Route 66. It was a real challenge to get it readjusted without an SWR meter. Other infrequent trouble came from the power connector to the TNC, which would make intermittent contact under some conditions. Sometimes this would put the TNC in a "mystery" state, and after a half hour or so I'd notice that we weren't transmitting, and would then have to re-init the TNC.

The APRS radio managed to not bother the other gear in the car too badly in terms of breaking squelch, but of course at 50W it would desense everything during the brief transmissions.

Other APRS stations were seen in Tulsa, Amarillo (many thanks to Ben for playing "tour guide" on-the-air!), Barstow, the Modesto/Stockton area, San Francisco Bay area, and St. Joseph/Kansas City. I'd post the heard list here, but there's still some data sifting to do, and I also mis-keyed and lost a couple of log files. I was surprised to hear no APRS stations in Oklahoma City and Albuquerque.

In KC we encountered an HF gate; initially I thought that we were getting all sorts of local activity. Only on stopping and reviewing the position list did I realize that most of the stations seen were coming through the gate. I don't mean to add to the GATE firestorm, and it's certainly fun to watch gate stuff at home, but gated HF traffic seems to clutter the various lists when you're a VHF mobile or trying to track one.

The 145.010 freq in California was spottier than I expected. I was surprised (and pleased) with seeing stations in Barstow and Daggett, but a jaunt down into Victorville and the Antelope Valley ran square into a PBBS on the frequency. APRS was announcing new (but non-APRS) stations like crazy, and it *really* inflated the heard list.

Speaking of clutter, HSP makes a mess out of the [V]iew window, and was scrolling packet stuff off with the GPS NMEA stream. Any way to filter out the NMEA from the [V]iew on a GPS inquiry?

I have one big regret, only discovered after reading the SIG archives: the railroad mobile event of 3/13 coincided *exactly* with our route and schedule - but I was fairly tired on leaving SFO, and didn't bother with the APRS stuff until getting beyond Reno.

Two things I thought would be a problem weren't. The APRS "beep" annunciators were not annoying at all, and didn't even create spousal objections - in fact, she was sort of getting into the fun of APRS and the route tracking. And the screen distortion caused by the HP200LX's odd aspect ratio was a non-issue.

One thing, however, *was* a problem. The B&W display just doesn't cut it. With APRS's reliance on color to differentiate map features, the more complex a map was, the less likely meaningful intelligence could be gained. In retrospect, I should have turned-off certain map features, but it still wouldn't have helped with rivers vs. roads vs. borders, which I would have wanted "on", but couldn't be distinguished on the display. I guess different line thicknesses would be a huge aid to intelligibility in B&W, but since I'm a long-time QBX programmer myself, I certainly understand why Bob doesn't want to or can't do this.

One wishlist item, though: the one (and only) issue that made starting APRS a pain was setting the auto-track on my own station. It would be very nice if this could be accommodated. Since auto-track wouldn't/didn't save in the startup defaults, I'd have to wait for GPS lock and the program to startup before manually activating the auto-track. This would delay getting on the road and created a couple of tense discussions after rushing the XYL to get going.

All of this, FWIW.

  ...mike musick/N0QBF

  71301.3106@compuserve.com
  Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
  Operating APRS 7.5 on an HP200LX palmtop

---

550. Re: [APRSSIG:7696] WO-18 digipeats...

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 18 Mar 96 16:19:31 -0500
To: <aprssig@tapr.org>
Message-ID: <199603182117.QAA10036@newworld.bridge.net>
Rendered body type: text/plain

>Really tough to manually tune in in the middle of the pass! But once past
>oerhead, the doppler tames down significantly. I am using a high gain
>beam, so I am actaully at a disadvantage, cuz if I ain't pointed at it,
>its worse than a ground plane. Talk about arms and legs flailing!!
>The AZ-el contorls, the constant dopler, the keyboard, the toher PC
>running instantrack! It would have made a nice movie...
>Again I copied several packets and this time copied 4 digipeats....
>The W4XYZ was my TNC, cuz I hadnt used this satellite TNC before and
>never thoght to check the MY CALL first....
>
Sounds familiar. Things got easier for me once I got the Trakbox set up
to handle the rotor. Then I only needed 3 arms!

There is a reason some roads are less travelled, HI.

Steve

---

551. WinAPRS

From: WB4LTF@aol.com
Date: Mon, 18 Mar 1996 16:23:03 -0500
To: aprssig@tapr.org

Message-ID: <960318162302_249087781@emout10.mail.aol.com>
Rendered body type: text/plain

Somewhere I've lost out... I remember seeing information on the WinAPRS or APRSWIN or whatever it's called, moving to a separate area and I tried to subscribe and got some sort of error which I corrected (I thought) but have not seen anything since.

The last word I got was that it didn't work with 3.11
Is this true? If so will it ever and when?
You can reply via direct E-mail so as to not tie up the sig, and I don't need any SMART reply like "RTFM"
Bud
wb4ltf@aol.com

---

552. Re: [APRSSIG:7693] Re: WO-18 Position/Status reporting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 16:57:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318165324.15160A-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Mar 1996, Sadowski,P O4 USAF JCSAR/EDD wrote:

> Wouldn't the 1 sec PPS GPS signal mean that everyone is trying to
> transmit during the same 100 millisecond slot? How do you enfore
> everyone to deconflict....

APR REPLY: Yes, if they all had packets ready to go that second. But they are only going to beacon their posit once every 3 minutes or so... This 1 second slot, only forces any that are going to send a packet that exact second, to perfectly collide so that they dont mess up the next second as well... THats where you get the doubling of throughput...

---

553. Re: [APRSSIG:7700] On the Road with APRS

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Mon, 18 Mar 1996 17:05:09 -0500
To: aprssig@tapr.org
Cc: 71301.3106@compuserve.com
Message-ID: <2.2.16.19960318220509.309fd512@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 14:54 3/18/96 -0600, mike musick/N0QBF wrote:
>Or, rather, "How I Spent My Summer Vacation" <g!>; i.e., some random musings
>about 17 days of on-the-road with APRS.
>
>As "announced" about three weeks ago, my wife and I just returned from an
>extended driving vacation encompassing 12 Western states. I had APRS 7.5
>running on an HP200LX palmtop throughout most of the trip, hooked-up to a
>GPS-45 through an HSP interface. We were beaconing posit reports at 180 second
>intervals, using a WIDE,WIDE via, and were running 50W.
>
[...]

Mike... Very interesting. How did you power that set up? I have visions of multiple power cords coming out of divider plugs from the cigarette lighter, and slowly strangling the people in the fromt seat. I find that self contained batteries are
ok for my GPS, TNC, & HP100 for short trips, but I like to use ship's power for an all
day trip. My Palmtop is fine for all day, but the TNC is close to power limit, and my
GPS (Motorola Traxar Plus) eats a set of 6 AA batteries every 3-4 hours, so remote power is a must.

Bob Kirk
N3OZB

---

554. Re: webersat

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 17:10:11 -0500 (EST)
To: Dave Guimont <G_DGUIMONT@qualcomm.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318165758.15160B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Mar 1996, Dave Guimont wrote:

> I'm able to connect to weber-1 using ops-comm and connecting to myself,

> so I know all the connections are in order. I have seen no one else
> in the range, and I can't believe I am the only one on the air??

WB4APR REPLY COMMENT: I CAN! Remember, the serious PACSAT folks have moved to the 9600 baud satellites, and even the 1200 baud users use AO-16 and 19. WO-18 for years has only had a downlink for pirctures. There is no established base of existing WO-18 users for COMM uplink purposes. EVERYONE to date that has reported digipeating via WEBER-1 have all reported seeing NO ONE else...

If you are using APRtrak or APRS, be sure to set CONTORLS-FILTERS-OTEHR to ON so that you will see ANY digipeated packets even if not APRS...

My recommendation is for you to hit XMT-POS repeatedly to send your position through. You might also want to send a BULLETIN and if you see anyone, SEND them an APRS message! This digipeater is a normal APRS digipeater as far as technique is concerned.

---

555. Boston & NS Trip / Tracker Planning

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Mon, 18 Mar 1996 15:15:58 MST-0700
To: aprssig@tapr.org
Message-ID: <A71513E2D36@ceis.uhcolorado.edu>
Rendered body type: text/plain

To All in the Boston, Cape Cod, Southern NH, Boston to Portland ME, and Yarmouth to Shelburne NS areas:

I will be on a business trip to Boston May 17-23 for the NFPA meeting, followed by vacation on the eastern shore of southern Nova Scotia through the 27th.

System will be a Garman 45 / PacCom TNC / Kenwood handi with a 1/4 wave mag mount. 5w when mobile, 1 watt when portable. I may take a 30 watt brick with me if weight allows. Beacon will be KB1TX-2 (or is -9 correct for a mobil "rental car") when in the US and KB1TX/VE1-2 when in Canada. Computer will be a Compaq AERO running OS/2 with APRS75a (or latest version) when in the hotel or other housing. I probably will have APRS up in an OS/2 "window" on the computer using a roll-up J-Pole in the hotel's window when "home" so I can watch the local APRS activity. When in the Boston area but not on APRS I will be on the .64 Waltham machine, my old hangout when I lived in Plymouth and worked in Boston.

ITINIARY:
17 - Late afternoon, Denver to Boston to Belmont
18 - Belmont - Braintree - Plymouth - Belmont
19 to 22 - staying in Cambridge Hyatt Regency with trips to Newfound Lake area of NH and to the Weathervane in Salem NH for sea food!
23 - To Portland ME's Scotia Prince ferry in late afternoon.
24 - Ariving in Yarmouth NS in morning, to Barrington NS in afternoon.
25 & 26 Around southeast parts of NS - Shelburne to Yarmouth area, possibly to Halifax
27 - Yarmouth early in morning to catch Scotia Prince ferry back to Portland ME - I will have tracker on upper deck weather permitting!
28 - Quincy in morning then to Logan Airport in afternoon and back to Denver.

QUESTIONS:
1. Are there detailed maps of the east coasts of MA, ME, NH, and NS? Where? I just checked the "standard" ones that come up as part of APRS75a and they are not detailed enough. I found none for Nova Scotia.
2. 5.79 in MA, NH and ME?
3. ??? in Nova Scotia?
4. UNPROTO as Relay, Wide?
5. Beacon every 5 minutes when mobil or maritime?
6. KB1TX/VE1-2 (or -9?) when in NS?
7. KB1TX/MM-2 and KB1TX/VE1/MM-2 when on the ship? Ship icon?
8. There are 2m repeaters in Yarmouth and Shelburne NS that I have used in the past, but is anyone running APRS? Are there any digi's?
9. What have I missed?

```
Comments and suggestions please!


Art Smith
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757  FAX - (303)270-4710
als@ceis.uhcolorado.edu
```

---

556. U2000 Pinouts

From: jaym1@soho.ios.com (Jay Millard)
Date: Mon, 18 Mar 1996 17:36:58 -0500
To: aprssig@tapr.org
Message-ID: <v01510101ad7350131c86@[206.20.7.20]>
Rendered body type: text/plain

```
I will shamelessly admit to being somewhat unskilled in making up interface
cables, so I have taken advantage of another ham's willingness to make up a
cable to hook my new U2000 to my Macintosh.

Is there anyone out there who could supply the correct pinout information
for this project?

Upon successful completion of the project you may enjoy the advantages of
seeing the weather in lower Fairfield County, CT.

Thanks in advance, and 73 de Jay Millard

Jay Millard
*Amateur Radio Station KD1LY*
Darien, CT  06820
```

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557. Re: [APRSSIG:7628] APRS coordination in AZ

From: Peter Laws <plaws@babo.uark.edu>
Date: Mon, 18 Mar 1996 16:53:47 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960318165051.16325B-100000@babo>
Rendered body type: text/plain

```
On Sat, 16 Mar 1996, Chris Terwilliger wrote:

> In response to my request for coordinating a digipeater on 145.79,
> Arizona's coordinating body, ARCA, has refused to coordinate APRS
> on that frequency.  Their concern is interference with space shuttle

I spoke to the Arkansas coordinator and he objected on the same grounds.
As an avid shuttle/MIR/Amsat enthusiast myself, I'll have to concur.

What is a good second choice for APRS?  He seemed willing to coordiante a
frequency statewide ...


Peter Laws<plaws@comp.uark.edu>|"I'd rather get cable TV from the phone company
n5uwy@ka5bml.#nwar.ar.usa.noam |than phone service from the cable company"-unk.
```

---

558. [APRSSIG:7685] Re: APRS coordination in AZ

From: n2czf@gate.net
Date: Mon, 18 Mar 1996 18:43:52 -0500
To: aprssig@tapr.org
Message-ID: <199603182343.SAA19290@osceola.gate.net>
Rendered body type: text/plain

```
>>I'd really like to see a push with all the coordination bodies to set aside a
>>single UHF channel nationwide for APRS, now while there's some time to do it.
>>That'll require new radios, and new sites, which are admittedly a pain.  What
>>it will also allow is migration to higher speeds which is a _GOOD_THING_ for
>>future growth.

>>73, gerry
>>n5jxs@tamu.edu

I like to see people planing ahead! Well said Gerry, now is the time to push,
who will be the first ??

Rich N2CZF
n2czf@gate.net
```

---

559. Re: [APRSSIG:7692] GOLF TRACKING SYSTEM

From: n2czf@gate.net
Date: Mon, 18 Mar 1996 18:49:40 -0500
To: aprssig@tapr.org
Message-ID: <199603182349.SAA52038@osceola.gate.net>
Rendered body type: text/plain

I heard about this Gold Cart tracking system last week from a co-worker who is
also on APRS. He saw the show and it is located in of all places right here in
Palm Beach County, I think West Palm to be exact.

Sounds like a great but expensive idea but one person bought it, I am sure
others will be more receptive now. I am interested in tracking the OEM down
myself since we are in the 2-way business and I am sure my boss would love to
get into it, he is a GPS buff himself.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

560. Re: [APRSSIG:7704] Re: On the Road with APRS

From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Date: Mon, 18 Mar 1996 16:00:48 -0800
To: aprssig@tapr.org
Message-ID: <9603190001.AA16141@gvgadg.gvg.tek.com>
Rendered body type: text/plain

>At 14:54 3/18/96 -0600, mike musick/N0QBF wrote:
>>Or, rather, "How I Spent My Summer Vacation" <g!>; i.e., some random musings
>>about 17 days of on-the-road with APRS.
>>
>>As "announced" about three weeks ago, my wife and I just returned from an
>>extended driving vacation encompassing 12 Western states. I had APRS 7.5
>>running on an HP200LX palmtop throughout most of the trip, hooked-up to a
>>GPS-45 through an HSP interface. We were beaconing posit reports at 180 second
>>intervals, using a WIDE,WIDE via, and were running 50W.
>>
>[...]
>
>Mike... Very interesting. How did you power that set up? I have visions of
>multiple power cords coming out of divider plugs from the cigarette
lighter, and
>slowly strangling the people in the fromt seat. I find that self contained
>batteries are
>ok for my GPS, TNC, & HP100 for short trips, but I like to use ship's power
>for an all
>day trip. My Palmtop is fine for all day, but the TNC is close to power
>limit, and my
>GPS (Motorola Traxar Plus) eats a set of 6 AA batteries every 3-4 hours, so
>remote power is a must.
>
>Bob Kirk
>N3OZB
>
>
>
I had the same problem with my train trip, with the GPS-45, Pico Packet,
FT-470 Ht for the radio, and the laptop.

My first lash-up had 4-6 6' long cables, what a mess. You should of seen me
hooking it all up the first time in the front seat of the car. Wires
everywhere!!!

I ended up gutting a old FT-470 battery pack and used that as a junction
box. One power cable for the main 12V. The 470 got its 12V from the contacts
on the gutted battery pack. The pico was mounted to the back of the 470 with
velco. So a 6" cable came out the side of the battery pack to the Pico. The
Pico then had a 6" audio cable going into the top of the 470. The power/data
cable from the GPS-45 went into the battery pack. Power was made to the GPS
from inside the pack. The 45's data is another 6" cable from the battery
pack into the Pico. I was even able to have 2 fuses inside the gutted
battery pack.

So for standalone, there is one power cable to the radio/Pico, data/power
cable to the GPS-45, and the antenna to the 470. When I use the laptop, it
plugs into the Pico.

I all seems to work pretty good, and it has cut down on the number of cables.

Now I need to figure out how to hook it all up to my 45 watt old Kenwood
7850 radio. I may

cut the GPS-45 power/data cable and put a 5 pin din connector in line. Then
make up more cables to use the GPS, Pico and 7850 together.

With connectors and Velco anything is possible!

Randy
WA2AGE

```
----------------------------------------------------------------------
|                          My opinions are my own.                   |
|                                                                    |
|                                    O-                              |
|                                                                    |
|                                                                    |
|      "Television is a medium. So called because it is neither      |
|       rare nor well-done." - Ernie Kovacs                          |
|                                                                    |
| Randy Hall WA2AGE  randyh@gvgadg.gvg.tek.com   Grass Valley Products|
----------------------------------------------------------------------
```

---

561. Re: [APRSSIG:7641] Re: Error Condition Re: UNSUBSCRIBE!

From: TOM DONALDSON <TOMD@IQUEST.NET>
Date: Mon, 18 Mar 1996 19:51:24 -0500
To: aprssig@tapr.org
Cc: TOMD@IQUEST.NET
Message-ID: <314E050C.1116@IQUEST.NET>
Rendered body type: text/plain

```
TOM DONALDSON wrote:
>
> aprssig@tapr.org wrote:
> >
> > We are sorry, but this system sensed the following request which may have been
> > inadvertedly sent to this list:
> >
> > UNSUBSCRIBE   UNSUBSCRIBE
> >
> > If your posting was intentional, please accept our apologies and resend your
> > mail message, making sure you do not include anything that may look like a
> > request in the first line of the body of the actual message. If this was
> > indeed a request please resend it to listproc@tapr.org
> > Your entire message
> > is copied below.
> >
> > ------------------------------------------------------------------------------
> > UNSUBSCRIBE   UNSUBSCRIBE  UNSUBSCRIBEyes this was intentially sent    please unsubscribe!
tomd@iquest.net
please unsubscribe me ive had enough!
```

---

562. Re: [APRSSIG:7700] On the Road with APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 20:00:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960318195357.16609B@greatlakes>
Rendered body type: text/plain

On Mon, 18 Mar 1996, Mike Musick wrote:

> Or, rather, "How I Spent My Summer Vacation" [with APRS]>
>
> ..... The main problem with this [older maps and maplist]
> was that in some cases we'd be only halfway across a state and then the
> auto-track would switch to the next state, leaving me with a blank map.

APR REPLY: I find with the GO-HOME command or the GO-MAPS-UP/DN commands
that I can recenter my self at any time, so the AUTOTRACK does not have
to be on.... Just a tip...

> In KC we encountered an HF gate; initially I thought that we were getting all
> sorts of local activity. Only on stopping and reviewing the position list did I
> realize that most of the stations seen were coming through the gate. I don't
> mean to add to the GATE firestorm, and it's certainly fun to watch gate stuff
> at home, but gated HF traffic seems to clutter the various lists when you're a
> VHF mobile or trying to track one.

APR REPLY: Set CONTROLS-FILTERS-GATE to ON to solve this problem, hi hi

```
>
> Speaking of clutter, HSP makes a mess out of the [V]iew window, and was
> scrolling packet stuff off with the GPS NMEA stream. Any way to filter
> out the NMEA from the [V]iew on a GPS inquiry?

APR REPLY:  Good idea.

> One wishlist item, though: the one (and only) issue that made starting
> APRS a pain was setting the auto-track on my own station.

WB4APR REPLY COMMENT: Good feedback.  I suppose I could save the TRACKED
station in the config file...
```

---

563. Re: [APRSSIG:7702] WinAPRS

From: Marvin Munster x85388 <mmunster@qualcomm.com>
Date: Mon, 18 Mar 1996 17:07:39 -0800
To: aprssig@tapr.org
Message-ID: <199603190108.RAA00670@illyana.qualcomm.com>
Rendered body type: text/plain

```
No. No.  Reply to the SIG.  I also would like to know.
Marvin.

At 03:34 PM 3/18/96 -0600, you wrote:
>Somewhere I've lost out... I remember seeing information on the WinAPRS or
>APRSWIN or whatever it's called, moving to a separate area and I tried to
>subscribe and got some sort of error which I corrected (I thought) but have
>not seen anything since.
>
>The last word I got was that it didn't work with 3.11
>Is this true?  If so will it ever and when?
>You can reply via direct E-mail so as to not tie up the sig, and I don't need
>any SMART reply like "RTFM"
>Bud
>wb4ltf@aol.com
>
>
>
```

---

564. Re: [APRSSIG:7567] WinWeather

From: Shayn Raney <navajo@navajo.bayarea.net>
Date: Mon, 18 Mar 1996 17:20:08 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199603190120.RAA00801@navajo.bayarea.net>
Rendered body type: text/plain

```
>
> Attn: Bill/KE4EER,                              Filed: 141541GMT MAR 96
>
>   Your Weather message on WinWeather program, which you say is the greatest.
> Please advise where, we can locate and download same.
>   Am interested in weather and would like to give it a try also. Assume its
> free, share, or a no coast program. Thanks for advice.
>
>    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
> NNNN
> WBB/WB6LPG
>

        If you ever recieve some info in this. Id love to get it.. Thanks

                - Shayn
```

---

565. Re: [APRSSIG:7710] Re: GOLF TRACKING SYSTEM

From: jneely@eden.com (Jim Neely)
Date: Mon, 18 Mar 96 19:44:02 EST
To: aprssig@tapr.org
Message-ID: <199603190144.TAA01321@matrix.eden.com>
Rendered body type: text/plain

I worked on a project last year for a company that has patented a method of using DGPS to track the golf carts.

I thought it was too expensive to be useful, but their argument was that on the high dollar golf courses, if you speed up play enough to get just one or two additional rounds a day, the installation pays for itself in short order. It must be a good selling point, since they are selling the system. (I don't think they have quit the day jobs yet, though.).

```
They also were planning to put PDA's on the carts to allow the golfers to order beer and sandwiches.
The wait person would be able to take the order to the current position of the cart.

jn



On Mon, 18 Mar 1996 18:07:23 -0600 (CST) you wrote:

>I heard about this Gold Cart tracking system last week from a co-worker who is
>also on APRS. He saw the show and it is located in of all places right here in
>Palm Beach County, I think West Palm to be exact.
>
>Sounds like a great but expensive idea but one person bought it, I am sure
>others will be more receptive now. I am interested in tracking the OEM down
>myself since we are in the 2-way business and I am sure my boss would love to
>get into it, he is a GPS buff himself.
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
>
>
Jim Neely
jneely@eden.com WA5LHS@tapr.org
```

---

566. WO-18 Position tracking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Mar 1996 21:55:42 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960318214437.16896C-100000@greatlakes>
Rendered body type: text/plain

```
Today I got my PSK-1 modem hooked up, and sure enough, WO-18 digipeated
my test posits...

In the next day or so, I will be transmitting POSITS from the roof mount
mobile whip on my car via WO-18.  I will be using a modified version of
APRtrak that will control my uplinks during WO-18 passes.  If you
want to play hide and seek and see where I am, tune in to east coast passes.
If you tune in WO-18 and use APRtrak, you may see me mobile (or parked)....
on your map.       [If this all works, or course...]

Pse QSL.  Tnx, de WB4APR.
```

---

567. Re: [APRSSIG:7692] GOLF TRACKING SYSTEM

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 18 Mar 1996 20:59:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603190259.UAA19190@solar.cs.tamu.edu>
Rendered body type: text/plain

```
There are _5_ golf courses, from what I hear... Don't know exactly where,
though.  Pro Shot has had a few problems makingthe system work out.

Oh, Pro Shot is looking (via an add in GPS WORLD) for a new CEO, with a
technology and managerial background, forward thinker, etc...

73, gerry
```

---

568. Re: [APRSSIG:7717] WO-18 Position tracking

From: rwf <rwf@mindspring.com>
Date: Mon, 18 Mar 1996 22:55:09 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960318225512.360ff766@mindspring.com>
Rendered body type: text/plain

```
At 09:10 PM 3/18/96 -0600, Bob B. wrote:

>In the next day or so, I will be transmitting POSITS from the roof mount
>mobile whip on my car via WO-18.

Its GOTTA work better than your 1 watt tracker did down here in de South!    ;)
You may have to bring it this Christmas!

>
```

569. Re: [APRSSIG:7628] APRS coordination in AZ

From: ku0g@sprynet.com
Date: Mon, 18 Mar 1996 20:24:56 -0800
To: aprssig@tapr.org
Message-ID: <199603190424.UAA25364@sprynet.com>
Rendered body type: text/plain

This issue of the ARCA trying to convince the coordinators of the states where 145.79 is already coordinated to APRS really stinks, folks! Some of us went to a LOT of trouble to get coordination and I, for one, don't want to see MY efforts be undermined by someone in another state! What are we going to do about this?

I agree that the 10 kHz deviation is a valid concern, but there are darned few radios that I've ever seen on packet that ever exceed 6 kHz at WORST! I think there's more to it than this "problem."

Who/what is ARCA, by the way? Who gave them the authority to tell us where, when, what to operate? I thought that coordination was a VOLUNTARY cooperative venture..

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

570. Re: [APRSSIG:7700] On the Road with APRS

From: ku0g@sprynet.com
Date: Mon, 18 Mar 1996 20:47:11 -0800
To: aprssig@tapr.org
Message-ID: <199603190447.UAA28375@sprynet.com>
Rendered body type: text/plain

Mike's trip with APRS brought to mind my own "first mobile" experience in 1995 and I wanted to add a few remarks from my experience....

Mike noted his disappointment with the lack of activity in the OKC area. My particular trip (April '95) took me across Missouri on U.S. 36 and Illinois to Springfield. I didn't expect to find anyone on in northern MO, but I was even more surprised to find NOBODY in Illinois! I was, of course, heading for an APRS demonstration to the Quad Cities ham club after a brief stop-over in Springfield for the Gulf Mobile and Ohio RR Historical Society's Spring swapfest (I'm one of those RR nuts that runs APRS, too!)

On leaving SPG I headed north to Peoria, grabbed I-74 and ran on through Galesburg and into Davenport/Moline. The first activity I saw for the whole weekend was when I got within about 20 miles of MOL. My return trip home took me on I-80 to DSM then south on I-35 to MKC. Iowa was MUCH better once I got closer to DSM then I had fairly good coverage and posits almost all the way south into MO (thanks to N0BKB and his efforts!).

What's the point? Well, I'd like to suggest that we may wish to consider putting our heads together and gather a COMPLETE list of all active APRS digipeaters and gateways in the US and Canada and then hard-code them as labels with PHG circles, etc. Why? The purpose would be to provide a VISUAL directory of the APRS Network (note capitalization!) that all APRS users could bring up in short order.

NOTE TO BOB: The ONLY way to make it work on ONE map would be to greatly increase the number of labels available in one map to something much larger than the current 150... Otherwise, I suppose it could be done according to call area, regions or some other logical division of the continent!

I'll volunteer to gather the information and try to keep it updated. I'll even take some of the current regional level maps and add the labeling, too!

What do you all think?

The other purpose of my little oration is this: We seem to have a goodly number of groups in metropolitan areas now active. How many of these groups are working in conjunction with each other to put up intermediate digipeaters to cover major highways/interstates between them? We're doing it here in Kansas City and Iowa and we've at least fielded the idea to groups in Jefferson City and St. Louis (MO) and to a new group getting started in the Topeka/Manhattan (KS) area. We hope to get I-35, I-70 and I-29 covered in Missouri and eastern Kansas within the next six months!

Comments????? Please try to keep them civil (if that's still possible on the sig) because my asbestos suit has been confiscated by OSHA for abatement!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

571. Re: [APRSSIG:7702] WinAPRS

From: ku0g@sprynet.com
Date: Mon, 18 Mar 1996 20:49:12 -0800
To: aprssig@tapr.org
Message-ID: <199603190449.UAA28591@sprynet.com>
Rendered body type: text/plain

Do this:

Send EMail to listserv@tapr.org.
Leave subject blank.
In the text simply enter: SUBSCRIBE WinAPRS

That's all there is to it....

(Now aren't you guys proud o' me?)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

572. Re: [APRSSIG:7708] Re: APRS coordination in AZ

From: ku0g@sprynet.com
Date: Mon, 18 Mar 1996 20:57:02 -0800
To: aprssig@tapr.org
Message-ID: <199603190457.UAA29644@sprynet.com>
Rendered body type: text/plain

On Mon, 18 Mar 1996, Peter Laws <plaws@babo.uark.edu> wrote:
>On Sat, 16 Mar 1996, Chris Terwilliger wrote:
>
>> In response to my request for coordinating a digipeater on 145.79,
>> Arizona's coordinating body, ARCA, has refused to coordinate APRS
>> on that frequency. Their concern is interference with space shuttle
>
>I spoke to the Arkansas coordinator and he objected on the same grounds.
>As an avid shuttle/MIR/Amsat enthusiast myself, I'll have to concur.
>
>What is a good second choice for APRS? He seemed willing to coordiante a
>frequency statewide ...
>
>
>Peter Laws<plaws@comp.uark.edu>|"I'd rather get cable TV from the phone company
>n5uwy@ka5bml.#nwar.ar.usa.noam |than phone service from the cable company"-unk.
>
Without trying to start a controversy.....Would it be possible to relocate
<shudderus maximus> to 145.77, or even to the CANADIAN frequency (I'm not sure
whether we could get away with packet there in the U.S, though...)? Even moving
down 20 kHz would surely eliminate any objections from coordinators from
possible interference to the satellite sub-band... I know that a lot of people
may have crystalled rigs running digis and a lot of others are already
rock-bound on the single channel rigs, but if it means getting coordinated
NATIONALLY/CONTINENTALLY, wouldn't it be a good investment to buy new
crystals??? I'm certainly willing to do my part....

(Thinking now that perhaps I'd better call OSHA and see if I can put off that
asbestos abatement for my flame-proof suit for a while!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

573. Re: [APRSSIG:7715] Re: WinWeather

From: William Nolle <ke4eer@hiwaay.net>
Date: Mon, 18 Mar 1996 23:15:18 -0800
To: aprssig@tapr.org
Message-ID: <314E5F06.320E@hiwaay.net>
Rendered body type: text/plain

```
Shayn Raney wrote:
>
> >
> > Attn: Bill/KE4EER,                              Filed: 141541GMT MAR 96
> >
> >   Your Weather message on WinWeather program, which you say is the greatest.
> > Please advise where, we can locate and download same.
> >   Am interested in weather and would like to give it a try also. Assume its
> > free, share, or a no coast program. Thanks for advice.

-----------------

I must have posted this 5 times already to the same person, here it is
again.

ftp://igsnet.com/pub1/igs/win/

Hope you get it this time...

Bill KE4EER
```

---

574. Re: [APRSSIG:7720] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 18 Mar 1996 23:40:15 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603190540.XAA21833@solar.cs.tamu.edu>
Rendered body type: text/plain

```
ku0g@sprynet.com sez:
>
> This issue of the ARCA trying to convince the coordinators of the states where
> 145.79 is already coordinated to APRS really stinks, folks!  Some of us went to
> a LOT of trouble to get coordination and I, for one, don't want to see MY
> efforts be undermined by someone in another state!  What are we going to do
> about this?

ONCE AGAIN!  I've seen no effort by any coordination group to get any other
group(s) to change recognition of APRS where it is already so recognized.
Nor, I might add, any attempt to discourage any group from so recognizing APRS
on a region-by-region basis where such activity is amenable to other users.
In other words, business as usual.

> I agree that the 10 kHz deviation is a valid concern, but there are darned few
> radios that I've ever seen on packet that ever exceed 6 kHz at WORST!  I think
> there's more to it than this "problem."

I really hate to tell you, but I have observed radios much worse than 6 khz.
And worse than 10 khz.

> Who/what is ARCA, by the way?  Who gave them the authority to tell us where,
> when, what to operate?  I thought that coordination was a VOLUNTARY cooperative
> venture..

Beats me.  Who are you?  Coordination, while legally still voluntary, started
taking on the form of a "mandatory" participation over 20 years ago in the
repeater circles.  Today, the FCC looks for coordinated versus uncoordinated,
when resolving disputes and interference claims.  If a packet activity happens
to encroache on a recognized, band-planned occupant, and the FCC checks with
your local frequency coordinator, the uncoordinated activity will receive a
notice to cease and desist.

Why, oh, why are we still hearing this?  If you have received some form of
coordination or recognistion by your frequency coordinating agency or body,
rest easy.  If you have not, and you're receiving no response, then you've
possibly got something to worry about.  If you got a response, and it is not
what you'd hoped for, talk to the coordinator, and work with 'em to see if
there's a middle-ground that can be met.If you're whining without even having
talked to 'em, then stop wining.  I've heard enough.

For the record, there are several of us active on an internet correspondence
of coordinators.  We are, nominally, on your side.  A lot of the whining about
coordination issues to do with APRS manages to get from this SIG to that list.
It sure doesn't make MY life easier with those guys to try to defend silly
attacks by folks who don't, apparently, know what goes into coordination.

Gerry
(tired, and probably showing it.)
```

575. Re: [APRSSIG:7723] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 18 Mar 1996 23:44:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603190544.XAA21899@solar.cs.tamu.edu>
Rendered body type: text/plain

```
ku0g@sprynet.com sez:
>
> Without trying to start a controversy.....Would it be possible to relocate
> <shudderus maximus> to 145.77, or even to the CANADIAN frequency (I'm not sure
> whether we could get away with packet there in the U.S, though...)?  Even moving
> down 20 kHz would surely eliminate any objections from coordinators from
> possible interference to the satellite sub-band...  I know that a lot of people
> may have crystalled rigs running digis and a lot of others are already
> rock-bound on the single channel rigs, but if it means getting coordinated
> NATIONALLY/CONTINENTALLY, wouldn't it be a good investment to buy new
> crystals???  I'm certainly willing to do my part....

About 6 months ago, we had to call in water tankers to put out the flamewar
that erupted over the sudden recognition that AMSAT was, indeed, planning to
use the manned space subband that has been recognized for years.

Getting a nationwide frequency on 2 meters is *NOT* going to happen
gracefully.  Probably not at all.  And, geting all those rock-bound digi's
changed is non-trivial, either in actual tuning and hardware pain, financial
burden, or in getting Marden or International to make the rocks within our
lives.

> (Thinking now that perhaps I'd better call OSHA and see if I can put off that
> asbestos abatement for my flame-proof suit for a while!)

You might want to see about getting some redundant disk space:  A lot of this
has preceeded your flamage.

Gerry
n5jxs@tamu.edu
```

---

576. Buffer overflow errors

From: "Donnie J. Murray" <james-m@ix.netcom.com>
Date: Mon, 18 Mar 1996 23:23:26 -0500
To: aprssig@tapr.org
Message-ID: <314E36BE.5F38@ix.netcom.com>
Rendered body type: text/plain

```
Has anyone else had a problem with a Buffer overflow error when using
ARPR75a and the U2000 WX station. I am new to all this, and may be doing
something wrong, I have had it to happen several times, most especially
when I go into the operations/comm/Tnc to change a TNC setting..

Tnx for any replys
Don
AE4BR
```

---

577. Re: [APRSSIG:7723] Re: APRS coordination in AZ

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 19 Mar 96 02:28:44 -0500
To: <aprssig@tapr.org>
Message-ID: <199603190726.CAA24031@newworld.bridge.net>
Rendered body type: text/plain

```
>Without trying to start a controversy.....Would it be possible to relocate
><shudderus maximus> to 145.77, or even to the CANADIAN frequency (I'm not
>sure
>whether we could get away with packet there in the U.S, though...)?  Even
>moving
>down 20 kHz would surely eliminate any objections from coordinators from
>possible interference to the satellite sub-band...  I know that a lot of
>people
>may have crystalled rigs running digis and a lot of others are already
>rock-bound on the single channel rigs, but if it means getting coordinated
>NATIONALLY/CONTINENTALLY, wouldn't it be a good investment to buy new
>crystals???  I'm certainly willing to do my part....
>
Given the state of two meter frequency coordination in this country, I'd
say there would never be a single frequency that even half the country
would coordinate to APRS. The whole issue is extremely political. It
seemingly has less to do with appropriate use of the resource than with
getting and holding 'turf'. My personal opinion is to leave things as
```

they are. Most of the active LANs already are on a single frequency, and over time more will be able to come onto .79. I agree wholeheartedly that we do need to get a single frequency for 440 MHz before it is too late, grabbing a 1.2 GHz freq would be a good idea while we are at it.

As far as the space ops are concerned, I suspect they will move up in frequency once it gets operational. 145.79 is so crowded with stations they will experience too much QRM for it to be very useful while over the US, even with Bob's minimize command. The stated reason for using 145.800 (which places half the transmitted signal outside the satellite band recognized by the IARU) is to minimize QRM to the beacon from AO-13. Since that sat will hit the atmosphere all too soon, there will be room to move up. In any event, the QRM _to_ any APRS LAN will be minimal, a few minutes at a time serval times a day.

---

578. Re: [APRSSIG:7720] Re: APRS coordination in AZ

From: sparkfel@primenet.com (Mark Fellhauer)
Date: Tue, 19 Mar 1996 01:02:13 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199603190802.BAA14407@usr5.primenet.com>
Rendered body type: text/plain

At 10:35 PM 3/18/96 -0600, ku0g@sprynet.com wrote:
>
>Who/what is ARCA, by the way? Who gave them the authority to tell us where,
>when, what to operate? I thought that coordination was a VOLUNTARY
cooperative
>venture..
>

ARCA -- Amateur Radio Council of Arizona

The majority of Ham Clubs in Arizona are affiliated with ARCA. They are the recognized coordinating body in the state of Arizona. All-in-all, they do a pretty good job.

If you have a beef contact:

Ralph S. Turk, W7HSG
Chairman, ARCA Frequency Coordination Committee
5232 W. Calle Paint
Tucson, AZ 85741
(520) 623-1511 (w)
(520) 620-1309 (fax)

I believe Mr. Turk has a e-mail address, but it escapes me for now.

Dan Meredith, N7MRP, is the ARCA packet coordination committee chair, as well as being the Director of the Arizona Network Intertie Group. Dan is a good guy, who's gone out of his way to facilitate APRS. I would also like to mention George Poland (W8KFC?), who is the most vocal proponent of APRS in AZ, and Jerry Wyatt (N7QVU) who runs the APRS BBS in Phoenix.

We also have the Phoenix Packet Users Group, PUG, which has no dues, no by-laws, and no officers. We only have one rule: Buy your own breakfast (unless you want to buy Barney, KB7KOE, breakfast).

Arizona has many strong inter-club affiliations, with many people belonging to two or more clubs at a time.

Several Clubs share a newsletter. ADAW -- Arizona Desert Airwaves.

ADAW members:

Arizona ARC
Scottsdale ARC
Mingus Mountain Repeater Group
Central AZ DX Assoc.
TriCity ARC
Arizona Network Intertie Group
ThunderBird ARC
Ahwatukee Foothills ARC

Hope that helps. If you have any more ?'s about Arizona Ham Stuff let me know.

73,

Mark Fellhauer - KC7BXS
ThunderBird ARC Packet Coordinator

sparkfel@primenet.com

---

579. Re: [APRSSIG:7720] Re: APRS coordination in AZ

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 19 Mar 1996 06:44:37 -0800
To: aprssig@tapr.org
Message-ID: <314EC855.5F5@hiwaay.net>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> This issue of the ARCA trying to convince the coordinators of the states where
> 145.79 is already coordinated to APRS really stinks, folks!  Some of us went to
> a LOT of trouble to get coordination and I, for one, don't want to see MY
> efforts be undermined by someone in another state!  What are we going to do
> about this?
>
> I agree that the 10 kHz deviation is a valid concern, but there are darned few
> radios that I've ever seen on packet that ever exceed 6 kHz at WORST!  I think
> there's more to it than this "problem."
>
> Who/what is ARCA, by the way?  Who gave them the authority to tell us where,
> when, what to operate?  I thought that coordination was a VOLUNTARY cooperative
> venture..
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

--------------------------
Actually (May get some flack again) read the rules for coordination as far
as the FCC is concerned. What you can do is gather all of your APRS users
together and have an election for a coordinator. Once a coordinator is
elected you attempt to work with the current so called coordination body
and if they are still hardheaded then just park yourself on that frequency
and call it a coordinated APRS freq. If you read the rules this is
perfectly legal. I did this here in North Alabama and the Alabama
frequency coordination group finally aggreed to grant the coordination
rather then fight a group of APRS users right to excersizing their own
coordinator. Ok fire away guys....

Bill KE4EER
```

---

580. Re: [APRSSIG:7725] Re: APRS coordination in AZ

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 19 Mar 1996 07:04:11 -0800
To: aprssig@tapr.org
Message-ID: <314ECCEB.5579@hiwaay.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
> Why, oh, why are we still hearing this?  If you have received some form of
> coordination or recognistion by your frequency coordinating agency or body,
> rest easy.  If you have not, and you're receiving no response, then you've
> possibly got something to worry about.  If you got a response, and it is not
> what you'd hoped for, talk to the coordinator, and work with 'em to see if
> there's a middle-ground that can be met.If you're whining without even having
> talked to 'em, then stop wining.  I've heard enough.
>
> For the record, there are several of us active on an internet correspondence
> of coordinators.  We are, nominally, on your side.  A lot of the whining about
> coordination issues to do with APRS manages to get from this SIG to that list.
> It sure doesn't make MY life easier with those guys to try to defend silly
> attacks by folks who don't, apparently, know what goes into coordination.
>
> Gerry
> (tired, and probably showing it.)

-----------------------------------------

I have to totally disaggree with this bull about coordinators beeing on the
side of a person trying to coordinate an APRS frequency. As a good example off
our friendly coordination council. I watched a Packet message scroll by my
screen one night on our local very unused 9600 Baud digi between the local
packet system BBS system administrator and the sysop. By the way the system
administrator was also the coordinator for packet activity. Anyway the sysop
stated to him that he needed 3 additional frequencies coordinated, and making
the story as short as possible. The coordinator stated to the sysop, no problem
```

you've got them. So like i stated before read the FCC rules for coordination!!.
I have to aggree with the person stating WHO ARE THEY....

Bill KE4EER

---

581. Re: [APRSSIG:7727] Buffer overflow errors

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 19 Mar 1996 07:08:54 -0800
To: aprssig@tapr.org
Message-ID: <314ECE06.437@hiwaay.net>
Rendered body type: text/plain

Donnie J. Murray wrote:
>
> Has anyone else had a problem with a Buffer overflow error when using
> ARPR75a and the U2000 WX station. I am new to all this, and may be doing
> something wrong, I have had it to happen several times, most especially
> when I go into the operations/comm/Tnc to change a TNC setting..
>
> Tnx for any replys
> Don
> AE4BR

This is strange because i always used to get this with 74e, but since
switching to 75a and don't have that problem anymore. Altough this may
be a PC system problem i don't know. To run 75 or 75a i'm having to boot
from a system disk since i don't seem to have enough of my 640 left to
run these anymore.

Bill KE4EER

---

582. Re: [APRSSIG:7713] Re: On the Road with APRS

From: jack swift <jswift@up.net>
Date: Tue, 19 Mar 1996 08:49:07 -0500
To: aprssig@tapr.org
Message-ID: <9603191354.AA15902@btc1>
Rendered body type: text/plain

i do this sort of thing regularily as i travel arount the UP... although we
don't have many digipeaters available, i run HSP almost all the time. to
have room for the assorted equipment and antennas and cables, i usually use
my minnie-winnie.... i use the 'official' molex power connectors and have
lots of 'extrensions' and 'adapters', the most important one being a
'splitter' -- single male and two or three females. i have found that you
can wrap some velcro around the power cable adn then it sticks to the strip
of velcro on top of the dash or the equipment... i have so much velcro on
things that i had to develop a standard! -- hooks on top, loops on the
bottom. NOTHING SLIDES!!!

i also have noticed the constant streaming gps data problem, but thought
that the problem was that my timing was snafued. it seems that the gps is
gated into the computer for 7 seconds and then the tnc is gated for 2
seconds. i was fearful of losing the tnc data till i realized that the tnc
data was buffered..... however, it makes it very slow changing screens on
my dell 386-20 mono laptop!

The 'which maplist to use' is a problem that i ran into on my last wander to
St. Louis.. i had some great illinois maps in a separate maplist -- and
didn't remember until i was in the middle of a blinding rainstorm with 65mph
trucks on both sides and a blank map screen. i recommend pulling over to the
roadside when 'adjusting' aprs!!! if i had been more prepared, i would have
prepared a "maplist.now" containing all the necessary maps. of course, then
i would have had to learn how to prepare a maplist file that would work --
so far the docs haven't helped me integrate a single map into a regular
maplist so that it shows up when it should. i probably just need to study it
lots more!

in regard to the config file, i'd like to be able to start up the software
(after a lunch break on the road) and have all (ALL!) the settings be where
they were when i left them when i quit APRS. i have gotten accustomed to
which commands i always have to issue on startup, but it'd be nice to have
them saved (maps-features-xxx).

as another whimper, i noticed that when the data in a screen region changes,
the new data doesn't always completely overwrite the old data (i often see
"ing" in the upper right corner left from the word "drawing" when the data
changes). and if i update my position and change the comments, i have to
make sure that the new comments completely cover the old ones (blanks don't

```
count)....


as an aside, i think i will be making a trip down us141, (green Bay, WI)
i43, I94, (Chicago), (Kalamazoo, MI) on Friday 3/22 and return Sunday
3/24.... Unless otherwise notified, i will assume that everyone in radio
(digi) range is using 145.79.....  however, even if there are no station
heard and none of you hear me, having "MY" dot move along the map is
great!!!!!  i'd get the software even if i wasn't a ham because it's great
to see your position on a map while driving!!!

GREAT JOB, BOB!!!  my comments about 'problems' are not complaints, just
whimpering... if you want to see a real complaint, try taking the software
away from me!





At 07:08 PM EST 3/18/96 -0600, Bob Bruninga wrote:
>On Mon, 18 Mar 1996, Mike Musick wrote:
>
>> Or, rather, "How I Spent My Summer Vacation"  [with APRS]>
>>
>> ..... The main problem with this [older maps and maplist]
>> was that in some cases we'd be only halfway across a state and then the
>> auto-track would switch to the next state, leaving me with a blank map.
>
>APR REPLY:  I find with the GO-HOME command or the GO-MAPS-UP/DN commands
>that I can recenter my self at any time, so the AUTOTRACK does not have
>to be on....  Just a tip...
>
>> In KC we encountered an HF gate; initially I thought that we were getting all
>> sorts of local activity. Only on stopping and reviewing the position list
did I
>> realize that most of the stations seen were coming through the gate. I don't
>> mean to add to the GATE firestorm, and it's certainly fun to watch gate stuff
>> at home, but gated HF traffic seems to clutter the various lists when
you're a
>> VHF mobile or trying to track one.
>
>APR REPLY:  Set CONTROLS-FILTERS-GATE to ON to solve this problem, hi hi
>>
>> Speaking of clutter, HSP makes a mess out of the [V]iew window, and was
>> scrolling packet stuff off with the GPS NMEA stream. Any way to filter
>> out the NMEA from the [V]iew on a GPS inquiry?
>
>APR REPLY:  Good idea.
>
>> One wishlist item, though: the one (and only) issue that made starting
>> APRS a pain was setting the auto-track on my own station.
>
>WB4APR REPLY COMMENT: Good feedback.  I suppose I could save the TRACKED
>station in the config file...
>
>
>
>
>
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

583. Re: [APRSSIG:7702] WinAPRS

From: sproul@ap.org (Mark Sproul)
Date: Tue, 19 Mar 1996 09:14:02 -0500
To: aprssig@tapr.org
Cc: wb4ltf@aol.com
Message-ID: <v02130500ad74710c3bfe@[165.1.27.20]>
Rendered body type: text/plain

```
>Somewhere I've lost out... I remember seeing information on the WinAPRS or
>APRSWIN or whatever it's called, moving to a separate area and I tried to
>subscribe and got some sort of error which I corrected (I thought) but have
>not seen anything since.
```

>
>The last word I got was that it didn't work with 3.11
>Is this true? If so will it ever and when?
>You can reply via direct E-mail so as to not tie up the sig, and I don't need
>any SMART reply like "RTFM"
>Bud
>wb4ltf@aol.com

WinAPRS Ver 0.2.6 was released yesterday, the announcment was made to the
WINAPRS mailing list.

It still does not work with Win3.1, The program runs properly but the
serial I/O still does not work. This is a high priority but I just cant
get it to work yet (problems with the DLL I have to write).

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |AppleLink:     Sproul.M
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

584. Re: [APRSSIG:7721] Re: On the Road with APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 09:34:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960319092950.21471B-100000@greatlakes>
Rendered body type: text/plain

On Mon, 18 Mar 1996 ku0g@sprynet.com wrote:

> [For Travelers...] Well, I'd like to suggest that we may wish to consider
> putting our heads together and gather a COMPLETE list of all active APRS
> digipeaters and gateways in the US and Canada.....

WB4APR REPLY COMMENT: Nothing personal, hi hi, but where have you been?
Once a month I put out a message asking folks to update DIGIEAST.bk and
DIGIWEST.bk At any instant you can do a FILE-REPLAY-DIGIEAST.BK and see
where EVERY reported digipeater is... IN THE WORLD...

Only one person has sent in a new digi in the last 6 months!

585. Re: [APRSSIG:7725] Re: APRS coordination in AZ

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Tue, 19 Mar 1996 08:34:57 -0600
To: aprssig@tapr.org
Message-ID: <9603191434.AA13397@omnifest.uwm.edu>
Rendered body type: text/plain

Gerry said:
For the record, there are several of us active on an internet correspondence
of coordinators. We are, nominally, on your side. A lot of the whining about
coordination issues to do with APRS manages to get from this SIG to that list.
It sure doesn't make MY life easier with those guys to try to defend silly
attacks by folks who don't, apparently, know what goes into coordination.

I am one of the "leakers". As the Frequency coordinator for Wisconsin I
would like VERY MUCH to find a nation-wide 2m APRS frequency. I can not
do it alone. MY point of view is that if we (the coordinators) do not
agressively try to solve problems such as this one - it will just snowball
and then we'll really have a mess. MOST of the coordinators don't have any
idea of the quantity of APRS activity - nor how it is growing. I've
been passing some of the messages over their remailer to educate them.
MY group, Wisconsin Association of Repeaters (WAR) does not coordinate
packet frequencies WAPR does that but I haven't seen anything from them
on the subject.

Dave Barrow
dbarrow@omnifest.uwm.edu

586. Re: [APRSSIG:7723] Re: APRS coordination in AZ

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 09:43:40 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.960319093508.21471D-100000@greatlakes>
Rendered body type: text/plain

```
On Mon, 18 Mar 1996 ku0g@sprynet.com wrote:

> Without trying to start a controversy.....Would it be possible to relocate
> <shudderus maximus> to XXXXX, or even to the CANADIAN frequency
> whether we could get away with packet there in the U.S, though...)?

WB4APR REPLY COMMENT:  In my opinion, if you cannot get 145.79, then the
only alternative is down 5 KHz to 145.785.  That provides almost 20 KHz
separation from the SPACE frequency during Aquisition and gives 15 KHz
separation to existing users on 145.77.  But you will be waking a
sleeping "tiger" in the form of Buck ROgers, the editor of the Packet
Perspective column in CQ magazine..  who "manages" 17 nodes throughtout
the south on 145.77....  and adamantly will not accept a 15 khz neighbor.
```

---

587. Re: [APRSSIG:7727] Buffer overflow errors

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 09:48:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960319094642.21471E@greatlakes>
Rendered body type: text/plain

```
On Tue, 19 Mar 1996, Donnie J. Murray wrote:

> Has anyone else had a problem with a Buffer overflow error when using
> ARPR75a and the U2000 WX station. I am new to all this, and may be doing
> something wrong, I have had it to happen several times, most especially
> when I go into the operations/comm/Tnc to change a TNC setting..

WB4APR REPLY COMMENT:  Yes a known problem with PC's with the new
buffered UARTS.  Suggestions have been using setup to disable the
hardware FIFO buffers... or use an old serial card.....
```

---

588. Re: [APRSSIG:7730] Re: APRS coordination in AZ

From: ku0g@sprynet.com
Date: Tue, 19 Mar 1996 07:07:37 -0800
To: aprssig@tapr.org
Message-ID: <199603191507.HAA26680@sprynet.com>
Rendered body type: text/plain

```
While, I'd (personally) prefer to deal with the established coordination system
and work out compromises, Bill probably has a pretty good handle on the
situation in Alabama and his idea appears, at first glance, to be a logical
approach! (GAWD!  Did >I< say that?!?!?)

As I said in a private to Bill, with the use of APRS now experiencing a growth
spurt similar to the same growth that packet had about 10 years ago, it's
probably going to become a moot issue in the next year or two when everybody in
the US on APRS occupies 145.79!  It also seems to me that one of the motivating
factors might possibly be the flack that gets generated from the AMSAT SIG every
time somebody thinks that we're going to start digipeating through MIR, OSCAR,
etc!!!  You've all seen it, too!

There's even been flack over the new WeberSat digi usage and it's been given a
blessing!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

589. Re: GPS for landing

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Tue, 19 Mar 96 07:06:05 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <74@w6dnt.ampr.org>
Rendered body type: text/plain

```
BD> No such thing as a zero/zero landing.  Even Cat IIIa requires 600 feet
BD> visibility.  Being a pilot of 40 years or so, instrument rated etc
BD> with over 6000 hours heavy and  multiengine jet time, I can tell you
BD> that isn't much. Cat IIIa landings require full autopilot operational
BD> and engaged.  Cat II can be hand flown as long as all the nav
BD> equipment is operational (full redundant).  I have done that many
BD> times but never have had the opportunity to fly Cat III - hell, Cat II
BD> is scary enough for me.  I am retired now so I don't guess I'll get
BD> the chance except maybe in the simulator.
```

How about Heathrow, London? Don't they get below 600 feet visibility all the time? Closed down, i guess.

How does GPS determine altitude so accurately - good enough for landing with no hands? (Cat IIIa.) Transponders and DMEs are not accurate enough for that purpose. (about 1/10 mile accuracy.) I'd think they would need something like Laser: Laser Altimeter instead of Radar Altimeter. How does GPS determine altitude?

I used to repair (crew chief for United Airlines) stuff like INS (Delco Carousel inertial guidance,) DME, transponder, ACARS, Doppler radar, etc.. but nothing on GPS.

II Morrow refused to sell me the _technical_ reference manual. They would sell the "operational manual," which doesn't tell much about the innards workings. Where can I find out more about HOW the thing works? I'd like circuit description; block diagrams; theory of operation, etc.. Where can I buy them? [I've flown c152, c172, c186, Archer II - fair weather weekend warrior.]

```
  AL Chan
  """""""""""""""""""""""""""""""""""""""""""""
        AlChan@aol.com     Al@w6dnt.ampr.org

        37*38.2 N 122*23.6 W    very Light Driver
```

---

590. On the Road with APRS

From: Mike Musick <71301.3106@compuserve.com>
Date: 19 Mar 96 10:53:44 EST
To: <aprssig@tapr.org>
Message-ID: <960319155344_71301.3106_FHJ87-3@CompuServe.COM>
Rendered body type: text/plain

Bob noted:

>> auto-track would switch to the next state, leaving me with a blank map.
>
>APR REPLY: I find with the GO-HOME command or the GO-MAPS-UP/DN commands
>that I can recenter my self at any time, so the AUTOTRACK does not have
>to be on.... Just a tip...

Let me take this opportunity to thank you, Bob, for the surprisingly good operation in a hands-off mode. The map-switching issue (plus the startup thingie) was the only glitch in the works, and I think that's either solved or at least better in the newer maplists. It was my fault that I didn't "test drive" the route first.

However, "hands-off" is the main point here. It was a tough prospect to remember and key commands while tooling down the I-state at 75! About all that could be easily managed was single strokes for things like list viewing (and space bar for map updating was a godsend!). Occasionally I'd force an [X][P] report, but this was rare and only when I was seeing other APRS stations or I needed to see if the TNC went wacky.

I had the 200LX on top of the instrument cluster, and I left it folded down unless the map was needed or anticipated, or I was hearing station reports and wanted to see who was around. The map scale was never varied from 16-mile resolution. Autotrack was a must. Notable here was that [HOME], [END], [PAGE UP] and [PAGE DOWN] are two-finger shifted commands on the 200LX, which makes 'em impossible while driving.

Actually, that's a fairly important point for other compressed-keyboard PC's of my experience. These same "mass movement" keys are usually special shift functions in inconsistent locations, and never in the same convenient place as on regular desktop kb's.

...mike/N0QBF

---

591. On the Road with APRS

From: Mike Musick <71301.3106@compuserve.com>
Date: 19 Mar 96 10:53:34 EST
To: <aprssig@tapr.org>
Message-ID: <960319155333_71301.3106_FHJ87-2@CompuServe.COM>
Rendered body type: text/plain

Bob, N3OZB, writes -

<<I have visions of multiple power cords ... slowly strangling the people in

the front seat.>>

As did I. So I did a full-boat installation job expressly to prevent this problem. The TNC is attached to the radio (a Kenwood TM-251) and both reside in the space formerly occupied by the ashtray, using a bracket that I machined for the ashtray mounting points. Since the 251 has its data jack in the back, TNC-to-radio wiring is hidden. Power for both comes from the cig lighter leads, since that lived in the now-removed ashtray; those wires are also hidden.

Then I went overboard, and built a special patch/distribution panel that is permanently mounted in the dashboard fascia. It's attached to a wiring harness which interfaces the various elements, also hidden in the dash. The panel has receptacles for the GPS power/data cable (4-pin mic plug), the GPS antenna (SMA), my Doppler DF unit (8-pin mic plug), data cable for the HP (an 8-pin mini-DIN) and two 12VDC coaxial power jacks, one for the HP and the other as a spare. The GPS is mounted right next to the panel, and only has about 4" of leads to the panel, and the Doppler has only 6" of cable, too. The HP's data line (2 ft.) was made from 5-conductor ribbon cable, and I made a power cord from scratch out of #26 hookup wire, which I chucked into a hand drill to make twisted pair.

The sloppiest portion was the cables to the HP. Two feet was too much between the patch panel and the computer, which was attached with Velcro to the top of the instrument panel. So I had to fold-up the cables and tuck them under the Doppler head, also mounted with Velcro.

This all worked marvelously, though there was one receiver on the same 12VDC bus (an Icom R100, which I use with the Doppler) which didn't like sharing the power with the computer - there was a mild processor hash regardless of volume level. No amount of chokes and caps in the power leads of either the computer or the R100 would budge it. So for most of the trip I just ran the HP on the batteries and put its power cord away, which solved the hash problem *and* eliminated one too-long cable.

Eliminating the cig lighter created a problem with my wife, who wanted access to power for a couple of things she was bringing but was using infrequently. So I bought a single "add-on" accessory socket from RS and mounted it below the dash towards her side. Since it didn't need to supply cig lighter-level current, I just wired it into the same leads as the radio and TNC and let it go at that, adding a cap to hopefully reduce any hash her stuff might produce (a wise move, as it turned out). She was happy, it actually doesn't look too bad or tacky, and it never caused any problems with the radios.

Yes, I spent days putting all this together, but it certainly paid off in (mostly) trouble-free and non-aggravating operation during the trip.
  ...mike/N0QBF

---

592. GPS w/ PMap2

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Tue, 19 Mar 1996 09:34:19 MST-0700
To: aprssig@tapr.org
Message-ID: <A83A047513A@ceis.uhcolorado.edu>
Rendered body type: text/plain

Last Sunday our local EOSS group in association with the Air Force Academy launched another high altitude balloon from east of Colorado Springs. I was at my home station SSE of Denver tracking it using APRS. I was taking the GPS lat/long data from APRS and transferring it to my "office" computer running Just SoftWorks Precision Mapping 2.0 and DeLorme's Street Atlas USA version 2.0 CD's to advise the ground "fox" hunters of what roads were under the balloon, especially as it came down. PM2 had lat/long capability, but was poor on showing the county's dirt roads. SA2 showed the roads, but had no lat/long capability.

On monday I called both companies to see if updates were available.

DeLorme's Street Atlas USA version 3 now has lat/long and apparently can search by lat/long. I have ordered an update. They do not have a GPS interface for non commercial use. Their commercial version is EXPENSIVE!

The CD Precision Mapping 2.0 from Just SoftWorks, Inc. has always had a menu item GPS, but it was not functional. Just SoftWorks will have a version 3 out in about a month (???) with updated roads. More importantly, they will have a beta version of their GPS interface up on their WWW site

```
available for downloading in a month (???).  Their site is
http://www.justsoftworks.com.

Now if I could just afford a color notebook computer with a
CD!  APRS is great, but a CD is needed to show ALL the
roads in an area.

Have I missed something, is there a way to transfer the
data from the SA2 or PM2 CDs to APRS for a selected area?
For example a 50 or 75 mile radius around Colorado Springs, with
an extension out to Kansas if a balloon fails to cut down
it's package.


Art Smith
Facilities Engineer, Engineering Services
University Hospital, Denver, Colorado, USA
Voice - (303)270-3757  FAX - (303)270-4710
als@ceis.uhcolorado.edu
```

---

593. Re: coordination

From: jack swift <jswift@up.net>
Date: Tue, 19 Mar 1996 12:10:54 -0500
To: aprssig@tapr.org
Message-ID: <9603191716.AB18838@btc1>
Rendered body type: text/plain

```
<<<snipping done, not randomly...>>>

>>ku0g@sprynet.com wrote:
>> Who gave them the authority to tell us where,
>> when, what to operate?  I thought that coordination was a VOLUNTARY
cooperative
>> venture..
>William Nolle wrote:
> What you can do is gather all of your APRS users
>together and have an election for a coordinator.
>frequency coordination group finally aggreed to grant the coordination
>rather then fight a group of APRS users right to excersizing their own
>coordinator.
>

        Since some governments think we are a part of michigan (check the
map -- giggle), and others think we are in wisconsin (there are maps like
this, too), we had several frequency coordinators try to take us (the few of
us that there are) under their 'wing'. we 'politely' told them that we had
our own frequency coordinator elected by the UP Amateur Repeater Association
and a packet frequency coordinator elected by the UP Packet Association...
this doesn't mean that our coordinators are any less obstinate or that they
don't cooperate with all the other coordinators within radio range....

we just found that having a (relatively large) organized body of amateurs
willing to work within the (reasonable) system accomplished cooperative
coordination (and satisfied both the FCC spirit of the law and the
reasonable needs of the affected amateurs)....
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

594. Re: [APRSSIG:7734] Re: WinAPRS

From: "Kenneth J. Mirabella" <kjm@flo-bin.com>
Date: Tue, 19 Mar 1996 10:42:27 -0800
To: aprssig@tapr.org
Message-ID: <314F0013.65C3@flo-bin.com>
Rendered body type: text/plain

```
Mark Sproul wrote:
>
> >Somewhere I've lost out... I remember seeing information on the WinAPRS or
> >APRSWIN or whatever it's called, moving to a separate area and I tried to
> >subscribe and got some sort of error which I corrected (I thought) but have
> >not seen anything since.
> >
> >The last word I got was that it didn't work with 3.11
> >Is this true?  If so will it ever and when?
> >You can reply via direct E-mail so as to not tie up the sig, and I don't need
> >any SMART reply like "RTFM"
> >Bud
> >wb4ltf@aol.com
>
> WinAPRS Ver 0.2.6 was released yesterday, the announcment was made to the
> WINAPRS mailing list.
>
> It still does not work with Win3.1, The program runs properly but the
> serial I/O still does not work.  This is a high priority but I just cant
> get it to work yet (problems with the DLL I have to write).
>
> Mark
>
> ______________________________________________________________________________
> Mark Sproul                        |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |AppleLink:     Sproul.M
> sproul@ap.org                      |Work: 609-860-7120
> North Brunswick, NJ                |Fax:  609-860-7129
> http://msproul.rutgers.edu/
> ______________________________________________________________________________
Mark - I sent in my $50 to register for WinAPRS, I now see that their is
a mailing list, please subcrib for me or send instuctions.  I will
download your new version tonight.

Thanks for helping the Ham community.

KM6YH
```

---

595. Re: [APRSSIG:7741] On the Road with APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 16:11:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960319160858.1037B-100000@greatlakes>
Rendered body type: text/plain

```
On Tue, 19 Mar 1996, Mike Musick wrote:

> wanted to see who was around. The map scale was never varied from 16-mile
> resolution. Autotrack was a must. Notable here was that [HOME], [END], [PAGE
> UP] and [PAGE DOWN] are two-finger shifted commands on the 200LX, which makes
> 'em impossible while driving.

WB4APR REPLY COMMENT:  Watch my lips (er.. fingers, hi hi...)  USE MAPS-U
for page UP and MAPS-D for page down, and MAPS-G for "go"HOME....  These
are all single key OPS.  Nothing for END tho...
```

---

596. WO-18

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 17:02:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960319165717.1908C-100000@greatlakes>
Rendered body type: text/plain

```
Well, I listend to three passes (2 of WO-18 and 1 of AO-16) and I never
got more than TWO packets heard all day!  I musthave messed up my receive
config somehow...  And Now I am ready with the MIC-UP/DN buttons for
automatic tracking....

Anyway, I am transmitting!  SO if you can receive WO-18, I will try to
transmit once every 30 seconds when WO-18 is within sight of Maryland...
Daytime and nighttime (but not after midnight)...  The UPLINK is in my
car, so I can operate it from work and home.  Just hooked the Pacsat modem
up to the mobile rig mic jack...
```

---

597. Toronto-St. Petersburgh, FL

From: Michael Walker <mwalker@gold.interlog.com>
Date: Tue, 19 Mar 1996 17:19:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSD/.3.91.960319171816.28743A-100000@gold.interlog.com>
Rendered body type: text/plain

```
I will be travelling to St. Petes FL from Toronto on Wednesday March 20
via I-95 and south out of Erie PA.

Signal reports would be appreciated.

cheers...mike
```

```
------------------------------------------------------------------------------------------
Michael Walker
mwalker@interlog.com
VA3MW
```

---

598. [APRSSIG:7720] Re: APRS coordination in AZ

From: n2czf@gate.net
Date: Tue, 19 Mar 1996 18:48:58 -0500
To: aprssig@tapr.org
Message-ID: <199603192348.SAA42612@osceola.gate.net>
Rendered body type: text/plain

```
Date: Mon, 18 Mar 1996 22:35:48 -0600 (CST)
Reply-To: aprssig@tapr.org
From: ku0g@sprynet.com
To: aprssig@tapr.org
Subject: [APRSSIG:7720] Re: APRS coordination in AZ


Who/what is ARCA, by the way?  Who gave them the authority to tell us where,
when, what to operate?  I thought that coordination was a VOLUNTARY cooperative
venture..

Best 73,
Jim Duncan, KU0G

<----  End Forwarded Message  ---->

I have asked this before and got no response, I agree with Jim is PACKET
COORDINATION not VOLUNTARY ?? I know that repeater coordination is somewhat
voluntary but if QRM is a problem the coordination group can give the
coordinated repeater preference and then if nothing is done this can be upheld
by the FCC.

I am really interested in finding out for good if a Packet Coordination group
can MANDATE usage of a frequency.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

599. PacComm Pico Packet with GPS

From: "James R. Kauten, M.D." <kauten@mindspring.com>
Date: Tue, 19 Mar 1996 19:45:04 -0500
To: aprssig@tapr.org
Message-ID: <199603200046.TAA00490@borg.mindspring.com>
Rendered body type: text/plain

```
Would be interested in hearing comments regarding the PacComm Pico Packet
with GPS, such as ease of use with APRS, mobile use with APRS, reliability,
ease of setup, etc.  Thanks in advance.

73, Jim Kauten, KO4RQ
=====================================================
James R. Kauten, M.D.,  KO4RQ
=====================================================
Phone:      (404) 355-9537 (Fax)            (404) 355-9515 (Daytime)
Address:  James R. Kauten, M.D.,  95 Collier Road,  Suite 2055
                                             Atlanta, GA,  30305-1955
=====================================================
Atlanta,  Home of the 1996 Olympics!!!
=====================================================
```

---

600. RE: PacComm Pico Packet with GPS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 19 Mar 96 20:08:38 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.827284118.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>Would be interested in hearing comments regarding the PacComm Pico Packet


I finally got a chance to play with a Pico-Packet with a GPS built-in
recently!

I LOVE THIS UNIT!!  It makes it so that MacAPRS/WinAPRS thinks there is two
```

serial ports (I customized some code for it) and everything works great!

There is one thing to be aware of.

MacAPRS/WinAPRS/DOS-APRS all need to have HEADERLN OFF...

In MacAPRS/WinAPRS, there is a possible problem to be aware of...

If you goof and have HEADERLN ON, !-AND-! receive somebody else's GPS packet,
the software will think the GPS data came from you.. and therefore, move
YOUR position on YOUR map to where the OTHER station is..
Fortunately, as soon as you get another GPS string from the PicoPacket, you
will be moved back..

MAKE DARN SURE THAT HEADERLN IS OFF!

Keith

```
Keith Sproul                           Ham Radio: WU2Z
Student Housing Network Coordinator    ksproul@noc.rutgers.edu
Rutgers University Computing Services  908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/    908 821-4828 Home
```

---

601. Re: [APRSSIG:7625] Re: GPS for landing planes

From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Date: Tue, 19 Mar 1996 20:11:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9603191950.A28005-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Without diving (er, climbing) too far off the APRS trac, and from
one qualified in CAT III landings, the aircraft must land using the
autopilot, autothrottles, and autobrakes (if operable on the MD-88). CAT
IIIa goes down to a RVR (Runway Visual Range) of 700 feet, CAT IIIb to
600 feet, and (I believe) CAT IIIc of 300 feet. Presently, to my
knowledge there are no CAT IIIc approaches in the US. In order to fly
such an approach, the entire crew must be certified, the aircraft must be
certified, and the approach procedure must be published for CAT III. If
any of the required equipment on the aircraft is inoperative, then a CAT
III must not be attempted. An aircraft can be landed manually under CAT
II conditions, RVR 1200.

Back to APRS.

Terry Taylor, WB5JFM
a010717t@bcfreenet.seflin.lib.fl.us

On Sat, 16 Mar 1996, Al Chan - W6DNT wrote:

> RM> I remember an article about this in GPS World when they had just
> RM> started. In addition to the local differential GPS, the plane used
> RM> a down-looking radar for precise altitude from 40 feet down to the
> RM> runway. I haven't seen the PS article, but the transponders may be
> RM> a later substitute for the radar.
> RM>
> RM> A local differential setup that broadcast carrier-phase
> RM> corrections for each Sat. would get the approach path fine, but
> RM> separate altitude data might avoid landing 15 feet above or below
> RM> the ground. :-)
>
> Yes, it is very possible that the transponders are being used to
> substitute the down-looking radar, to enhance the position by
> triangulation. The article says "transceivers," so it is also possible
> that they are using DME instead. (distance measurement equipment.) But
> I am not sure if that is accurate enough (good enough resolution) for
> the purpose. I am curious to know what they are: Xponders or DME.
>
> WF> Actually, "category III" with respect to instrument landings has
> WF> nothing to do with *how* the plane is landed - it is a term
> WF> referring to the worst visibility conditions, including
> WF> "zero/zero" (zero visibility, zero ceiling.)
> WF>
> WF> Most systems that allow landings under CatIII conditions do in
> WF> fact require the pilot to land the plane by manipulating the
> WF> controls in the normal way, etc. - it's just that the information
> WF> he needs to do so is coming exclusively from a landing system
> WF> rather than a look out the window.

```
>
> You are correct. I should have been more specific. Under "zero/zero"
> condition (believe that is Cat IIIa) I believe that it is mandatory
> that the plane be flown by auto-pilot. FAA rules. Is that true? I've
> heard that under certain circumstances, auto-pilot is mandatory. But I
> am not sure if it is at Heathrow airport, London, or somewhere in U.S.
>
> -al.
>
```

602. WO-18 query

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 20:52:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960319205008.3699E-100000@greatlakes>
Rendered body type: text/plain

```
I finally was organizing all the 40 messages on the WO-18 experiment, and
I didnt save a copy of Phil Chien's negative comments...

At the risk of getting 45 copies, could someone send it back to me...?  TNX.
```

603. HAVE COPY OF GPS WORLD?

From: DDOBBINS@aol.com
Date: Tue, 19 Mar 1996 22:59:37 -0500
To: aprssig@tapr.org
Message-ID: <960319224713_172572336@emout06.mail.aol.com>
Rendered body type: text/plain

```
Does anybody have a copy of GPS World they could send me. I'm awaiting a
trial subscription (I think) and have not located the magazine on Oahu.
Aloha, Dave/WH6YC.
```

604. [APRSSIG:7753] WO-18 query (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Mar 1996 23:55:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960319235325.4167C-100000@greatlakes>
Rendered body type: text/plain

```
****** OK, I NOW HAVE A COPY .....  ******  THANKS, no more.... please
(Thanks Keith)

I WROTE EARLIER:.....

At the risk of getting 45 copies, could someone send it back to me...?  TNX.
```

605. NMEA standards / FM time-of-day

From: kevenm@valtek.com (Keven Miller)
Date: Tue, 19 Mar 1996 23:12:14 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <9603200612.AA15098@valtek>
Rendered body type: text/plain

```
I'm a computer programmer, and almost 1 yr. ham. Just learning about
packet, aprs and GPS. Does any one know where I can find/get the NMEA
standards?

Recently I had to replace my VCR at home. Many new models have auto-clock
set. The salesman said that the time-of-day was sent over FM radio. Does
any one have info/knowledge about that?

TIA
Keven Miller  KC7LYD
kevenm@valtek.com
```

606. RE: Position tracking via WO-18

From: "Bob Smith" <bsmith@msn.com>
Date: Tue, 19 Mar 96 12:30:36 UT
To: "Bob Bruninga" <bruninga@nadn.navy.mil>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <UPMAIL01.199603200643200984@msn.com>
Rendered body type: text/plain

```
Any ideas when a windows version will be ready Bob?  Kind of crashes my
environment!

----------
```

From: Bob Bruninga
Sent: Monday, March 11, 1996 6:36 PM
To: Dave Guimont
Cc: amsat-bb@amsat.org; aprssig@tapr.org
Subject: Position tracking via WO-18

Dave asked for the BPSK uplink frequency for the WO-18 digipeater, presumably to try to digi an APRtrak position report like we did with SPRE. If WO-18 is going to operate continuously in digipeater mode, then this satellite could be the basis for world wide amateur mobile vehicle position reporting.   The 1200 baud BPSK uplink is 145.900.

The AMSAT APRtrak software will plot the position of any stations that digipeat their position and status in one of the following formats:

W3ADO>FM19SX,WEBER-1:Hi!

Here your position report uses your 6 digit grid square in the TO field. This packet is only about 1/2 second long and permits the maximum number of vehicles or stations per pass probably close to 200 or more. It will place you within about 2 miles of your QTH and include any status or comments on the end.

The more precise format allows you to transmit your symbol character so that your type of vehicle or station will appear on the map. It takes longer, almost a full second.

W3ADO>APRS,WEBER-1:@141329h3859.11N/07629.12W>Enroute Europe

This format is the time, an "h", then the LAT/LONG, and the final character is one of 126 different symbol characters followed by any comments. The symbols can reperesent all maner of vehicles, trucks, cars, boats and aircraft.

If you are running the APRtrak software, it will automatically transmit your position. Be sure you are using a satellite BPSK modem, WO-18 has no mechanism for noremal terrestrial AX.25 FM signals.

Bob Smith
Desktop and Online Services Strategy Group
mailto:rsmith@internetmci.com
http://www2.fyionline.com/~bsmith
Tel. 770-668-5231

---

607. APRS net

From: WB9WOZ@aol.com
Date: Wed, 20 Mar 1996 02:35:40 -0500
To: aprssig@tapr.org
Cc: winaprs@tapr.org
Message-ID: <960320023539_250727599@emout05.mail.aol.com>
Rendered body type: text/plain

To stir up more interest in the Chicago area, The Northern Illinois APRS Net (NIAN) will be sponsoring an HF/VHF net on Sunday March 24 at 2100 UTC (3pm CST).

PROCEDURE: Transmit name & QTH to WB9WOZ
When (and if) you get an ACK back, consider yourself checked in.
HF and VHF station are encouraged to participate.To keep QRM to a minimum place N9RER-15 after GATE so as not to tie up other VHF nets, VHF stations should send only once or twice (you may not get an ACK).
Show your support for aprs by checking in. I will post check-in totals and calls next week.

A net like this was held at the end of January. It was quite successful on the VHF side, but HF did not cooperate and 30 meters died a couple of hours before net time. Afternoons seem to be good for HF and also there seems to be lots of stations on the air on sunday afternoons. I received email from quite a few of you HF guys who tried, but couldn't get in due to band conditions.

NIAN would like to make a net a regular weekly feature. With the start of the severe weather season, we could all use the extra practice.

```
I looking forward to seeing many of you on the screen.

Thanks and 73's
Bruce Tobias, WB9WOZ
```

608. Re: [APRSSIG:7750] PacComm Pico Packet with GPS

From: Scott Miller <scottm@sierra.net>
Date: Wed, 20 Mar 1996 02:11:53 -0800
To: aprssig@tapr.org
Message-ID: <314FD9E8.376C@sierra.net>
Rendered body type: text/plain

```
James R. Kauten, M.D. wrote:
>
> Would be interested in hearing comments regarding the PacComm Pico Packet
> with GPS, such as ease of use with APRS, mobile use with APRS, reliability,
> ease of setup, etc.  Thanks in advance.
>
> 73, Jim Kauten, KO4RQ
> =====================================================
> James R. Kauten, M.D.,  KO4RQ
> =====================================================
> Phone:      (404) 355-9537 (Fax)            (404) 355-9515 (Daytime)
> Address:  James R. Kauten, M.D.,  95 Collier Road,  Suite 2055
>                                              Atlanta, GA,  30305-1955
> =====================================================
> Atlanta,  Home of the 1996 Olympics!!!
> =====================================================I enjoy my 2 port Pico w/internal GPS very much,
setup is very easy
and I think PacComm is a great company with a fantastic product.
73 and good luck, Scott Miller KE6RKE Lake Tahoe
HOME OF THE 1960 WINTER OLYMPICS
```

609. Re: [APRSSIG:7756] NMEA standards / FM time-of-day

From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 20 Mar 1996 07:31:33 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9603200704.B29449-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
I've recently acquired a Sony SLV-940HF.  It has the autoclock feature.
The correct time came up as soon as it was plugged in.

The manual explains that the VCR receiver scans all of the TV channels
until it finds one transmitting the time-of-day.  Frequently that service
is offered by PBS channels.  Here in South Florida it is carried by
WPBT-TV channel 2.


William Manley
z002594b@bcfreenet.seflin.lib.fl.us
http: //ourworld.compuserve.com/homepages/bmanley

On Wed, 20 Mar 1996, Keven Miller wrote:

>
>
> I'm a computer programmer, and almost 1 yr. ham. Just learning about
> packet, aprs and GPS. Does any one know where I can find/get the NMEA
> standards?
>
> Recently I had to replace my VCR at home. Many new models have auto-clock
> set. The salesman said that the time-of-day was sent over FM radio. Does
> any one have info/knowledge about that?
>
> TIA
> Keven Miller  KC7LYD
> kevenm@valtek.com
>
>
```

610. WinAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 20 Mar 96 8:05:34 EST
To: aprssig@tapr.org
Cc: bsmith@msn.com
Message-ID: <CMM-RU.1.4.827327134.ksproul@hardees.rutgers.edu>

Rendered body type: text/plain

>Any ideas when a windows version will be ready Bob?

This has been answered many times already, but I will repeat it again.

WinAPRS beta is available now... The full release version (ver 1.0) will be at Dayton in May. At that time, we will also have a CD full of Maps available. This will include maps from the 1:2mil cd, 1:100k cds and from the Digital Chart of the World CDs.

Keith

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

611. unsubscribe

From: Stephan Sykes <ssykes@ns2.emirates.net.ae>
Date: Wed, 20 Mar 1996 17:40:47 +-400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1684.61EC7080@csb026.emirates.net.ae>
Rendered body type: text/plain

[Empty message body]

---

612. Re: [APRSSIG:7751] RE: PacComm Pico Packet with GPS

From: JAgrelo@aol.com
Date: Wed, 20 Mar 1996 09:08:40 -0500
To: aprssig@tapr.org
Message-ID: <960320090840_172876877@mail06>
Rendered body type: text/plain

In a message dated 96-03-19 22:45:33 EST, you write: (Keith Sproul)

>I LOVE THIS UNIT!! It makes it so that MacAPRS/WinAPRS thinks there is two
>serial ports (I customized some code for it) and everything works great!

Keith, I received a Pico Packet on Monday and havn't gotten it to work yet. Maybe you have some insight to what I am doing wrong.

I have the basic unit without the 2nd port set up as a stand alone tracker, the settings are as follows-

```
MYCALL-    N2OOC-1
GPSTEXT-   $GPRMC   (GPS-45)
LOC        -   EVERY 2 (20 SEONDS FOR TEST)
BAUD PORT 1- 4800
BAUD PORT 2- 4800
GPS- ON
```

Now it sends my call sign but is always waiting for GPS, here is what it looks like.

```
N2OOC-1>GPS,NOCALL:WAITING DATA FROM GPS
```

The GPS is sending OK. The TNC is connected to the RADIO OK or it wouldn't send MYCALL.

Am I missing something?

73 de Joe N2OOC

```
------------------------------------------------------------------------------
----------------
                                          Joe Agrelo/N2OOC
                                          Agrelo Engineering
                                           Ph (518)381-1057
                                           Fx (518)381-1058
                                       E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                          and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
------------------------------------------------------------------------------
-----------------
```

---

613. unsubscribe

From: Roberto Bastidas-Buch <ROBERTO.BASTIDAS@ITU.CH>
Date: Wed, 20 Mar 1996 15:34:44 +0100 (MET)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9603201518.C22321-0100000@ties.itu.ch>
Rendered body type: text/plain

[Empty message body]

---

614. Re: [APRSSIG:7633] Re: gps antenna?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 20 Mar 1996 08:38:09 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960320143809.006edf74@144.188.134.33>
Rendered body type: text/plain

Gwyn,
Yes I am very much interested, could you please post the specs and comment
on whether the unit is weather tight and ready for mobile use?
thanks.

>
>
>PacComm uses Trimble OEM GPS boards and antennas integrated into our
>products. We can offer the amplified antennas at $50 plus shipping if
>they will fit anyone's needs.
>
>They take +5v for the amplifier mmic and have an SMA connector on a 15 ft
>(or so) cord. The antenna is quite small yet performs very well.
>
>If anyone is interested I'll post the specifications.
>
>73,
>Gwyn
>PacComm
>
>
>
Paul, WD9ABE

---

615. Re: [APRSSIG:7761] WinAPRS

From: lmkeeran@ilstu.edu (Larry Keeran)
Date: Wed, 20 Mar 1996 09:38:00 -0600
To: aprssig@tapr.org
Message-ID: <v02120d04ad75d63f9dc2@[138.87.2.109]>
Rendered body type: text/plain

Keith - two questions

Will the WinAPRS map CD, that you will release at Dayton, include the area
maps of each of the area map coordinators and mapmakers? John Baum,
KB8JXO; William Nolle, KE4EER; Bob Bruninga WB4APR; Mark Sproul KB2ICI;
Keith Sproul WU2Z and others that are not at the tip of my tongue
(fingers).

Will it be the type of CD that DOS/Windows as well as MacAPRS people can use?

RE: you said

>>Any ideas when a windows version will be ready Bob?
>
>This has been answered many times already, but I will repeat it again.
>
>WinAPRS beta is available now... The full release version (ver 1.0) will be
>at Dayton in May. At that time, we will also have a CD full of Maps
>available. This will include maps from the 1:2mil cd, 1:100k cds and from
>the Digital Chart of the World CDs.

Thank you

/\
 Larry M. Keeran K9ORP - IS Data Processing Equip Tech   lmkeeran@ilstu.edu
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/

---

616. Re: [APRSSIG:7766] Re: WinAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 20 Mar 96 11:24:41 EST

To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.827339081.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> Keith - two questions
>
> Will the WinAPRS map CD, that you will release at Dayton, include the area
> maps of each of the area map coordinators and mapmakers? John Baum,
> KB8JXO; William Nolle, KE4EER; Bob Bruninga WB4APR; Mark Sproul KB2ICI;
> Keith Sproul WU2Z and others that are not at the tip of my tongue
> (fingers).

It will include ALL DOS Maps I can get my hands on...

>
> Will it be the type of CD that DOS/Windows as well as MacAPRS people can use?

The MacAPRS/WinAPRS maps are the EXACT SAME!... So no difference..

The DOS/PC APRS maps will be there too (see above)

The CD will be in ISO-9660 format which means ANY computer can read it even
UNIX machines...

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

617. Re: [APRSSIG:7730] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 20 Mar 1996 13:55:19 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603201955.NAA21941@solar.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:
>
> --------------------------
> Actually (May get some flack again) read the rules for coordination as far
> as the FCC is concerned. What you can do is gather all of your APRS users
> together and have an election for a coordinator. Once a coordinator is
> elected you attempt to work with the current so called coordination body
> and if they are still hardheaded then just park yourself on that frequency
> and call it a coordinated APRS freq. If you read the rules this is
> perfectly legal. I did this here in North Alabama and the Alabama
> frequency coordination group finally aggreed to grant the coordination
> rather then fight a group of APRS users right to excersizing their own
> coordinator. Ok fire away guys....
>
> Bill KE4EER

Okay, Bill, grab that fire extinguisher.

This little piece of soap-box lawyering will serve no purpose other than to
make your "coordinating" body look overtly stupid. Further, there is now case
law in California (where else!?!) that recognized the original, and still
responsive, coordinating body over the start-up designed to merely get what
they wanted. What you did was stupid. That you achieved your goal because of
your move is sad, in that it makes the job of those of us trying to do real
coordination harder.

SO: Just where do you get off thinking you can just make your own group and
userp the work and history of a group that's been doing the work and taking
the heat for years, just because they won't do something exactly as YOU
thought you wanted it?

Sadly,
Gerry

PS: Is there *ANY* interest in some of us trying to work within the
coordination community, or would the majority prefer to go off willy-nilly and
occupy frequencies with packet regardless of other users (THAT is called
interference, by the way...)???

618. Re: [APRSSIG:7740] Re: GPS for landing

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 20 Mar 1996 14:13:54 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603202013.OAA22338@solar.cs.tamu.edu>
Rendered body type: text/plain

> How does GPS determine altitude so accurately - good enough for landing with
> no hands? (Cat IIIa.) Transponders and DMEs are not accurate enough for that
> purpose. (about 1/10 mile accuracy.) I'd think they would need something
> like Laser: Laser Altimeter instead of Radar Altimeter. How does GPS
> determine altitude?

A GPS receiver correlating code and carrier phase, and receiving data from 2
or more pseudo-satellites (pseudollites) could have the vertical resolution
necessary.

> I used to repair (crew chief for United Airlines) stuff like INS (Delco
> Carousel inertial guidance,) DME, transponder, ACARS, Doppler radar, etc..
> but nothing on GPS.

Cool!

> II Morrow refused to sell me the _technical_ reference manual. They would
> sell the "operational manual," which doesn't tell much about the innards
> workings. Where can I find out more about HOW the thing works? I'd like
> circuit description; block diagrams; theory of operation, etc.. Where can I
> buy them? [I've flown c152, c172, c186, Archer II - fair weather weekend
> warrior.]

Get on the WWW and do a search for Navtech Seminars and GPS bookstores. Find
a copy of ICD-GPS-200. Read it (there'll be a test on the checksum
manipulations later in the hour). Then get the RTCM technical specs and learn
about differential correction. These are the two big references.

Gerry

---

619. Re: [APRSSIG:7749] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 20 Mar 1996 14:39:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603202039.OAA22966@solar.cs.tamu.edu>
Rendered body type: text/plain

n2czf@gate.net sez:
>
> I am really interested in finding out for good if a Packet Coordination group
> can MANDATE usage of a frequency.

A lot of folks are interested in this. About 13 years, ago, several of us
did, in fact, try to get some degree of organization going on Packet. The
coordination effort, then, was a dismal failure.

the thrust was to equalize resources, and perform some spectrum utilization
management. The typical response was, "It's MY TNC, I'll put it where I want,
running however much power I want to run."

Oh, and simply asking for a rough Lat/Lon literally led to some instances of
death threats.

Outside of some individuals with a clear concept of a network plan, and some
few clubs with a similar idea, little real planning or coordination has been
done with packet. Obviously, recognizing a few exceptions out there...

Packet has historically been granted frequencies (subbands) from the analog
coordinators for packet use. In return, the coordinators do not put any
anaolog operations there. Since the effort exceeds mere repeater location
coordination, but extends to band-use planning ans spectrum management, it's
not always trivial to grant Packet some more of that precious band. But it is
expected.

Wish there were a simple answer to your question.

gerry

---

620. Re: [APRSSIG:7756] NMEA standards / FM time-of-day

From: Roger Good <rogerg@usit.net>
Date: Wed, 20 Mar 1996 16:22:55 -0800
To: aprssig@tapr.org
Message-ID: <3150A15F.B6F@usit.net>
Rendered body type: text/plain

```
Keven Miller wrote:
>
> I'm a computer programmer, and almost 1 yr. ham. Just learning about
> packet, aprs and GPS. Does any one know where I can find/get the NMEA
> standards?
>
> Recently I had to replace my VCR at home. Many new models have auto-clock
> set. The salesman said that the time-of-day was sent over FM radio. Does
> any one have info/knowledge about that?
>
> TIA
> Keven Miller  KC7LYD
> kevenm@valtek.com

Keven...
        Try TV stations...best bet is PBS..  Our local PBS station sends
out the data, but is about 2 minutes fast (government cutbacks,
Republicans, and other excuses).  They say accuracy is a priority with
them, but it hasn't improved in the last few months

                 Roger KC4WPS
                 rogerg@usit.net
```

---

621. Re: [APRSSIG:7734] Re: WinAPRS

From: WB4LTF@aol.com
Date: Wed, 20 Mar 1996 19:30:16 -0500
To: aprssig@tapr.org
Message-ID: <960320193014_357172610@emout08.mail.aol.com>
Rendered body type: text/plain

```
Thanks to EVERYONE for the info.
Believe it or not, I did not receive one sarcastic answer.
I guess there are still some Real Hams out there.

Bud
wb4ltf@aol.com
```

---

622. Re: [APRSSIG:7757] RE: Position tracking via WO-18

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
Date: Wed, 20 Mar 1996 19:50:41 EST
To: <APRSSIG@tapr.org>
Message-ID: <20MAR96.21432451.0051.MUSIC@MUSIC.CC.UGA.EDU>
Rendered body type: text/plain

```
>>
















>digipeat their position and status in one of the following formats:
>
>W3ADO>FM19SX,WEBER-1:Hi!

Is there any way to have a tnc change the gps data into the six digit
gridsquare format???
Gwen any help hear this is what we realy need to do this thing right.
A PSK or what ever it is tx only tnc with a conversion format that
changes the nema string into the EM83hw format.  BUT it should only be
a comand there may still be some situations where you would not want
to do this.
```

.
r
Bob and others i had another thought about this how about a
microprocessor controled unit that could have 12v relays in it or
something that could wake up the gps first say 15min b-4 the pass
then wake up the tnc and radio 5 min b-4 the pass in this way the
interference is reduced to the sub-band but the elements could
be a bit old and still give the staion a beter chance with old elemnts.

if this and the special tx only tnc could be in one "plug and paly box"
this would be the way to get it rock'n and rollin

I realy like the timeslot plan but i just had one idea make sure to
reserve some slots for cross continental travlers like w7lus-14
"we never know where he is going to show up!!!" :)
l

Lynn N4YCI
Athens Ga. EM83hw

---

623. Re: [APRSSIG:7772] Re: WinAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 20 Mar 96 21:25:57 -0500
To: <aprssig@tapr.org>
Message-ID: <199603210224.VAA14797@newworld.bridge.net>
Rendered body type: text/plain

>Thanks to EVERYONE for the info.
>Believe it or not, I did not receive one sarcastic answer.

Sorry 'bout that. Next time we'll try harder!

---

624. WO-18 status?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Mar 1996 21:42:56 -0500 (EST)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960320213443.17242D-100000@greatlakes>
Rendered body type: text/plain

```
Day 1 on WO-18:  I copied probably 10% (about 2 screens full) of packets
                 using manual tuning (VERY HECTIC).  COnvinved me it was
                 worth doing.
Day 2 : COnfigured for automatic receiver up/down tracking....  COULDNT
        get any packets.... Later discoverd that 12 volt car battery on
        roof that powers Power amp and PRE-amps was down to 4 volts!  So
        this was a lost day..
Day 3 : Fixed battery.  Got good AUTOMATIC tracking/tuning of LU-19 and
        received several packets.  But still couldnt get lock on WO-18
        lots of audio and 6 S units above the noise, but no usable packets.
        The tones just sound sick..
```

I have heard that WO-18 downlink is kinda sick. Is it worth trying to
decode, or have I just chosen the wrong 2 days for my first attempts at
WO-18? If anyone has worked WO-18 recently and longer than my 3 days of
frustrating experiences, please lemme know if im barking up the right
tree? Thanks...

---

625. APRS Torch tracking via SAT

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Mar 1996 21:58:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960320214306.17242E-100000@greatlakes>
Rendered body type: text/plain

There is another possibility for satelite tracking the olympic torch.
(and for testing GPS precise time for quadrupeling channel throughput).
We will need to test this on a LIMITED basis. I need a cadre of volunteers
interested in experimenting, Maybe one day a week or maybe only ONE PASS
or who knows... I need a list of available resources. If you fit the
following criteria, lemme know.

1) Uplink: 2m FM mobile, 35 watts or more (with GPS)

2) Downlink: 70 cm FM rig

3) Are you availailable for passes (with equipment)?
    1) During working hours? (it may only ba available in sunlight)
    2) During evening Hours?

```
    3) DO you have access to a satelite tracking program
        (does not need to be mobile....)

Vehicle doesnt have to be moving.  Parked with good horizons is fine.

Keep this request relatively low key.  I was amazed that almost all
responses I got from the AMSAT-bb posting of our WO-18 experiments were
emotional and AGAINST APRS position reporting.  Where has the
experimental spirit in amateur radio gone?  I guess most of them are
here...  Of course, can a choir sing?
```

626. Re: [APRSSIG:7773] RE: Position tracking via WO-18

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Mar 1996 22:03:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960320220007.17242F-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 20 Mar 1996, HOLCOMB, GREGORY FRA wrote:

> Is there any way to have a tnc change the gps data into the six digit
> gridsquare format???

APR RELY:  The APRS MIC ENCODER will take the GPS posit and compress it
into only 6 characters for a .025 second posit....

> Bob and others i had another thought about this how about a
> microprocessor controled unit that could have 12v relays in it or
> something that could wake up the gps first say 15min b-4 the pass

WB4APR REPLY COMMENT:  THe MIM module will have a version that sleeps on
microwatts and does just that.  It doesnt know the satellite passes, but
it can wake up the GPS once a day, get a fix, and then report that fix
every hour for a year on 6 D cells...
```

627. Latest MIM module

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Mar 1996 22:10:48 -0500 (EST)
To: aprssig@tapr.org
Cc: Robert Bruninga <bruninga@greatlakes.nadn.navy.mil>
Message-ID: <Pine.SUN.3.91.960320220434.17242G-100000@greatlakes>
Rendered body type: text/plain

```
We will have an APRS booth at the Timonimu Hamfest the last weeekend in
March just North of Baltimore Maryland.  We will have lots of MIM cards.
FOr those who have heard it before...
    These are complete TNC XMTRs on a single CHIP.  They output PTT and
    AFSK tones ready for any transmitter..  THey transmit any of the
    following at any periodicity:
       BEACON
       POSIT (if attached to a GPS)
       TELEMETRY (5 analog channels, and 8 bits)
       CW-ID

This latest verison has full 8 hop digipeater field capability, and can
now be programmed with ANY APRS symbol.  SOrry, the first models all came
with the big blue DOT...

The MIM is alive an well..
The MIC encoder is right behind...  SOrry for the year of promises....
```

628. Re: [APRSSIG:7768] Re: APRS coordination in AZ

From: William Nolle <ke4eer@hiwaay.net>
Date: Wed, 20 Mar 1996 22:15:10 -0800
To: aprssig@tapr.org
Message-ID: <3150F3EE.31E@hiwaay.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> William Nolle sez:
> >
> > -------------------------
> > Actually (May get some flack again) read the rules for coordination as far
> > as the FCC is concerned. What you can do is gather all of your APRS users
> > together and have an election for a coordinator. Once a coordinator is
> > elected you attempt to work with the current so called coordination body
> > and if they are still hardheaded then just park yourself on that frequency
> > and call it a coordinated APRS freq. If you read the rules this is
```

> > perfectly legal. I did this here in North Alabama and the Alabama
> > frequency coordination group finally aggreed to grant the coordination
> > rather then fight a group of APRS users right to excersizing their own
> > coordinator. Ok fire away guys....
> >
> > Bill KE4EER
>
> Okay, Bill, grab that fire extinguisher.

No need to grab the fire extinguisher Gerry, your only firing pencil burner.

>
> This little piece of soap-box lawyering will serve no purpose other than to
> make your "coordinating" body look overtly stupid. Further, there is now case
> law in California (where else!?!) that recognized the original, and still
> responsive, coordinating body over the start-up designed to merely get what
> they wanted. What you did was stupid. That you achieved your goal because of
> your move is sad, in that it makes the job of those of us trying to do real
> coordination harder.

Now Gerry i didn't call you stupid!!. Just because i found a legal way around
that group that it's on;y interest is to provide frequencies for friends and
those people that already have coordinated frequencies. Believe me when i say
it's not the great coordinating body you speak of. I take it that this is hitting
you hard simply because you are one of them that think you should be lord and
master over who will or will not get a coordinated frequency. I didn't break
any rules, but rather used the rules to get what WE where after. Before i did this
i attempted to follow your rules and all i got was flack and closed doors!.
After i did take the path i did the frequency coordinating body finally did give
me the official papers i asked for in the first place. So Gerry i do have papers
stating 145.790 is a coordinated frequency. Just to explain a little about your
coordinating body's and the fine job they are doing, in most cases this may be true
but not in Alabama. They started to place packet BBS's and digi's on the few
simplex frequencies that are left in this area untill i told them i would park
myself on those frequencies and talk to anyone i could reach with my system in an
attempt to gather signatures to prevent them from doing this, guess what it
worked and we still have our few simplex frequencies no thanks to the so called
coordonating body in this area of North Alabama.

>
> SO: Just where do you get off thinking you can just make your own group and
> userp the work and history of a group that's been doing the work and taking
> the heat for years, just because they won't do something exactly as YOU
> thought you wanted it?

Well Gerry take the time to research the fact that what i did was strictly following
all of the FCC rules pertaining to coordination even tough some may disagree with
it because they feel that the so called coordinators should controll who should get
what frequency even tough there are many hams that wanted that frequency. Gosh
Gerry wake up it's done everyday not just with amateur radio.

Sorry you disagree with my method but when following your rules got me nothing
but flack and harrassment i researched the rules and followed them.

>
> PS: Is there *ANY* interest in some of us trying to work within the
> coordination community, or would the majority prefer to go off willy-nilly and
> occupy frequencies with packet regardless of other users (THAT is called
> interference, by the way...)???

Call it what you want it but as i see it i have a legal coordinated frequency as
i have the papers to show that i do. Guess who the FCC would side with. So the
fact is if you want to call it interference that makes you rather stupid i think.
I didn't want to start this type of sig posting again but i will not stand by
and let someone call me stupid because of my opinion, i think pretty low of a
person like that.

Bill KE4EER

---

629. MFJ 8621 xtals

From: William Richarz <wricharz@ix.netcom.com>
Date: Thu, 21 Mar 1996 00:29:57 -0500
To: aprssig@tapr.org
Message-ID: <199603210529.VAA28139@ix8.ix.netcom.com>
Rendered body type: text/plain

Anyone needing xtals for the MFJ 8621 data radio, I have a set for 145.79
APRS frequecy...Contact me directly at my Email address...

73 de Bill

```
===========================================================================
Bill Richarz <WA4VAF>              | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.             | Packet  : WA4VAF@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                | Phone   : (704) 545-9368
               URL: http://www.transprt.com/wricharz
===========================================================================
```

630. Garmin 45 data wiring question

From: Ron Malinowski <weather@xnet.com>
Date: Thu, 21 Mar 1996 00:07:55 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603210607.AAA25848@flood.xnet.com>
Rendered body type: text/plain

I have had the Garmin 45 for about a year now, and I had a question, when I wired up the connector to work with my TNC, I thought the white wire (Data Into GPS) was not needed, and I found that to be true cause the KPC-3 doesn't have to initialize the GPS. But i am learning that I can use this GARDOWN software and i am told you just unplug the kpc connector and plug it right into the computer serial port? Now I think I need this white wire hooked up to some PIN on the DB25, need some help on this.... Where does this wire go, and what mode do I put the garmin in when using with software?

```
********************************************************************
* Ron Malinowski, Jr.        + Amateur Radio Operator: N9QGS       *
* Amateur Weather Observer   - SKYWARN    APRS WEATHER 145.79 Mhz  *
* STREAMWOOD, ILLINOIS       + Home Page:                          *
* 42°01'12"N 88°09'37"W      -    http://www.xnet.com/~weather     *
********************************************************************
```

631. Re: [APRSSIG:7778] Latest MIM module

From: Miami Network <0004818186@mcimail.com>
Date: Thu, 21 Mar 96 03:01 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <75960321080157/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

Are the MIM modules mentioned in your message available via mail order?

If yes, how much and where should we send the check?

73, Seymour
miaminet@mcimail.com

632. U2000 Wx Station+Macintosh

From: jaym1@soho.ios.com (Jay Millard)
Date: Thu, 21 Mar 1996 08:53:45 -0500
To: aprssig@tapr.org
Message-ID: <v01510100ad76c6aa2b6d@[206.20.7.23]>
Rendered body type: text/plain

My request for help posted on the SIG last week resulted in no responses.

I'm still looking for the wiring color codes to interface a U2000 Wx station with my Macintosh computer.

If you know the correct information pls email me direct or if you think it is appropriate, to the SIG.

Thank you in advance and 73 de Jay

Jay Millard
Amateur Radio Station KD1LY
Darien, CT 06820

633. Re: NMEA standards /

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Thu, 21 Mar 96 01:20:17 -0800
To: aprssig@tapr.org
Message-ID: <C124673101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

On 3/20/96 Keven Miller said:

>I'm a computer programmer, and almost 1 yr. ham. Just learning about
>packet, aprs and GPS. Does any one know where I can find/get the NMEA
>standards?

I got my copy of NMEA-183 Ver. 2.0 from Navtech GPS Store (703-931-0500) about a year ago for about $80. I was disappointed that it was essentially a Xerox copy of the spec (complete with someone's scribbled notes) in cheap bindry. I believe Ver. 2.01 is out now for about $10 more.

Good Luck-
Mike KA6SPT
____
tweedy@pc.gcs.litton.com
74176.3030@compuserve.com

---

634. Re: [APRSSIG:7770] Re: APRS coordination in AZ

From: crawford@vt8200.vetmed.lsu.edu (Dr. Pat M Crawford - Louisiana State University (SVM))
Date: Thu, 21 Mar 1996 08:18:25 -0600
To: aprssig@tapr.org
Message-ID: <96032108182589@vt8200.vetmed.lsu.edu>
Rendered body type: text/plain

[Empty message body]

---

635. Re: [APRSSIG:7769] Re: GPS for landing

From: rrucker@cais.cais.com (Dick Rucker)
Date: Thu, 21 Mar 1996 10:33:43 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <v01540b02ad7709fcc3ba@[206.161.65.81]>
Rendered body type: text/plain

>> How does GPS determine altitude so accurately - good enough for landing with
>> no hands? (Cat IIIa.)

>A GPS receiver correlating code and carrier phase, and receiving data from 2
>or more pseudo-satellites (pseudollites) could have the vertical resolution
>necessary.

GPS and DGPS determine a GPS user's instantaneous position in 3-space based on solving propagation-delay equations for observable satellites; i.e., using the observed "simultaneous ranges" to at least 4 space vehicles (SVs) currently in view. The center of the earth can be substituted for one of the SVs if the user's "altitude" is known by some other means. But notice that is the user's altitude above the center of the earth, and not above the local terrain, that is being used in this context.

The problem with using GPS or the differential version of it (DGPS) for the height dimension in a aircraft landing system is that the model for the earth's elevation immediately below the aircraft's descent path to the runway, and within its landing zone, must be quite accurate, as well as for below its go-around path in case the approach is aborted before touchdown.

That's why most GPS and DGPS approaches in use, or being defined today for runways without an Instrument Landing System (ILS), use GPS or DGPS to create a horizontal reference to follow and then rely on, say, barometric altimetry referenced to local air pressure at the surface (i.e., the "altimeter setting") and the airport's published elevation to create the vertical reference above ground.

Can't get to Cat III that way, but you can get an equivalent Cat I approach that way (minimum 600' ceiling and 1 mile forward visibility).

Dick

Richard A. "Dick" Rucker
Solo Consulting, Inc.
Fairfax, VA
email via SMTP: rrucker@cais.com
Amateur Radio: KM4ML

---

636. Re: [APRSSIG:7672] CIBA Launch Notice

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Thu, 21 Mar 1996 11:08:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960321105341.14881A-100000@outland.dtcc.edu>
Rendered body type: text/plain

Where in central Illinois do you all launch your balloons. I will visiting my family in Southern Illinois during the first two weeks of

August and would like to participate in your August balloon launch. I am
an avid fox hunter, have my own doppler system and am learning about aprs.

Sam Guccione, K3BY

---

637. Re: [APRSSIG:7763] RE: PacComm Pico Packet with GPS

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Thu, 21 Mar 1996 10:37:55 -0600
To: aprssig@tapr.org
Message-ID: <199603211639.KAA01354@tapr.org>
Rendered body type: text/plain

```
>I have the basic unit without the 2nd port set up as a stand alone tracker,
>the settings are as follows-
>
>MYCALL-    N2OOC-1
>GPSTEXT-   $GPRMC   (GPS-45)
>LOC        -   EVERY 2 (20 SEONDS FOR TEST)
>BAUD PORT 1- 4800
>BAUD PORT 2- 4800
>GPS- ON
```

Was that with or without the 2nd serial port? If it is with the second
serial port then the switch setting should have two positions one position
powers just the TNC and the port for the computer hookup the other on
position powers both serial ports.

>From one of my previous postings with WX station changes for GPS in ( )

```
        Here's the setup I'm using to run my U2000 with the PicoPacket TNC
two serial port.
U2000 in datalogger mode
[!!000000C501660000281B02AA--------004403BB]

TNC settings as follows
gpstext !!  ($GPRMC)
[string to recognize]
lpath aprs v relay,digi1,digi2,digi3,wide       [digi path for wx data]
loc e 30
[becon wx string every 5 min]
b e 30
[becon btext every 5 min]
BText    !4156.45N/09142.42W_                [postion format forstandalone WX]
             (whatever you want in this case)
unproto aprs v relay,digi1,digi2,digi3,wide  [digi path for becon data]
uimode on
[seemed to be the secret trick]
mya relay                                                              [so
you can still relay]
```

Plus the normal stuff like my, myp and so forth. I use an rs232
cable that has two rs232 connectors per end, so it can pass through data on
both ends. With this cable I can still us my Peet Bros datalogging software
as well as transmit WX data in the APRS format. Special thanks to Bob for
his patience in not pointing out my stupidity (it's all in those readme
files he wrote) and to Paul at Paccom for the firmware EPROM chip he sent.

Also on a 2 port Pico it does make a differece which position the
switch is in, make sure it's the left on position, looking at the back, and
not the right on position.

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good
```

---

638. RE: [APRSSIG:7784] Re: NMEA standards /

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Thu, 21 Mar 96 10:41:00 CST
To: aprssig <aprssig@tapr.org>
Message-ID: <315187BC@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

I bought a copy of the NMEA-183 spec directly from NMEA abt two years ago
(when I first got my GPS receiver). If I remember correctly, the cost was
$25 + shipping and handling.

I do not know the address off-hand, but I'll get it and post. Mobile, AL is
what i remember.
73,

```
Donn
WA2VOI  EN35ja

>-------------------------------------------------------------------------
 ---
>On 3/20/96 Keven Miller said:
>
>>I'm a computer programmer, and almost 1 yr. ham. Just learning about
>>packet, aprs and GPS. Does any one know where I can find/get the NMEA
>>standards?
>
>I got my copy of NMEA-183 Ver. 2.0 from Navtech GPS Store (703-931-0500)
>about a year ago for about $80.  I was disappointed that it was
>essentially a Xerox copy of the spec (complete with someone's scribbled
>notes) in cheap bindry.  I believe Ver. 2.01 is out now for about $10
>more.
>
>Good Luck-
>Mike KA6SPT
>_________________________
>tweedy@pc.gcs.litton.com
>74176.3030@compuserve.com
>
>
```

---

639. Re: [APRSSIG:7774] Re: WinAPRS

From: ku0g@sprynet.com
Date: Thu, 21 Mar 1996 10:27:25 -0800
To: aprssig@tapr.org
Message-ID: <199603211827.KAA11166@sprynet.com>
Rendered body type: text/plain

```
Ya, how 'bout that!!!  For once we've all played nice....

(no wonder it snowed from MO eastward on the 1st day of Spring!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

640. Re: [APRSSIG:7787] APRSSIG digest 468

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 21 Mar 1996 12:59:59 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603211900.NAA07943@tapr.org>
Rendered body type: text/plain

```
Hi folks.

To help Keith out a little.  I would suggest anyone interested in the issues
on this move this debate over to regional_freq which handles these issues.
Dan Puckett, K5FXB, is the SIG Chair.

Also, Gerry, the Texas Packet Radio Society, form the out set never proposed
coordination but proposed managment and band planning.  This can be tracked
back to the first President Tom McDermott, N5EG, through myself and now Dave
Wolf, WO5H.

If people are not aware, the NFCC (National Freq Coordination Council) is
trying to get off the ground by brining all the Freq Coordination groups
together.  There are som ehighly charged issues here and I am sure more
info will be made available on regional_freq.  The name selection alone is a
possible indication ?  The interesting note is that there charter, from
twhat I have been told<, does not stop with repeaters, but wnats to cover
all 'systems' that repeat information and HF as well.

If you are a TAPR member, my next PSR President Column will have a rather
interesting discussion of paradigm shifts and how making rules now is going
to potentially stifle our growth.

Anyway -- swtich the thread over to regional_freq as a suggestion.  I am
sure Keith would prefer to keep APRS technology as the focus.

Cheers - Greg, WD5IVD


>
> I am really interested in finding out for good if a Packet Coordination group
```

> can MANDATE usage of a frequency.

A lot of folks are interested in this. About 13 years, ago, several of us did, in fact, try to get some degree of organization going on Packet. The coordination effort, then, was a dismal failure.

the thrust was to equalize resources, and perform some spectrum utilization management. The typical response was, "It's MY TNC, I'll put it where I want, running however much power I want to run."

Oh, and simply asking for a rough Lat/Lon literally led to some instances of death threats.

Outside of some individuals with a clear concept of a network plan, and some few clubs with a similar idea, little real planning or coordination has been done with packet. Obviously, recognizing a few exceptions out there...

Packet has historically been granted frequencies (subbands) from the analog coordinators for packet use. In return, the coordinators do not put any anaolog operations there. Since the effort exceeds mere repeater location coordination, but extends to band-use planning ans spectrum management, it's not always trivial to grant Packet some more of that precious band. But it is expected.

Wish there were a simple answer to your question.

gerry

---

641. GPS Antenna Specs.

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Thu, 21 Mar 1996 13:50:14 -0500 (EST)
To: aprssig@tapr.org
Cc: File <file@paccomm.com>
Message-ID: <Pine.LNX.3.91.960321134708.2708A-100000@paccomm>
Rendered body type: text/plain

Previously I announced the availability of a small GPS antenna from PacComm. There have been numerous requests for specifications. Here they are. To recap, these antennas are available from PacComm for $50 plus shipping. Delivery may take up to 2 weeks after order is placed.

Call 800-486-7388 to order.

73,
Gwyn Reedy
PacComm

New Miniature GPS Antenna from Trimble Navigation

Trimble's OEM Products Group announces a miniature GPS antenna for use with the SVee6-CM3 receiver. The new antenna featurs a 25 dB LNA, small size (47 mm x 40 mm x 13.3 mm, 180 gms.), magnetic mounting, and a 5 meter cable. This weatherproof antenna is designed to operate with or without a ground plane and includes filters for improved jam immunity. List price is $75 when fitted with an SMB connector.

Total specification (through antenna, LNA, cable, and connector)

Frequency Range	1,575.42 +/- 1.023 MHz
Gain	23dBi MIN (on 65 x 65 mm ground plane, -40 to +80C)
Noise Figure	1.6 dB MAX (+23C) 2.3 dB MAX (+80C)
Output Impedence	50 Ohms
VSWR	2.0 MAX
Out of band rejection	+/- 20 MHz 7dB MIN +/- 30 MHz 12 dB MIN +/- 50 Mhz 20 dB MIN +/- 100 MHz 30 dB MIN

- end -

---

642. Garmin-45/Lost data

From: dwiant <dwiant@ag.net>
Date: Thu, 21 Mar 1996 14:19:52 -0500
To: aprssig@tapr.org
Message-ID: <3151ABD8.1B83@ag.net>
Rendered body type: text/plain

```
Using my Garmin-45, laptop and HSP interface, I have mapped some local
roads and saved the track to the HST file.  Now, with version 7.5, my
history file contains only a few readings and the major part of the
track is lost.  What setting needs changing to save to the HST file more
than a few points?

Don Wiant
N2ZTN
Lockport, NY
```

---

643. ZDNet News Flash!

From: ZDI Software Library Temp <ZDI_Software_Library_Temp@zd.com>
Date: Thu, 21 Mar 1996 13:26:51 -0400 (EDT)
To: aprssig <aprssig@tapr.org>
Message-ID: <9603212250.AA1371@mail.zd.com>
Rendered body type: text/plain

[Empty message body]

---

644. Re: [APRSSIG:7756] NMEA standards / FM time-of-day

From: mark@y100.com
Date: Thu, 21 Mar 1996 15:53:04 GMT
To: aprssig@tapr.org
Message-ID: <199603211553.PAA13193@y100.com>
Rendered body type: text/plain

```
On Wed, 20 Mar 1996, kevenm@valtek.com (Keven Miller) wrote:

>Recently I had to replace my VCR at home. Many new models have auto-clock
>set. The salesman said that the time-of-day was sent over FM radio. Does
>any one have info/knowledge about that?


Some of the new Audio/Video consumer receivers (Denon "Pro-Logic" in particular)
can demodulate the RBDS (Radio Broadcast Data System) subcarrier which is now
transmitted by many FM broadcasters, including WPLY in Philadelphia where I
handle the engineering duties.  This scheme, based on Europe's RDS, uses biphase
PSK at 57 kHz and deviates the main carrier about 2 kHz (about 2.7% of the total
deviation of 75 kHz).  In addition to providing time of day, the RBDS signal can
send the station's call sign, program format, traffic report information,
paging,  alternate frequency data and a 64 character text string -- we transmit
the title and artist of the song currently playing.  Some stations are sending
Differential GPS data, sold by "subscription" by DCI to users.  If you want more
information on RBDS, check the WPLY web site, http://www.y100.com -- it's under
"Station Information" and "Technical Information".

I'm presently working on a means to get a GPS receiver to talk to my RBDS
encoder, so that its internal clock can be automatically synched to the time
data provided by GPS.

73,

Mark N2CHV
```

---

645. Re: [APRSSIG:7781] Garmin 45 data wiring question

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 21 Mar 1996 13:58:46 -0600
To: aprssig@tapr.org
Cc: weather@xnet.com
Message-ID: <v02130500ad77616da00c@[199.1.154.164]>
Rendered body type: text/plain

```
>I have had the Garmin 45 for about a year now, and I had a question, when I
>this wire go, and what mode do I put the garmin in when using with software?

The Software should tell you when to use what
 Garmin/Garmin to up/down load routs/tracks information
 NEMA/NEMA when you want to see live position data

I use MacGPS and MacGPS PRO but same Idea,

 ### From the Garmin-45 internet  FAQ  version 1.0.7  ###
 ###       120 K of information you should read        ###
```

and I would be shot if I uploaded it to the APRSSIG :-)

-How do I interface the GPS 45/40 to an computer?

		IBM-PC compatible		
Function	Garmin color*	DB-25 socket	DE-9 socket	GPS 45
--------	------	-----	----	
Data in	White	2	3	Data In (White)
Data out	Brown	3	2	Data Out (Brown)
Ground	Black	7	5	Ground (Black)
power in	red	N/A	N/A	(for ext. power only, do not forget to add a 1/4 Amp fuse!)

The standard RS-232 connector is a 25 conductor DB-25, although many PCs (and some other equipment) now use a 9 pin DE-9 (often incorrectly called DB-9)

Serial Port Connections

Computer (DTE)				Modem
DB-25	DE-9	Signal	Direction	DB-25
2	3	Tx Data	->	2
3	2	Rx Data	<-	3
4	7	Request to send	->	4
5	8	Clear to send	<-	5
6	6	Data Set Ready	<-	6
7	5	signal ground		7
8	1	Data CarrierDetect	<-	8
20	4	Data Terminal Ready	->	20
22	9	Ring Indicator	<-	22

For NMEA-0183 interfacing, we are only concerned with Rx Data, signal ground (and possibly Tx Data, if we want the computer to talk to the GPS)

>From the Mac to Garmin FAQ

Macintosh:

GPS 45	Macintosh
Data Out (Brown)	Receive Data (5)
Data In (White)	Transmit Data (3)
Ground (Black)	Ground (4)
Power(+)(Red)	No Connection

Serial Port

The PowerBook 520 and 540 computers have a standard Macintosh serial port for synchronous, asynchronous, or AppleTalk serial communication. The 8-pin mini-DIN connector on the back panel is the same as those on other Macintosh computers.

```
    notch
   8  7  6

  5   4   3

    2   1
```

Pin number	Signal	
1	HSKo	Handshake output
2	HSKi	Handshake input
3	TxD-	Transmit data -
4	SG	Signal ground
5	RxD-	Receive data -
6	TxD+	Transmit data +
7	GPi	General-purpose input
8	RxD+	Receive data +

PS

```
lookes like the degree sign is not making it through the internet to
my mailer (Eudora)   I get this.

* 42=B001'12"N 88=B009'37"W      -    http://www.xnet.com/~weather     *
*********************************************************************


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

646. Re: [APRSSIG:7781] Garmin 45 data wiring question

From: jneely@eden.com (Jim Neely)
Date: Thu, 21 Mar 96 14:26:06 EST
To: aprssig@tapr.org
Message-ID: <199603212026.OAA02245@matrix.eden.com>
Rendered body type: text/plain

```
Ron,

My Garmin owner's manual shows that the white cable is data_in and the brown cable is data_out.  It will
 depend on the connector you are using as to which pin they go to.  I don't have the diagram in front of
 me, but I think they go to pins 2 and 3 on the 25 pin serial connector.

Good luck.

jn


On Thu, 21 Mar 1996 00:26:11 -0600 (CST) you wrote:

>I have had the Garmin 45 for about a year now, and I had a question, when I
>wired up the connector to work with my TNC, I thought the white wire (Data
>Into GPS) was not needed, and I found that to be true cause the KPC-3
>doesn't have to initialize the GPS.  But i am learning that I can use this
>GARDOWN software and i am told you just unplug the kpc connector and plug it
>right into the computer serial port?  Now I think I need this white wire
>hooked up to some PIN on the DB25, need some help on this....  Where does
>this wire go, and what mode do I put the garmin in when using with software?
>*********************************************************************
>* Ron Malinowski, Jr.        + Amateur Radio Operator: N9QGS       *
>* Amateur Weather Observer   - SKYWARN    APRS WEATHER 145.79 Mhz  *
>* STREAMWOOD, ILLINOIS       + Home Page:                          *
>* 42=B001'12"N 88=B009'37"W      -    http://www.xnet.com/~weather     *
>*********************************************************************
>
>
Jim Neely
jneely@eden.com WA5LHS@tapr.org
```

---

647. (no subject)

From: WB9WOZ@aol.com
Date: Thu, 21 Mar 1996 16:05:29 -0500
Message-ID: <199603212105.QAA25999@emout05.mail.aol.com>
Rendered body type: text/plain

```
0

In a message dated 96-03-20 10:31:50 EST, you write:

>WB4APR REPLY COMMENT:  Great idea...  Apparently you are suggesting send
>a MESSAGE and get an ACK...  Nothing wrong with that.  BUT it is less than
>optimum by 50% because you  are requiring ACKS...  How about asking folks
>to put the following in their POSITS:  CHECKIN Sam.  This accomplishes
>the same thing in ONE THIRD the number of packets.
>
>Now, as NET CONTROL sees these special CHECKIN's he posts an APRS BULLETIN
>similar to the following:
>
>To: BLN1: CHECKINS: W9XYZ, N8XYZ, AA9ABC, N9ABC, N7LMN, F3FRG, WB7XYZ, ETC
>
>LATER on, he can begin adding BLN8: CHECKOUTS:.....
>
>Im not suggesting that the Chicago net change your plans, but this gave
>me the opportunity to "stump" about thinking about ways to use the unique
>features of APRS.  Another advantage of this technique, is that EVERYONE
>elsse can see WHO is checked in in one list.
>
>Also remember that you dont have to wait till you get 8 checkins to send
```

>out BLN1... Send it with one callsign if you want... because you can
>always send another BLN1 by retyping it over... It will replace the
>previous ones.. (But be sure to ERASE the first one!)
>
This is what I'm looking for...INPUT. Excellent idea. Several heads are
better then one.
I think your idea is definitely better.
For those who have inquired, the local Chicago area will be on 145.79 MHz.
Other stations outside of our area that need to GATE (from HF), or GATE,GATE
(from far away VHF), PLEASE add N9RER-15, **NOT WIDE** after last GATE so we
dont tie up other nets cross country. That way you will digi into the Chicago
net only. (I hope I got that right Bob)

I'm open for comments,questions,etc. Remember, we at NIAN want to make this a
regular weekly net.

Bruce Tobias
WB9WOZ

---

648. Re: [APRSSIG:7776] APRS Torch tracking via SAT

From: ku0g@sprynet.com
Date: Thu, 21 Mar 1996 13:29:25 -0800
To: aprssig@tapr.org
Message-ID: <199603212129.NAA07774@sprynet.com>
Rendered body type: text/plain

Count me in.... Have everything but the GPS and that'll be here soon!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

649. Re: [APRSSIG:7787] Re: CIBA Launch Notice

From: davidc@tbcnet.com (David Chesser)
Date: Thu, 21 Mar 1996 15:31:21 -0600
To: aprssig@tapr.org
Message-ID: <199603212131.PAA08976@tbc2.tbcnet.com>
Rendered body type: text/plain

The person to contact for info on the Peoria balloon launch date's and
directions mail address is gregn9xhj@aol.com CIBA's home page is
http://www.ocslink.com/~melliott/#balloon where most of the info can be
found

73's KA9NHL

---

650. Last Call for Maxon Transmitter

From: mark.endicott@nashville.com
Date: Thu, 21 Mar 96 17:40:12
To: aprssig@tapr.org
Message-ID: <199603212353.RAA26412@tapr.org>
Rendered body type: text/plain

** LAST CALL FOR TRANSMITTERS **

I HAVE AN OFFER TO PURCHASE ALL OF THE REMAINING TRANSMITTERS.
IF THERE IS ANYONE OUT THERE THAT WANTS ONE CALL ME SOON. ALL
UNITS THAT I HAVE CHECKS FOR HAVE BEEN SHIPPED AS OF 03-21-96.

Edited text of original post follows:

I have run across a very small quantity of Maxon VHF Data
Modules that I would like to make available to the APRS
users on this SIG. They are the DT-0510 model, TRANSMITTER
ONLY VERSION. These are brand new units, however they were
bought surplus from Maxon in liew of warranty. Maxon has
discontinued this model but they are still making the TX/RX
version of the same unit. When these are gone there will be
no more. This transmitter is rated 5 watts, and is capable
of 9600 baud (not tested). They are supplied configured for
2 watts output and are on a test frequency near 151 Mhz. We
have been using them on 145.79 (1200 baud) here as APRS
stand-alone trackers here with great success.

Specifications:

Size: 2 3/8w x 4 3/4l x 3/4h (all metal housing)

```
Power: 10.8VDC @ <1 A @ 5W, <.6 A @ 2W (14 V could toast it)
Inputs: DB9 ,( Power p.5) (Ground p.4) (PTT p.3)
        (Audio {data} p.1 @ 250-350 mV adjustable)
Output: BNC Connector, 50 Ohm
FCC:  Type Accepted for Commercial Service.
```

Included with each unit is basic technical information and how to modify them for 5 watts. (one jumper) Tune up on 145.79 has been very straight forward with no problems or component changes required, just install the crystal and tune up. Some of the units tested have not put out the full 5 watts, at 145.79 but all have been at least 4.5 W at 10.8 VDC. Crystals are readily available from most suppliers, specify for Maxon CP-0510.

If you want one, send $40.00 plus $2.75 for UPS to me at the address listed below. If you need more information please e-mail me, direct only, or call (800) 431-2929 M-F 9-4:00, ask for Mark

mark.endicott@nashville.com. WB0NOO

```
  If Found, Please Return To:
 ______________________________
|                              \
|         Mark Endicott          \
|        P.O. Box 148242           \
|   Nashville, Tennessee 37214      >
|            WB0NOO                /
|  mark.endicott@nashville.com   /
|_______________________________/
```

---

651. Re: [APRSSIG:7793] Garmin-45/Lost data

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Mar 1996 20:59:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960321205845.2130A-100000@greatlakes>
Rendered body type: text/plain

On Thu, 21 Mar 1996, dwiant wrote:

> roads and saved the track to the HST file. Now, with version 7.5, my
> history file contains only a few readings and the major part of the
> track is lost. What setting needs changing to save to the HST file more
> than a few points?

WB4APR REPLY COMMENT:
1) make sure you have set LOG on and saved it in your CONFIG file
2) Make sure you have set your POSrate to the rate at which you want to save points.

---

652. Re: [APRSSIG:7781] Garmin 45 data wiring question

From: rwf <rwf@mindspring.com>
Date: Thu, 21 Mar 1996 22:25:53 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960321222554.2bf7e702@mindspring.com>
Rendered body type: text/plain

At 12:24 AM 3/21/96 -0600, Ron wrote:
  Now I think I need this white wire
>hooked up to some PIN on the DB25, need some help on this.... Where does
>this wire go, and what mode do I put the garmin in when using with software?

Ron- it goes onto the pin of your computer's RS232 connector that has TX data out.
Tha GPS45 is put into Garmin-Garmin mode for use with Gardown7.

Gardown7 is a nice little program, but remember to direct its output to a file or something. It doesn't just "come up on the screen", it is just the I/O routine

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor

rwf@mindspring.com or n4neq@amsat.org
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and APRS. Ask me how!

---

653. Re: [APRSSIG:7779] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 22 Mar 1996 00:07:55 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603220607.AAA20474@solar.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:

> Now Gerry i didn't call you stupid!!. Just because i found a legal way around
> that group that it's on;y interest is to provide frequencies for friends and
> those people that already have coordinated frequencies. Believe me when i say
> it's not the great coordinating body you speak of. I take it that this is hitting
> you hard simply because you are one of them that think you should be lord and
> master over who will or will not get a coordinated frequency. I didn't break
> any rules, but rather used the rules to get what WE where after. Before i did this
> i attempted to follow your rules and all i got was flack and closed doors!.
> After i did take the path i did the frequency coordinating body finally did give
> me the official papers i asked for in the first place. So Gerry i do have papers
> stating 145.790 is a coordinated frequency. Just to explain a little about your
> coordinating body's and the fine job they are doing, in most cases this may be true
> but not in Alabama. They started to place packet BBS's and digi's on the few
> simplex frequencies that are left in this area untill i told them i would park
> myself on those frequencies and talk to anyone i could reach with my system in an
> attempt to gather signatures to prevent them from doing this, guess what it
> worked and we still have our few simplex frequencies no thanks to the so called
> coordonating body in this area of North Alabama.

No. You misused a description of a mechanism to define a new group in the event that another is not performing its function.

What you did was get your feelings hurt, and try to open your own coordination group.

I cannot speak to whether the coordination body in your area is functioning appropriately, or not, but I can state that at least in Texas, and a large portion of the country, we are self-policing as are MOST hams. And we tend to go out of our way to do a good, unbiased job.

Since you obviously do not know the history of how packet got its frequencies, there's little I can do to enlighten you. Suffice it to say, packet is a new mode. Coordination has ben occurring around the country since well before packet even thought of appearing. Someone had to cede frequencies to give packet a place to start and congregate.

> Well Gerry take the time to research the fact that what i did was strictly following
> all of the FCC rules pertaining to coordination even tough some may disagree with
> it because they feel that the so called coordinators should controll who should get
> what frequency even tough there are many hams that wanted that frequency. Gosh
> Gerry wake up it's done everyday not just with amateur radio.
>
> Sorry you disagree with my method but when following your rules got me nothing
> but flack and harrassment i researched the rules and followed them.

Possibly because of your approach?

> > PS: Is there *ANY* interest in some of us trying to work within the
> > coordination community, or would the majority prefer to go off willy-nilly and
> > occupy frequencies with packet regardless of other users (THAT is called
> > interference, by the way...)???
>
> Call it what you want it but as i see it i have a legal coordinated frequency as
> i have the papers to show that i do. Guess who the FCC would side with. So the
> fact is if you want to call it interference that makes you rather stupid i think.
> I didn't want to start this type of sig posting again but i will not stand by
> and let someone call me stupid because of my opinion, i think pretty low of a
> person like that.

I did not really intend to call you, specifically, stupid. I can infer, from your actions, a general disregard for normal procedure and a preference to disrupt rather than attempt to work within an established structure. I apologize if I called you something you'd prefer to not see.

Gerry N5JXS

---

654. Re: [APRSSIG:7737] Re: APRS coordination in AZ

From: ku0g@sprynet.com
Date: Thu, 21 Mar 1996 13:36:40 -0800
To: aprssig@tapr.org
Message-ID: <199603212136.NAA08783@sprynet.com>
Rendered body type: text/plain

```
On Tue, 19 Mar 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
<SNIP>
...gives 15 KHz
>separation to existing users on 145.77.  But you will be waking a
>sleeping "tiger" in the form of Buck ROgers, the editor of the Packet
>Perspective column in CQ magazine..  who "manages" 17 nodes throughtout
>the south on 145.77....  and adamantly will not accept a 15 khz neighbor.
>
Well, I'd say that pretty well shoots down the idea of 145.77 or .785
then....Anybody have any other ideas?  What about 144 MHz?  I know that locally
we have activity on 144.91 through 145.09 on each of the 20-kHz channels
allocated.  Is it possible to drop below into the 144.80-.89 range?  Admittedly
I'm just not up on current allocated channels or "gentlemens agreements" any
more since I've gone to operating practically 100% APRS packet mode (except for
the BBS on 145.09 here...)..

Could someone enlighten me/us?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

655. Re: [APRSSIG:7801] Last Call for Maxon Transmitter

From: Fred Quarles <fredq@bihs.net>
Date: Fri, 22 Mar 1996 04:47:21 -0600
To: aprssig@tapr.org
Message-ID: <31528539.4FB4@bihs.net>
Rendered body type: text/plain

```
Hello Mark,

I would like one of the units if you will hold one for me, I will send the check when I receive
confirmation,
via email, that you will hold one for me. Thanks alot.

Fred, KC5HHN
```

---

656. Re: [APRSSIG:7804] Re: APRS coordination in AZ

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 22 Mar 1996 06:14:12 -0800
To: aprssig@tapr.org
Message-ID: <3152B5B4.450A@hiwaay.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:

> I did not really intend to call you, specifically, stupid.  I can infer, from
> your actions, a general disregard for normal procedure and a preference to
> disrupt rather than attempt to work within an established structure.  I
> apologize if I called you something you'd prefer to not see.
>
> Gerry N5JXS

BUT YOU DID CALL ME THAT, yes i do have a disregard for groups (Or individuals)
that think because they have been hams for a long period gives them a right to
dictate what frequency should be coordinated to what. Wake up Gerry i didn't do
anything that was not according to any FCC rule, i just used the rules for our
benefit (Perfectly legal). Listen Gerry i tryid it your way and it didn't work
don't you understand that?. My way did work and you say that makes me stupid!.
And again i will make the statement that if you are having problems getting a APRS
frequency coordinated and the local coordination group doesn't even want to discuss
the request gather all the APRS users in you area and elect an APRS coordinator and
first attempt to work with the so called legal coordination group, and if that
doesn't get you anywhere park yourself on an unused frequency and call it rhe
coordinated APRS frequency in your state. I am NOT suggesting you do this before
you attempt to do it trough your area coordination body, but if they are as they
are here then it's a way out.
```

Bill KE4EER

---

657. Re:[APRSSIG:7806] Re: Last Call for Maxon Transmitter

From: mark.endicott@nashville.com
Date: Fri, 22 Mar 96 07:25:49
To: aprssig@tapr.org
Message-ID: <199603221341.HAA14550@tapr.org>
Rendered body type: text/plain

```
Fred:
        I got your name on one...Thanks, Mark


    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

---

658. Re: APRS coordination in AZ

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Fri, 22 Mar 1996 08:06:35 -0600
To: aprssig@tapr.org
Message-ID: <9603220806.AA35730@oscar.telalink.net>
Rendered body type: text/plain

Some of this coordination discussion is interesting, most of it contains way
too much flameage and should be taken off the net and done by private e-mail
(praise in public flame in private).

It seems to me that we should do what we can to keep the psudo standard of
145.79 on the 2m band where we can and start looking at other bands for
9600baud or hybrid1200/9600baud frequencies now. Something in the 1.25m and
70cm bands before they get too crowded. I would think our energies will be
better spent in this direction. I know that 220 radios are hard to find but
more the challenge.

73
Bruce

---

659. Re: [APRSSIG:7807] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 22 Mar 1996 08:22:11 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603221422.IAA24296@solar.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:
>
> Gerald J Creager wrote:
>
> > I did not really intend to call you, specifically, stupid. I can infer, from
> > your actions, a general disregard for normal procedure and a preference to
> > disrupt rather than attempt to work within an established structure. I
> > apologize if I called you something you'd prefer to not see.
> >
> > Gerry N5JXS
>
> BUT YOU DID CALL ME THAT, yes i do have a disregard for groups (Or individuals)

I also made some move toward retraction.

> that think because they have been hams for a long period gives them a right to
> dictate what frequency should be coordinated to what. Wake up Gerry i didn't do
> anything that was not according to any FCC rule, i just used the rules for our
> benefit (Perfectly legal). Listen Gerry i tryid it your way and it didn't work
> don't you understand that?. My way did work and you say that makes me stupid!.

I feel very strongly that "your way" makes life much harder for those of us
who have to try to maintain the "system." That there are APRS users and fans
within the coordination community could help. Hearing that someone "just set
up their own" coordination entity because they didn't get an answer they
wanted, makes the job of convincing the established community that APRS is not

a bunch of shhot-from-the-lip folks considerably more difficult.

> And again i will make the statement that if you are having problems getting a APRS
> frequency coordinated and the local coordination group doesn't even want to discuss
> the request gather all the APRS users in you area and elect an APRS coordinator and
> first attempt to work with the so called legal coordination group, and if that
> doesn't get you anywhere park yourself on an unused frequency and call it rhe
> coordinated APRS frequency in your state. I am NOT suggesting you do this before
> you attempt to do it trough your area coordination body, but if they are as they
> are here then it's a way out.

Creating a competing coordination group makes everyone's life harder. Tell me, what are you going to do when someone comes to you for a repeater coordination? Or, an ATV repeater coordination? Did you participate in the St. Louis meeting where most of the coordinators (those who could be identified and notified, including the California splinter groups) were invited and a majority attended? Have you seen what has gone into developing the requested Single Point of Contact with the FCC?

A more acceptable approach, if you did not receive a reasonable hearing at the coordinator is to appeal it to their board of directors and/or their membership. A well reasoned appeal, absent the vitriole, usually works better than a frontal assault on the work they have been doing, something that seems important to them. Recall that one of the things that makes this thing a hobby is the various things one can do. If someone sees a burning need to help organize repeaters, packet, etc., and works within the normal channels, it can be very rewarding. It can also be a real pain.

---

660. Need David Chesser's email address

From: JAgrelo@aol.com
Date: Fri, 22 Mar 1996 09:31:44 -0500
To: aprssig@tapr.org
Message-ID: <960322093143_174744581@emout04.mail.aol.com>
Rendered body type: text/plain

Dave,

Are you listening?

If your going to use the MIM with the HPVFC, make sure you put a 1000uF electrolytic cap across the audio parallel to ground.

This was suggested by WB4APR when he discovered noise coming from the MIM's clock was getting into the audio. I will add a filter for the MIM/HPVFC combo board.

Hope you get this message, if not can someone forward it to Dave for me.

Thanks
 73 de Joe N2OOC

```
-----------------------------------------------------------------------------
----------------
                                            Joe Agrelo/N2OOC
                                            Agrelo Engineering
                                             Ph (518)381-1057
                                             Fx (518)381-1058
                                         E-mail- jagrelo@aol.com
                        In the Web  http://home.navisoft.com/agrelo/ae.htm
     Designer and Manufacturers of intelligent microprocessor based Doppler
                                            and talking products
                          Experts in Microchip and Motorola processors
                   Cruise Missile Coordinates 42 47.427N,  073 56.525W
-----------------------------------------------------------------------------
-----------------
```

---

661. Re: [APRSSIG:7807] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 22 Mar 1996 08:32:09 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603221432.IAA24375@solar.cs.tamu.edu>
Rendered body type: text/plain

I'd like to take the time to apologize to the SIG, and to Bill, for the last round of diatribes.

Bill, I'd suggest we need to take this off-line. Overall, I think we will need to agree to disagree.

The issue of railing about coordination has gone on too long. At some point,

I'll sit down and organize thoughts, and post those in as coherent a fashion
as I can concerning approaching a coordination group with an approach that
should be a reasonable response to most of the concerns likely to be adressed.

Again, there are several of us active in APRS who are also active within the
recognized coordination community. That we are APRS users has not enhanced
our standing too much, but at least we've been asked to explain what it does
and how it works. That's a first step toward getting enough understanding to
allow us to migrate toward a coordinted (in a different sense) effort for a
unified national frequency.

And as a final shot: From where I sit, I do not see a unified frequency
happening on 2 meters. It's too crowded, there are too many other uses for
145.79 besides APRS, that are already in place and more mature. Most
metropolitan areas have a backlog of analog requests for coordination, and a
surplus of digi's and nodes for packet using most/all of the recognized
channels. while that'd be nice, and I'd really like to see a 1200 baud, 2
meter channel happen, wishing won't make it so. If you can reasonably use
145.79 in your area, great. If you cannot, seek a homeland somewhere else and
let us know where it is. Me? I'm planning to migrate to 440. I suspect that
a channel in the 438.1--438.2 region might just be a possibility. Nationwide.
Still have to see concensus from the APRS user community to pursue that, and
then try to get concensus from the FC community to grant a channel or 2...
Anyone up for 9600 baud position reports?

73, gerry
n5jxs@tamu.edu

---

662. 145.79

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Fri, 22 Mar 1996 06:49:51 -0800
To: aprssig@tapr.org
Message-ID: <199603221449.GAA20064@CATI.CSUFresno.EDU>
Rendered body type: text/plain

145.790 is the OFFICIAL APRS Frequency of Southern California! With the
addition of the Minimize option in the software, there should be no QRM to
the satelitte, shuttle or space station operations. What is distressing is
to see other communities buckling under to the squeaky few and NOT using
145.79! This is the NATIONAL frequency, not local! I am planning a trip to
Northern Cal for the Visalia DX Convention, but I might as well leave my
standalone tracker home! once we leave the LA Basin, APRS shifts over to
145.01 for some unknown and strange reason. 145.01 is supposed to be for
regular packet and keyboard/node/BBS operations. APRS on that freq is
ridiculous as it wastes that freq for normal users. That is why 145.79 is
there! So travelers can transverse the country with a single crystal rig
like my MFJ 8621 and be always on the map. Come on, Northern Cal! QSY to the
NATIONAL frequency 145.79 and give 145.01 back to the non-APRS Packeteers!
Is there QRM on 145.79? Yes there was QRM in SoCal as well, but with the
explosive growth of APRS, the interlopers realized their attempts to hold
the frequency were useless and they QSY'd! We are looking for more high
level WIDE nodes in LA area to give saturation coverage of all of SoCal.
So my question is "What is happenning in NoCAL?" Obviously APRS is active
in the Bay area but SY□Why on 145.01????
73, Pat WA6MHZ
ARRL San Diego Section Manager

---

663. NMEA-0183 Interface Standard.

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Fri, 22 Mar 1996 08:43:27 -0800
To: aprssig@tapr.org
Message-ID: <199603221643.IAA14807@poseidon>
Rendered body type: text/plain

All Sig usrs:
    Ref NMEA-0183 Standards. Foll from the Sept/Oct 95 "Marine Electronics
Journal" Magazine "The Official Journal of the NMEA."

  Page 39.   NMEA PUBLICATIONS..
    Order your 1995 revised copy of NMEA 0183 version 2.1 scheduled for
release November 1. Purchase of the new document includes a one-year
subscription to Marine Electronics Journal and updates to the interface
standard for one year.
   MEMBER PRICE $60.00
   NONMEMBER PRICE... $125.00
      Prices include shipping charges via postal service.

METHODS OF PAYMENT: Check in U.S. dollars drawn on a U.S. bank;
Matercard;/Visa accepted by fax or phone (card holer, number and expiration

```
date needed).

    NMEA
    P.O Box 3435
    New Bern, NC. 28564-3435
    919-638-2626
    Fax: 919-638-4885 ...

   I recently posted the $GPRMC & $GPGGA SENTENCES here last week and on ALLUS'
Packet BBS's.. Perhaps if you contact specific manufacturers Tech service they
may fax/copy required sentences for your needs. Motorola techs, sent me copies
of 5 pages of NMEA applicable info, rather than the above hi-priced manual.
     73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA. (wbliss@coastside.net)

NNNN


WBB/WB6LPG
```

---

664. Cross country flight and APRS?

From: "Wannamaker" <wannamaker@macnet.vpharm.com>
Date: 22 Mar 1996 11:58:22 -0500
To: aprssig@tapr.org
Message-ID: <n1384627054.69749@macnet.vpharm.com>
Rendered body type: text/plain

```
Please don't flame me because I'm new to APRS but I need some help.

Here is the problem:

A friend is preparing to fly from Hanscom Field (BED) to LAX in his Cherokee
then up the CA coast and back across the Rockies. I thought it would be great
to keep track of his progress (and safety) with APRS. His plane is equipped
with a panel mounted Apollo II GPS so I reasoned that we could just connect a
TNC and a handheld and be in business.

Could someone offer us some guidence? What gear is needed? Can I keep track
of his position all across the country? How difficult is it to interface the
radio/tnc/gps? Would a handheld GPS be better? How often should he transmit?
What frequency should he use?

Send replies to:

wannamaker@vpharm.com

Thanks,

~Woods
```

---

665. Re: [APRSSIG:7788] RE: PacComm Pico Packet with GPS

From: JAgrelo@aol.com
Date: Fri, 22 Mar 1996 09:22:46 -0500
To: aprssig@tapr.org
Message-ID: <960322092244_174738413@emout05.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-22 03:39:06 EST, you write:

>TNC settings as follows
>gpstext !!  ($GPRMC)
>[string to recognize]
>lpath aprs v relay,digi1,digi2,digi3,wide       [digi path for wx data]
>loc e 30
>[becon wx string every 5 min]
>b e 30
>[becon btext every 5 min]
>BText    !4156.45N/09142.42W_               [postion format forstandalone
>WX]
>             (whatever you want in this case)
>unproto aprs v relay,digi1,digi2,digi3,wide  [digi path for becon data]
>uimode on
>[seemed to be the secret trick]
>mya relay                                                           [so
>you can still relay]
>        Plus the normal stuff like my, myp and so forth. I use an rs232
>cable that has two rs232 connectors per end, so it can pass through data on
>both ends. With this cable I can still us my Peet Bros datalogging software
>as well as transmit WX data in the APRS format. Special thanks to Bob for
>his patience in not pointing out my stupidity (it's all in those readme
```

>files he wrote) and to Paul at Paccom for the firmware EPROM chip he sent.
>   Also on a 2 port Pico it does make a differece which position the
>switch is in, make sure it's the left on position, looking at the back, and
>not the right on position.

Thanks for your help.

73 de Joe N2OOC

Joe Agrelo/N2OOC
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web http://home.navisoft.com/agrelo/ae.htm
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

----

666. Re: [APRSSIG:7813] 145.79

From: Dick Mead <mead@hamal.usc.edu>
Date: Fri, 22 Mar 96 10:20:14 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.827518814.mead@hamal.usc.edu>
Rendered body type: text/plain

> 145.790 is the OFFICIAL APRS Frequency of Southern California! With the
...
> Is there QRM on 145.79? Yes there was QRM in SoCal as well, but with the
> explosive growth of APRS, the interlopers realized their attempts to hold
> the frequency were useless and they QSY'd! We are looking for more high
...
> 73, Pat WA6MHZ
> ARRL San Diego Section Manager
>
>

Hmmm. Interesting you should call the folks using the adjacent channel
"interlopers". I am sure that's exactly the same term (and I heard worse,
too) used about us APRS/packetters by the group that was there.
I've seen this mode of operation happen before, it's not pretty, and
it could backfire. Just plop down on whatever frequency you want and
gang up on your opponents. Cool. Did the 2Mtr SMA in LA finally really
approve 145.79 for APRS, or are you still referring to the San Diego
SMA group?

And yes, I do use 145.79 when I fire up APRS. So I guess I am
just as guilty (if guilt is necessary). I have also been at the
other end of this kind of skirmiish.

This is no flame, and Bill & Gerry should take their war to e-mail now.

Dick WB6NGC

667. Anyone interested in 220 MHz

From: n2czf@gate.net
Date: Fri, 22 Mar 1996 17:49:17 -0500
To: aprssig@tapr.org
Message-ID: <199603222249.RAA18274@osceola.gate.net>
Rendered body type: text/plain

I have been in a discussion PRIVATELY about this coordination with some other
people and two of us were thinking of alternatives. There is nothing sensitive
about the discussion but I do not see why we should add another 200 messages
about the same subject, let me just say "dead horse"...

We were wondering about the number of users that are active or at least able to
participate on 220 MHz if there was reason to do so. 220 is a GREAT band, I
operated it in the NYC area for years and like it better than 2M or 440 but in
many parts of FL all you will find are packet backbones. Right now the idea is
geared towards networking APRS so this is mostly directed to digi operators.

How many people would be willing to go the 220 MHz route for backbones on APRS
instead of 440 MHz ? Equipment is more expensive but the band is really nice.
Commercial grade equipment is also not existent so anything will need to be

```
amateur grade and probably PLL unless someone still has a stash of crystaled
Midland 220 MHz radios. Remember the days when 220 was almost given to CB, it
was so close that Midland made both crystaled and PLL equipment for the band
getting ready for the CB craze! Most ended up on the Sears Outlet Stores bargain
shelf, cheap but not cheap enough for a 10 year old. Remember that most
commercial sites will not ALLOW PLL equipment to be used so this is a
consideration to take into mind.

We can't give up on 440 without even starting but we cannot wait to try to get
220 MHz and possibly 1.2 GHz at a later date. Let's not argue anymore and just
DO IT!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

668. Re: [APRSSIG:7727] Buffer overflow errors

From: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Date: Fri, 22 Mar 1996 18:17:39 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199603222317.AA09991@tigger.jvnc.net>
Rendered body type: text/plain

```
Just my $0.02....

I had a "buffer overflow fix" error as well, APRS74E on a 286 with 450 UARTS.

Had to reboot, the computer was brainless.


At 01:03 AM 3/19/96 -0600, Donnie J. Murray wrote:
>Has anyone else had a problem with a Buffer overflow error when using
>ARPR75a and the U2000 WX station. I am new to all this, and may be doing
>something wrong, I have had it to happen several times, most especially
>when I go into the operations/comm/Tnc to change a TNC setting..
>
>Tnx for any replys
>Don
>AE4BR
>
>
>
--
************************************************************************
** Ronald C. Barnes  KA1KJZ      Engineering Tech, Group W Satellite **
** 1591 W. Broad Street          ARRL CT Section Technical Coord.    **
** Stratford, CT  06497          Member, Soc. Broadcast Engineers    **
**                                                                    **
** The preceding was brought to you by Ouchies (tm)                   **
** The prickly toy you bathe with                                     **
************************************************************************
```

---

669. Re: 145.79 in N. Calif

From: KSwaggart@aol.com
Date: Fri, 22 Mar 1996 22:15:29 -0500
To: aprssig@tapr.org
Message-ID: <960322221528_452705532@emout04.mail.aol.com>
Rendered body type: text/plain

```
145.79 is a very active LAN BBS frequency in the San Francisco area. When
APRS first started, I approached the Northern California Packet Assn (NCPA)
to coordinate a frequency for APRS. 145.01 was chosen by NCPA since it was
the old back-bone frequency and had the least utilization.

73, Ken, W7KKE
kswaggart@aol.com
```

---

670. Re: [APRSSIG:7812] Re: APRS coordination in AZ

From: Fred Quarles <fredq@bihs.net>
Date: Fri, 22 Mar 1996 23:26:00 -0600
To: aprssig@tapr.org
Message-ID: <31538B68.31BB@bihs.net>
Rendered body type: text/plain

```
***Snip***
> let us know where it is.  Me?  I'm planning to migrate to 440.  I suspect that
> a channel in the 438.1--438.2 region might just be a possibility.  Nationwide.
> Still have to see concensus from the APRS user community to pursue that, and
> then try to get concensus from the FC community to grant a channel or 2...
> Anyone up for 9600 baud position reports?
>
> 73, gerry
> n5jxs@tamu.edu

Hi Gerry, pick a 440 freq and I will join you...and at 9600!

        Later. Fred, KC5HHN
```

---

671. Re: GPS for landing

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Fri, 22 Mar 96 21:13:28 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <76@w6dnt.ampr.org>
Rendered body type: text/plain

```
DR> ...known by some other means.  But notice that is the user's
DR> altitude above the center of the earth, and not above the local
DR> terrain, that is being used in this context.

The center of the earth is several thousand miles away. Must not be very
accurate for that purpose.

DR> The problem with using GPS or the differential version of it (DGPS)
DR> for the height dimension in a aircraft landing system is that the
DR> model for the earth's elevation immediately below the aircraft's
DR> descent path to the runway, and within its landing zone, must be
DR> quite accurate, as well as for below its go-around path in case the
DR> approach is aborted before touchdown.

DR> That's why most GPS and DGPS approaches in use, or being defined
DR> today for runways without an Instrument Landing System (ILS), use
DR> GPS or DGPS to create a horizontal reference to follow and then rely
DR> on, say, barometric altimetry referenced to local air pressure at
DR> the surface (i.e., the "altimeter setting") and the airport's
DR> published elevation to create the vertical reference above ground.

DR> Can't get to Cat III that way, but you can get an equivalent Cat I
DR> approach that way (minimum 600' ceiling and 1 mile forward
DR> visibility).

FAA had been testing the system for Cat III in California. Made over a
hundred landings. [April, Popular Science.] But there were two extra
transceivers on the ground. (In addition to the DGPS transmitter.) Probably
to augment position as well as altitude determination. That seems more
complicated than MLS. Why would they use GPS instead of MLS? (microwave
landing.) I would think the latter would be a lot more accurate.

  AL
  """"""""""""""""""""""""""""""""""""""""""""""
             Al@w6dnt.ampr.org
```

---

672. Re: [APRSSIG:7815] Cross country flight and APRS?

From: Sean Smithers <seans@magick.net>
Date: Fri, 22 Mar 1996 23:01:10 -48000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9603222215.A18846-0100000@gp.magick.net>
Rendered body type: text/plain

```
What Model IIMorrow GPS is he using? It could be possible with the right
unit as you can get RS-232 serial data out. I will also need to check if
NMEA data is output. Let me know and I can check with our avionics shop
for the info. If the proper data out is available a Kantronics KPC-3
should be able to use it. I leave your choice of radio up to you as
mounting concerns for an external antenna in type certified aircraft has to
follow specific rules.

BTW don't worry about getting flamed. As long as you don't step between
two fighting elephants, you won't get squashed. Usually if you avoid the
hot topic of the week you avoid that.

==============================================================================
Sean Smithers
Internet:   seans@gp.magick.net
CompuServe: 70132,136
Packet:     N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM
```

On Fri, 22 Mar 1996, Wannamaker wrote:

> Please don't flame me because I'm new to APRS but I need some help.
>
> Here is the problem:
>
> A friend is preparing to fly from Hanscom Field (BED) to LAX in his Cherokee
> then up the CA coast and back across the Rockies. I thought it would be great
> to keep track of his progress (and safety) with APRS. His plane is equipped
> with a panel mounted Apollo II GPS so I reasoned that we could just connect a
> TNC and a handheld and be in business.

---

673. Re: [APRSSIG:7823] Re: Cross country flight and APRS?

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 23 Mar 1996 05:36:46 -0800
To: aprssig@tapr.org
Message-ID: <3153FE6E.3547@hiwaay.net>
Rendered body type: text/plain

```
> Sean Smithers
> Internet:   seans@gp.magick.net
> CompuServe: 70132,136
> Packet:     N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM
>
> On Fri, 22 Mar 1996, Wannamaker wrote:
>
> > Please don't flame me because I'm new to APRS but I need some help.
> >
> > Here is the problem:
> >
> > A friend is preparing to fly from Hanscom Field (BED) to LAX in his Cherokee
> > then up the CA coast and back across the Rockies. I thought it would be great
> > to keep track of his progress (and safety) with APRS. His plane is equipped
> > with a panel mounted Apollo II GPS so I reasoned that we could just connect a
> > TNC and a handheld and be in business.
> >
> >Sean why would anybody flame you on this sig Hi Hi.
```

Just wondering, you didn't mention or nobody asked does this person have a ham license or is this going to be done on another band. Yes it would be great to be able to keep track of your friend that way.

Bill KE4EER

---

674. Re: [APRSSIG:7822] Re: GPS for landing

From: rrucker@cais.cais.com (Dick Rucker)
Date: Sat, 23 Mar 1996 11:11:21 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <v01540b04ad79c36549e6@[206.161.65.81]>
Rendered body type: text/plain

At 00:00 3/23/96, Al Chan - W6DNT wrote:

>The center of the earth is several thousand miles away. Must not be very
>accurate for that purpose.

If you are using "altitude" in the absolute sense as a substitute for one of the pseudo-ranges, then, yes, its accuracy is important. But its accuracy doesn't depend on how far away it is. It depends on

- how accurate is the benchmark that's providing your local vertical reference above MSL,

- on how accurate your barometric altimeter reading is relative to that local reference, and

- the value you use as the local earth's radius.

Percentagewise, the resulting error can be kept quite small, relative to size of the Earth's radius. Thats's certainly good enough to compute your horizontal position on a lat/lon frame of reference for most navigational purposes.

Height above the Earth's surface, or "relative altitude" is a different matter:

Landing an aircraft on the surface of the earth means, in part, to gradually close the gap between your aircraft's altimeter reading and airport's published elevation as you descend along your final approach course. The only factors affecting accuracy in measuring your height above the runway's surface are:

- the difference between the runway's actual high point and the surveyed elevation point published for the airport, and

- the accuracy of your altimeter, given that it has been adjusted so that, in effect, when your aircraft is sitting on that airport's surveyed elevation reference point, your altimeter reads out the airport's published elevation.

The latter is achieved in practice by adjusting your altimeter to the last locally reported "Altimeter Setting" before beginning your approach to landing.

****

>FAA had been testing the system for Cat III in California. Made over a
>hundred landings. [April, Popular Science.] But there were two extra
>transceivers on the ground. (In addition to the DGPS transmitter.) Probably
>to augment position as well as altitude determination. That seems more
>complicated than MLS. Why would they use GPS instead of MLS? (microwave
>landing.) I would think the latter would be a lot more accurate.

MLS is a very expensive system to install, both in the aircraft and at each airport where you would want it, relative to GPS-based landing techniques. In addition, MLS is not backward compatible with ILS and has no use on the aircraft other than for landing or taking off at MLS-equipped airports. While MLS will still be used in certain situations, it has lost most of its momentum as as the next international landing system standard, with the favorite contender now being DGPS-based systems.

In the meantime, ILS will continue to be widely used. The Instrument Landing System (ILS) has been improved considerably since the mid-70s when MLS threatened to replace it. It is not in danger of being displaced soon.

GPS is a much less expensive system to implement and use when viewed from the perspective of individual aircraft owners and individual airport owners.

That's because it is paid for by the federal goverment and its costs can be spread over so many actual and potential users, both civil and military.

Since GPS signals are broadcast globally, it works everywhere. Adding airborne-borne or ground-based users doesn't add to infrastructure cost, but thats does improve the benefits side of the equation and increases public support for its continuation at federal expense.

When aviation's uses of GPS's signals-in-space are considered, the things that add to implementation costs are primarily the requirements for:

- "Integrity"; i.e., the means to ensure that the signals being broadcast are good, and when they aren't, to warn off potential users in a timely way.

- "Differential Correction"; i.e., the means to broadcast corrections to users based on ground-based monitors of GPS signals operating at accurately-surveyed locations.

That's what the various GPS "augmentation systems" are all about, whether "local area" (low power, ground-based transmitters for broadcasting corrections) or "wide area" (transmitters on earth-satellites for broadcasting corrections).

FAA's wide area augmentation system (WAAS) is expected to be good enough to support instrument approaches down to Cat I ceiling and visibility minimums.

Local area augmentation systems (LAASs) are being developed get lower at selected airports, whether Cat II or Cat III minimums. These would be purchased for and installed at selected airports where the cost-benefits are seen to justify the costs, according to potential investors, whether public or private.

Dick

Richard A. "Dick" Rucker

Solo Consulting, Inc.
Fairfax, VA
email via SMTP: rrucker@cais.com
Amateur Radio: KM4ML

---

675. Re: [APRSSIG:7813] 145.79

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Sat, 23 Mar 1996 09:09:33 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960323080222.21722A-100000@ccnet3>
Rendered body type: text/plain

On Fri, 22 Mar 1996, Pat Bunsold wrote:

> like my MFJ 8621 and be always on the map. Come on, Northern Cal! QSY to the
> NATIONAL frequency 145.79 and give 145.01 back to the non-APRS Packeteers!
> Is there QRM on 145.79? Yes there was QRM in SoCal as well, but with the
> explosive growth of APRS, the interlopers realized their attempts to hold
> the frequency were useless and they QSY'd! We are looking for more high
> level WIDE nodes in LA area to give saturation coverage of all of SoCal.

Band Planning has always been a regional process. You and I both know
that national plans fail to address the local issues. Here in California
the 440 repeater sub-band starts at 440, not at 442 as the ARRL national
plan indicates. Further more northern and southern California are
reversed from each other, input - output. When is southern California
going to get their 500, 440 repeaters to switch to the commercial standard
high in low out band plan?

How will the minimize command work with high level high power Wide digis and
the home stations that are grayed out? These stations are not running the
program and will continue to beacon.

Anyone looking to establish a 440 nation wide APRS frequency is out of luck
here in California. This is a vary full voice repeater sub-band. The
coordinated digital and packet operations are at 431 as well as 439 MHz.

> So my question is "What is happenning in NoCAL?" Obviously APRS is active
> in the Bay area but SY□Why on 145.01????

While some of us would like to operate on 145.79, the frequency has been
in use for several years as a full service networked bbs user frequency.
The choice of 145.01 was made after careful consideration of the
available key board to keyboard frequencies.. 145.01 had the least amount
of organized activity. It is now one of the busiest frequencies.

I personally do not buy the concept of nation-wide frequencies for a
particular packet mode of operation. Flexibility is the key. In a couple
years we will see the APRS protocol on several frequencies as more and
more packet applications integrate the system into their operations.

Once the Rose network puts the hooks for APRS into their system we will
be able to network several frequencies, region to region. The concept of
a single frequency based on the lowest common denominator cheapie radio
is absurd.

Someone might want to start a database of the different local and
regional APRS frequencies so they may be shown on the regional maps.

> 73, Pat WA6MHZ
> ARRL San Diego Section Manager

Bob   n6fri

```
     Bob Wilkins                     home    bob@uhf.org
 Berkeley, California                work    bwilkins@cave.org
     94712-2354                      play    n6fri@n0ary.#nocal.ca.usa.noam
```

---

676. Reset to "Stand-Alone"

From: warakois@world.std.com (James A Warakois)
Date: Sat, 23 Mar 1996 17:14:40 -0500
To: aprssig@tapr.org
Message-ID: <199603232214.AA16589@world.std.com>
Rendered body type: text/plain

Just a question for all of you GPS hotshots..

Does anyone see a problem with setting up the reset.tnc file with all of the
commands for standalone operation..thus after signing off the laptop the

tnc-gps-transmitter will (with the flick of a switch for signal routing)
become a "stand-alone".

Also ,since I have no easy way of searching my archive of aprssig.mailings
what should the settings of the Garmin-45 be for APRS use?..(I've been
spoiled by my Magellan 5000)..

Thirdly..BAAMAP96.zip will be posted to the tapr filserver..in a couple days
(BAA standing for the Boston Athletic Association..."Boston Marathon"

Jim Warakois   Map Maker
W1KRU   DF'er

warakois@world.std.com
W1KRU@KA1TUZ.EMA.MA.NA

---

677. King KLN90B

From: Dave Kaplan <dkaplan@pionet.net>
Date: Thu, 21 Mar 1996 16:58:03 -0600
To: aprssig@tapr.org
Message-ID: <9603212258.AA26899@ELWOOD.pionet.net>
Rendered body type: text/plain

Bob, (and anyone else who cares),

I have finally got a RS232 drop from my KLN90B aircraft GPS. I get a output
data stream every 5 seconds of about 10 lines of data. Bob, a while back
you told me that APRS works with this output stream. How? What do I need
to do to be able to broadcast this info from my aircraft in a useable
format? I would like to xmit data as I fly from Sioux City, IA to Dayton
for the Hamfest.

I have a data file I saved using QMODEM of a short flight around the airport
last week (about 5 minutes worth) if you need to see it.

Dave

WB0WNX and pilot of Mojave N9232Y.

---

678. Re: [APRSSIG:7827] Reset to "Stand-Alone"

From: rwf <rwf@mindspring.com>
Date: Sat, 23 Mar 1996 18:59:30 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960323190041.20f7a3a4@mindspring.com>
Rendered body type: text/plain

At 04:18 PM 3/23/96 -0600, Jim Warakois wrote:
>
>Does anyone see a problem with setting up the reset.tnc file with all of the
>commands for standalone operation..
>
I have done that... works nicely. I think I set up the Init file also, to
take the tnc out of GPS mode- but don't remember exactly how I did it.
My toggle switch is as shown in Bob's HSP schematic. When I used this mode,
my switch just jumpered
the RX data from the GPS to the TNC's TX data input. I was going to replace
it with a relay that was released when the pc was disconnected from the
cable so it would be automatic, but never got a "round tuit".

---

679. Re: [APRSSIG:7827] Reset to "Stand-Alone"

From: Randy Hammock <hammock@tis.telos.com>
Date: Sat, 23 Mar 1996 22:25:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960323222112.18480A-100000@zentropa>
Rendered body type: text/plain

On Sat, 23 Mar 1996, James A Warakois wrote:

> Also ,since I have no easy way of searching my archive of aprssig.mailings
> what should the settings of the Garmin-45 be for APRS use?..(I've been
> spoiled by my Magellan 5000)..

Just make sure the Garmin-45 I/O Setup is configured for:
NMEA/NMEA
NMEA 0183 2.0
4800 baud

That's it. Every couple of seconds, all applicable sentances are sent
out.

```
--
Randy Hammock KC6HUR                    |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS        |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400  |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770              |     FAX: +1 301 507-5892
   "Age and Guile, beats Youth and Innocence" - P.J. O'Rourke
```

---

680. Garmin GPS 45

From: John Maloney <maloney@mail.teleport.com>
Date: Sat, 23 Mar 1996 23:11:00 -0800
To: aprssig@tapr.org
Message-ID: <199603240710.XAA25786@desiree.teleport.com>
Rendered body type: text/plain

I am trying to figure out the GPS 45. This is all new to me and at this
point, I am totally lost.

I have a AEA PK-12 with the AEA APRS adapter cable.
I have the Garmin Data/Power cable.
The Garmin white wire is connected to the tip wire on the AEA Cable.
The Garmin brown wire is connected to the ring sleeve wire on the AEA Cable.

```
Tbaud is 4800
GNMEA1 is $GPGLL
GNMEA2 is $GPVTG
GPSA IS ON
GPSM IS 1
```

GPS45 I/O Settings are
NMEA/NMEA
NMEA 0183 2.0
4800 baud

There does not appear to be any data comming from the GPS Receiver.

Does anyone have any ideas or suggestions?

---

681. Re: aprs adaptor

From: KD4EMI@aol.com
Date: Sun, 24 Mar 1996 07:42:18 -0500
To: aprssig@tapr.org
Message-ID: <960324074218_254508032@emout05.mail.aol.com>
Rendered body type: text/plain

Is it possible to use the aprs dualport adapter from AEA
in other tnc's ?

Mike
KD4EMI@AOL.COM

---

682. Re: [APRSSIG:7831] Garmin GPS 45

From: rwf <rwf@mindspring.com>
Date: Sun, 24 Mar 1996 08:14:57 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960324081611.35cf9e24@mindspring.com>
Rendered body type: text/plain

John Maloney wrote:

>I am trying to figure out the GPS 45. This is all new to me and at this
>point, I am totally lost.
>I have a AEA PK-12 with the AEA APRS adapter cable.
>I have the Garmin Data/Power cable.
>The Garmin white wire is connected to the tip wire on the AEA Cable.
>The Garmin brown wire is connected to the ring sleeve wire on the AEA Cable.

```
>Tbaud is 4800
>GNMEA1 is $GPGLL
>GNMEA2 is $GPVTG
>GPSA IS ON
>GPSM IS 1
```

Don't know about the AEA settings... Anyway, the GPS mode settings in your
TNC aren't needed when you use APRS on the computer that is connected to the

TNC and GPS (which I assume you are using, since you are using the adapter
cable)

>GPS45 I/O Settings are
>NMEA/NMEA
>NMEA 0183 2.0
>4800 baud
>There does not appear to be any data comming from the GPS Receiver.
>Does anyone have any ideas or suggestions?

Yes:

If you are only connecting the GPS/TNC to make a tracker, then lose the AEA
adapter cable.
In either case, you also have the Garmin connected wrong
On the Garmin cable:
Brn=output data   Connect to tip on the AEA cable   OR in stand alone
mode, connect it to the RS232 input of the TNC
blk=ground   Connect to ring on AEA cable.   OR in stand
alone mode, connect it to the RS232 output of the TNC
white= data in to Garmin (only used with certain applications)
red= 5-40 v DC power input to GPS 45

Hope this helps

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

683. Re: [APRSSIG:7832] Re: aprs adaptor

From: rwf <rwf@mindspring.com>
Date: Sun, 24 Mar 1996 08:17:45 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960324081859.35cfbb1e@mindspring.com>
Rendered body type: text/plain

At 06:48 AM 3/24/96 -0600, you wrote:
>Is it possible to use the aprs dualport adapter from AEA
>in other tnc's ?
>
>Mike
>KD4EMI@AOL.COM
>
>

Yes, I use it on the KPC3.
The critical thing is supplying it power, just like the Paccomm switch, it
expects power on a certain pin (from the TNC)
I wired the KPC3 for external power IN on the rs232 plug (pin 25), then
powered it from the small coax power jack and stole power FROM pin 25. One
jumper change in the AEA switch, and it got power from the proper KPC3 pin.

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

684. Re: [APRSSIG:7828] King KLN90B

From: AZWDC@aol.com
Date: Sun, 24 Mar 1996 09:35:32 -0500
To: aprssig@tapr.org
Message-ID: <960324093532_176370930@emout08.mail.aol.com>
Rendered body type: text/plain

Hi Dave:

Send me about 30 seconds of your output file. We're field testing
prototype eproms
that may do it.

DE JIM

---

685. CD 100K maps

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 24 Mar 1996 07:31:49 -0800
To: aprssig@tapr.org
Message-ID: <31556AE5.5822@hiwaay.net>
Rendered body type: text/plain

I have made many maps but never run into a problem picking files off of
the CD Rom disk. I want to make 3 mile center maps down I65 going from
North Alabama, Tennessee line all the way down to the coast. This will
take around 60 or so maps. My question what is the best way to pick these
area's from the CD since of course I65 is not shown on the CD?. And of
course I65 is not a straight line going trough Alabama.

Bill KE4EER

---

686. NIAN net

From: WB9WOZ@aol.com
Date: Sun, 24 Mar 1996 11:04:32 -0500
To: aprssig@tapr.org
Message-ID: <960324110431_254576039@mail06>
Rendered body type: text/plain

REMINDER AND UPDATE

Northern Illinois APRS Net (NIAN) net on Sunday 3/24/96 @21 UTC (3pm CST)
WB9WOZ is net control
PROCEDURE
Place "Checkin NAME & QTH" in POSIT string
when checking out place "Checkout NAME & QTH" in POSIT string
Windows users should send directed message, its easier then messing with
config file
Stations using GATE or GATE,GATE add N9RER-15 after last GATE **NOT WIDE**
this way we won't tie up other nets

Calls and totals will be posted next week. NIAN would like to make this a
weekly
net. Lets see if we can make this work.

As always, I'm open to suggestions and comments.
Thanks & hope to see you on the screen

Bruce Tobias, WB9WOZ

---

687. Re: [APRSSIG:7832] Re: aprs adaptor

From: W2HOB@aol.com
Date: Sun, 24 Mar 1996 11:24:52 -0500
To: aprssig@tapr.org
Message-ID: <960324112450_360357953@emout06.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-03-24 08:15:56 EST, you write:

>Is it possible to use the aprs dualport adapter from AEA
>in other tnc's ?
>
>Mike
>KD4EMI@AOL.COM

Yes, I use it with KPC-3's and MFJ 1270b's.
73 de Boyd w2hob@aol.com

---

688. New wx monitor ? ?

From: KD4EMI@aol.com
Date: Sun, 24 Mar 1996 11:52:23 -0500
To: aprssig@tapr.org
Message-ID: <960324115223_453588610@emout06.mail.aol.com>
Rendered body type: text/plain

I was helping a friend with his gps, and we went to West Marine
supply store. I noticed the Davis wx monitor and also the WEST MARINE
wx monitor.   The vane and box looked exactly like the Peet 2000.

I casually asked how much it was and the guy said about $175.00

I thought it was a mistake, after all, the peet and davis machines
are about $350+ bucks.   Sure enough there it was, $175 bucks.

IT looks JUST LIKE the peet unit but doesnt come with a computer
interface.   ANY ideas brewing guys...?
So before I buy this thing, any suggestions, I would think it shouldnot
be that hard to interface to a computer...right ? wrong..?

I suppose I should go and buy it and try to play with the thing.
But, I wanted to let everyone know about this device to foster
comment.
MIke
KD4EMI@AOL.COM

---

689. Filters ?

From: mark.endicott@nashville.com
Date: Sun, 24 Mar 96 08:22:13
To: aprssig@tapr.org
Message-ID: <199603241942.NAA12589@tapr.org>
Rendered body type: text/plain

Bob and Other Sig Members;

Will someone please explain what the "Filter" does when
using APRS (Both 74e and 75). The following occurs with one
particular digi.

Mode 1:

With the Filter set to "BCNS" I DO NOT see the following
digi on my screen, or see it in the Digi or Heard List.

```
KC4WPS-3*>WA4GKM-5>N4NEQ-3>N4NEQ-2>WIDE:!3625.54N/08629.30W#
PGH3663/WIDE-RELAY...KC4WPS-3
```

Mode 2:

With the Filter set to "othr" I see the above string as a
GREEN STAR, as I think it should be, and SHOWS up in the
Digi and Heard list. However the other digi's in the area
fade away.

It appears obvious that there is something wrong with the
above beacon string, but what ?

While on this subject what does the "JUNK" filter do? I
have looked at the DOCS but still don't know what it's
doing.

```
    If Found, Please Return To:
   _____________________________
  |                              \
  |        Mark Endicott          \
  |       P.O. Box 148242          \
  |  Nashville, Tennessee 37214     >
  |            WB0NOO              /
  | mark.endicott@nashville.com   /
  |______________________________/
```

---

690. Garmin 45 track log -> APRS HST

From: Mike Tyrrell <100321.1327@compuserve.com>
Date: 24 Mar 96 16:19:47 EST
To: "'APRSSIG'" <aprssig@tapr.org>
Message-ID: <960324211946_100321.1327_JHF70-1@CompuServe.COM>
Rendered body type: text/plain

Does anybody have a program which will convert a track log from a Garmin 45 to
APRS HST format?

The track log lines looks like this after uploading to the PC but I need it in

HST format to be able to read into MAPFIX.

053 15.545'N 002 30.985'W 96-03-23 13:16

Thanks,
Mike   G6GAK

---

691. Brand new to this branch of the hobbie.

From: BWYATT@MESNET.MESONET.UOKNOR.EDU
Date: Sun, 24 Mar 1996 22:04:00 +0000 (GMT)
To: aprssig@tapr.org
Message-ID: <01I2QD5M0N6QAM5DCC@MESNET.MESONET.UOKNOR.EDU>
Rendered body type: text/plain

I have just begun to delve into the APRS part of packet. I have seen it work from a distance and it is very inviting.

Let me give a little back ground which may be helpful in responding to my request for information. I have a good working knowledge of packet radio and a far relationship with GPS. I also have a good working relationship with PC computers.

Now down to the meat and taters of this message. I see there are several version of APRS soft-ware around and my question is where to start and what files, directories and the likes do I need. I run WIN95 and would like to take advantage of its features if there is APRS soft-ware out there for WIN95.

Thanks,

Bill Wyatt KD5JR
Packet node 145.01 at Woodward, OK

---

692. Re: [APRSSIG:7835] Re: King KLN90B

From: Dave Kaplan <dkaplan@pionet.net>
Date: Sun, 24 Mar 1996 17:08:26 -0600
To: aprssig@tapr.org
Message-ID: <9603242308.AA10790@ELWOOD.pionet.net>
Rendered body type: text/plain

At 10:09 AM 3/24/96 -0600, you wrote:
>Hi Dave:
>
>   Send me about 30 seconds of your output file. We're field testing
>prototype eproms that may do it.
>
>DE JIM
>
Jim,

Do you have a copy of the data specs on this unit? Here is some sample data flying the patch (SUX) in my aircraft. At $200/he I didn' stay up too long. Let me know what you figure out--Dave

```
C172
D008
E00007
GR0048
I2281
KKSUX
L1838
QE054
T---------
l000007
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2483
BW 096 2291
C174
D020
E00007
GR0048
I2281
KKSUX
L1839
QE054
T---------
l000007
```

```
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2481
BW 096 2291
C175
D029
E00007
GR0046
I2281
KKSUX
L1842
QE054
T---------
l000007
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2479
BW 096 2291
C175
D034
E00006
GR0044
I2281
KKSUX
L1845
QE054
T---------
l000006
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2476
BW 096 2291
C174
D041
E00006
GR0042
I2281
KKSUX
L1849
QE054
T---------
l000006
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2473
BW 096 2291
C174
D049
E00006
GR0039
I2281
KKSUX
L1855
QE054
T---------
l000006
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2469
BW 096 2291
C176
D057
E00006
GR0036
I2281
KKSUX
L1862
QE054
T---------
l000006
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2465
```

```
BW 096 2291
C175
D064
E00005
GR0033
I2281
KKSUX
L1869
QE054
T---------
l000005
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2460
BW 096 2291
C175
D072
E00005
GR0029
I2281
KKSUX
L1881
QE054
T---------
l000005
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2455
BW 096 2291
C175
D077
E00004
GR0025
I2281
KKSUX
L1895
QE054
T---------
l000004
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2451
BW 096 2291
C174
D078
E00004
GR0022
I2281
KKSUX
L1914
QE054
T---------
l000004
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2446
BW 096 2291
C174
D078
E00003
GR0018
I2281
KKSUX
L1938
QE054
T---------
l000003
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2442
BW 096 2291
C174
D078
E00003
```

```
GR0014
I2281
KKSUX
L1965
QE054
T---------
l000003
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2438
BW 096 2291
C174
D078
E00003
GR0011
I2281
KKSUX
L1999
QE054
T---------
l000003
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2434
BW 096 2291
C172
D077
E00002
GR0008
I2281
KKSUX
L2047
QE054
T---------
l000002
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2430
BW 096 2290
C172
D077
E00002
GR0005
I2281
KKSUX
L2112
QE054
T---------
l000002
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2425
BW 096 2290
C173
D076
E00002
GR0001
I2281
KKSUX
L2208
QE054
T---------
l000002
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2422
BW 096 2290
C174
D075
E00001
GL0002
I2281
KKSUX
L2319
```

```
QE054
T---------
l000001
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2418
BW 096 2290
C175
D075
E00001
GL0005
I2281
KKSUX
L2473
QE054
T---------
l000001
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2414
BW 096 2290
C174
D074
E00001
GL0008
I2281
KKSUX
L2645
QE054
T---------
l000001
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2411
BW 096 2290
C174
D074
E00001
GL0011
I2281
KKSUX
L2825
QE054
T---------
l000001
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2406
BW 096 2290
C174
D074
E00001
GL0015
I2281
KKSUX
L2988
QE054
T---------
l000001
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2402
BW 096 2290
C173
D074
E00002
GL0018
I2281
KKSUX
L3096
QE054
T---------
l000002
u□□□□00000000□□□□□□□□□□□□□□□□
```

```
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2398
BW 096 2290
C173
D074
E00002
GL0021
I2281
KKSUX
L3177
QE054
T---------
l000002
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2394
BW 096 2290
C173
D074
E00002
GL0024
I2281
KKSUX
L3234
QE054
T---------
l000002
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2391
BW 096 2289
C173
D075
E00003
GL0028
I2281
KKSUX
L3276
QE054
T---------
l000003
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2386
BW 096 2289
C173
D076
E00003
GL0032
I2281
KKSUX
L3310
QE054
T---------
l000003
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2382
BW 096 2289
C174
D076
E00003
GL0035
I2281
KKSUX
L3336
QE054
T---------
l000003
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2377
BW 096 2289
```

```
C172
D077
E00004
GL0038
I2281
KKSUX
L3358
QE054
T---------
l000004
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2373
BW 096 2289
C169
D078
E00004
GL0042
I2281
KKSUX
L3374
QE054
T---------
l000004
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2368
BW 096 2287
C163
D078
E00005
GL0046
I2281
KKSUX
L3380
QE054
T---------
l000005
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2364
BW 096 2285
C156
D083
E00005
GL0051
I2281
KKSUX
L3379
QE054
T---------
l000005
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2360
BW 096 2283
C154
D085
E00006
GL0055
I2281
KKSUX
L3375
QE054
T---------
l000006
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2355
BW 096 2280
C147
D088
E00006
GL0060
```

```
I2281
KKSUX
L3370
QE054
T---------
l000006
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2351
BW 096 2275
C137
D094
E00007
GL0066
I2281
KKSUX
L3355
QE054
T---------
l000007
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2347
BW 096 2267
C128
D100
E00007
GL0073
I2281
KKSUX
L3324
QE054
T---------
l000007
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
AN 42 2343
BW 096 2261
C121
D105
E00008
GL0078
I2281
KKSUX
L3305
QE054
T---------
l000008
u□□□□00000000□□□□□□□□□□□□□□□□
w01     *!□`J□2
w02aKSUX *□`□2
```

---

693. Re: [APRSSIG:7839] New wx monitor ? ?

From: n2czf@gate.net
Date: Sun, 24 Mar 1996 18:42:04 -0500
To: aprssig@tapr.org
Message-ID: <199603242342.SAA49194@osceola.gate.net>
Rendered body type: text/plain

I have seen the the WX unit at West Marine for over a year now and I have wondered the same thing. With a small company like that I am sure they have no problems making a special version that has no interface at alll but also I am sure they are not going to make a whole new batch of PC boards without the port adapter.

It is a interesting thought but the West Marine model has been out for longer than the 2000, I wonder how similiar they are ?

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

694. Re: [APRSSIG:7821] Re: APRS coordination in AZ

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 24 Mar 1996 19:47:30 -0600 (CST)

To: aprssig@tapr.org
Message-ID: <199603250147.TAA27833@solar.cs.tamu.edu>
Rendered body type: text/plain

```
I'll check with the State FC!

gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

695. Re: [APRSSIG:7822] Re: GPS for landing

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 24 Mar 1996 19:54:05 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603250154.TAA27984@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Al Chan - W6DNT sez:
>
> FAA had been testing the system for Cat III in California. Made over a
> hundred landings. [April, Popular Science.] But there were two extra
> transceivers on the ground. (In addition to the DGPS transmitter.) Probably
> to augment position as well as altitude determination. That seems more
> complicated than MLS. Why would they use GPS instead of MLS? (microwave
> landing.) I would think the latter would be a lot more accurate.

In fact, the idea is that most/all aircraft will eventually have GPS, while
most of teh MLS systems would have been installed on on commercial jets.

the Pseudollites are not "too" expensive, especially compared to MLS systems,
and once their position has been surveyd in in 3 dimensions and corrected to
the WGS84 geoid, the altitude corrections are pretty darn good.

Please recall that altitudes are referenced to a 3D mathematical model of the
earth, which is not a perfect match, but if you re-reference everything into
the same system, things begin to look better.

gerry
```

696. Re: [APRSSIG:7826] Re: 145.79

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 24 Mar 1996 20:06:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603250206.UAA28171@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Bob Wilkins n6fri sez:
>

While I'm omitting most of Bob's comments, I tend to support 'em.  One notable
exception:  A UHF common frequency.  It neither should nor needs to be within
the 440-450 MHz segment, but there might be something just a little lower...

> I personally do not buy the concept of nation-wide frequencies for a
> particular packet mode of operation. Flexibility is the key. In a couple
> years we will see the APRS protocol on  several frequencies as more and
> more packet applications integrate the system into their operations.

I really do think this is a key point!  Frequency agility over time will do
more for APRS and nationwide tracking than fighting among ourselves, or with
other members of the ham community, for "A" channel.

> Once the Rose network puts the hooks for APRS into their system we will
> be able to network several frequencies, region to region. The concept of
> a single frequency based on the lowest common denominator cheapie radio
> is absurd.

Color me slow:  I'd not considered this.  Of course, ROSE hasn't kicked in
here as much as in other areas.  It'd be nice to the TheNet X1? to provide
similar hooks!

> Someone might want to start a database of the different local and
> regional APRS frequencies so they may be shown on the regional maps.

I'll volunteer to do that, PROVIDING all data is sent to my work address:
gerry@rsgis3.tamu.edu
```

Please use a SUBJECT of FREQ DATABASE to make parsing a bit easier.

I will plan on reporting on a monthly basis.

73, gerry

---

697. Re: [APRSSIG:7828] King KLN90B

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 24 Mar 1996 20:12:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603250212.UAA28291@solar.cs.tamu.edu>
Rendered body type: text/plain

Dave Kaplan sez:
>
> Bob, (and anyone else who cares),
>
> I have a data file I saved using QMODEM of a short flight around the airport
> last week (about 5 minutes worth) if you need to see it.

I'd be interested in looking at that datafile, too.

Thanks in advance,
Gerry
n5jxs@tamu.edu

---

698. Re: [APRSSIG:7841] Garmin 45 track log -> APRS HST

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 24 Mar 1996 20:25:04 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603250225.UAA28556@solar.cs.tamu.edu>
Rendered body type: text/plain

Mike Tyrrell sez:
>
> Does anybody have a program which will convert a track log from a Garmin 45 to
> APRS HST format?

No, but I'll look at it on Tuesday, if the job cooperates!

> The track log lines looks like this after uploading to the PC but I need it in
> HST format to be able to read into MAPFIX.
>
> 053 15.545'N 002 30.985'W 96-03-23 13:16

Thanks. Data helps.

gerry

---

699. Whether weather will work

From: KD4EMI@aol.com
Date: Sun, 24 Mar 1996 21:25:49 -0500
To: aprssig@tapr.org
Message-ID: <960324212525_176869689@emout06.mail.aol.com>
Rendered body type: text/plain

I began to read the wx stuff on the included aprs program.
It slays me to pay $350 bucks for that wx monitor.

Mentioned in the wx txt file, it says that Davis wont release the data
string because it's proprietary...etc

Am I on the wrong track here ? Couldn't we hook one up to
a terminal emulator at the correct speed and just read the data ?

Then Bob could write the software?
IF so, Id be willing to spend $175 bucks on one to help.
MIke
KD4EMI@AOL.COM

---

700. Re: GPS for landing

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Sun, 24 Mar 96 17:43:53 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <78@w6dnt.ampr.org>
Rendered body type: text/plain

Sometime ago, Dick Rucker wrote:

DR> - the accuracy of your altimeter, given that it has been adjusted so
DR> that, in effect, when your aircraft is sitting on that airport's
DR> surveyed elevation reference point, your altimeter reads out the
DR> airport's published elevation.

Accuracy of altimeter is only plus or minus 100 feet. Is that good enough for the purpose? What are the requirements for "non-precision" landing?

DR> approach to landing. In the meantime, ILS will continue to be widely
DR> used. The Instrument Landing System (ILS) has been improved
DR> considerably since the mid-70s when MLS threatened to replace it.
DR> It is not in danger of being displaced soon.

The problem with ILS is that it is a pencil beam straight line, that doesn't lend well for the purpose of noise abatement, which is a growing problem in small towns as well as major cities. Is the Glideslope portion of the ILS more precise than the altitude determination with DGPS? If so, can the DGPS be further developed in the future to augment vertical reference, equal to the precision of the ILS glideslope?

DR> Since GPS signals are broadcast globally, it works everywhere.
DR> Adding airborne-borne or ground-based users doesn't add to
DR> infrastructure cost, but that does improve the benefits side of the
DR> equation and increases public support for its continuation at
DR> federal expense.

I've heard that the Europeans are reluctant in accepting GPS because it is controlled solely by the DoD (U.S. Defense department or Pentagon.) It can be turned off at will. i.e., at the Pentagon's will. How valid is this argument?

DR> When aviation's uses of GPS's signals-in-space are considered, the
DR> things that add to implementation costs are primarily the
DR> requirements for:
DR>
DR> - "Integrity"; i.e., the means to ensure that the signals being
DR> broadcast are good, and when they aren't, to warn off potential
DR> users in a timely way.
DR>
DR> - "Differential Correction"; i.e., the means to broadcast
DR> corrections to users based on ground-based monitors of GPS signals
DR> operating at accurately-surveyed locations.
DR>
DR> That's what the various GPS "augmentation systems" are all about,
DR> whether "local area" (low power, ground-based transmitters for
DR> broadcasting corrections) or "wide area" (transmitters on
DR> earth-satellites for broadcasting corrections).
DR>
DR> FAA's wide area augmentation system (WAAS) is expected to be good
DR> enough to support instrument approaches down to Cat I ceiling and
DR> visibility minimums.

DR> Local area augmentation systems (LAASs) are being developed get
DR> lower at selected airports, whether Cat II or Cat III minimums.
DR> These would be purchased for and installed at selected airports
DR> where the cost-benefits are seen to justify the costs, according to
DR> potential investors, whether public or private.

What is Cat I minimums? About 600 feet? Who financed WAAS? How many WAAS satellites are required to cover all of contiguous United States? Are these satellites geosynchronous? I understand the GPS space vehicles used to be geosynchronous. When did they change to non-synch?

The Norwegians are using their FM broadcasting band (the band we use for stereo music) for the Differential part of the D-GPS. Why can't we do the same and save a lot of money, since FM signal is ubiquitous all over the States. Just let FCC allocate a small portion of the FM band (low or high end) for D-GPS. Either that or let the differential signal piggy back on existing commercial FM broadcasting stations. Wouldn't that serve the purpose of the WAAS or LAAS, since every city and small town with an airport also has FM stations playing stereo music? If it's good enough for fishermen, it should be good enough for pilots. Furthermore, it would work well around automobiles, motorhomes, and yachts close to land.

AL
""
AlChan@aol.com   Al@w6dnt.ampr.org

701. Re: [APRSSIG:7847] Re: 145.79

From: rwf <rwf@mindspring.com>
Date: Sun, 24 Mar 1996 23:07:11 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960324230827.3aafe522@mindspring.com>
Rendered body type: text/plain

Gerry said that Bob Wilkins said:

>> Once the Rose network puts the hooks for APRS into their system we will
>> be able to network several frequencies, region to region. The concept of
>> a single frequency based on the lowest common denominator cheapie radio
>> is absurd.

Then Gerry *himself* said:

>Color me slow: I'd not considered this. Of course, ROSE hasn't kicked in
>here as much as in other areas. It'd be nice to the TheNet X1? to provide
>similar hooks!
>
Kicked in? ROSE has come and gone in this area (GA), to be replaced with
Buck's *latest* toy (SEDAN), unless he has switched horses again. The
developer of ROSE was here on the SIG a few months ago and was going off to
think about APRS applicability. What ever happened to that?

Ralph

---

702. NIAN net

From: WB9WOZ@aol.com
Date: Mon, 25 Mar 1996 00:40:24 -0500
To: aprssig@tapr.org, winaprs@tapr.org, N9APP@aol.com
Cc: wrinker@att.com, WCovey@aol.com
Message-ID: <960325004024_177032296@emout07.mail.aol.com>
Rendered body type: text/plain

The Northern Illinois APRS Net (NIAN) would like to thank the following
amateurs for participating in our net conducted on 3/24/96 at 2100 UTC.

KB9LBU	Roger, GPS mobile
N9VHW	Jerry,Streamwood IL
N9WMM-1	Henry, Midlothian IL
KF0QN	Bill,Aurora CO
NY2U	Bill, Troy NY
W6OAV	Bill,Englewood CO
N9LJY	Tom,Lemont IL
N9VDP	Rob,Carol Stream IL
N9NWA	Randy,Downers Grove IL
W1GTT	Bill,East Lyme CT
NO1R	Steve,Chelmsford MA
KB0MQQ	Lloyd,Lakewood CO
N9LCI	Ed,Aurora IL
KB9KOZ	Jim, Cary IL

and a mobile in Shakopee,MN that I forgot to write down

This was NIANs first attempt at a nationwide net. It appears that almost all
of the stations shown on my map checked in. We would also like to make this
net a weekly feature.
Since this was the first time, there was not much traffic to pass. I'm sure
that will change in the future.
A question was raised as to why I was using BLN to communicate. By having net
control send a BLN, all stations can see it at the same time, and no acks are
required.
Again, we need to work some bugs out, but, it seemed to go very smoothly.
Any comments or questions would be much appreciated.
Please direct all email reference the net to me-- WB9WOZ@aol.com
While you are online, check out the NIAN web page at
http://tbcnet.com/~davidc/aprs.html

Thanks & 73s
Bruce Tobias
WB9WOZ

---

703. Re: [APRSSIG:7850] Whether weather will work

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 25 Mar 1996 07:02:32 +0000 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325065957.27204A-100000@pinegov>
Rendered body type: text/plain

On Sun, 24 Mar 1996 KD4EMI@aol.com wrote:

> I began to read the wx stuff on the included aprs program.
> It slays me to pay $350 bucks for that wx monitor.
>
> Mentioned in the wx txt file, it says that Davis wont release the data
> string because it's proprietary...etc
>
> Am I on the wrong track here ? Couldn't we hook one up to
> a terminal emulator at the correct speed and just read the data ?
>
> Then Bob could write the software?
> IF so, Id be willing to spend $175 bucks on one to help.
> MIke
> KD4EMI@AOL.COM

Regretfully Mike, you are forgetting the most important part...the analog
to digital converter, aka modulator/demodulator, aka modem....the wx
boxes are analog devices...they must have hardware designed to talk to a
computer....In the case of the Davis,,the A/D converter is in the cable
to the computer...part of the reason they won't give up the info....

Kevin
KD4UYR

---

704. MacAprs>Mac Plus

From: Tom Martin <jtm@mo.net>
Date: Mon, 25 Mar 1996 06:27:04 -0800
To: aprssig <aprssig@tapr.org>
Message-ID: <3156AD38.6B6E@mo.net>
Rendered body type: text/plain

Hi, I am new to APRS and I am trying to interface my Mac Plus to a
AEA PK-88 using MacAprs. I talked to Keith (WU2Z) on the phone last
night and the program MacAprs seems to be running ok but the tnc
won't talk to the Mac or visa versa. I was wondering if there is
anyone out there using a Mac Plus and possibly a PK-88 who could
shed some light on my problem.

Using my communications program (Termworks) I can monitor the aprs
activity on 145.79 so I know that my cable between the Mac and the
TNC are hooked up ok for normal packett operation. However when I
load and run the MacAprs program the data received by the tnc
doesn't get to the MacAprs program.

Thanks in advance, Tom W0MTQ

e-mail: jtm@mo.net

---

705. Re: [APRSSIG:7851] Re: GPS for landing

From: rrucker@cais.cais.com (Dick Rucker)
Date: Mon, 25 Mar 1996 08:02:00 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <v01540b00ad7c302e8c96@[206.161.65.81]>
Rendered body type: text/plain

At 21:01 3/24/96, Al Chan - W6DNT wrote:

>Accuracy of altimeter is only plus or minus 100 feet. Is that good enough
>for the purpose? What are the requirements for "non-precision" landing?

Good enough to get you below the cloud layer so you can visually acquire
the runway and use visual means to get yourself down on it. That's what
the published forward visibility and cloud height mimimums for such
approaches are all about.

>The problem with ILS is that it is a pencil beam straight line, that doesn't
>lend well for the purpose of noise abatement, which is a growing problem in
>small towns as well as major cities.

When folks can afford to do better, they will. MLS was not a good solution
in that regard. In the meantime, ILS is about all we've got to offer where
precision glide-slope guidance is needed.

The main interest in DGPS-based approaches is for runway ends that aren't
now served by an ILS. If descent guidance of some sort is needed in

addition to horizontal guidance, the question is how to get that.

Basically, there are two choices: barometric altimetry and use of GPS-determined height above runway. To make the latter work, you need to re-survey the runway in GPS coordinates. Both solutions are being worked; it's not an either/or matter.

>I've heard that the Europeans are reluctant in accepting GPS because it is
>controlled solely by the DoD (U.S. Defense department or Pentagon.) It can
>be turned off at will. i.e., at the Pentagon's will. How valid is this
>argument?

It depends on your point-of-view.

If you choose to worry about things like that, then your choice is to continue to depend on traditional landing methods, and many still do that.

If you can make a buck by depending on the existing GPS signals-in-space, and that's what motivates you, you can plan on investing in GPS or DGPS based avionics and hope that FAA's WAAS or the local airport's LAAS will let you know in a timely manner whether you can safely continue your approach using GPS signals-in-space right now or not.

If you like the Russian GLONASS system better than GPS, you can invest in a GLONASS compatible navigation/landing system instead. Getting FAA certification to operate such a nav/landing system in this country might be another kind of a problem.

If you're wealthy enough, you can buy one of each: a GPS receiver and a GLONASS receiver and feed both signals to your on-board navigation system and pick which one you want to trust. Some airlines have been investigating joint use of GPS and GLONASS.

>What is Cat I minimums?

According to ICAO, the vertical minimums for ILS are:

	Decision Height (DH)	3D accuracy req'd (2 sigma)
Cat I	200 ft above surface	56' horiz, 13' vertical
Cat II	100 ft above surface	17' horiz, 6' vertical
Cat III	50 ft above surface	13' horiz, 2' vertical

DH is the indicated height above the surface at which the pilot must visually acquire the runway without question or abort the approach and try again or try somewhere else.

Forward visibility minimums are another factor, but we're discussing the vertical element.

>Who financed WAAS?

US taxpayers; it's an FAA program.

>How many WAAS?

I don't remember or have quick access to the details of the program. At one time, INMARSAT was offering CONUS coverage from some of their communication satellites, but I don't recall whether the FAA took them up on that or not. In any event, these are data comm satellites that are completely independent of the GPS navigation satellite constellation. Whether they will be geosync or not is basically an economic, not a performance, issue.

>The Norwegians are using their FM broadcasting band (the band we use for
>stereo music) for the Differential part of the D-GPS. Why can't we do the
>same and save a lot of money ... If it's good enough for
>fishermen, it should be good enough for pilots.

The point is to save lives first, then money. Further, the potential users of WAAS require continuous down-to-the-surface coverage of all of CONUS. That's an objective which can't be satisfied by ground-based broadcasters of any stripe.

If you studied the stringent performance and availability requirements placed on both FAA's WAAS and any FAA-certifiable LAAS, you'd see that what is good enough for FM stations, auto drivers, and fisherman isn't considered nearly good enough for instrument landing systems used to support public air transportation.

Dick

Richard A. "Dick" Rucker
Solo Consulting, Inc.
Fairfax, VA
email via SMTP: rrucker@cais.com
Amateur Radio: KM4ML

---

706. Re: [APRSSIG:7841] Garmin 45 track log -> APRS HST

From: Randy Hammock <hammock@tis.telos.com>
Date: Mon, 25 Mar 1996 08:25:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960325081822.23808B-100000@zentropa>
Rendered body type: text/plain

On Sun, 24 Mar 1996, Mike Tyrrell wrote:

> Does anybody have a program which will convert a track log from a Garmin 45 to
> APRS HST format?

I use the GARDOWN7 program to capture the track log from the Garmin 45 which produces a listing like you showed. That file is then run through a program (if I remember the title correctly) GAR2HST which will convert the GARDOWN7 file into and APRS HST file. I'll take a look for it and pass it on to you as soon as I can this evening.

```
--
Randy Hammock KC6HUR                   |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS       |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400  |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770              |     FAX: +1 301 507-5892
   "Age and Guile, beats Youth and Innocence" - P.J. O'Rourke
```

---

707. Re: [APRSSIG:7839] New wx monitor ? ?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 25 Mar 1996 08:07:28 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960325140728.006aa6fc@144.188.134.33>
Rendered body type: text/plain

At 11:00 AM 3/24/96 -0600, you wrote:
>I was helping a friend with his gps, and we went to West Marine
>supply store. I noticed the Davis wx monitor and also the WEST MARINE
>wx monitor.   The vane and box looked exactly like the Peet 2000.
>
>I casually asked how much it was and the guy said about $175.00
>
>I thought it was a mistake, after all, the peet and davis machines
>are about $350+ bucks.   Sure enough there it was, $175 bucks.
>
>IT looks JUST LIKE the peet unit but doesnt come with a computer
>interface.   ANY ideas brewing guys...?
>So before I buy this thing, any suggestions, I would think it shouldnot
>be that hard to interface to a computer...right ? wrong..?
>

Actually I bought the West Marine weather station when there was only the U-II. It was the same price and gave me a better return policy. I have spoken to Peet Bros. about the U-II vs. West Marine and they say that they did NOT make any mods for resellers. BUT, if I recall, they also said they are making mods to resellers for the U-2000. I would call Peet direct, they were pretty open for me.

Paul, WD9ABE

---

708. BAA Boston Marathon Maps

From: Tom Kinahan <kinahan@mail1.bytex.network.com>
Date: Mon, 25 Mar 1996 09:32:08 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.960325092924.6478A-100000@ws007-fddi>
Rendered body type: text/plain

I've just uploaded maps for the BAA Boston Marathon into the tapr/SIG/aprssig/upload directory at ftp.tapr.org. These maps have nice street level maps of the area of the Boston Marathon on April 15.

The filename is bamaps96.zip.

Thanks to W1KRU for the maps!

```
Tom Kinahan                           Phone: 508-366-0040 x360
Bytex / Network Systems Corp.         Fax: 508-366-0244
4 Technology Drive                    Email: kinahan@bytex.network.com
Westborough, Ma. 01581                Amateur Radio: N1CPE
```

---

709. Re: [APRSSIG:7808] Re:Re: Last Call for Maxon Transmitter

From: Fred Quarles <fredq@bihs.net>
Date: Mon, 25 Mar 1996 08:38:07 -0600
To: aprssig@tapr.org
Message-ID: <3156AFCF.5A08@bihs.net>
Rendered body type: text/plain

mark.endicott@nashville.com wrote:

```
>
> Fred:
>         I got your name on one...Thanks, Mark
>
>
>     If Found, Please Return To:
>    _____________________________
>   |                              \
>   |         Mark Endicott          \
>   |        P.O. Box 148242           \
>   |   Nashville, Tennessee 37214      >
>   |             WB0NOO               /
>   |  mark.endicott@nashville.com   /
>   |______________________________/
```

Mark, I put a check for $42.75 in the mail this morning. Thanks for holding one for me.

Fred, KC5HHN

---

710. How do you save MacAPRS config?

From: rparry@qualcomm.com (Richard Parry)
Date: Mon, 25 Mar 1996 06:58:03 -0800
To: aprssig@tapr.org
Message-ID: <v02130502ad7c643dbe2d@[129.46.240.135]>
Rendered body type: text/plain

Just got MacAPRS working last night, but I can't figure out how to make it save my configuration? In other words, I have to specify MYCALL and a lot more each time I start the program, which I should only have to do once.

Does it have to be a "registered" copy to work properly?

Help!

```
************************************************************************
* Richard R. Parry - A110D      *  (619) 658-4972 (Day)                *
* Qualcomm, Inc.                *  (619) 748-2014 (Eve)                *
* 6455 Lusk Blvd.               *  (619) 658-1001 (Fax)                *
* San Diego, CA 92121-2779      *  email: rparry@qualcomm.com          *
************************************************************************
```

---

711. Cheap A/D for New wx monitor ? ?

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Mon, 25 Mar 1996 06:15:46 -0500
To: aprssig@tapr.org
Message-ID: <31568062.5F01@dgp.toronto.edu>
Rendered body type: text/plain

Paul Moller wrote:

At 11:00 AM 3/24/96 -0600, you wrote:
>I was helping a friend with his gps, and we went to West Marine
>supply store. I noticed the Davis wx monitor and also the WEST MARINE

```
>wx monitor.   The vane and box looked exactly like the Peet 2000.
>
>I casually asked how much it was and the guy said about $175.00
>
>I thought it was a mistake, after all, the peet and davis machines
>are about $350+ bucks.     Sure enough there it was, $175 bucks.
>
>IT looks JUST LIKE the peet unit but doesnt come with a computer
>interface.   ANY ideas brewing guys...?

For details on in-expensive A->D systems you can hang off a centronics
printer port, check out URL:

http://www.ee.ualberta.ca/~charro/cookbook/comp/parallel/

Specifically, you will find the following useful projects:

4chan8bitadc.asc
       4 Channel 8 Bit Analogue-Digital Converter, using the parallel port
8chan12bitadc.asc
       8 Channel 12 bit analogue-digital converter using a parallel port
adc11.tar.Z
       11 Channel 10 bit analogue-digital converter using a parallel port
dac.asc
       Very simple Digital to Analogue converter using the parallel port
```

---

712. Re: [APRSSIG:7836] CD 100K maps

From: Jan Barglowski <jan@archimedes.vislab.navy.mil>
Date: Mon, 25 Mar 1996 08:04:15 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199603251604.IAA10457@archimedes.vislab.navy.mil>
Rendered body type: text/plain

```
>
> I have made many maps but never run into a problem picking files off of
> the CD Rom disk. I want to make 3 mile center maps down I65 going from
> North Alabama, Tennessee line all the way down to the coast. This will
> take around 60 or so maps. My question what is the best way to pick these
> area's from the CD since of course I65 is not shown on the CD?. And of
> course I65 is not a straight line going trough Alabama.
>
> Bill KE4EER
>

Bill (and others):

If you know what towns I65 is going through, you could probably
download the CIA US Cities Lat/Lon database.  I've used this to
help center quite a few APRS maps on towns I couldn't figure the
lat lon from a paper map.  It's about 7.2 Mb expanded, but is
pretty thorough...

73, jan
kc6uth
```

---

713. Re: [APRSSIG:7861] How do you save MacAPRS config?

From: Mark Lehmann <mlehmann@nerc1.nerc.com>
Date: Mon, 25 Mar 1996 11:36:57 -0500
To: aprssig@tapr.org
Message-ID: <3156CBA9.2A4A@nerc1.nerc.com>
Rendered body type: text/plain

```
Richard Parry wrote:
>
> Just got MacAPRS working last night, but I can't figure out how to
> make it save my configuration?
>
> Does it have to be a "registered" copy to work properly?

Quite simply, yes. Once you enter a valid registration number, your
config info will be saved automatically.

Mark WO2J
```

---

714. Re: [APRSSIG:7863] Re: CD 100K maps

From: William Nolle <ke4eer@hiwaay.net>
Date: Mon, 25 Mar 1996 12:42:01 -0800
To: aprssig@tapr.org

Message-ID: <31570519.B60@hiwaay.net>
Rendered body type: text/plain

```
> Bill (and others):
>
> If you know what towns I65 is going through, you could probably
> download the CIA US Cities Lat/Lon database.  I've used this to
> help center quite a few APRS maps on towns I couldn't figure the
> lat lon from a paper map.  It's about 7.2 Mb expanded, but is
> pretty thorough...
>
> 73, jan
> kc6uth

Well Jan that won't work to well with these maps. Your right on the towns
and city's, i use that file also for normal city maps, but that wouldn't
work for the simple reason what would i do in between the small towns.
Well i did figure out a way and now have 34 maps made and am down to
Mongomery Alabama, so don't have to awfull far to go to the coast Hi.
Thank for the help Jan.

Bill KE4EER
```

---

715. FT-2400 Problem

From: "Brad Thomas" <bgt@thomascomm.com>
Date: Mon, 25 Mar 1996 10:34:54 +0000
To: aprssig@tapr.org
Message-ID: <9603251835.AA01889@server1.deltanet.com>
Rendered body type: text/plain

```
Hi everyone,

Just finished this last weekend building a standalone tracker and I
have one bug with it that I was wandering if any of you have the
answer to.

I'm using a Garmin 45 wired to a KPC 3 (w/ vr. 6.0 ROM). I have the
TNC wired to a Yaesu FT-2400 2 mtr. radio thru the RJ45 mic jack.

The package works great in sending out positions except on power up
when the GPS is acquiring satalite data the 2 mtr. radio will
occasionaly go into scan. The "lock" feature on the radio does not
correct this problem.

Any ideas?

Thanks in advance.

Brad
```

---

716. HSP Mode

From: William Nolle <ke4eer@hiwaay.net>
Date: Mon, 25 Mar 1996 15:50:43 -0800
To: aprssig@tapr.org
Message-ID: <31573153.1AA0@hiwaay.net>
Rendered body type: text/plain

```
For the first time since i have been running APRS and GPS trackers i am
now ready to add a laptop but i.m having problem. When i run the whole
thing i do get the first position on my map, but that's all. I did notice
that on the upper right window it says [HSP] Time out. Is this my
problem. I'm using a Paccomm Handy packet and the Paccomm cable, of
course you would think this cable would fit a Paccomm TNC but is has the
wrong gender connector, but that's not the problem Hi. By the way the
setup works great as a standalone tracker!.

Bill KE4EER
```

---

717. Re: How do you save MacAPRS config?

From: taf8892@madison.tec.wi.us (Tom Fleming)
Date: Mon, 25 Mar 1996 16:00:47 -0600
To: aprssig@tapr.org
Message-ID: <v01530501a9ba0d0b1d9e@[198.150.211.136]>
Rendered body type: text/plain

```
Richard Parry wrote:

> Just got MacAPRS working last night, but I can't figure out how to
> make it save my configuration?
```

>
> Does it have to be a "registered" copy to work properly?
>

You may have to remove the pref file. I could not save untill I did.

____

Tom Fleming   Network Tech
Postmaster
Madison Area Tech College
(608) 246-6140
Internet:taf8892@madison.tec.wi.us
N9SZF

---

718. WB4APR lost traffic?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 24 Mar 1996 23:38:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960324233644.20480B-100000@greatlakes>
Rendered body type: text/plain

I havent gotten anything from the SIG since Friday noon. Maybe Im dropped off the list.. If so, and you sent me something via the SIG this weekend, assume I didnt see it...

de WB4APR

---

719. Olympic TorchSE.bk

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 24 Mar 1996 23:46:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960324233843.20480C-100000@greatlakes>
Rendered body type: text/plain

Here is the Backup file for the Olympic Torch run from Washington DC to Miami

Cut here and save in your BAKS directory (You can also use the FILES-REPLY command to see it ...)

```
c, 27.58765 , 80.37402 , 4
l,W3ADO     291538 @291538/APRS 7.4e on line.
p,WashDC    141821 *141821/3855.36N/07700.41W/June 20-21st
p,Arlington 181611 +181611/3853.45N/07711.42W/June 21st
p,Alexandra 181612 +181612/3847.69N/07707.58W/June 21st
p,Woodbrdge 181614 +181614/3839.05N/07715.73W/June 21st
p,Dale City 181615 +181615/3837.61N/07716.69W/June 21st
p,Frdksburg 181615 +181615/3817.93N/07729.17W/June 21st
p,Chrltsvil 181616 +181616/3801.61N/07829.64W/June 21st
p,Richmond  181617 +181617/3732.81N/07727.24W/June 21st-22nd
p,Petersbrg 181617 +181617/3712.65N/07725.32W/June 22nd
p,SouthHill 181619 +181619/3644.81N/07806.59W/June 22nd
p,WakeForst 181622 +181622/3601.61N/07831.54W/June 22nd
p,Raleigh   181623 +181623/3546.24N/07841.13W/June 22nd-23rd
p,Durham    181624 +181624/3601.61N/07901.83W/June 22nd
p,ChapelHil 181625 +181625/3553.92N/07915.26W/June 23rd
p,Burlingtn 181626 +181626/3605.44N/07936.37W/June 23rd
p,Grensboro 181627 +181627/3605.44N/07949.80W/June 23rd-24th
p,WnstnSalm 181628 +181628/3605.44N/08014.75W/June 24th
p,Kannpolis 181630 +181630/3530.87N/08035.86W/June 24th
p,Charlotte 181632 +181632/3515.51N/08051.22W/June 24th-25th
p,Columbia  191550 *191550/3401.17N/08105.35W/June 25th
p,Union     191553 *191553/3445.33N/08147.59W/June 25th
p,Spartenbrg191556 *191556/3457.81N/08157.18W/June 25th
p,Greenvile 191559 *191559/3450.89N/08225.43W/June 25th-26th
p,TravelRst 191605 *191605/3454.73N/08227.09W/June 26th
p,Flat Rock 191612 *191612/3515.86N/08226.36W/June 26th
p,Hndrsnvil 191616 *191616/3520.85N/08228.08W/June 26th
p,Mtn.Home  191617 *191617/3525.07N/08230.54W/June 26th
p,Asheville 191621 *191621/3532.37N/08234.75W/June 26th
p,Cherokee  191625 *191625/3530.54N/08308.35W/June 26th
p,Gatlinbrg 191627 *191627/3540.81N/08331.16W/June 26th
p,PgeonFrge 191628 *191628/3541.29N/08331.63W/June 26th
p,Sviervile 191630 *191630/3546.08N/08332.11W/June 26th
p,Knoxville 191631 *191631/3558.56N/08355.63W/June 26th-27th
p,Carthage  201601 +201601/3614.59N/08559.40W/June 27th
p,Lebanon   201602 +201602/3611.51N/08618.37W/June 27th
p,Mt.Juliet 201603 +201603/3611.51N/08633.72W/June 27th
p,Hermitage 201606 +201606/3611.89N/08640.11W/June 27th
```

```
p,Nashville 201607 +201607/3609.96N/08647.78W/June 27th-28th
p,Brentwood 201608 +201608/3559.60N/08648.85W/June 28th
p,Shelbyvil 201609 +201609/3528.88N/08627.08W/June 28th
p,Huntsvill 201612 +201612/3445.47N/08634.37W/June 28th
p,Decatur   201613 +201613/3435.11N/08655.87W/June 28th-29th
p,Oakville  201618 +201618/3446.63N/08636.67W/June 29th
p,Cullman   201618 +201618/3412.06N/08652.02W/June 29th
p,Birminghm 201619 +201619/3330.58N/08648.94W/June 29th-30th
p,Clanton   201620 +201620/3250.25N/08639.34W/June 30th
p,Selma     201621 +201621/3224.91N/08722.48W/June 30th
p,Montgomry 201622 +201622/3221.83N/08621.57W/June 30th-July 1th
p,Troy      201624 +201624/3145.35N/08618.01W/July 1st
p,Dothan    201624 +201624/3114.05N/08523.82W/July 1st
p,PanamaCty 201626 +201626/3009.92N/08538.11W/July 1st-2nd
p,Tallahase 201627 +201627/3027.39N/08417.45W/July 2nd
p,Gainsvill 201629 +201629/2943.23N/08224.17W/July 2nd-3rd
p,Tampa     201630 +201630/2757.63N/08227.04W/July 3rd
p,St.Peters 201631 +201631/2743.80N/08227.08W/July 3rd-4th
p,Bradenton 201633 +201633/2728.63N/08235.47W/July 4th
p,Sarasota  201634 +201634/2717.11N/08231.63W/July 4th
p,Miami     201636 +201636/2545.72N/08011.71W/July 4th-5th
 m
```

---

720. Olympic TorchGA.bk

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 24 Mar 1996 23:46:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960324234123.20480D-100000@greatlakes>
Rendered body type: text/plain

This is the last BK file for the complete Olympic Torch run. The separate files are:

```
TorchW.bk   LA to Denver
TorchM.bk   Denver to Columbus Ohio
TorchE.bk   Columbus OH to Washington DC
TorchSE.bk  Wash DC to Miami
TorchGA.bk  Miami, throughout Ga, to Atlanta
```

Here is TOrchGA.bk Cut here and put in your BAKS directory.

```
-------------------------------------------------------------
c, 33.193 , 85.04824 , 64
l,W3ADO     291538 @291538/APRS 7.4e on line.
p,FtLaurdle 201637 +201637/2605.88N/08008.34W/July 5th
p,Deerfield 201639 +201639/2617.39N/08005.93W/July 5th
p,BocaRtion 201640 +201640/2619.31N/08005.92W/July 5th
p,DelrayBch 201641 +201641/2627.95N/08003.99W/July 5th
p,BoyntonBh 201642 +201642/2632.75N/08003.02W/July 5th
p,WstPlmBch 201643 +201643/2642.35N/08003.01W/July 5th-6th
p,NrhPlmBch 201644 +201644/2648.11N/08003.00W/July 6th
p,Jupiter   201645 +201645/2650.03N/08003.96W/July 6th
p,PtStLucie 201647 +201647/2720.27N/08017.40W/July 6th
p,FrtPierce 201648 +201648/2726.50N/08020.28W/July 6th
p,VeroBeach 201650 +201650/2735.25N/08022.44W/July 6th
p,Melbourne 201653 *201653/2804.05N/08036.52W/July 6th-7th
p,CpeCnavrl 201654 *201654/2825.16N/08036.51W/July 7th
p,Orlando   201655 *201655/2827.85N/08126.98W/July 7th-8th
p,DaytonBch 201656 *201656/2910.66N/08103.24W/July 8th
p,StAgustne 201658 *201658/2958.66N/08120.51W/July 8th-9th
p,Jacksonvl 201701 *201701/3018.24N/08137.99W/July 9th   Last One
p,Savannah  201703 *201703/3205.75N/08107.26W/July 10th-19th All
p,Brunswick 201704 *201704/3110.07N/08128.04W/July 10-19th
p,Waycross  201706 *201706/3115.82N/08221.79W/July 10-19th
p,Douglas   201707 *201707/3136.93N/08253.46W/July 10-19th
p,Tifton    201707 *201707/3126.95N/08330.70W/July 10-19th
p,Valdosta  201708 *201708/3049.70N/08316.32W/July 10-19th
p,Thomsvile 201709 *201709/3049.70N/08357.53W/July 10-19th
p,Bainbrdge 201710 *201710/3105.44N/08501.65W/July 10-19th
p,Albany    201713 *201713/3135.01N/08410.09W/July 10-19th
p,Americus  201715 *201715/3203.42N/08417.00W/July 10-19th
p,Columbus  201716 *201716/3220.70N/08455.39W/July 10-19th
p,WarmSprs  211541 +211541/3252.95N/08456.94W/July 10-19
p,Thomaston 211545 +211545/3251.42N/08416.70W/July 10-19
p,Macon     211549 +211549/3249.50N/08336.86W/July 10-19
p,Dublin    211552 +211552/3221.85N/08244.65W/July 10-19
p,Eastman   211556 +211556/3209.94N/08307.74W/July 10-19
p,Vidalia   211557 +211557/3210.71N/08204.94W/July 10-19
p,Stateboro 211559 +211559/3221.46N/08122.13W/July 10-19
p,Wayneboro 211601 +211601/3302.93N/08152.44W/July 10-19
```

```
p,Augusta   211603 +211603/3329.82N/08202.15W/July 10-19
p,Thomson   211604 +211604/3326.74N/08222.89W/July 10-19
p,Warrenton 211610 +211610/3319.83N/08237.01W/July 10-19
p,Sparta    211612 +211612/3315.61N/08250.25W/July 10-19
p,Eatonton  211613 +211613/3315.99N/08313.20W/July 10-19
p,Greenboro 211616 +211616/3332.50N/08256.87W/July 10-19
p,Miledgvil 211624 +211624/3257.94N/08310.95W/July 10-19
p,Madison   211625 +211625/3335.57N/08331.41W/July 10-19
p,Athens    211626 +211626/3356.69N/08323.26W/July 10-19
p,Gainsvil  211628 +211628/3417.43N/08349.57W/July 10-19
p,Dahlonega 211630 +211630/3425.88N/08406.57W/July 10-19
p,Toccoa    211632 +211632/3432.79N/08325.59W/July 10-19
p,Clayton   211633 +211633/3448.92N/08329.52W/July 10-19
p,Dalton    211638 +211638/3447.19N/08459.24W/July 10-19
p,Rome      211642 +211642/3419.16N/08509.90W/July 10-19
p,Carrolton 211644 +211644/3335.00N/08504.20W/July 10-19
p,LaGrange  211645 +211645/3303.90N/08502.01W/July 10-19
p,Newnan    211646 +211646/3323.10N/08447.91W/July 10-19
p,Griffin   211648 +211648/3317.34N/08413.09W/July 10-19
p,Jonesboro 211649 +211649/3331.93N/08421.02W/July 10-19
p,Conyers   211651 +211651/3343.06N/08405.16W/July 10-19
p,Stone Mt  211651 +211651/3350.74N/08412.21W/July 10-19
p,MetAtlanta211652 +211652/3347.29N/08423.67W/July 10-19
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r,TIME * TICK:03-20-1996 16:52:23
r,TIME * TICK:03-22-1996 17:00:05
h,TIME      , 19  20  21  22  23  0  1  2  3  4  5  6  7  8  9  10  11
12  13  14  15  16  17 , 999
```

---

721. Re: [APRSSIG:7854] Re: Whether weather will work

From: KD4EMI@aol.com
Date: Mon, 25 Mar 1996 18:38:48 -0500
To: aprssig@tapr.org
Message-ID: <960325183840_177628693@emout08.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-03-25 08:34:16 EST, you write:

>
>Regretfully Mike, you are forgetting the most important part...the analog
>to digital converter, aka modulator/demodulator, aka modem....the wx
>boxes are analog devices...they must have hardware designed to talk to a
>computer....In the case of the Davis,,the A/D converter is in the cable
>to the computer...part of the reason they won't give up the info....
>
>Kevin
>KD4UYR
>
>
Sorry Kevin, the a/d is the EASY PART...any $40 chip / small board can
do that.   Its not a ANALOG DEVICE besides, it has a small lcd screen
just like the other wx monitors.   I have not heard from anyone about this
particular item so I have to go in reverse.  Can someone tell me what the
Peet Bros output is like ?  Then I can at least know what to look for
in this unit and what to do to convert.  That lttle box that peet sells is a
simple A/D converter.

A/D conversion is now quite easy with not only basic stamps but other
small chips and is inexpensive.
```

MIke
KD4EMI@AOL.COM

---

722. Re: [APRSSIG:7820] Re: 145.79 in N. Calif

From: ku0g@sprynet.com
Date: Mon, 25 Mar 1996 15:40:38 -0800
To: aprssig@tapr.org
Message-ID: <199603252340.PAA21582@m1.sprynet.com>
Rendered body type: text/plain

```
Here's a suggestion for the California folks...

Why not do a "hidden" UHF point-to-point link between your two closest
digipeaters?  By using a dual-port TNC (such as a KPC-4) and setting BOTH the
digi alias AND the gateway alias to WIDE (or whatever you guys can agree on...)
will automatically send the received packet through the gateway while also
digipeating locally!  Now, what about that UHF frequency that APR-Bob proposes
in the README files?  It's already approved in Kansas....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

723. Re: [APRSSIG:7852] Re: 145.79 and ROSE

From: n2czf@gate.net
Date: Mon, 25 Mar 1996 18:49:28 -0500
To: aprssig@tapr.org
Message-ID: <199603252349.SAA30348@osceola.gate.net>
Rendered body type: text/plain

```
I don't know Ralph I was wondering the same thing last week, what ever happened
to that ???

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

724. [APRSSIG:7866] FT-2400 Problem

From: n2czf@gate.net
Date: Mon, 25 Mar 1996 18:57:27 -0500
To: aprssig@tapr.org
Message-ID: <199603252357.SAA41126@osceola.gate.net>
Rendered body type: text/plain

```
If you have a REMOTE CONTROL capability on that try disabling it during GPS
"missions". Remote meaning that a DTMF tone on RX will cause the radio to do
different things. I know that this may be a long shot but my Kenwood 742a is
well known for doing strange things like changing my offest or frequency if it
hears a DTMF tone or someones voice just hits the right frequency range. Your
packet audio may be playing a nasty trick on you as some peoples voices do to
me!
<---- Begin Forwarded Message ---->
Date: Mon, 25 Mar 1996 13:31:28 -0600 (CST)
Reply-To: aprssig@tapr.org
From: "Brad Thomas" <bgt@thomascomm.com>
To: aprssig@tapr.org
Subject: [APRSSIG:7866] FT-2400 Problem
The package works great in sending out positions except on power up
when the GPS is acquiring satalite data the 2 mtr. radio will
occasionaly go into scan. The "lock" feature on the radio does not
correct this problem.
Any ideas?
Thanks in advance.
Brad
<----  End Forwarded Message  ---->

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

725. WB4APR E-Mail Address ????

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 25 Mar 1996 17:01:53 -0700
To: aprssig@tapr.org
Message-ID: <1.5.4b13.32.19960326000153.0067ad08@mailhost.primenet.com>
Rendered body type: text/plain

Has Bob's E-Mail address changed? I keep getting my mail to him returned as undeliverable.

In advance, Thanks!

73....Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

726. Re: [APRSSIG:7861] How do you save MacAPRS config?

From: davidc@tbcnet.com (David Chesser)
Date: Mon, 25 Mar 1996 18:17:20 -0600
To: aprssig@tapr.org
Message-ID: <199603260017.SAA00910@tbc2.tbcnet.com>
Rendered body type: text/plain

Yes it does have to be a registered copy to save the config file.

---

727. NEC 2000D laptop w/APRS 7.5

From: "John R. B. Adams" <jrbadams@interlog.com>
Date: Mon, 25 Mar 1996 19:48:37 -0500
To: aprssig@tapr.org
Message-ID: <199603260041.TAA14369@bronze.interlog.com>
Rendered body type: text/plain

Hi all ..

Thought I'd toss one of my current 'problems' into the pot and see if any advice is forthcoming!

A NEC VERSA 2000D joined my toybox recently .. and I've had a lot of fun putting it to use here in the shack and elsewhere. The only application that I've had REAL difficulty with is getting the laptop to communicate with the TNC (TAPR TNC-2) and the APRS7.5 programme. The laptop has only one serial port - and as far as I know it is COM1. It works fine with my USR 28.8 modem, my simple SSTV interface, and with the TNC-2 for regular PACKET operation, using the PAKET 6.1 terminal prg.

BUT when I call up APRS .. the initial title screen appears .. and the prg moves to the opening map (ONT17 I believe) and at first attempts to talk to the TNC the prg freezes or locks up. Yes, I have gone through config again, entering COM1 etc. .....

In spite of this .. I have been able to get into the APRS prg in a roundabout way. I turn on the laptop and let it go into WINDOWS 3.11 .. I then select a 'modem check' prg that is part of the FAX prg group .. run it ... that little prg does its thing .. and then announces that I have NO modem attached. I exit that modem check prgramme .. exit WINDOWS to Dos 6.22 .. cd to APRS dir .. load the APRS .exe file ... A N D ...

.. THEN the APRS7.5 starts as before but does NOT stall ... runs fine. I can exit APRS .. go to paket ... use other prgs on the laptop .. return to and load up APRS again .. and prg still runs as it should. BUT if I turn off the laptop .. I'm back to a 'no go' situation next time I return .. unless I repeat that same roundabout routine.

Any ideas that might help me out?

73, John.

John R. B. Adams VE3ASX

120 Raglan Avenue - #907
Toronto, ON, Canada
M 6 C 2 L 4

(416) 653-9842
jrbadams@interlog.com

---

728. RE: [APRSSIG:7818] Anyone interested in 220 MHz

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Mon, 25 Mar 1996 18:57:04 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960325185704.20816729@exame2.dseg.ti.com>
Rendered body type: text/plain

I'm ready to try almost any of the bands. I have a 220 mobile rig and an HT. Also have a 440 mobile rig and HT that will work 440-450, and one newer HT that will work 438-450. Nothing at 1.2 Ghz yet.

FYI.

Claude Head
K5DTN

---

729. Satellite Experimenets...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 21:49:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325213146.9218D-100000@greatlakes>
Rendered body type: text/plain

Experimentation proceeds slowly on the WO-18 on which we have full permission to send all the UI frames we want... But WO-18 needs pacsat modems.... In the mean time... I mentioned another satlite....

It is AO-27! A flying 2m FM uplink and 70CM FM downlink FM! Its just a normal ole voice repeater for FM! Now, I do NOT want to encourage sending PACKETS until and unless we get an official blessing, BUT THERE IS NO REASON WHY EVERY MEMBER OF THIS SIG should not be encouraged TO PLAY VOICE ON THIE SATELITE! TOday I heard a guy running 5 watts!

We need to build up a cadre of operators experienced with this spacecraft and get profficient at it before we ask for permission to send out packets... The satellite controlers have no objection to some packet experiments, but the usual voice users might... so IF "WE" BECOME the "USUAL" operators.......... You get the picture.... hi hi

Here are the details:

```
SATELLITE:  AO-27
NOMINAL MODES:  FM voice
UPLINK:         145.85 MHz FM
DOWNLINK:       436.80 MHz FM (starts at 436.805 and ends at 436.790)
ACCESS:         3 passes daily between about 9AM and 1PM... LOCAL TIME
```

OPERATIONS: It's only on during DAYLIGHT passes due to power limitations. You can hear it on an OMNI antenna. A transceiver in your car with 10 feet of coax will hear better than a tower mounted antenna but with 100 feet of coax (unless you have a preamp). Forget trying to work it on weekends, but during the week, I hear lots of dead time...

Currently it has a timing problem, and shuts itself off a little early but it is on from initial horizon to most of the next horizon.

I will try to listen to all daytime passes. Remember it is a SINGLE voice channel like an FM repeater that only is usable for about 5 minutes! So anything more than Hi...Bye is about it... But so we know who we all are I suggest something like CQ APRS..... Or "This is W3ADO APRS station....."

See ya on 436.805 at start of doppler and down to 436.790 by the end of the pass....!

---

730. Re: wo18

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 21:59:14 -0500 (EST)
To: Dave Guimont <G_DGUIMONT@qualcomm.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325215440.9218F-100000@greatlakes>
Rendered body type: text/plain

On Fri, 22 Mar 1996, Dave Guimont wrote:

> I just completed a 14 minute pass of wo18 and found 31 hits in
> the weber-1 "heard" column.
>
> I pinged and I beaconed frequently during the pass.
> I connected to myself in ops-comm....sent several short messages
> including my phone number with a request to call me collect...
> nothing!!
>
> What do we have to do to get these guys on??

WB4APR REPLY COMMENT: Well, here is why you didnt hear me... I been

running 20 second beacons from my car for a week! BUT SUnday night my
wife answered the doorbell to find a bunch of scruffy "HAMS" on the front
porch with lots of antennas.... Seems when I was out using the car on
Saturday I used the 2m mobile to listen to the local REPEATER for a while....

Yep, left it on that freq then for the next day and a half with 20 second
beacons... WHICH NO ONE COULD DECODE because they were manchester encoded
packets for WO-18!

Well, at least I got to congratulate them on a DF hunt well done, and
invited them in for an APRS DF DEMO! hi hi

---

731. Re: [APRSSIG:7828] King KLN90B

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 22:47:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325224307.9497A-100000@greatlakes>
Rendered body type: text/plain

On Sat, 23 Mar 1996, Dave Kaplan wrote:

> I have finally got a RS232 drop from my KLN90B aircraft GPS. I get a output
> data stream every 5 seconds of about 10 lines of data. Bob, a while back
> you told me that APRS works with this output stream. How? What do I need
> to do to be able to broadcast this info from my aircraft in a useable
> format? I would like to xmit data as I fly from Sioux City, IA to Dayton

WB4APR REPLY COMMENT: I hope it still works in APRS, Here's what I know:
1) I call that the ARNAV format. It is usually a lot longer than 10 lines
2) It starts with a CTRL-B and ends with a CNTRL-C (or something like that
3) If you have an APRS laptop, AND have the APRS ARNAV registration, then
   APRS should be able to plot your posit and do the normal beaconing...
4) Im not sure if any of the TNC's will do the nomral stand-alone-tracker
   parsing of this data. PacComm says their commercial TNC's will...
   But still its a LOT of data transmitted for just a simple LAT/LONG is
   all you need....
5) Only one person to date bought the ARNAV registration over a year ago,
and I never got any feedback if it worked for him... Since I dont have
an aircraft, I cant test it live....

---

732. Re: [APRSSIG:7826] Re: 145.79

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 22:54:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325224957.9497C-100000@greatlakes>
Rendered body type: text/plain

On Sat, 23 Mar 1996, Bob Wilkins n6fri wrote:

> How will the minimize command work with high level high power Wide digis and
> the home stations that are grayed out? These stations are not running the
> program and will continue to beacon.

APR REPLY: FOr now, it wont, but those stations only beacon ONCE every
15 to 20 minutes, and that should not be a big problem, HOWEVER, I am
hoping that some of the leading TNC MFRS will include the minimize in
their TNC digipeaters eventually...

> Someone might want to start a database of the different local and
> regional APRS frequencies so they may be shown on the regional maps.

WB4APR REPLY COMMENT: IT EXISTS!!!! Just load or replay the FREQ-USA.bk
file or is it USA-FREQ? or something like that. It will show all of the
APRS frequenceis that I know of.

NOTE TO ALL!!! If you are operating a net, be sure it is shown in this
file. ALso be sure all of your permanent digipeaters are in either the
DIGIWEST.bk or DIGIEAST.BK file... THanks

---

733. Re: [APRSSIG:7818] Anyone interested in 220 MHz

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 23:03:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325225805.9497D-100000@greatlakes>
Rendered body type: text/plain

On Fri, 22 Mar 1996 n2czf@gate.net wrote:

> We were wondering about the number of users that are active or at least
> able to participate on 220 MHz if there was reason to do so. 220 is a
> GREAT band..... Why not APRS...

WB4APR REPLY COMMENT: In my humble opinion, 220 radios are too hard to
find. THe BEST UNUSED Band in MY OPINION is 6 meters! You can find TONS
of surplus single freq radios even at the 100 wattt level for about $20
to $50 a piece at ANY hamfest. AND everyone knows that mobile coverage
on 6 meters is FARTHER than 2m or 220 or 440.

The only shortcoming used to be TVI, but for MOBILE work, there is NO ONE
TO QRM! ALso for backbone work, there is NO ONE TO QRM on the mountains
tops. DO NOT work 6m APRS from your HOME, but it appears to me to have
EVERYTHING else going for it. The one thing it DOESNT have is off the
shelf HAM radios. but at $50 a piece, look in any radio wantadds and you
will see LOTS of LOWBAND radios for sale (as the public service angecies
move to 800 trunked radio...)

---

734. Re: [APRSSIG:7867] HSP Mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 23:16:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325231336.9497H-100000@greatlakes>
Rendered body type: text/plain

On Mon, 25 Mar 1996, William Nolle wrote:

> For the first time since i have been running APRS and GPS trackers i am
> now ready to add a laptop but i.m having problem. When i run the whole
> problem. I'm using a Paccomm Handy packet and the Paccomm cable, of
> course you would think this cable would fit a Paccomm TNC but is has the
> wrong gender connector, but that's not the problem Hi. By the way the
> setup works great as a standalone tracker!.

WB4APR REPLY COMMENT: Watch those connectors on the HSP cable, the SEXES
of the cable can be misleading. You cannot take the cables you use for a
stand-alone-tracker and just plug them into an HSPO switch, because pins
2 and 3 will be reversed. NOtice that in TRACKER mode, the TNC is
talking to the **TNC** but in HSP the GPS is talking to the **PC** via
the HSP siwthch. So for that application you must reverse pins 2 and 3
in your GPS cable (something like that anyway...)

---

735. Re: [APRSSIG:7878] NEC 2000D laptop w/APRS 7.5

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Mar 1996 23:29:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325232536.9497K-100000@greatlakes>
Rendered body type: text/plain

On Mon, 25 Mar 1996, John R. B. Adams wrote:

> fun putting it to use here in the shack and elsewhere. The only application
> that I've had REAL difficulty with is getting the laptop to communicate with
> the TNC (TAPR TNC-2) and the APRS7.5 programme. .... BUT!
> In spite of this .. I have been able to get into the APRS prg in a
> roundabout way. I turn on the laptop and let it go into WINDOWS 3.11 .. I
> .. THEN the APRS7.5 starts as before but does NOT stall! Works fine!

WB4APR REPLY COMMENT: Same with my 486 laptop. If you ever let WINDOWS
start up, forget it, the COM ports wont work with APRS, I DONT KNOW WHY!
I boot to DOS, and APRS works fine.... Actually any Qbasic program which
tries to open the COM port will lock up.. (if you let windows boot ur
machine)

---

736. Re:FT-2400 Problem

From: Ron Malinowski <weather@xnet.com>
Date: Tue, 26 Mar 1996 00:13:19 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603260613.AAA02988@flood.xnet.com>
Rendered body type: text/plain

>
>The package works great in sending out positions except on power up
>when the GPS is acquiring satalite data the 2 mtr. radio will
>occasionaly go into scan. The "lock" feature on the radio does not
>correct this problem.
>Brad,

I am running the same setup, I never had a problem, I think you might be

using a pin on the mic phone jack that is tuning it, check your connections,
I bough the packet cable from Yaesu and had no problems
Ron

---

737. Re: [APRSSIG:7885] Re: HSP Mode

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 26 Mar 1996 05:59:46 -0800
To: aprssig@tapr.org
Message-ID: <3157F852.214A@hiwaay.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>

> WB4APR REPLY COMMENT: Watch those connectors on the HSP cable, the SEXES
> of the cable can be misleading. You cannot take the cables you use for a
> stand-alone-tracker and just plug them into an HSPO switch, because pins
> 2 and 3 will be reversed. NOtice that in TRACKER mode, the TNC is
> talking to the **TNC** but in HSP the GPS is talking to the **PC** via
> the HSP siwthch. So for that application you must reverse pins 2 and 3
> in your GPS cable (something like that anyway...)

Ok thanks Bob, i will check that out. The HSP cabel from Paccomm uses pin 5 as
ground and pin 2 for GPS data. In any case i will check that out. Again thanks
Bob...

Bill KE4EER

---

738. MacPlus to PK-88

From: Tom Martin <jtm@mo.net>
Date: Tue, 26 Mar 1996 06:19:55 -0800
To: aprssig <aprssig@tapr.org>
Message-ID: <3157FD0B.6486@mo.net>
Rendered body type: text/plain

I want to thank everyone who answered my plea for help in getting
MacAprs to work with my MacPlus and PK-88. The good news is that I
found the problem and it seems to be working fine. (The hardware
handshaking wasn't hooked up properly)

Since I am real new at APRS I will now have to learn all of the "ins
and outs" of what it is all about.

I have a Garmin 45 and hopefully I will be able to put a tracker on
the air as soon as I get a GPS compatable TNC.

Thanks again for the help and I will continue to monitor the sig for
interesting info re APRS

Tom

---

739. Re: [APRSSIG:7867] HSP Mode

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Tue, 26 Mar 1996 08:44:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960326083631.18112F-100000@paccomm>
Rendered body type: text/plain

On Mon, 25 Mar 1996, William Nolle wrote:

> For the first time since i have been running APRS and GPS trackers i am
> now ready to add a laptop but i.m having problem. When i run the whole
> thing i do get the first position on my map, but that's all. I did notice
> that on the upper right window it says [HSP] Time out. Is this my
> problem. I'm using a Paccomm Handy packet and the Paccomm cable, of
> course you would think this cable would fit a Paccomm TNC but is has the
> wrong gender connector, but that's not the problem Hi. By the way the
> setup works great as a standalone tracker!.
>
> Bill KE4EER

Bill,

You need to add a 1k resistor from pin 6 of the HandiPacket RS-232
connector to +5VDC.

If you provide me a fax number I'll send you a copy of the suggested

installation and several other handi pages about the APRS port switch.
(Or postal address).

Regarding the gender of the cable connectors on the APRS port switch. I consider it an accessory for the APRS computer. It allows making the computer appear to have two serial ports instead of one. In that vein, the connectors on the 'non-computer' end of the cables are the same as the serial port on the PC. The thought is that you take the GPS to computer cable you already had (but had no serial port to plug it into) and plug it into the port adapter. Same for the TNC cable.

73,
Gwyn

---

740. Re: [APRSSIG:7870] Olympic Torch

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Tue, 26 Mar 1996 11:41:18 -0600
To: aprssig@tapr.org
Message-ID: <199603261742.LAA27338@tapr.org>
Rendered body type: text/plain

```
Bob B.
        The Torch is coming right thru my QTH of Cedar Rapids,IA I have dos,
win street level map's if anyone is interested. Also is there anything going
on as far as APRS and the torch run? I know Coke has the sponsorship, and
there's been some messages to hold off on any APRS activity in that area. So
I've kind of bypassed the torch messages for awhile. So I'm here APRS is
running in several sites in the area. we're linked to the quad cities.......
I guess I'm just stating that there are assets in place at one of the torch
stop's that would be available for anyone to utilize, if there is a request.
We've several GPS stand alone trackers 1 WX site an APRS digi link to an HF
Gate in the Quad Cities.
        There's K0BGP(Wide),NM0B(2 GPS, 1 WX),KF0Z(RELAY
to),W0BXR(WIDE),WB0BBM(WX,HF GATE)
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good
```

---

741. Re: [APRSSIG:7881] Re: wo18

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Tue, 26 Mar 1996 12:15:50 -0600
To: aprssig@tapr.org
Message-ID: <199603261816.MAA28683@tapr.org>
Rendered body type: text/plain

```
>WB4APR REPLY COMMENT:   Well, here is why you didnt hear me...  I been
>running 20 second beacons from my car for a week!  BUT SUnday night my
>wife answered the doorbell to find a bunch of scruffy "HAMS" on the front
>porch with lots of antennas....  Seems when I was out using the car on
>Saturday I used the 2m mobile to listen to the local REPEATER for a while....
>
>Yep, left it on that freq then for the next day and a half with 20 second
>beacons... WHICH NO ONE COULD DECODE because they were manchester encoded
>packets for WO-18!
>
>Well, at least I got to congratulate them on a DF hunt well done, and
>invited them in for an APRS DF DEMO!  hi hi
>
GREAT Murphy story Bob! You'll do anything to get new recruit's won't you?
Probably had an Allegro DFjr to wet their appetite with also you scoundrel!
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good
```

---

742. Re: [APRSSIG:7840] Filters ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Mar 1996 13:25:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960325222007.9218G-100000@greatlakes>
Rendered body type: text/plain

On Sun, 24 Mar 1996 mark.endicott@nashville.com wrote:

> Will someone please explain what the "Filter" does in APRS?
> With the Filter set to "BCNS" I DO NOT see the following
> digi on my screen, or see it in the Digi or Heard List.
>
> KC4WPS-3*>WA4GKM-5>N4NEQ-3>N4NEQ-2>WIDE:!3625.54N/08629.30W#
>
> With the Filter set to "othr" I see the above POSIT OK..

WB4APR REPLY COMMENT: Filter to BEACON filters all packets not addressed to one of the typical UI addresses of APRS, BEACON, CQ, QST, etc. The DIGI-master in the above case has the TO address = WIDE instead of the normal APRS.... ERGO, it is filtereed out. When you set APRS FILTERS to OTHER, then all packets are accepted and you see it. Pse tell the DIGImaster to change his UNPROTO to APRS VIA xxxx,xxxx,etc...

---

743. Re: 220 MHz

From: Mike Musick <71301.3106@compuserve.com>
Date: 26 Mar 96 15:48:06 EST
To: <aprssig@tapr.org>
Message-ID: <960326204806_71301.3106_FHJ56-1@CompuServe.COM>
Rendered body type: text/plain

Bob sez:

>WB4APR REPLY COMMENT: In my humble opinion, 220 radios are too hard to
>find. THe BEST UNUSED Band in MY OPINION is 6 meters! You can find TONS
>of surplus single freq radios even at the 100 wattt level for about $20
>to $50 a piece at ANY hamfest. AND everyone knows that mobile coverage
>on 6 meters is FARTHER than 2m or 220 or 440.

Oh, boy, Bob. I don't mean to pick on you, but I have to differ with almost everything you've asserted here. (Oops.)

<<220 radios are too hard to find>>

Maybe on the used market, but not new. Granted, they're invariably 2 to 3 generations behind the "current" stuff in 2m or 70cm, but all of the majors have *something* for 220. Conversely, try finding a new FM mobile for 6m - there are exactly two, and both from (IMO) non-preferred manufacturers. And a 6m HT, for a tracker? Only one, and again not one that I'd be comfortable having.

<<BEST UNUSED Band ... is 6 meters>>

Ooo. If you think that you're catching flack for trying to get consensus for "national" frequencies in 2m and 70cm, heaven help you in 6m. There are no fewer than *five* opposing repeater split plans, and lots of overlapping and conflicting local plans, with some groups already girded for defending their turf. In your favor, however, is the "non-voice" area from 50.60 to 50.80, which, after checking the database, seems to be respected in actual use. Also, because of the relative lack of activity in your area don't diminish its popularity in other regions.

<<TONS of surplus single freq radios... ANY hamfest>>

Hmm. I presume you're talking about old Low-VHF mobile rigs. I've found it to be a very spotty market these days, and depends entirely on what area agencies have or haven't upgraded. In our area (the Midwest), low-band rigs are very hard to find; we just put-up a 6m repeater, and found this out the hard way. What is available are usually MASTR PRO's, MICOR's, or MOTRAC's - all boat anchors which will run you another $50-70 to recrystal - and I've seen a goodly amount of pure junk. My first-hand experience is that these things aren't usually worth the time it takes to get 'em running, an effort, frankly, well beyond the technical scope of a lot of hams.

Besides, could you imagine building a tracker out of one of these 40-pound monsters? Not me! ;-)

<<everyone knows that mobile coverage on 6 meters is
FARTHER than 2m or 220 or 440>>

When "the band is up", it's great stuff, and out in the boondocks it's o.k., but around town 6m is QRM'ed by everybody and everything. Groundwave is horrible in settled areas, and you are unlikely to get enough quieting to make packet usable. I dislike using 6m for around-town utility because it is so noisy. I still do it, albeit primarily to humor the others who are just getting their feet wet in the band.

==========

I'll agree with the others that 220 is a good candidate. The main problem is lack of uncontended space. The expansion of the "recognized" (I use that term lightly) packet area to the space from 223.52-223.64 is in our favor, but how heavily that spectrum has been usurped for inter-node links is going to be subject to regional and personal system preferences. In some areas (the Northeast in particular), I think that area is already heavily developed. Finding a common frequency without significant conflict will be a tough row to hoe.

1.2GHz has been suggested by a few here. I have a repeater and a fair amount of equipment for 23cm, so have lots of hands-on experience with the band. It's a fun band to play with and, for APRS, the likelyhood of getting frequency consensus is the best of 'em all.

I'd personally *love* to see APRS on 23cm, and I may even put together a net of APRS-based automatic DF sites on 23cm. But for general use, mobiles will "blind spot" pretty badly, equipment is all but unavailable (the importers have essentially abandoned the band in the U.S., even though it's popular in Japan), and what *is* available is expensive. When I see 8-year-old HT's command $275 at hamfests, you know that they're tough to get.

Again, my intent was not to bubble-burst, Bob, but more to relate that my experiences run counter to what you were suggesting.

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.4.1 on a Powerbook 170 & PowerMac 8100
Operating APRS 7.5 on an HP200LX palmtop

---

744. Re: [APRSSIG:7890] Re: HSP Mode

From: rwf <rwf@mindspring.com>
Date: Tue, 26 Mar 1996 17:16:06 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960326171726.3547196e@mindspring.com>
Rendered body type: text/plain

At 07:52 AM 3/26/96 -0600, you wrote:

>Regarding the gender of the cable connectors on the APRS port switch. I
>consider it an accessory for the APRS computer. It allows making the
>computer appear to have two serial ports instead of one. In that vein,
>the connectors on the 'non-computer' end of the cables are the same as
>the serial port on the PC.

I always wondered why that was. now I know. I heard a guy giving hell to Linda at Orlando about it.

73
Ralph

---

745. Re: Olympic Torch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Mar 1996 17:39:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960326145310.19595M-100000@greatlakes>
Rendered body type: text/plain

FOR THE TORCH RUN, I am building a TORCH.HST file that shows every CITY that has DIGI coverage, and those that dont based on all the DIGIS listed in DIGIwest.bk and DIGIeast.bk. The file will should also include all GATES. Everyone that wants to help out, needs to do the following:

1) FILES-LOAD the DIGIeast or west.bk file for your area... IF YOUR PERMANENT DIGIS are not in that file, send me their P-LIST entry ASAP.

2) Do a MAPS-PLOTS-POWER so you see the radio range of the digis. DONT TRUST these circles, apparently most DIGImasters don't understand HAAT.

3) Replay the TORCHx.bk file for your area and note whether or not there is good DIGI coverage.

ACTION REQUIRED:

(A) If your DIGI was not shown, SEND IT IN
(B) If your DIGI was NOT shown and it covers a city on the torch run
     SEND IN THE CITY NAME
(C) SEND ME the PLIST entries for ALL KNOWN PERMANENT GATES. I will build
     a GATES.BK file...
(D) IF you can GUARANTEE a temporary DIGI for the day for your city, then
     send in that CITY with the notation "temporary"

NOTE, these are all BK files, and will not be LISTED when you do a FILES-REPLAY command, but they WILL replay if you enter the .BK extension...

I will take these inputs and ADD TO my big TORCH.HST file and all cities that have coverage will show as a LIGHTHOUSE and those without will show as small dots. I am not posting this file until I get the first round of inputs. I ALREADY HAVE made the correlation between the current DIGI files and TORCH files, so do NOT send me data on those areas obviiously covered.... I need info on what is NOT in the DIGI files... Thanks!

P.S. I made a voice APRS contact via AO-27 today with N1QPR...
You probably need a gain antenna to hear the downlink... but you can hit the bird with a 5 watt walkietalke... (If no one else is transmitting, hi hi!_)

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746. [APRSSIG:7884] Re: Anyone interested in 220 MHz

From: n2czf@gate.net
Date: Tue, 26 Mar 1996 18:18:51 -0500
To: aprssig@tapr.org
Message-ID: <199603262318.SAA50466@osceola.gate.net>
Rendered body type: text/plain

*** WB4APR REPLY COMMENT: In my humble opinion, 220 radios are too hard to find. THe BEST UNUSED Band in MY OPINION is 6 meters! You can find TONS of surplus single freq radios even at the 100 watt level for about $20 to $50 a piece at ANY hamfest. AND everyone knows that mobile coverage on 6 meters is FARTHER than 2m or 220 or 440.

*** Edited

I agree on the 6M idea and posted several messages on that same note about 3 months ago. I think a total of 3-4 stations across the country replied about 6M activity! My ideas on 6M are as follows but do not get the wrong impression, I am playing the devil's advocate here.

a) These radios can be found cheap, but add crystals and a large enough power supply, God help you if you need elements and the price is not so cheap.

b) If you are lucky these 6M radios can be a great deal but do not get in over your head! Know what you are buying BEFORE you pull out the cash. Make sure you find the right "cut" radio for 6M use. Some low band rigs are "cut" for the 30MHz region and all you will be left with is A LOT of component changes for 6M or a wonderful radio for 10M FM!

c) These radios are not small by any means. The only exceptions are Uniden Force mobiles. Even the trunk mount version is small and will give you 120W with ease and the front mount version is the size of your average CB and can supply about 60-70W output (only limited by the heatsink). Some of the commercial sites will only allow you a certain amount of room, this is the case with our local NODE stack at a cable TV tower. Make sure you have the room, take into account the 20+ amp power supply, TNC, and possibly some sort of cavity in case you QRM someone or someone is QRM'ing you.

Now that the negatives are all gone let me say that I think 6M is a great band and I really enjoy it when I get on there. I do disagree about coverage on 6M, it depends on the situation at hand, I have been able to stay in contact on 2M simplex at times farther than on 6M. You need power and a good antenna on this band to make it work as a backbone. 220 MHz simplex will probably be either equal or even greater depending on your antenna. 6M antennas are LARGE, and loaded antennas perform quite poorly. You can get a lot more gain out of a 220 MHz antenna than a equally sized 6M antenna that is probably why we end up with greater range. 220 Radios are expensive and more fragile, why does anyone want all those features for a plain old digi ?? This is why I would lean towards 6M over 220 but not really for any other reason.

If you do consider a 6M digi or backbone PLEASE look at the Diamond X-2000 vertical antenna and a appropriate triplexer like the MX-2000D. I own 2 of these antennas and one has been working very well for over 3 years with the other in use for 1 year. You get 6M/2M/440 coverage out of one fiberglass antenna and feedline. This feedline/antenna savings will probably pay for the hardline you will use on the digi! I hope you are going to at least use 9914 if not hardline

at the site ???
If you go the 220 MHz route look at Diamond's other model that will cover 2M/220/440. Right there you have the ability to run a WIDE on .79, a backbone on 220 MHz and a UHF repeater at the same site where all the local APRS users can chat!

If you still want to give 6M a try look for GE: Master EXEC II or Master II's Motorola: Mitrek Uniden: FML Series. These are the best bets for amateur use but beware of the frequency range, 2 low band models can be quite different from each other and on low band it is even worse. Operational Bandwith is quite narrow this is why my FML 120W Uniden cannot operate on 50.62 AT ALL while it is a killer on the repeater portion of the band. Be also aware that most Uniden radios are EEPROM programable. This is great since you do not need to buy crystals but if you can't find someone with the SPECIFIC programer you are out of luck. Uniden makes 3 programmers and all shops do not necessarly have all three. The average price to program a chip unless you know someone is about 1/2 Bench Labor Hour = $30-$40. Personal expirience shows that the Master EXEC II at 40W $50 + Crystals and a Uniden FML Trunk Mount 120W 36 Ch EEPROM programable at $150 in good condition plus programing are very good choices. The GE is bigger but draws less current so keep that in mind.

Let's hear from others, let's get the train going guess it is time to decide on a 6M frequency also (Will 50.62 ruffle anyones feathers like all the other choices we have made ?) and get it coordinated.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

747. Re: ?? Food in San Diego

From: Larry Griffin <largriff@onramp.net>
Date: Tue, 26 Mar 1996 18:43:11 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1B44.18C96B00@lub05.onramp.net>
Rendered body type: text/plain

KA5ZCK wrote:
>I have to spend the first week of May in San Diego. Anybody know where the
>good chinese restraunts are?

Hey! That's a good question! (Anything to do with food is!!!)
Be sure to give him the answer in Lat/Lon to keep it on topic ;-)

---

748. Re: [APRSSIG:7896] Re: Olympic Torch

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 26 Mar 1996 16:50:03 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
    "bruninga@nadn.navy.mil" <bruninga@nadn.navy.mil> (Return requested)
Message-ID: <044DE315890BB006*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

I confess I'm confused as to what you mean when you say "digi". Since every APRS station digipeats for a packet addressed to relay, are you wanting every station? Or do you mean "WIDE"?

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7896] Re: Olympic Torch
Author: bruninga@nadn.navy.mil at Internet
Date: 3/26/96 2:58 PM

FOR THE TORCH RUN, I am building a TORCH.HST file that shows every CITY that has DIGI coverage, and those that dont based on all the DIGIS listed in DIGIwest.bk and DIGIeast.bk. The file will should also include all GATES. Everyone that wants to help out, needs to do the following:

1) FILES-LOAD the DIGIeast or west.bk file for your area... IF YOUR PERMANENT DIGIS are not in that file, send me their P-LIST entry ASAP.

2) Do a MAPS-PLOTS-POWER so you see the radio range of the digis. DONT TRUST these circles, apparently most DIGImasters don't understand HAAT.

3) Replay the TORCHx.bk file for your area and note whether or not there is good DIGI coverage.

ACTION REQUIRED:

```
(A)  If your DIGI was not shown, SEND IT IN
(B)  If your DIGI was NOT shown and it covers a city on the torch run
     SEND IN THE CITY NAME
(C)  SEND ME the PLIST entries for ALL KNOWN PERMANENT GATES.  I will build
     a GATES.BK file...
(D)  IF you can GUARANTEE a temporary DIGI for the day for your city, then
     send in that CITY with the notation "temporary"

NOTE, these are all BK files, and will not be LISTED when you do a
FILES-REPLAY command, but they WILL replay if you enter the .BK extension...

I will take these inputs and ADD TO my big TORCH.HST file and all cities
that have coverage will show as a LIGHTHOUSE and those without will show
as small dots.  I am not posting this file until I get the first round of
inputs.  I ALREADY HAVE made the correlation between the current DIGI
files and TORCH files, so do NOT send me data on those areas obviiously
covered....  I need info on what is NOT in the DIGI files...  Thanks!

P.S. I made a voice APRS contact via AO-27 today with N1QPR...
You probably need a gain antenna to hear the downlink... but you can
hit the bird with a 5 watt walkietalke... (If no one else is
transmitting, hi hi!_)
```

---

749. RE: [APRSSIG:7884] Re: Anyone interested in 220 MHz

From: Ben Pollard <benws5r@arn.net>
Date: Tue, 26 Mar 1996 20:27:53 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1B53.36B9C380@dialup1-068.arn.net>
Rendered body type: text/plain

```
Bob Wrote

>DO NOT work 6m APRS from your HOME, but it appears to me to have
>EVERYTHING else going for it.  The one thing it DOESNT have is off the
>shelf HAM radios.  but at $50 a piece, look in any radio wantadds and you
>will see LOTS of LOWBAND radios for sale (as the public service angecies
>move to 800 trunked radio...)

Has anyone thought of (if it is even possible) of tieing both a 2m (145.79) and 6m (what freq we going
to use 50.620?) to one tnc? This will give an inexpensive gateway and everything from one band goes to
the other and visa versa. Most times I don't see this as a problem except when 6m opens (I actually see
it as a benifit as I always have APRS running and will see the opening and in what direction so I can
get on 6). I've heard it is possible to tie 2 radios to one tnc in this manner and with the cheap 6m
rigs available it would allow you to have a WIDE with both 6m and 2m so mobiles can run 6m and be seen
by the 2m home stations. Any thoughts on this good, bad , or indifferent?

Bob for your information our local ARES group may get a donation of 20 -30 mobiles and 14 base units (to
 set up as 6m wides). As EC I hope to see them go into APRS use for the 1st widespread 6m APRS/packet
network around. Haven't got them yet, but will let you know. Also, hope to have a full time 79 WIDE up
in the TX panhandle soon, looking for a sight.

73 Ben WS5R DM95cf benws5r@arn.net

                      "Sticks and Stones can break bones, but FLAMES
                      will help me brew better BEER!"
```

---

750. RE: [APRSSIG:7897] Re: Anyone interested in 220 MHz

From: Steve Dubois <steve@muskoka.com>
Date: Tue, 26 Mar 96 22:26:51 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.960326223224.Steve@steve.muskoka.com>
Rendered body type: text/plain

```
Hi Rich,

I am very interested in running 6 mtrs up here in FN05
country. I have an Icom ic-551D as well as two Mitrek. I
am trying to set up here at my qth. I was running  the
icom on 50.620 at 90 wts thru a 2 elm. quad. Now I have a
hygain 6mtr beam as well but it is down at the moment.
Also I have just received the horizontal elm for the quad
so I can work both vertical and horizontal. If we are on
50.620 what is everyone running on? FM/USB/LSB

Lets get this going.

73.....de Steve  VA3HOI
-------------------------------------
```

```
Name: Steve Dubois
E-mail: Steve Dubois <steve@muskoka.com>
Date: 03/26/96
Time: 22:26:51

This message was sent by Chameleon
-------------------------------------
```

751. Re: [APRSSIG:7898] Re: ?? Food in San Diego

From: William Nolle <ke4eer@hiwaay.net>
Date: Tue, 26 Mar 1996 22:14:10 -0800
To: aprssig@tapr.org
Message-ID: <3158DCB2.7908@hiwaay.net>
Rendered body type: text/plain

```
Larry Griffin wrote:
>
> KA5ZCK wrote:
> >I have to spend the first week of May in San Diego.  Anybody know where the
> >good  chinese restraunts are?
>
> Hey!  That's a good question!  (Anything to do with food is!!!)
> Be sure to give him the answer in Lat/Lon to keep it on topic ;-)

--------
Boy that's a great APRS SIG question, and even more so a great answer.

Bill KE4EER
```

752. DIGIS!!!! WHERE are they?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Mar 1996 00:33:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960327002733.27654A-100000@greatlakes>
Rendered body type: text/plain

```
I have been begging and pleading to get people to REPLAY DIGIEAST.bk and
DIGIWEST.BK and send in any missing digipeaters.  This is getting serious
with the Olympic TOrch run less than a month away.

I compared the TORCH run to these lists and we only have 40% coverage.
BUT THERE ARE OBVIOUS MISSING DIGIPEATERS IN THESE FILES.  I Know there
is activity in these areas:

Portland, Seattle, COlorado, Utah, Arizona Dallas, IOWA
Michigan, Wisconsin, New England!

But there are no digipeaters shown for any of these areas..
PLEASE SEND IN YOUR DIGIPEATERS....

But Please send in ONLY what needs to be added, dont make me have to
figure out what is new and what is old....
```

753. Re: [APRSSIG:7834] Re: aprs adaptor

From: rsellers@misha.net (Roger Sellers)
Date: Tue, 26 Mar 1996 23:58:14 -0600
To: aprssig@tapr.org
Message-ID: <199603270558.XAA23288@misha.net>
Rendered body type: text/plain

```
I'll jump in here a sec.....
  I have a question, I'm new to APRS since Jan. and I have gotten a
Garmin 45. I also have a KPC3 connected to my mobile and laptop.

        This is going to sound like a really dumb question, but since I
haven't seen it stated specifically, I will ask, A GPS unit, does it plug
into the TNC (have KPC3) or into the computer? I currently have a laptop
with a single serial port. Does it share the port somehow?
        Also, I have heard there is a diagram/schematic for a DUAL connector
setup to plug a GPS and TNC together. Does anyone have this if it exists?
If so, could you e-mail it to me?

>At 06:48 AM 3/24/96 -0600, you wrote:
>>Is it possible to use the aprs dualport adapter from AEA
>>in other tnc's ?
>>
>>Mike
>>KD4EMI@AOL.COM
```

```
>>
>>
>
>Yes, I use it on the KPC3.
>The critical thing is supplying it power, just like the Paccomm switch, it
>expects power on a certain pin (from the TNC)
>I wired the KPC3 for external power IN on the rs232 plug (pin 25), then
>powered it from the small coax power jack and stole power FROM pin 25.  One
>jumper change in the AEA switch, and it got power from the proper KPC3 pin.
>
>
>
>
>                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
>Advisor
>                    rwf@mindspring.com
>Atlanta, GA USA
>      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
>Ham info
>My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
>me how!
>
>
>
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

754. Re: [APRSSIG:7902] Re: ?? Food in San Diego

From: WB4LTF@aol.com
Date: Wed, 27 Mar 1996 08:50:06 -0500
To: aprssig@tapr.org
Message-ID: <960327085005_257170427@mail06>
Rendered body type: text/plain

```
At least it was cordial!!!
```

---

755. Re: [APRSSIG:7904] Re: aprs adaptor

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Mar 1996 10:38:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960327103707.4442B-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 27 Mar 1996, Roger Sellers wrote:

>         This is going to sound like a really dumb question, but since I
> haven't seen it stated specifically, I will ask, A GPS unit, does it plug
> into the TNC (have KPC3) or into the computer? I currently have a laptop
> with a single serial port. Does it share the port somehow?

WB4APR REPLY COMMENT:  yes to all three.  read GPS.txt included in your
APRS\README directory...
```

---

756. Maxon Crystals

From: mark.endicott@nashville.com
Date: Wed, 27 Mar 96 07:08:38
To: aprssig@tapr.org
Message-ID: <199603271540.JAA01749@tapr.org>
Rendered body type: text/plain

```
Many of you have asked where to get crystals for the Maxon Transmitters
that have been on the SIG.  Although they are available from nearly all
crystal suppliers, I have bought them from the following:

                                        Marden Electronics
                                        1 (800) 222-6093
If you specify for a Maxon CP-0510
you will get the right thing.

                                                        Mark..WB0NOO


    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |_______________________________/
```

---

757. Re: DIGIS!!!! WHERE are they?

From: "Bruce W. Martin" <martinbw@Telalink.Net>
Date: Wed, 27 Mar 1996 09:22:58 -0600
To: aprssig@tapr.org, bruninga@nadn.navy.mil
Message-ID: <9603270922.AA58421@oscar.telalink.net>
Rendered body type: text/plain

```
> I have been begging and pleading to get people to REPLAY DIGIEAST.bk
> and DIGIWEST.BK and send in any missing digipeaters.  This is
> getting serious with the Olympic TOrch run less than a month away.

> PLEASE SEND IN YOUR DIGIPEATERS....
>
> But Please send in ONLY what needs to be added, dont make me have
> to figure out what is new and what is old....


Add:

KF4AJO-1>!3554.58N/08653.90W#PHG5330/WIDE-RELAY.Fistfighters United Nashville

KC4WPS-3>!3625.54N/08629.30W#



Remove:

p,KF4AJO    281531 *281531/3609.03N/08640.15W#PHG5360/WIDE-RELAY. FistFighters
```

---

758. Re: [APRSSIG:7851] Re: GPS for landing

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 27 Mar 1996 12:46:55 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603271846.MAA17697@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Al Chan - W6DNT sez:
>
> Accuracy of altimeter is only plus or minus 100 feet. Is that good enough
> for the purpose? What are the requirements for "non-precision" landing?

For CAT I precision approaches, you usually see minima of 600 and 1/2 mile.
>From the decision point, you visually guide the aircraft in for a landing.
+/- 100 feet is adequate for this job.

> The problem with ILS is that it is a pencil beam straight line, that doesn't
> lend well for the purpose of noise abatement, which is a growing problem in
> small towns as well as major cities. Is the Glideslope portion of the ILS
> more precise than the altitude determination with DGPS?  If so, can the DGPS
> be further developed in the future to augment vertical reference, equal to
> the precision of the ILS glideslope?

Actually, it's a conical beam that extends from the two separate transmitter
sites: Localizer is usually located toward the far end of the runway and the
glideslope is at the approach end.  The two are not colocated in frequency,
either.  Guidance is adequate to bring you somewhere into the Touchdown Zone,
which is 1000 feet long, and the width of the runway.

> I've heard that the Europeans are reluctant in accepting GPS because it is
> controlled solely by the DoD (U.S. Defense department or Pentagon.) It can
> be turned off at will. i.e., at the Pentagon's will. How valid is this
> argument?

This concern has been repeatedly aired.  It's real.  The Europeans ahave
investigated a variety of alternatives.  One of the best is to coutilize the
the Russian GLONASS system.

> What is Cat I minimums? About 600 feet? Who financed WAAS? How many WAAS
> satellites are required to cover all of contiguous United States? Are these
> satellites geosynchronous? I understand the GPS space vehicles used to be
> geosynchronous. When did they change to non-synch?

WAAS is financed by the FAA.  2 satellites can adequately cover the CONUS,
```

although if I can recall, 3 will be used. As I remember, the WAAS satellites are in a geosynchronous orbit.

The GPS SVs were _NOT_ designed for a geostationary or geosynchronous orbit. One major reason is the amount of signal needed at L-band to meet the GPS user segment requirement for minimum available signal levels. a Medium Earth Orbit altitude was better suited. Further, you gain some degree of utility by having the satellites appear to move around a bit. In command and control.

> The Norwegians are using their FM broadcasting band (the band we use for
> stereo music) for the Differential part of the D-GPS. Why can't we do the
> same and save a lot of money, since FM signal is ubiquitous all over the
> States. Just let FCC allocate a small portion of the FM band (low or high
> end) for D-GPS. Either that or let the differential signal piggy back on
> existing commercial FM broadcasting stations. Wouldn't that serve the
> purpose of the WAAS or LAAS, since every city and small town with an airport
> also has FM stations playing stereo music? If it's good enough for
> fishermen, it should be good enough for pilots. Furthermore, it would work
> well around automobiles, motorhomes, and yachts close to land.

Because the US Gov't had not committed to making DGPS a free service. A couple of companies are offering DGPS correction services at various levels of correction available as a fee for service issue.

And NO that would *NOT* serve the purposes of WAAS or LAAS because the requirements for accuracy and redundancy, error detection and correction, would be lost.

Gerry

---

759. ZDNet News Flash!

From: ZDI Software Library Temp <ZDI_Software_Library_Temp@zd.com>
Date: Wed, 27 Mar 1996 13:36:31 -0400 (EDT)
To: aprssig <aprssig@tapr.org>
Message-ID: <9603272155.AA1542@mail.zd.com>
Rendered body type: text/plain

Attention all software developers! There is a lot of activity around ZD Net's software libraries this month as we launch two new editions on AOL and the Web, and prepare for our third annual Ziff-Davis Shareware Awards program.

Today, we're excited to announce that the ZD Net Software Library went live on the Web. The URL is:

http://www.zdnet.com/zdi/software/

If you'd like to read the full press release, please visit the following URL:

http://www.zdnet.com/zdi/software/news/prlaunch.html

We invite all shareware authors to visit the site and see what a great resource we are offering to Web users, free of fees or registration requirements.

We expect this move to significantly increase the exposure of the library -- and therefore of your software programs. The ZD Net Software Library is far ahead of other resources on the Web: its the only library that carefully screens, rates and reviews each program, selecting only the best to appear on the site. In addition, usage of the ZD Net Web site increases between 10 and 20 percent monthly. According to our February activity report, ZD Net received 10.4 million page requests and more than 700,000 unique Internet hosts accessed ZD Net. See the press release attached below for more information.

Just last week, we launched a consumer-oriented edition of our shareware library as part of our ZD Net/AOL Edition launch (Keyword: ZDNET). Already, thousands of people have registered for this edition of ZD Net, and the download shareware library is the most heavily used part of this site.

Finally, the deadline for the third annual Ziff-Davis Shareware Awards is quickly approaching. Although submissions are not required this year, you may want to check our library to make sure that the latest versions of your pro grams are available. You can also read about the eligibility requirements at the following URL:

http://www.zdnet.com/zdi/software/zdawards/zdawards.html

We look forward to continuing to expand the reach of the ZD Net software libraries, building on our reputation as provider of only the best available software titles, and we look forward to working with you to obtain your latest and greatest shareware and freeware programs. It is your hard work that makes

```
our software library such a big success.

As always, thank you for allowing us to distribute your programs.

-Scott Arpajian
 Acquisitions Editor, Software Library
 ZD Net
 e-mail: scott_arpajian@zd.com
```

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760. Re: [APRSSIG:7911] ZDNet News Flash!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 27 Mar 1996 13:58:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603271958.NAA19514@solar.cs.tamu.edu>
Rendered body type: text/plain

```
ZDI Software Library Temp sez:
>
> Attention all software developers!  There is a lot of activity around ZD Net's
> software libraries this month as we launch two new editions on AOL and the Web,
> and prepare for our third annual Ziff-Davis Shareware Awards program.

'Scuse me, but did we just get SPAMMED?

gerry
```

---

761. Re: [APRSSIG:7904] Re: aprs adaptor

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 27 Mar 1996 14:23:21 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad7f4b308175@[199.1.11.125]>
Rendered body type: text/plain

```
>  I have a question, I'm new to APRS since Jan. and I have gotten a
>Garmin 45. I also have a KPC3 connected to my mobile and laptop.
>
>        This is going to sound like a really dumb question, but since I
>haven't seen it stated specifically, I will ask, A GPS unit, does it plug
>into the TNC (have KPC3) or into the computer? I currently have a laptop
>with a single serial port. Does it share the port somehow?

YES or add a second port  (I installed a PCMCIA serial port in my MAC PB-540 )

A GPS plugged into a TNC is called a GPS tracker. No computer is needed.

For APRS use with a GPS, the GPS data is routed to the computer.
best if you have an extra serial port but a smart switch (HSP) will work.

>        Also, I have heard there is a diagram/schematic for a DUAL connector
>setup to plug a GPS and TNC together. Does anyone have this if it exists?
>If so, could you e-mail it to me?
>

anyone interested in the single port problem and using a GPS with a
laptop might want to read the following three files in the APRS Doc's

Bob must have spent many long hours writing and collecting this information
we all might want to take another look at the README text files.

------------------------------------
File name in the APRS documentation    "GPS.TXT" in  readme directory

HARDWARE SINGLE PORT MODE  (HSP)  FOR USE WITH ALL GPS UNITS:


     APRS can control the switching of the Single Port Mode between the TNC
and ANY GPS using the handshaking lines of the COMM port and a simple two
transistor switch soldered into the serial port data connector hood.  This
mode is called the HSP mode.  In this HSP mode, APRS periodically toggles the
DTR output of the serial port for a second or so whenever it needs data from
the GPS.  With DTR held high (normal) the GPS data is shunted to GND while
the TNC operates normally.  When APRS toggles the DTR low, this holds off
output from the TNC, but also enables data through the emitter follower from
the GPS.  As soon as APRS receives the GPS data it needs, it restores DTR so
the TNC is connected for normal APRS operations.  In some TNC's, (PACCOMM)
the RTS is used instead of the DTR for holding off TNC data.  Also, this
circuit uses your PC RTS line to derive a cource of +V.  If the impedance of
your PC RTS line is not strong enough, you might need to get it from the TNC's
DSR line.  REMEMBER THAT YOUR TNC AND GPS MUST BE SETUP AT THE SAME BAUD RATE,
```

usually 4800 baud.

File name in the APRS documentation   "HSP-BUGS.TXT" in readme directory

HSP-bugs.txt 7.3a   APRS HSP Port Switch

If You Have Difficulty Getting the APRS Port Switch to Work There are two common problems to look for: The unit is not getting power or the GPS signals are at too low a level.

File name in the APRS documentation   "DF.TXT" in readme directory

DIRECTION FINDING IN DF SINGLE PORT MODE!

Since we have just about concluded that you need a manual push button for the operator anway (thanks Joe Moel, K0OV), it becomes trivial for us to add the DF serial data to the existing shared GPS/TNC/HSP serial port. The following schematic shows how the serial data from all three devices is switched and how a second pair of contacts is used to alert APRS, when the DF data is connected.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

762. Help on .dat files

From: AD4CR@aol.com
Date: Wed, 27 Mar 1996 16:05:52 -0500
To: aprssig@tapr.org
Message-ID: <960327160550_456357955@mail02.mail.aol.com>
Rendered body type: text/plain

How and what program do i need to read the .dat files sent over this Sig

---

763. Re: [APRSSIG:7901] Re: Anyone interested in 220 MHz

From: n2czf@gate.net
Date: Wed, 27 Mar 1996 17:37:35 -0500
To: aprssig@tapr.org
Message-ID: <199603272237.RAA57898@osceola.gate.net>
Rendered body type: text/plain

FM Steve and I think that a presidence should start with VERTICAL polarazation. The reason is that FM is usualy vertical and the idea of 6M is not so much for a Operational Band, which it can be but more for Linking distant digi's. Due to this fact and the probablility of this equipment residing at a commercial tower or building Vertical is the only way to to and also Omni. For you in the fringe areas to the North a beam may be a good idea but for "WIDE Local" coverage Omni is the only way to go.

Again as the last time I brought up the 6M idea I am really interested and can operate 6M almost 24hrs a day. If the band is open I will move over to voice but I can leave the radio on .62 all the other times. I will not be able to join anyone untill I find the modification to make the Uniden cover the complete band. I do not want to lose the FM Repeater coverage and even though I have 50.62 programed in the radio it will not lock up unless I modify it.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

764. Re: [APRSSIG:7903] DIGIS!!!! WHERE are they?

From: n2czf@gate.net
Date: Wed, 27 Mar 1996 17:43:42 -0500
To: aprssig@tapr.org
Message-ID: <199603272243.RAA68000@osceola.gate.net>
Rendered body type: text/plain

Don't forget as I do Bob that not everyone has Internet mail and may not be reading these messages. Even if the APRS users in the area have Internet some

may not know of the sig or have unsubscribed. We all must admit it is a busy sig
and a lot of the mail does not interest everyone, many chose to not receive it
due to that.

Maybe a few phone calls to the regestered APRS users you have in your database
in those areas will get the fires going.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

---

765. GPS Board

From: William Neal <wmn3@dfw.net>
Date: Wed, 27 Mar 96 18:23:36 CST
To: aprssig@tapr.org
Message-ID: <2.2.16.19960327181536.2b4f36a6@dfw.net>
Rendered body type: text/plain

Someone said something about buying some GPS boards in large quantities...
Can that person please send me a msg so that I can ask further questions?

Thanks, Bill
William Neal, Sgt, USAF (Ret.)
----
wmn3@dfw.net *** n0nsa@n5aux.tx.usa.noam
Home 817-788-8550 *** Page 817-452-9787

Retired at age 31! As the lady on the
Church's commercial say's, "Gotta Luv It"!

---

766. Re: GPS for landing.

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Wed, 27 Mar 96 16:05:05 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <84@w6dnt.ampr.org>
Rendered body type: text/plain

In reply to AL, Gerry Creager wrote:

AL> The Norwegians are using their FM broadcasting band (the band we
AL> use for stereo music) for the Differential part of the D-GPS.
AL> Why can't we do the same and save a lot of money, since FM
AL> signal is ubiquitous all over the States. Just let FCC allocate
AL> a small portion of the FM band (low or high end) for D-GPS.
AL> Either that or let the differential signal piggy back on
AL> existing commercial FM broadcasting stations. Wouldn't that
AL> serve the purpose of the WAAS or LAAS, since every city and
AL> small town with an airport also has FM stations playing stereo
AL> music? If it's good enough for fishermen, it should be good
AL> enough for pilots. Furthermore, it would work well around
AL> automobiles, motorhomes, and yachts close to land.

GC> And NO that would *NOT* serve the purposes of WAAS or LAAS
GC> because the requirements for accuracy and redundancy, error
GC> detection and correction, would be lost.

Why would broadcasting the differential (GPS dither correction)
signal through a subcarrier of an FM station any different than
going through a regular stand-alone ground station? Many of these FM
stations have high power 10 kilowatt transmitters. The correction
signal would be piped to the FM stations through telephone lines.

This would save money in the construction of hundreds of stations for
the LAAS.

How often is the dithering? Is the actual position continuously
changed? Or is it static for a period of time. How many times in a
period of one second is the actual position dithered?

CG> This concern has been repeatedly aired. It's real. The Europeans
CG> have investigated a variety of alternatives. One of the best is
CG> to coutilize the the Russian GLONASS system.

Is the Russian GLONASS system also dithered? If not, why not? Does the
Glonass also have about 24 satellites?

-al.

767. [APRSSIG:7903] DIGIS!!!! WHERE are they?

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Wed, 27 Mar 1996 20:52:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I2UHX0HP4Y99JTSW@delphi.com>
Rendered body type: text/plain

```
____MESSAGE HEADER INFORMATION DO NOT WRITE ABOVE THIS LINE______
On 27-MAR-1996 01:57:28.7 aprssig said to JKHAM
   >I have been begging and pleading to get people to REPLAY DIGIEAST.bk and
   >DIGIWEST.BK and send in any missing digipeaters.  This is getting

   WHERE ARE DIGIEAST.BK AND DIGIWEST.BK I looked on tapr but no luck
   the file torch.zip only has a .bmp file THAT NOTHING I HAVE CAN
   DECODE.

THE MACON DIGI IS ON THE AIR AND WILL REMAIN SO UNTIL REPLACED BY A
BETTER SITE.

BTEXT  !3251.35N/08344.03W#PHG5238/WIDE/RELAY MACON GA JKHAM@DELPHI.COM

John F. Kraus II <JKHAM@DELPHI.COM>
```

---

768. Re: [APRSSIG:7917] GPS Board

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Mar 1996 21:10:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960327210839.18509C-100000@greatlakes>
Rendered body type: text/plain

```
On Wed, 27 Mar 1996, William Neal wrote:

> Someone said something about buying some GPS boards in large quantities...
> Can that person please send me a msg so that I can ask further questions?

WB4APR REPLY COMMENT:  I hope this is not premature, but TAPR, the
sponsor of this SIG is going to make a bulk purchase in a week or so, we
just made the agreement 5 minutes ago...  WAIT for an official
announcement... in a few days...
```

---

769. Re: [APRSSIG:7903] DIGIS!!!! WHERE are they?

From: KS4NY@aol.com
Date: Wed, 27 Mar 1996 21:40:03 -0500
To: aprssig@tapr.org
Message-ID: <960327214000_456673093@mail02.mail.aol.com>
Rendered body type: text/plain

```
Add:

W4NN-1>!3028.94N/08630.18W#PHG5470/WIDE W4NN EGLIN AFB FL

KS4NY-7>!3038.05N/08704.08W#PHG7460/WIDE WPAN ARES/SKYWARN DIGI

KO4TT-7>!3030.90N/08713.10W#PHG2470/WIDE located @ WSTFL MED CTR

These are the digis for the West Panhandle of Florida to date.
```

---

770. Re: [APRSSIG:7919] DIGIS!!!! WHERE are they?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Mar 1996 22:13:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960327221258.18677D@greatlakes>
Rendered body type: text/plain

```
On Wed, 27 Mar 1996, John F. Kraus II wrote:

> THE MACON DIGI IS ON THE AIR AND WILL REMAIN SO UNTIL REPLACED BY A
> BETTER SITE.
>
> BTEXT  !3251.35N/08344.03W#PHG5238/WIDE/RELAY MACON GA JKHAM@DELPHI.COM

WB4APR REPLY COMMENT:  Yes, but it will NOT show up all greeen beacuse
you have it as WIDE/RELAY instead of WIDE-RELAY...
```

---

771. Re: [APRSSIG:7911] ZDNet News Flash!

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 27 Mar 1996 22:44:12
To: APRSSIG@tapr.org

Message-ID: <199603280348.WAA11768@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
>From:  ZDI Software Library Temp
> <ZDI_Software_Library_Temp@zd.com>
>Sender:        aprssig@tapr.org
>To:    aprssig@tapr.org
>Subject:       [APRSSIG:7911] ZDNet News Flash!

-----------------INTERVENING TEXT SNIPPED---------------------

>-Scott Arpajian
> Acquisitions Editor, Software Library
> ZD Net
> e-mail: scott_arpajian@zd.com
>

______________________________________________________________
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Can anybody tell me what the heck all that has to do with APRS
and what it's doing here on the SIG?  This is the second such
message I've seen in the last month or so...


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

---

772. Re: [APRSSIG:7918] Re: GPS for landing.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 27 Mar 1996 22:08:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603280408.WAA27288@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Al Chan - W6DNT sez:
>
> Why would broadcasting the differential (GPS dither correction)
> signal through a subcarrier of an FM station any different than
> going through a regular stand-alone ground station? Many of these FM
> stations have high power 10 kilowatt transmitters. The correction
> signal would be piped to the FM stations through telephone lines.

I've answered these questions before on the list.  I'd suggest that, if you've
further questions, we take them off to e-mail.  IF there's list-wide interest,
I'll summarize later.

There are a number of differences.
1.  The FM station controls the transmitter and subcarrier.  The FAA does not.
2.  The FM Station is optimized to transmit its signal to the ground, not the
air.
3.  The FM station has little concern for multipath and the associated timing
errors that could be incurred.
4.  The subcarrier system is bandwidth limited and cannot transmit real high
datarates.
5.  The FM stations are frequently 100kw ERP... and that incurs its own
potential for interference in the sky.

> This would save money in the construction of hundreds of stations for
> the LAAS.

Too many associated technical issues (I prefer to not use 'problems' here).

> How often is the dithering? Is the actual position continuously
> changed? Or is it static for a period of time. How many times in a
> period of one second is the actual position dithered?

The theory associated with Selective Availability is more complex than you are
appreciating here.

> Is the Russian GLONASS system also dithered? If not, why not? Does the
> Glonass also have about 24 satellites?

No it is not.  Because they did not have the technology available to them at
the time.  GLONASS uses a different geometry than GPS to get similar results.

gerry
n5jxs@tamu.edu
```

773. TORCH PLANS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Mar 1996 23:12:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960327231112.18973A@greatlakes>
Rendered body type: text/plain

```
Here is the game plan:

Torch run begins in 30 days or so from now!

An Olympic Chase vehicle will have a 50 watt APRS stand alone tracker.
It will NOT have HF.   We are dreaming about a PACSAT uplink, but
this is only a dream at this point..

1)  The complete route is in TORCHW,M,E,SE and GA.bk.  If you LOAD
    instead of REPLAY these files, you will see on the P-LIST that
    some of these legs are via TRAIN and other strange forms of
    transport...  If we want to have coverage on the TRAIN, we may
    need an APRS HAM to jump aboard with his OWN tracker and ride along.
    (Boats too)

2)  We need a CALLSIGN!  Does anyone have the time to get us a special
    event callsign?

3)  We need a list of APRS VOLUNTEERS along the ROUTE with Phone numbers
    so we can remain in close contact

4)  *** ***   We need a VOLUNTEER TO maintain THIS LIST FOR US. *** ***

5)  I am assuming that there will be some APRS volunteers that would
    be willing to spend a day "trailing" or "Leading" the entourage
    to provide MOBILE digi coverage in sparse areas...

    THe Torch TNC will beacon via 4 paths something like this:
        WIDE,GATE,GATE,WIDE
        RELAY,WIDE,GATE,GATE,WIDE
        RELAY,WIDE,WIDE,GATE,GATE,WIDE
        WEBER-1   ?

Have I left anything out?  But NOW we need that volunteer LIST
coordinator... (and callsign-getter).  And if you are going to
volunteer to RIDE the train(s) or Boats, you will probably need
to develop your own local contacts...
```

---

774. Re: [APRSSIG:7919] DIGIS!!!! WHERE are they?

From: rwf <rwf@mindspring.com>
Date: Wed, 27 Mar 1996 23:17:18 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960327231841.41c7d712@mindspring.com>
Rendered body type: text/plain

```
At 07:54 PM 3/27/96 -0600, you wrote:

<snip>

>  .... the file torch.zip only has a .bmp file THAT NOTHING I HAVE CAN
>   DECODE.
>

Again,   the torch  BMP file is a windoze wallpaper file of the torch relay
map.  For those with Windoze, it goes in the Windows directory and is
selected as desktop wallpaper.
```

---

775. Weather breakthrough

From: KD4EMI@aol.com
Date: Wed, 27 Mar 1996 23:28:53 -0500
To: aprssig@tapr.org
Message-ID: <960327232852_179901271@emout08.mail.aol.com>
Rendered body type: text/plain

```
I have been able to produce rs 232 output from the $170 wx station
from Marine west.  The interface is basic stamp.

I am going to try it on the aprs program after I send Bob some money
to enable me for the wx option.  I will also be looking at the output
from the peet unit this week and comparing notes.

It looks like its gonna work...
```

I can also enable the unit to turn on any other device that
you might want to turn on during a wx event. ALSO, can get it
to dial a number if you should desire...!! ANYTHING ELSE you may want
let me know. Im rewriting the code tomorrow.... Again this suggests that
we can get a wx monitor and multi purpose interface for about $200.00
Additional application ideas are invited. This worked out quite well....

#2   This isnt related to aprs directly....though it concerns my HF tracker.
I ALSO noticed in this marine supply book at ICOM AT 130 tuner.
ITs only 350 bucks...The ICOM tuner for hams is quite a bit more.
Anyone know why the diff in price, and if it will work with a non marine
ICOM radio ?   I might buy one and just try it but had hoped for a
suggestion from you guys...   Now, to figure out the HSP !!

FYI Marine catalogs are FILLED with goodies...
SOLAR CELLS, Wind turbines, batteries, even neat electrical stuff,
(like paint on black electrical tape !)   Its neat to page through it and
look at GPS'S, wx stuff, marine electronics etc...Sometimes it can give
you ideas....For example, Id love to find a remotable flat color monitor I
could hang on the car dash for my aprs journey.. just like those fish
finders or radar screens....

ONWARD !!!
Mike
KD4EMI@AOL.COM

---

776. Re: [APRSSIG:7903] DIGIS!!!! WHERE are they?

From: Peter Markham <pmarkham@sun.lssu.edu>
Date: Wed, 27 Mar 1996 23:46:43 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b12.16.19960328044643.1c2f7dd0@sun.lssu.edu>
Rendered body type: text/plain

One more, Bob.

WA4HEI-5>ID/V:TheNet X1J (UPAPRS) !4558.01N/08629.18W#PHG6460/WIDE-RELAY
digi, Cooks, Mi.

---

777. Digi

From: William Nolle <ke4eer@hiwaay.net>
Date: Wed, 27 Mar 1996 23:09:31 -0800
To: aprssig@tapr.org
Message-ID: <315A3B2B.3D1B@hiwaay.net>
Rendered body type: text/plain

I looked at the DIGIEAST list and don't see the best digi in the South
on the map!.

N4NEQ-3 !/3515.45N/08347.70WPHG5860/Wide-Relay

I can hit this digi from my qth at 158 miles

Bill KE4EER

---

778. Re: [APRSSIG:7921] Re: DIGIS!!!! WHERE are they?

From: ku0g@sprynet.com
Date: Wed, 27 Mar 1996 21:16:16 -0800
To: aprssig@tapr.org
Message-ID: <199603280516.VAA24762@m1.sprynet.com>
Rendered body type: text/plain

Hi Bob..... Here's an update from MO and IA....

CAM 3944.30N/09414.00W#WIDE-RELAY APRS-KC Digipeater (KU0G-4)

KB0SSZ 3948.11N/09445.72W#WIDE-RELAY St Joseph Mo.

N0BKB-1 4040.00N/09443.00W#Pwr5360/WIDE DIGI ONLY - BEDFORD, IOWA

N0BKB-3 4101.91N/09510.11W#Pwr5360/WIDE-RELAY ONLY - 3 NE OF REDBUD

Delete KU0G-4 from your previous listing that shows up in Mid-Missouri. The
site didn't work out! CAM (KU0G-4) replaces that site....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator

EMail: ku0g@sprynet.com

---

779. RE: [APRSSIG:7911] ZDNet News Flash!

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 27 Mar 1996 22:20:29 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1C33.A413EE20@lub08.onramp.net>
Rendered body type: text/plain

Please, keep this SPAM off the mailing lists!

From: ZDI Software Library Temp[SMTP:ZDI_Software_Library_Temp@zd.com]
Sent: Wednesday, March 27, 1996 7:17 AM
To: aprssig@tapr.org
Subject: [APRSSIG:7911] ZDNet News Flash!

Attention all software developers! There is a lot of activity around ZD Net's software libraries this month as we launch two new editions on AOL and the Web, and prepare for our third annual Ziff-Davis Shareware Awards program.

Today, we're excited to announce that the ZD Net Software Library went live on the Web. The URL is:

http://www.zdnet.com/zdi/software/

If you'd like to read the full press release, please visit the following URL:

http://www.zdnet.com/zdi/software/news/prlaunch.html

We invite all shareware authors to visit the site and see what a great resource we are offering to Web users, free of fees or registration requirements.

We expect this move to significantly increase the exposure of the library -- and therefore of your software programs. The ZD Net Software Library is far ahead of other resources on the Web: its the only library that carefully screens, rates and reviews each program, selecting only the best to appear on the site. In addition, usage of the ZD Net Web site increases between 10 and 20 percent monthly. According to our February activity report, ZD Net received 10.4 million page requests and more than 700,000 unique Internet hosts accessed ZD Net. See the press release attached below for more information.

Just last week, we launched a consumer-oriented edition of our shareware library as part of our ZD Net/AOL Edition launch (Keyword: ZDNET). Already, thousands of people have registered for this edition of ZD Net, and the download shareware library is the most heavily used part of this site.

Finally, the deadline for the third annual Ziff-Davis Shareware Awards is quickly approaching. Although submissions are not required this year, you may want to check our library to make sure that the latest versions of your pro grams are available. You can also read about the eligibility requirements at the following URL:

http://www.zdnet.com/zdi/software/zdawards/zdawards.html

We look forward to continuing to expand the reach of the ZD Net software libraries, building on our reputation as provider of only the best available software titles, and we look forward to working with you to obtain your latest and greatest shareware and freeware programs. It is your hard work that makes our software library such a big success.

As always, thank you for allowing us to distribute your programs.

-Scott Arpajian
 Acquisitions Editor, Software Library
 ZD Net
 e-mail: scott_arpajian@zd.com

---

780. Re: [APRSSIG:7872] Re: Whether weather will work

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 28 Mar 1996 05:58:54 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9603280552.A29246-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

The box in question may have analog information in it that can be converted by A/D chips but the formatting of the data is key here. The weather boxes that are expensive obviously have a small processor that

interrogates each sensor, formats the data to the 'string' that we see at
our RS232 cables, and starts all over again.

This is not a trivial conversion unless you are familiar with the 'stamp'
style processors or perhaps with the 8032 boards or processors, etc. If
someone were to do a conversion then perhaps they could make it available
to the rest of the world.

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 25 Mar 1996 KD4EMI@aol.com wrote:

```
> In a message dated 96-03-25 08:34:16 EST, you write:
>
> >
> >Regretfully Mike, you are forgetting the most important part...the analog
> >to digital converter, aka modulator/demodulator, aka modem....the wx
> >boxes are analog devices...they must have hardware designed to talk to a
> >computer....In the case of the Davis,,the A/D converter is in the cable
> >to the computer...part of the reason they won't give up the info....
> >
> >Kevin
> >KD4UYR
> >
> >
> Sorry Kevin, the a/d is the EASY PART...any $40 chip / small board can
> do that.   Its not a ANALOG DEVICE besides, it has a small lcd screen
> just like the other wx monitors.   I have not heard from anyone about this
> particular item so I have to go in reverse.  Can someone tell me what the
> Peet Bros output is like ?  Then I can at least know what to look for
> in this unit and what to do to convert.  That lttle box that peet sells is a
> simple A/D converter.
>
> A/D conversion is now quite easy with not only basic stamps but other
> small chips and is inexpensive.
> MIke
> KD4EMI@AOL.COM
>
>
```

---

781. Re: [APRSSIG:7878] NEC 2000D laptop w/APRS 7.5

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 28 Mar 1996 06:06:11 -0500 (EST)
To: "John R. B. Adams" <jrbadams@interlog.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9603280627.B29246-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Strange. All I can see wrong with the version of APRS, as with other
versions, is the first line of 'inittapr.tnc' file. I have to comment
out the 'parity' line. The APRS program configuration wants to change my
parity, which I have set up before hand anyway.

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 25 Mar 1996, John R. B. Adams wrote:

```
> Hi all ..
>
>         Thought I'd toss one of my current 'problems' into the pot and see
> if any advice is forthcoming!
>
>         A NEC VERSA 2000D joined my toybox recently .. and I've had a lot of
> fun putting it to use here in the shack and elsewhere. The only application
> that I've had REAL difficulty with is getting the laptop to communicate with
> the TNC (TAPR TNC-2) and the APRS7.5 programme. The laptop has only one
> serial port - and as far as I know it is COM1.  It works fine with my USR
> 28.8 modem, my simple SSTV interface, and with the TNC-2 for regular PACKET
> operation, using the PAKET 6.1 terminal prg.
>
>         BUT when I call up APRS .. the initial title screen appears .. and
> the prg moves to the opening map  (ONT17 I believe) and at first attempts to
> talk to the TNC the prg freezes or locks up. Yes, I have gone through config
```

> again, entering COM1   etc. .....
>
> In spite of this .. I have been able to get into the APRS prg in a
> roundabout way. I turn on the laptop and let it go into WINDOWS 3.11 .. I
> then select a 'modem check' prg that is part of the FAX prg group .. run it
> .. that little prg does its thing .. and then announces that I have NO
> modem attached. I exit that modem check prgramme .. exit WINDOWS to Dos
> 6.22 .. cd to APRS dir .. load the APRS .exe file ...   AND   ...
>
> .. THEN the APRS7.5 starts as before but does NOT stall ... runs
> fine. I can exit APRS .. go to paket ... use other prgs on the laptop ..
> return to and load up APRS again .. and prg still runs as it should. BUT if
> I turn off the laptop .. I'm back to a 'no go' situation next time I return
> . unless I repeat that same roundabout routine.
>
> Any ideas that might help me out?
>
> 73, John.
>
> John R. B. Adams VE3ASX
>
> 120 Raglan Avenue - #907
> Toronto, ON, Canada
> M6C   2L4
>
> (416) 653-9842
> jrbadams@interlog.com
>
>
>
>

---

782. Ooops

From: Larry Griffin <largriff@onramp.net>
Date: Thu, 28 Mar 1996 07:22:21 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1C77.556CCBE0@lub08.onramp.net>
Rendered body type: text/plain

My apologies to the SIG! I had intended to respond to ZD about their
spamming of this SIG... pushed the wrong button and ended up replying
back to the SIG.

---

783. Mapmaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 08:07:52 -0800
To: aprssig@tapr.org
Message-ID: <315AB958.550C@hiwaay.net>
Rendered body type: text/plain

Bob and other mapmakers using MK100K2A.EXE i run into something strange
making a grid of maps for the Nashville area. If i enter a filename of
TNNASHDE it will crash everytime, yet if i enter a filename of TNNASH it
makes the map everytime. It looks to me like in this version you cannot
use an 8 character file name (Just the other way from the previous
version where you had to use an 8 character filename). I wonder if every
one is having this same problem. By the way i also attempted to use a
format like TNNASH01 and it crashed with that also. The result is that
if i use a 6 character filname it's ok. What i ended up doing is to make
every map with the name of TNNASH and then renaming it to my 8 character
filename.

Bill KE4EER

---

784. Re: [APRSSIG:7923] Re: ZDNet News Flash!

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Thu, 28 Mar 1996 05:49:28 -0500
To: aprssig@tapr.org
Message-ID: <315A6EB8.4F5A@dgp.toronto.edu>
Rendered body type: text/plain

Arte Booten wrote:

> >From: ZDI Software Library Temp
> > <ZDI_Software_Library_Temp@zd.com>

> Can anybody tell me what the heck all that has to do with APRS
> and what it's doing here on the SIG? This is the second such

```
> message I've seen in the last month or so...

Bob B's APRS software is shareware.
```

---

785. Mapmaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 08:51:36 -0800
To: aprssig@tapr.org
Message-ID: <315AC398.7C18@hiwaay.net>
Rendered body type: text/plain

```
Bob mapmaking is getting harder all the time. I was jsut using
MAPFIX18.EXE and when i load a map that has my grid on it and then
attempt to do a ALT-O it locks up my PC everytime. I even booted my
system from a system disk and it still locks up, so it's not a memory
problem. I may go back to an older version if i can still find  one.

Bill KE4EER
```

---

786. TORCH RUN *test* underway

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 10:38:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328103123.25371A-100000@greatlakes>
Rendered body type: text/plain

```
Forget the requirement for having HAMS ride the trains.  I just loaded up
APRSdr on my HF station, and for the next few days, it will DR the TORCH
along the route at TEN times actual speed (100 MPH).  It will be beaconed
at the nominal 1 minute rate of the actual torch.  We can use APRSdr during
the actual event to track the *SKED* as opposed to the *TORCH*.  So when
the TORCH is not making it, there will be an OBJECT to see...

Also, we need a PR volunteer.  Once we get the GO, we will need someone
to put out announcements to all Amateur Radio channels...

At 10 times speed, this test will still take 8 days!
The full TORCH run is from 27 April to 19 July...
```

---

787. Re: [APRSSIG:7937] Mapmaking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 10:52:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328105216.25371F-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 28 Mar 1996, William Nolle wrote:

> Bob mapmaking is getting harder all the time. I was jsut using
> MAPFIX18.EXE and when i load a map that has my grid on it and then
> attempt to do a ALT-O it locks up my PC everytime. I even booted my

WB4APR REPLY COMMENT:  Wow..  We are up to MAPFIX23 now....
```

---

788. New Maps

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 11:17:17 -0800
To: aprssig@tapr.org
Message-ID: <315AE5BD.696B@hiwaay.net>
Rendered body type: text/plain

```
I have just posted a file called TNNASH.ZIP and another called TNNASH.TXT
these are detailed maps of Nashville, Tennessee that some users in
Nashville requested that i make. I know there's a Tennessee map
coordinator and i don't want to infringe on his teritory but he is very
busy and just wanted to help out. (Here that John Hi). By the way i
didn't say but they are posted on TAPR of course.

Bill KE4EER
```

---

789. Ziff-Davis SPAM Idea!

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 28 Mar 1996 13:08:34
To: APRSSIG@tapr.org
Message-ID: <199603281808.NAA03426@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

I'm sure many, if not most, of you are bothered by the recent SPAMming of the SIG by Ziff-Davis. What I've done is to send a reply back to them containing their entire message, then typed out the following line:

SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM

then, by using the Edit - Copy command, I replicated this and pasted another copy directly below this and repeated this process to the point where the original message is followed by 512 lines that say nothing but

SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM SPAM

I followed this with NOTHING! I attached NO signature! IMHO, if everybody on the sig spent a few minutes doing this and sending it to Ziff-Davis, this might just slow down their E-mail a bit. NASTY!!! Five hundred and twelve lines of the same stuff they're sending out. Multiplied by the number of readers of this SIG. Think about it! 73 de

Arte Booten <N2ZRC@gnn.com> or <N2ZRC@aol.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

---

790. Re: [APRSSIG:7939] Re: Mapmaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 12:19:39 -0800
To: aprssig@tapr.org
Message-ID: <315AF45B.1B72@hiwaay.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Thu, 28 Mar 1996, William Nolle wrote:
>
> > Bob mapmaking is getting harder all the time. I was jsut using
> > MAPFIX18.EXE and when i load a map that has my grid on it and then
> > attempt to do a ALT-O it locks up my PC everytime. I even booted my
>
> WB4APR REPLY COMMENT: Wow.. We are up to MAPFIX23 now....

Yes i didn't know that Bob. I downloaded MAPFIX22 and it does the same thing!
By the way didn't see MAPFIX23 on tapr, maybe i should look better next time.
I don't realy care for the new keystrokes tough, just a couple of more steps to do.

Bill KE4EER

---

791. Maps

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 13:14:52 -0800
To: aprssig@tapr.org
Message-ID: <315B014C.18A@hiwaay.net>
Rendered body type: text/plain

I changed the Nashville grid of maps from 35 to 42 maps, giving it a little more coverage to the South of Nashville. It's till the same filename as i posted in a message before. Make sure you read the text file by the same name. TNNASH.ZIP and TNNASH.TXT. Enjoy!.

Bill KE4EER

---

792. Olympic Torch tracking questions

From: Thomas Griffin - x77792 <griff@SSD.intel.com>
Date: Thu, 28 Mar 1996 12:53:05 -0800 (PST)
To: aprssig@tapr.org (APRS SIG)
Cc: griff@SSD.intel.com (Thomas Griffin - x77792)
Message-ID: <9603282053.AA08081@bungee.SSD.intel.com>
Rendered body type: text/plain

Bob,

Here in Portland, OR we currently have no APRS activity. I need all the information I can get in order to have any hope of supporting the APRS activities with the Olympic torch.

I have some questions regarding the Olympic torch that I haven't seen answered.

- Where can I find out the exact route of the torch (which roads)? We currently have zero APRS digis and I need to put what resources I can come up with exactly were they are needed. I would like to test the route with whatever APRS network we come up with BEFORE the real torch comes to town.

- What frequency will the torch tracker be using (145.790?)? Can the freq. be changed as the torch moves from town to town?

- Will there be a ham in the tracker vehicle? If so, I assume he/she will be able to communicate with the local hams via the local repeaters? Do we (the locals) need to provide this ham?

- Can the locals provide a recommended digipeater path for each town in the torch's path?

- You said:

```
    The Torch TNC will beacon via 4 paths something like this:
        WIDE,GATE,GATE,WIDE
        RELAY,WIDE,GATE,GATE,WIDE
        RELAY,WIDE,WIDE,GATE,GATE,WIDE
        WEBER-1   ?
```

  How will the path be selected? The layout of my local APRS digi net needs to be coordinated with the digi path (don't forget, we don't currently have any APRS digis in Portland, OR). My goal is to get a mobile RELAY, a WIDE and a GATE running by the time the torch gets here.

73, Thomas (Griff) Griffin, N7ZKL
Beaverton, Oregon, USA
Internet: n7zkl@amsat.org
Packet: n7zkl@k7iqi.or.usa.na

---

793. APRS/GPS

From: Jimrse@aol.com
Date: Thu, 28 Mar 1996 16:19:03 -0500
To: aprssig@tapr.org
Message-ID: <960328161902_457270400@emout05.mail.aol.com>
Rendered body type: text/plain

APRS Special Interest Group

I downloaded the program and my validation number is 12976. I find the program very
interesting but have several problems. I also subscribed to the Wx program but don't know what that involves.
I have looked at most of the txt files but am unable to see the demonstrations. I seem to have the files but don't know how to use the Files-Load command. As I do not know anyone having the program it is a hide and seek problem.
My main concern is that I plan to do some traveling this summer in our Motor Home and am thinking of setting up the system in it. I would also like to use the GPS system.
I am trying to determine what exactly I need to achieve all this. I know for a start I will need a computer (12v or battery operated), but beyond that it gets confusing as some of the equipment can be combined such as the Pico Packet with GPS receiver by PacComm. The MFJ 8621.2 meter Transceiver, or a full TNC but which one?
I read an interesting article in The Good Sam magazine "Highways" It was about the use of a GPS system. They referred to the use of software DeLorme Mapping "Map Expert" or GPS Link II on a CD-ROM . How would all this fit in with APRS?
I possibly would complicate the situation further by wanting to use 2m for other than packet and also TCP/IP. I believe APRS uses AX25 and the TNC would have to have the KISS mode for TCP/IP .
At this point it is a case of costing out the equipment. I could put the equipment I now have in the Motor Home but I am sure my wife would complain about the space I would be using
My TCP/IP address is 44.56.4.47 AX25 N1FIN@WA1PHY.FN42JM.MA.USA.NOAM.

Hope someone can give some help.

```
            Jim Rose (N1FIN)
ps  I got interested in APRS first in the book 'Practical Packet Radio' by
Stan Horzepa.
```

---

794. Re: [APRSSIG:7925] TORCH PLANS!

From: ku0g@sprynet.com
Date: Thu, 28 Mar 1996 13:21:22 -0800
To: aprssig@tapr.org
Message-ID: <199603282121.NAA23759@m1.sprynet.com>
Rendered body type: text/plain

```
I can handle both mobile digi and train riding while the torch is here in the
midwest, Bob.  Just need to know where to be and when.  I'll be happy to look
into the special callsign business, too, but I think we're probably too late
given the FCC's track record in getting licenses issued at this point.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

795. Re: [APRSSIG:7927] Weather breakthrough

From: ku0g@sprynet.com
Date: Thu, 28 Mar 1996 13:23:45 -0800
To: aprssig@tapr.org
Message-ID: <199603282123.NAA24232@m1.sprynet.com>
Rendered body type: text/plain

```
How about posting some 800 numbers for those of us interested in getting some of
those marine products catalogs?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

796. Re: [APRSSIG:7941] Ziff-Davis SPAM Idea!

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 28 Mar 96 16:28:33 EST
To: n2zrc@gnn.com
Cc: aprssig@tapr.org
Message-ID: <CMM.0.90.4.828048513.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
Arte,

Please don't advocate doing this.  It was bad enough you lowered
yourself to the level of a mail-bomber already.  I suggest you send an
apology to the site's system administrator.

Spamming happens.  Get on with life.  Turn the dial.  All you are
doing is screwing the legitmate users of the network out of bandwidth
and wasting some poor system administrator's time dealing with the
garbage caused by his user.  Sending mail bombs like this is as bad if
not worse an attack than some misguided advertising and, on the system
my group runs (with 30,000 users), is grounds for losing your account
or worse.  Many system operators share this view, which may include
those of GNN.  Might I suggest:
  a. Ignore it.  You can be sure hundreds of people have already
     complained to the user's system administrator.
  b. If you feel you can't ignore it, contact your system
     administrator and ask her to contact the spammer's sysadmin.
  c. If it really makes you mad, write a reply nastygram, show it
     to a friend or co-worker, and then delete it without sending it.

Please followup to me in private (or on 06 tonite:-).  I'm CCing the
list only this once because yours is about the fifth piece of noise
I've seen on this group talking about ZD spam instead of APRS.

For that, I apologize for adding to the noise level.

73 de Alan N2YGK
```

---

797. MOTOROLA.exe

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 16:48:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328164501.3036A-100000@greatlakes>

Rendered body type: text/plain

```
At the request of Ralph Fowler, our Atlanta guru, I added a command to
toggle the HSP switch from within MOTOROLA.bas so you can command your
motorola GPS cards thru the APRS HSP adapter without having to move
cables around.  ALso I compiled it to MOTOROLA.EXE.  Only the bas version
will be in APRS distro, cuz the compiled version takes 46K instead of 7k.

Both files are in MOTOROLA.ZIP on tapr sig.

I dont have a motorola and someone walked off with my HSP switch at the
last demo, so these changes are untested....
```

---

798. SA Off? Details tomorrow

From: Will Flor <willf@rrgroup.com>
Date: Thu, 28 Mar 96 16:49:29 -0800
To: aprssig@tapr.org
Message-ID: <9603282250.AA14036@inc.net>
Rendered body type: text/plain

```
According to an article in today's (3/28) Wall Street Journal ("Clinton
Set To Ease Curbs On Satellites", p. A4,) Vice President Gore will
present the details tomorrow, but SA *will* be disabled soon.

The text of the article has been posted to the Usenet news group
sci.geo.satellite-nav, where many skeptical GPS users don't believe
it, but I found the article in my copy - it's for real.

73 de Will KB9JTT
```

---

799. Re: [APRSSIG:7947] Re: Weather breakthrough

From: KD4EMI@aol.com
Date: Thu, 28 Mar 1996 18:05:04 -0500
To: aprssig@tapr.org
Message-ID: <960328180503_364699567@emout06.mail.aol.com>
Rendered body type: text/plain

```
The # to Marine west is 800 538 0775

Once I get the whole thing working I will announce how to do it
step by step and offer the basic stamp preprogrammed at cost
plus shipping to anyone who sends me one.   I gotta get
wx enabled first...


I will be working on the wx station next week, this week is HF and
tuner on the truck...(Did we get teh icon with the dog in the back yet ?)

Mike
KD4EMI@AOL.COM
```

---

800. Maps needed

From: Kevin Kelly <kkelly@radix.net>
Date: Wed, 27 Mar 96 18:10:29 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199603282307.SAA21386@news1.radix.net>
Rendered body type: text/plain

```
-- [ From: Kevin Kelly * EMC.Ver #2.5.03 ] --

Greetings SIG members:

I am looking for assistance from the map makers in the SIG.  I would like to
have the southern Maryland details enhanced.  Not having a clue on how to
make maps, I need your help.  Specifcally, I would like to enhance the
Calvert and St. Mary's county maps.  I f you can help me out please drop me
a line at my private Email address so we can discuss the details.

Thank you.

73,
Kevin Kelly/N6QAB
kkelly@radix.net
```

---

801. Re: [APRSSIG:7949] MOTOROLA.exe

From: rwf <rwf@mindspring.com>
Date: Thu, 28 Mar 1996 18:42:49 -0500
To: aprssig@tapr.org

Message-ID: <2.2.16.19960328184416.35ef90ec@mindspring.com>
Rendered body type: text/plain

```
At 04:01 PM 3/28/96 -0600, you wrote:
>At the request of Ralph Fowler, our Atlanta guru, I added a command to
>toggle the HSP switch from within MOTOROLA.bas.....  <snip>


thankyouthankyouthankyou

I will test and let you know
```

---

802. Re: [APRSSIG:7944] Olympic Torch tracking questions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 18:44:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328183953.3036B-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 28 Mar 1996, Thomas Griffin - x77792 wrote:

> I have some questions regarding the Olympic torch that I haven't seen
> answered.
>
> - Where can I find out the exact route of the torch (which roads)?
ANSWER: No details yet.  Best to find out LOCALLY... Contact your local
CocaCola company.  But dont make a fuss if they dont know, hi hi

> - What frequency will the torch tracker be using (145.790?)?
ANSWER:  Most likely.  Changing it all the time would be a pain...

> - Will there be a ham in the tracker vehicle?  If so, I assume he/she
>   will be able to communicate with the local hams via the local repeaters?
ANSWER:  Dont count on anything....

> - Can the locals provide a recommended digipeater path for each town
>   in the torch's path?  You had said:
>
>     The Torch TNC will beacon via 4 paths something like this:
>         WIDE,GATE,GATE,WIDE
>         RELAY,WIDE,GATE,GATE,WIDE
>         RELAY,WIDE,WIDE,GATE,GATE,WIDE
>         WEBER-1   ?
>
>   How will the path be selected?  The layout of my local APRS digi net
>   needs to be coordinated with the digi path (don't forget, we don't
>   currently have any APRS digis in Portland, OR).  My goal is to get a
>   mobile RELAY, a WIDE and a GATE running by the time the torch gets here.

WB4APR REPLY COMMENT:  The TNC will have 4 pre-programmed paths.
Hopefully we will pre-load it with the best generic paths.  You should
plan on making your BIG DIGI's be WIDES, and small gap-fillers be RELAYS.
```

---

803. Re: [APRSSIG:7945] APRS/GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 18:51:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328184602.3036C-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 28 Mar 1996 Jimrse@aol.com wrote:

> demonstrations? I seem to have the files but don't know how to use the
> Files-Load command.
ANSWER:  TYPE THE LETTERS F then L then the name of the file...  Also use
the FILES-REPLAY command...

> I am trying to determine what exactly I need to achieve all this.
ANSWER:  A computer, a TNC and a radio.  GPS is a very nice addition...

> A book  referred to the use of software DeLorme "Map Expert" or
GPS Link II on a CD-ROM . How would all this fit in > with APRS?
ANSWER:  More hardware (A CD drive), it would give you much better maps,
COST more, and NOT give you any RADIO interface to see others...

> APRS uses AX25 and the TNC would have to have KISS mode for TCP/IP .
ANSWER:  All TNC's i believe support KISS mode

de WB4APR
```

804. Re: [APRSSIG:7942] Re: Mapmaking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 18:55:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328185254.3036E-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 28 Mar 1996, William Nolle wrote:

> Yes i didn't know that Bob. I downloaded MAPFIX22 and it does the same thing!
> By the way didn't see MAPFIX23 on tapr, maybe i should look better next time.
> I don't realy care for the new keystrokes though...

WB4APR REPLY COMMENT:  MAPFIX23 I thought was in all APRS75a upgrades...
Get used to the new commands, hi hi, I dont even remember what ALT-O did
anymore...  IF that is the OVERLAY command, then I have noticed it will
crash if there is somthing screwey in the MAP file...  Also, you cant
overlay a compressed map...
```

---

805. Re: Mail Spam (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 19:02:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328185853.3036F-100000@greatlakes>
Rendered body type: text/plain

```
There was some mail SPAM that hit the AMSAT-bb (I think it hit here too)..
Anyway, you will notice from the following message how many of the AMSAT
members view APRS.  Don't go pick fights... you can't win... Just have to
wait for them to "see the light".. hi hi

---------- Forwarded message ----------
Date: Thu, 28 Mar 1996 18:10:37 GMT
From: Richard W L Limebear <Richard@g3rwl.demon.co.uk>
To: amsat-bb@amsat.org
Subject: Re: Mail Spam

Almost as much a pain as all the APRS hype

Richard W L Limebear G3RWL
g3rwl@amsat.org
```

---

806. Re: [APRSSIG:7952] Maps needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 19:03:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328190308.3036G-100000@greatlakes>
Rendered body type: text/plain

```
On Thu, 28 Mar 1996, Kevin Kelly wrote:

> I am looking for assistance from the map makers in the SIG.  I would like to
> have the southern Maryland details enhanced.  Not having a clue on how to
> make maps, I need your help.  Specifcally, I would like to enhance the

WB4APR REPLY COMMENT:  My own back yard!  Ill do it....
```

---

807. Re: [APRSSIG:7898] Re: ?? Food in San Diego

From: geh@aip.org (gordon_hardman)
Date: Thu, 28 Mar 96 19:34:43 EST
To: aprssig@tapr.org
Message-ID: <9603290034.AA14685@aip.org>
Rendered body type: text/plain

```
I am currently staying at the Hyatt Islandia (32:45.69N,117:13.54W)
and there is a fairly decent chinese place about 0.5 mi south of here,
right on the waterfront overlooking Quivira Bay.
Gordon Hardman
<geh@aip.org>
```

---

808. Map Making Problem?

From: rwf <rwf@mindspring.com>
Date: Thu, 28 Mar 1996 20:44:02 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960328204528.0d174328@mindspring.com>
Rendered body type: text/plain

```
I was making some 100k maps for a new station up in Anderson, SC and ran
into this problem with the latest version of the program that makes 1, 4, or
9 maps.    When I chose 4 or 9 maps and gave it a center point, I was
expecting the maps to overlap a bit.  I told it a 1 mile radius and it did
make the maps a bit larger  (1.05 miles, I think).

I thought I should really get a nice overlap, but instead I got a pretty big
gap between each map.

Anyone get this to work properly, or am I expecting or doing the wrong thing?

Thanks
Ralph
```

---

809. Re: [APRSSIG:7956] Re: Mapmaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 20:24:08 -0800
To: aprssig@tapr.org
Message-ID: <315B65E8.3C91@hiwaay.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Thu, 28 Mar 1996, William Nolle wrote:
>
> > Yes i didn't know that Bob. I downloaded MAPFIX22 and it does the same thing!
> > By the way didn't see MAPFIX23 on tapr, maybe i should look better next time.
> > I don't realy care for the new keystrokes though...
>
> WB4APR REPLY COMMENT:  MAPFIX23 I thought was in all APRS75a upgrades...
> Get used to the new commands, hi hi, I dont even remember what ALT-O did
> anymore...  IF that is the OVERLAY command, then I have noticed it will
> crash if there is somthing screwey in the MAP file...  Also, you cant
> overlay a compressed map...ANSWER: No i looked and ddidn't see MAPFIX23 in the mail APRS directory.
        And the overlay crashes on every map, and i have never compressed
        a map. O well will keep plugging away. Still don't like the the
        new commands and will stick with MAPFIX18 thank you.

Bill KE4EER
```

---

810. Re: [APRSSIG:7959] Re: ?? Food in San Diego

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 20:25:59 -0800
To: aprssig@tapr.org
Message-ID: <315B6657.53F3@hiwaay.net>
Rendered body type: text/plain

```
gordon_hardman wrote:
>
> I am currently staying at the Hyatt Islandia (32:45.69N,117:13.54W)
> and there is a fairly decent chinese place about 0.5 mi south of here,
> right on the waterfront overlooking Quivira Bay.
> Gordon Hardman
> <geh@aip.org>

Who cares but you!

Bill KE4EER
```

---

811. Re: [APRSSIG:7950] SA Off? Details tomorrow

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 28 Mar 96 21:58:11 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.828068291.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
This info was announce somewhere else a few weeks ago.  I think it was
the NY Times.  Besides turning off SA, US Govt will not officially support
GPS as a civilian service which opens the ways for commerical aviation
and other users to count on it.  Prior to this, it was officially only a
military pgoram with no guarantee that it would be maintained for civilian
use. 73
/a
```

---

812. Re: [APRSSIG:7960] Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 21:25:51 -0800
To: aprssig@tapr.org

Message-ID: <315B745F.589D@hiwaay.net>
Rendered body type: text/plain

```
rwf wrote:
>
> I was making some 100k maps for a new station up in Anderson, SC and ran
> into this problem with the latest version of the program that makes 1, 4, or
> 9 maps.    When I chose 4 or 9 maps and gave it a center point, I was
> expecting the maps to overlap a bit.  I told it a 1 mile radius and it did
> make the maps a bit larger  (1.05 miles, I think).
>
> I thought I should really get a nice overlap, but instead I got a pretty big
> gap between each map.
>
> Anyone get this to work properly, or am I expecting or doing the wrong thing?
>
> Thanks
> Ralph

-----------------
Ralph i don't think your doing the wrong thing, there's no way to not have a gap
between maps in APRS Dos. At least at first glance you think there's a gap but if
you move the cursor along as if doing GPS tracking you will see that when the
cursor leaves one map it will continue on the next map without missing anything.
You are doing it right if it's going trough the whole 9 map grid without
crashing. just make sure you don't use 8 character filenames at least i have a
problem doing that with the version MK100K2A. I never use the automatic grid
ampping, i still find making a grid on a larger map gives you more control over
the complete map grid. Generally what i will do in a heavy populated area is make
1 mile maps wich turn out as 1.05 range, but when i list them in my maplist i up
the range to 1.9 or sometimes 2 mile range this seams to work out better for me.

Bill KE4EER
```

---

813. Re: [APRSSIG:7903] DIGIS!!!! WHERE are they?

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Thu, 28 Mar 1996 21:28:28 -0600
To: aprssig@tapr.org
Message-ID: <199603290327.VAA11276@tapr.org>
Rendered body type: text/plain

```
At 11:47 PM 96-3-26 -0600, you wrote:
>I have been begging and pleading to get people to REPLAY DIGIEAST.bk and
>DIGIWEST.BK and send in any missing digipeaters.  This is getting serious
>with the Olympic TOrch run less than a month away.
>
>I compared the TORCH run to these lists and we only have 40% coverage.
>BUT THERE ARE OBVIOUS MISSING DIGIPEATERS IN THESE FILES.  I Know there
>is activity in these areas:
>
>Portland, Seattle, COlorado, Utah, Arizona Dallas, IOWA
>Michigan, Wisconsin, New England!
>
>But there are no digipeaters shown for any of these areas..
>PLEASE SEND IN YOUR DIGIPEATERS....
>
>But Please send in ONLY what needs to be added, dont make me have to
>figure out what is new and what is old....
>

Here's What I have for Iowa and it includes 1 site in wisconsin. I didn't
weed out the Illinois sites for you Bob (i'm sorry) I can also upload it to
TAPR (with the Illinois stuff out). Most all of the Iowa sites run WX but
have good coverage and the only HF gate is WB0BBM. K0BGP has the best
elevation @ 1009' above sea level. I also have a commericial site that loves
me and might negotiate tower space on a temp basis.
Sorry I took so long (198 messages were waiting for me) I've been sort of
busy. I sent this sig wide cause I thought some others might be interested
in were the darn APRS sites a hidden in the corn.

c, 41.75716 , 91.54722 , 128
l,JEFF      042139 @042139/
l,JEFF      262141 @262141/APRS 7.5 on line.
l,W0BXR-8   251910 W0BXR-8/R WIDE/D RELAY/N
l,NM0B-2    251911 NM0B-2/R RELAY/D NM0B-1/B
l,W0OMV     281941 e-mail: billh@netins.net
l,W0BXR-2   251913 W0BXR-2/R RELAY/D NONE/B
l,KB0CHL    281633 @202022/APRS 7.5 on line.
l,W0BXR     281920 @241357/7.2b Davenport Radio Amateur Club (club station)
l,NM0B      282017
```

```
l,KF0Z      251921 @251918/APRS 7.4f on line.
l,WB0BBM    282016 @071927/7.5 Bill in Long Grove, Ia. @w0bxr #eia.ia.usa.na.
l,K0BGP     252323 @251127/APRS 7.3d on line.
l,KF0Z      251503 @251449/APRS 7.3d on line.
p,NM0B      282018
@282018/4156.45N/09142.42W_075/000/T041/C000/P000/B012/H009/U2r
p,W0OMV     282010 @290211z4132.73N/09032.71W_000/000/T000/R00/P000/B000/
Manualse
p,W0BXR-8   282012 !******/4127.50N/09105.41W# Wide-Relay Muscatine Wide
Area Digi
p,W0BXR     282009 @282009/4131.58N/09034.40W_067/000/T042/R000/U-II(auto)auto)
p,NM0B-2    251916 @260117z4156.91N/09142.72WrNewUser
p,KF0Z      251923 @251921/4155.80N/09125.05W/315/ser Jan-Mt. Vernon, IA
p,TORCHdr   281623 *282222z3552.01N/11518.89W<207/100/Test run a 10xspd
<ADO>
p,WB0BBM    282016 @280216z4143.49N/09029.37W_045/000/T038/R000/P000/U-II(auto)
p,WB0BBM    251754 @251753/4143.28N/09029.19W_315/000/T037/R000/P000/U-II(auto)
p,K0BGP     252323 @260016z4207.18N/09151.28W/PHG6160/K0BGP - SHELLSBURG,IA
p,KB0CHL    281958 /281835/4125.74N/09102.74W-WIDE (manual)
p,N9XHP     301010 @301113/4155.80N/08742.36W8Welcome 2 APRS Net!Bigger &
Better!!
p,KB8PFF    301034 @301233/4103.48N/08338.70W#PHG7370/Findlay WIDE Area APRS
Digi
p,KE4TCO-10 301012 !******/3845.24N/08430.33W#"PWR5270/WIDE-RELAY APRS DIGI
BUTLER,"
p,N0BKB-1   300945 !******/4040.00N/09443.00W#"Pwr5360/WIDE DIGI ONLY -
BEDFORD, IO"
p,N0GGU-1   301030 !******/4011.30N/09509.00W#Pwr6350/WIDE APRS DIGI ONLY -
WEST O
p,N9LEM     300831 @300930/4152.90N/08812.27W#PHG7230/WIDE (manual) m Digi
Station
p,N9RER-15  300904 !******/4153.04N/08738.01W#Pwr5696/Wide Chicago area APRS
Digi
p,WA9CJN-15 300837 !******/4200.90N/08900.10W#Pwr3260/WIDE-RELAY..KARC APRS
WIDE D
p,WJ8T-2    301000 !******/4258.10N/08539.50W#pwr5670/WIDE-RELAY ... Wide
from Dow
p,WJ8T-3    300928 !******/4258.56N/08537.54W&pwr 5670/...EOC at Kent
County! [TNC
p,KA0RDE    301040 @020020/4040.38N/09448.21W_202/021/T073/R1.1/Ultmtr-II(auto)
p,KB8IFX    300947 @291047/3911.70N/08412.77W_247/000/T074/U-II(auto)
p,KB8PVI    301021 /262044/4006.31N/08316.12W_225/000/T059/R000/U-II(auto)
p,KD1E      300919 @301106/4237.39N/08340.76W_112/002/T071/R000/U-II(auto)
p,KE4ROC    301032 @301129/3440.31N/08633.13W_157/002/T076/R000/U-II(auto)
p,KF0ZH     300835 @301430z4447.06N/09329.48W_225/008/T064/R00/U-II(auto)
p,KG0DW     300941 @301042/4136.45N/09345.16W_270/004/T071/R000/P010/U-II(auto)
p,KG8PZ     300919 @301120/4302.99N/08532.03W_225/009/T072/R000/U-II(auto)
p,KU0G-2    301023 !******/3913.31N/09430.40W_KC APRS WX (U-II Remote)
{Parkville
p,N0AN      300859 @291510z4158.20N/09333.59W_225/020/T071/R000/U-II(auto)
p,N0BKB     300920 @301009/4120.57N/09419.03W_225/011/T069/R000/U-II(auto)
p,N0GGU     300816 @300910/4009.00N/09502.49W_270/005/T072/R000/P159/U-II(auto)
p,N8OCQ     301022 @301225/3955.09N/08305.63W_225/004/T069/R000/U-II(auto)
p,N9QGS     300934 @301538z4201.15N/08809.65W_270/011/T075/R00/P000/G021/
U-II(aut
p,N9VJQ     300842 @300940/4155.29N/08845.04W_247/000/T066/R000/U-II(auto)
p,ND5S      300928 @301115/4242.20N/08423.47W_202/004/T068/R000/U-II(auto)
p,W0BXR     300816 @300912/4131.58N/09034.40W_112/001/T073/R000/P008/U-II(auto)
p,WA1LRL    301014 @301213/4232.97N/08343.63W_202/004/T072/R000/U-II(auto)
p,WB8VJI    301004 @301204/4252.91N/08413.49W_202/005/T076/R000/U-II(auto)
p,WJ9H      301001 @301043/4301.38N/08929.95W_200/008/T070/WX rept
a,W0BXR-8   251910 W0BXR-8/R WIDE/D RELAY/N
a,NM0B-2    251911 NM0B-2/R RELAY/D NM0B-1/B
a,W0OMV     251912 @260112/T022/R00/P000/B000/ Manual
a,W0BXR-2   251913 W0BXR-2/R RELAY/D NONE/B
a,KB0CHL    251914 @202022/APRS 7.5 on line.
a,W0BXR     251915 @251915/T018/R000/P004/U-II(auto)
a,NM0B      251916
a,KF0Z      251921 @251918/APRS 7.4f on line.
a,W0BXR     251923 @241357/7.2b Davenport Radio Amateur Club (club station)
a,WB0BBM    281403 @271402/T045/R000/P000/U-II(auto)
a,WB0BBM    281433 @071927/7.5 Bill in Long Grove, Ia. @w0bxr #eia.ia.usa.na.
a,W0OMV     281541 e-mail: billh@netins.net
r,
h,TIME      , 19  13  14  15  16  17  18  19  20 , 999
h,W0BXR-8   , 5  0  15  10  12  18  17  23  8 , 999
h,NM0B-2    , 3  0  0  0  0  0  0  0  0 , 999
h,W0OMV     , 1  0  0  8  7  5  5  8  3 , 999
h,W0BXR-2   , 4  0  0  2  1  2  2  0  1 , 999
```

```
h,KB0CHL    , 1  0  0  0  6  0  6  3  0 , 999
h,W0BXR     , 2  0  12  11  2  12  5  15  4 , 999
h,NM0B      , 2  0  12  12  12  12  12  12  4 , 999
h,KF0Z      , 5  0  0  0  0  0  0  0  0 , 999
h,WB0BBM    , 0  0  14  12  6  10  26  36  25 , 999
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

814. Re: [APRSSIG:7960] Map Making Problem?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 23:13:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328230123.4863A-100000@greatlakes>
Rendered body type: text/plain

On Thu, 28 Mar 1996, rwf wrote:

> I was making some 100k maps for a new station up in Anderson, SC and ran
> into this problem with the latest version of the program that makes 1, 4, or
> 9 maps.   When I chose 4 or 9 maps and gave it a center point, I was
> expecting the maps to overlap a bit.

WB4APR REPLY COMMENT: No overlap at all. BUT you should consider these
maps to ONLY be a SOURCE of data for your NEXT steps:

1) NEVER use the .MAP results, they are useless. Use the .DAT maps.
Load them into MAPFIX23 and do a TASKS-SCRUNCH at 1.2. THen SAVE them
as .MAP

2) Look at the 9 maps. Most will be much less than 3000 points. Based on
their size, estimate how much larger you can make the 4 corners maps and
still be under 3K. CHANGE-CENTER inward toward the central map, CHANGE
RANGE to your best guess, then TASK-IMPORT the points from adjacent maps.

3) CHANGE-RANGE on the central map to make it overlap the other 9 then
TASK-IMPORT to fill it in.. You may be able to convert your 9 maps into 4
bigger corner maps and one central overlapping map.

4) THis is a theoretical example. Usually one area is very dense and
cant be made much bigger, while many others can... So you just
TASK-IMPORT until you get the overlaps you want.

5) Due to the 5% overlap and truncation errors, yuou will need to zoom in
and eliminate duplication where ever maps join....

815. Re: [APRSSIG:7959] Re: ?? Food in San Diego

From: ku0g@sprynet.com
Date: Thu, 28 Mar 1996 20:12:18 -0800
To: aprssig@tapr.org
Message-ID: <199603290412.UAA27847@m1.sprynet.com>
Rendered body type: text/plain

On Thu, 28 Mar 1996, geh@aip.org (gordon_hardman) wrote:
>I am currently staying at the Hyatt Islandia (32:45.69N,117:13.54W)
>and there is a fairly decent chinese place about 0.5 mi south of here,
>right on the waterfront overlooking Quivira Bay.
>Gordon Hardman
><geh@aip.org>
>
Pick me up an order of Shrimp w/Lobster Sauce, Won-Ton soup, eggroll and hot
tea....
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

816. Re: [APRSSIG:7961] Re: Mapmaking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 23:16:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328231532.4863B-100000@greatlakes>
Rendered body type: text/plain

```
I just remembered that ALT-O is trying to open the DIGITIZER COM port,
not OVERLAY.  It will crash if you dont have a COMM2
```

---

817. Re: [APRSSIG:7963] Re: SA Off? Details tomorrow

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 28 Mar 96 23:28:00 EST
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <CMM.0.90.4.828073680.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
Geez, I can't spell. Change "not" to "noW"!
```

---

818. Re: [APRSSIG:7929] Digi

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@babbage.csee.usf.edu>
Date: Thu, 28 Mar 1996 23:50:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328234844.10255A-100000@babbage>
Rendered body type: text/plain

```
On Wed, 27 Mar 1996, William Nolle wrote:

> I looked at the DIGIEAST list and don't see the best digi in the South
> on the map!.
>
> N4NEQ-3 !/3515.45N/08347.70WPHG5860/Wide-Relay
>
> I can hit this digi from my qth at 158 miles

We've seen this direct on VHF in the Tampa Bay area before too...
incredible   N4NEQ-3 is the only APRS station via VHF that I have seen
outside of Florida more than once.  (ie no gateways involved.)

 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /               Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

---

819. Re: [APRSSIG:7925] TORCH PLANS!

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@babbage.csee.usf.edu>
Date: Thu, 28 Mar 1996 23:57:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328235506.10255C-100000@babbage>
Rendered body type: text/plain

```
On Wed, 27 Mar 1996, Bob Bruninga wrote:

> 2)  We need a CALLSIGN!  Does anyone have the time to get us a special
>     event callsign?

The FCC has provided for this but I don't think they have started issuing
of special event callsigns.  Maybe the best idea is to apply for a club
callsign ie "Torch Run Tracking Amateurs ..." etc.  Or something less
specific?  Turn around on club calls is less than 3 weeks typically.

73

 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /               Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

---

820. Wayne Green & Screen Captures

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 28 Mar 1996 23:59:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960328235105.5019A-100000@greatlakes>
Rendered body type: text/plain

```
Wayne (of 73 magazine fame) called the other night and wanted to know
what was this APRS all about.  I sent in the article tonight...
```

```
To make the pictures, I finally figured out how to use WINDOWS:

1) Run APRS from the file manager.
   Make a pretty map, hit PRINT SCREEN.  Quit APRS

2) OPEN PAINTBRUSH
   Select VIEW, ZOOM OUT.   (this is the trick to getting the WHOLE screen)
   Select EDIT, PASTE
   click below the crosshatch
   THen File SAVE

The result is an 880K .BMP file.  Which amazingly PKZIP's down by 99% to
only 14K!  All this is probably obvious to everyone who does windows, but
for some of us who only bring up windows occassionally, it might help...
P.S.  this was windows 3.1...
```

821. MapsMakers

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 23:19:54 -0800
To: aprssig@tapr.org
Message-ID: <315B8F1A.4CFA@hiwaay.net>
Rendered body type: text/plain

```
I am uploading two files. One named NASHGRID.MAP and NASHGRID.TXT to help
answer some of the questions on how i make my detailed city maps. The
NASHGRID is a map of the Nashville,TN area with a grid overlay showing a
grid from wich you can make any scale map and get the Lat/Lon for the
whole grid. Make sure you D/L the text file along with it. I hope this
will help some of you to make these maps. I'm not saying this is the best
way or the only way. All i'm saying this is my way and i have made
somewhere around 600 maps now and it works for me Hi. isn't this some
type of APRS WORLD BOOK OF RECORDS ENTRY Bob? hi...

Bill KE4EER
```

822. MapMakers

From: William Nolle <ke4eer@hiwaay.net>
Date: Thu, 28 Mar 1996 23:24:55 -0800
To: aprssig@tapr.org
Message-ID: <315B9047.553F@hiwaay.net>
Rendered body type: text/plain

```
By the way forgot to tell you if you download the NASHGRID.ZIP and the
NASHGRID.TXT you may as well download the maps made using that grid, they
are also listed on Tapr with the file name TNNASH.ZIP & TNNASH.TXT.

Enjoy

Bill KE4EER
```

823. Re: [APRSSIG:7966] Re: Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 00:30:04 -0800
To: aprssig@tapr.org
Message-ID: <315B9F8C.419@hiwaay.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:

> 1) NEVER use the .MAP results, they are useless.  Use the .DAT maps.
> Load them into MAPFIX23 and do a TASKS-SCRUNCH at 1.2.  THen SAVE them
> as .MAP

Bob that's not always the case, look at the DAT and MAP files if the filesize is the
same then the MAP file is ok. DO NOT SCRUNCH at all. Take a close look before and
after scrunching and you will see many road points have moved to a 45 degree angle,
you have to realy look close. This ALWAYS HAPPENS!.
> Bill KE4EER
```

824. Re: [APRSSIG:7968] Re: Mapmaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 00:35:26 -0800
To: aprssig@tapr.org
Message-ID: <315BA0CE.C22@hiwaay.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> I just remembered that ALT-O is trying to open the DIGITIZER COM port,
> not OVERLAY.  It will crash if you dont have a COMM2

---------
Your right Bob did i tell you ALT-O before should be CTRL-O for overlay.

Bill KE4EER
```

825. Re: [APRSSIG:7967] Re: ?? Food in San Diego

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 00:37:03 -0800
To: aprssig@tapr.org
Message-ID: <315BA12F.F88@hiwaay.net>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> On Thu, 28 Mar 1996, geh@aip.org (gordon_hardman) wrote:
> >I am currently staying at the Hyatt Islandia (32:45.69N,117:13.54W)
> >and there is a fairly decent chinese place about 0.5 mi south of here,
> >right on the waterfront overlooking Quivira Bay.
> >Gordon Hardman
> ><geh@aip.org>
> >
> Pick me up an order of Shrimp w/Lobster Sauce, Won-Ton soup, eggroll and hot
> tea....
> >
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

------------------------
Boy and you guys have the nerve to flame me for posting offtopic stuff (Realy).

Bill KE4EER
```

826. Re: [APRSSIG:7919] DIGIS!!!! WHERE are they?

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Fri, 29 Mar 1996 02:15:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I2W7GZGSTE9891JD@delphi.com>
Rendered body type: text/plain

```
On 27-MAR-1996 22:11:27.2 bruninga said to JKHAM
   >WB4APR REPLY COMMENT:  OK, I give up, whats its call???

   SORRY I was up late and forgot that I had changed my E-MAIL address
   and had taken my call sign out of the signature.

   NEW BTEXT IS AS FOLLOWS:           CORRECTION    ADDED
                                           \/        \/
   BTEXT    !3251.35N/08344.03W#PHG5238/WIDE-RELAY KC4ZGQ MACON GA
   MYCALL     KC4ZGQ,
   MYALIAS    RELAY,
   MYNODE     WIDE,
   MY PBBS    KC4ZGQ-1

   The macon digi is located in north macon at 450 ft above sea level.
   It is at fifty feet above ground level running thirty watts into
   a 4 element beam aimed northwest.  I am able to copy atlanta about
   60 percent of the time under good conditions.  Atlanta is the
   closest true digi in georgia <N4NEQ-3> I hope to have the digi on a
   vertical with similar gain before the torch run takes place.


   John F. Kraus II <JKHAM@DELPHI.COM>
```

827. Re: [APRSSIG:7978] Re: DIGIS!!!! WHERE are they?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 03:49:20 -0800
To: aprssig@tapr.org
Message-ID: <315BCE40.1934@hiwaay.net>
Rendered body type: text/plain

John F. Kraus II wrote:
>
>   The macon digi is located in north macon at 450 ft above sea level.
>   It is at fifty feet above ground level running thirty watts into
>   a 4 element beam aimed northwest. I am able to copy atlanta about
>   60 percent of the time under good conditions. Atlanta is the
>   closest true digi in georgia <N4NEQ-3> I hope to have the digi on a
>   vertical with similar gain before the torch run takes place.
> Hi John, you state Atlanta is the closest digi in Georgia N4NEQ-3, it's
not located in Georgia. It's located in South West NC

Bill

---

828. K-Net digi?

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Fri, 29 Mar 1996 07:31:35 -0600
To: aprssig@tapr.org
Message-ID: <9603290731.AA35335@oscar.telalink.net>
Rendered body type: text/plain

I saw that Kantronics now hase ROM version 6.0N for the KPC-3 and KPC-9612.
This is supposed to give the KPC all the advantages of a TheNET node without
giving up any of the regular TNC feature (Like long unproto paths). Has
anybody seen/used this in a digi yet? I am considering this option in the next
digi I put up and if it works well may retrofit my existing digi(s).

73, Bruce

---

829. Re: [APRSSIG:7963] Re: SA Off? Details tomorrow

From: Randy Hammock <hammock@tis.telos.com>
Date: Fri, 29 Mar 1996 08:50:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960329084851.11607A-100000@zentropa>
Rendered body type: text/plain

On Thu, 28 Mar 1996, Alan Crosswell wrote:

> Besides turning off SA, US Govt will not officially support
> GPS as a civilian service which opens the ways for commerical aviation
> and other users to count on it. Prior to this, it was officially only a
> military pgoram with no guarantee that it would be maintained for civilian
> use.

I assume you meant to say "...US Govt will NOW officially support...".

```
--
Randy Hammock KC6HUR                   |  Randy.Hammock@Telos.com
Telos Information Systems - EDOS       |      hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400  |   Voice: +1 301 507-5904
Greenbelt, Maryland 20770              |     FAX: +1 301 507-5892
   "Age and Guile, beats Youth and Innocence" - P.J. O'Rourke
```

---

830. Re: [APRSSIG:7979] Re: DIGIS!!!! WHERE are they?

From: rwf <rwf@mindspring.com>
Date: Fri, 29 Mar 1996 08:54:48 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960329085613.35df295a@mindspring.com>
Rendered body type: text/plain

At 04:04 AM 3/29/96 -0600, EER wrote:

>> Hi John, you state Atlanta is the closest digi in Georgia N4NEQ-3, it's
>not located in Georgia. It's located in South West NC
>
>Bill

I think he may mean N4NEQ-2, which is near Atlanta. But regardless, he
sees one of them. I just wish he could see it better :)

---

831. Re: Map Making Problem?

From: rwf <rwf@mindspring.com>
Date: Fri, 29 Mar 1996 09:31:34 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960329093300.2577133a@mindspring.com>
Rendered body type: text/plain

I may not have been clear when describing the problem I have.
I think that the centering that the Mapmaking program (the 9 map one) uses

to derive the map centers should be making the centers a little closer
together, (based on the specified range) so that the maps do not have blank
space between them.

If you let it make 9 maps and then do a Map Borders command, there is an
obvious gap. The gap carries thru to the maps themselves. I hardly ever
use the *.map files- most of the time i rename the *.dat files (if they are
not too large).

Maybe the problem is that the trimming part of the program cuts the
boundaries too closely. Maybe it is something I am specifying.
Has anyone gotten this program to work by simply:

1. Answering the questions and running the program for 9 maps (or 4)
2. Deciding whether to use the *.dat or *.map files and renaming them
accordingly
3. Having maps that adjoin properly with no blank area?

This would be a nice tool for "quick and dirty" maps of a small area without
too much effort and time spent!   If mapping a large area with lots of maps,
I realize other tools would be more appropriate right now.

Ralph

---

832. Re: [APRSSIG:7945] APRS/GPS

From: "Ralph R. Swick" <swick@x.org>
Date: Fri, 29 Mar 1996 09:45:05 EST
To: Jimrse@aol.com
Cc: aprssig@tapr.org
Message-ID: <199603291445.AA186980705@huey.x.org>
Rendered body type: text/plain

I find the
    program very
    interesting but have several problems. ...

    As I do not know anyone having the program it is a hide
    and seek problem.

There's a bunch of us active near you, Jim (North Central + Eastern
Mass). Sounds like the best thing might be for you to come visit
one or more of us. It'd be an honor to be an APRS elmer! I'll
send you private mail.

-Ralph, kd1sm
 kd1sm@iii.net (home)
 kd1sm@x.org (work)
 ralph@kd1sm-1.ampr.org (play)

---

833. Re: [APRSSIG:7980] K-Net digi?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 29 Mar 1996 10:01:45 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960329160145.007020e4@144.188.134.33>
Rendered body type: text/plain

A totally off the cuff, un-thought out idea....

What if there were dual port (1200 baud on 2m and 9600 baud on 220/440)
nodes that were K-net nodes. And further more these nodes were used to route
between cities, such as say Chicago and Milwaukee. People in Chicago could
then put a Milwaukee node in their path, and the K-net node would "know" how
to route it. No fuss, no muss, and no GATExyz.

Now, tell me what is wrong with this....or have I been a sleep and this is
already in progress.

At 07:32 AM 3/29/96 -0600, you wrote:
>I saw that Kantronics now hase ROM version 6.0N for the KPC-3 and KPC-9612.
>This is supposed to give the KPC all the advantages of a TheNET node without
>giving up any of the regular TNC feature (Like long unproto paths). Has
>anybody seen/used this in a digi yet? I am considering this option in the next
>digi I put up and if it works well may retrofit my existing digi(s).
>
>73, Bruce
>
>--
>***

```
>* Bruce W. Martin           Internet: martinbw@telalink.net           *
>* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                           *
>* Hermitage TN  37076-2650      ICBM/ALCM                             *
>* Voice:     (615) 872-7733       Address:36°10'30"N/86°35'30"W       *
>* FAX/MODEM: (615) 872-0045          APRS:3610.50N/08635.50W          *
>* URL:  http://www.tbr.state.tn.us/~martinbw/home.html                *
>*                                                                  0- *
>*If you see this signature but no text above it please let me know.   *
>***********************************************************************
>
Paul, WD9ABE
```

---

834. Re: [APRSSIG:7975] Re: Map Making Problem?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Mar 1996 11:13:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960329110758.8612D-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 29 Mar 1996, William Nolle wrote:

> Bob Bruninga wrote:
> > 1) NEVER use the .MAP results, they are useless.  Use the .DAT maps.
> > Load them into MAPFIX23 and do a TASKS-SCRUNCH at 1.2.
>
> Bob that's not always the case, look at the DAT and MAP files if the
> filesize is the same then the MAP file is ok.
ANSWER:  If they are the same, then why take the extra step of looking
first.

> DO NOT SCRUNCH at all. Take a close look before and after scrunching
> and you will see many road points have moved to a 45 degree angle,
> you have to realy look close. This ALWAYS HAPPENS!.

WB4APR REPLY COMMENT:  I donno Bill, the .MAP results ALWAYS make these
truncation errors, and that is why the .MAP output should NEVER be used.
The MAPFIX SCRUNCH only eliminates duplicate and redundant points with
nearly the same slope.  It will never truncate and make the angles you
describe...  I suspect what you are seeing were in there before you did
the SCRUNCH.  Also, never use more than a SCRUNCH of 1.2...
```

---

835. Re: [APRSSIG:7980] K-Net digi?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Mar 1996 11:28:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960329112318.8612K-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 29 Mar 1996, Bruce W. Martin wrote:

> I saw that Kantronics now hase ROM version 6.0N for the KPC-3 and KPC-9612.
> anybody seen/used this in a digi yet? I am considering this option in the
> next digi I put up and if it works well may retrofit my existing digi(s).

WB4APR REPLY COMMENT:  We will be introducing the APRS MIC ENCODER at
Dayton (and have a prototype for Timonimu this weekend).  THis will
reequire a special APRS NODE at all voice repeaters.  I am working with
PacComm to develope this special APRS NODE and it will also have the
new WIDE-N routing schemes that I have been talking about for over a year...
THese will eventually need to be at all APRS digipeaters too to improve
APRS channel capacity by a factor of 3 or more, eliminate WIDE,WIDE,WIDE
dupes, and provide for DX routing...

 I cant promise anything...  but it is all in the works...
```

---

836. Re: [APRSSIG:7983] Re: Map Making Problem?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Mar 1996 11:33:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960329113034.8612L-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 29 Mar 1996, rwf wrote:

> I may not have been clear when describing the problem I have.
> If you let it make 9 maps and then do a Map Borders command, there is an
> obvious gap.  The gap carries thru to the maps themselves.  I hardly ever
```

```
WB4APR REPLY COMMENT:  I dont think so, What you should see is a 5% overlap.
Or at least that is what I see.  Do a TASKS-OVERLAY command and see if
the maps dont overlap about 5%....  REMEMBER when doing an OVERLAY, that
ONLY the points within the WHITE border will OVERLAY, so make the WHITE
RANGE BOX big enough temporarily ....
```

---

837. 75a "problems" on P5 system

From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>
Date: Fri, 29 Mar 1996 09:46:08 MST-0700
To: aprssig@tapr.org
Message-ID: <B73D95C1207@ceis.uhcolorado.edu>
Rendered body type: text/plain

```
A mystery or two!

75 and 75a run fine in a Windows window, with the normal
windoze problems, on my Packard Bell pentium computer and
PB monitor, except that my new "energy efficient" monitor,
or something else, somehow senses lack of keyboard or mouse
activity and closes the open program.  I am left with an
APRS icon at the bottom of the screen, which is still on,
not blanked or off in "energy saving mode".  I have all the
energy saving features of the computer and monitor turned
off, and there are no screen savers running.

75 and 75a will not run from DOS on this computer, either by
closing Windows or from a minimized DOS boot disk.  All I
get is a small round graphics symbol in the upper left
corner of the screen that looks like the cursor after the
program is open.  The computer then locks up.  A
CTRL-ALT-DEL does not work, a power off reset is required
to restart the computer.

The computer is a pentium 60 with 8 mb of ram, SVGA card
with 1 mb of ram, 256 k cache, 640 mb as C drive and 1.4 gb
as D.  There is a "Sound Blaster" audio/cd card and a
"Sound Blaster" labeled CD.  The new monitor is a new PB
15" SVGA with energy saving capability.  My old Compudyne
monitor went up in smoke so I cannot reinstall it to see if
the new monitor is the problem.  I have connected the
monitor to my old 386-16 notebook, and everything works OK
in both DOS and Windows.  I have tried changing screen
configurations: 640x480, 1024x768, 16 colors, 256 colors,
etc. with no change in the problem.  I have reloaded 74 and
74to75 and 74a from TAPR, then PKUNZIP -d each.  The 74
with 74to75 and 75a all have the same problem, the only
thing that occasionally changes is the graphics character in
the upper left of the screen. With 74to 75 it looks like a
briefcase on end with a handle on the left side, centered.
 With 75a direct, it is an open circle, just like the map's
cursor.

Suggestions please!

I need to get this problem solved so the system will run
when I am not at the keyboard before the torch gets to
Denver!
```

---

838. Re: [APRSSIG:7975] Re: Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 10:53:46 -0800
To: aprssig@tapr.org
Message-ID: <315C31BA.7C5F@hiwaay.net>
Rendered body type: text/plain

```
rwf wrote:
>
> Bill-  I got the nashville stuff, and it looks good.  I know we have talked
> about this b4  and you made me a grid for atl.
> If the grid exists, then your description works great, but will you tell us
> the steps to make a grid itself?
> Start to finish...
>
> thanks
>
> I still want to do anderson, SC for that guy who is putting up the digi
>
> Ralph---------------------------------------
Actually i did a straight reply to this message to Ralph when i noticed
```

he said TELL US.

By the way to understand what i'm talking about you may want to down load the files NASHGRID and NASHGRID.TXT for Tapr.

Well here it goes.
First i take a 2:000.000 map of the area i want to make detailed maps for. Load the map and resize the range box by hitting ALT-R and entering 1 mile for the range. Now move this white box to the uppermost corner of the area you want to cover, do this by moving the cursor to that point and hitting the ALT-C key for centering. Caution this is for MAPFIX18.EXE only. Now that you have the 1 mile square white box on the upper left zoom in to the 2 mile level (Or as close as you can). Place the cursor on the left vertical line of the box and hit ALT-N to draw a line, I normally use one of the lower numbered colors bbecause they show up better. Now move the cursor all the way down the map and hit ALT-A to draw that line. Now also do this for the vertical right line of the box. Before you move the box also draw a line for the top horizontal line of the box, and also the lower horizontal line of the box. This should give you the first box of your grid. Now move the white box to the right using the cursor and the ALT-C key untill it lines up with the next vertical line. At this point it doesn't matter if the box moved up or down somewhat. Keep repeating this untill you have a series of vertical lines covering the protion of the map you want to work with. Now reposition the box to just below the upper left box that you drew first and repeat drawing horizontal line using the above instuctions. When comleted you will have a ggridwork of one mile range boxes all over your map. This is what you will use to make your maps. To see how you use this grid download the file NASHGRID.MAP and NASHGRID.TXT it will explain how to go from there. Caution: Once and a while hit the CTRL-S to save your gridmap, the software has been known to crash and loose all your work hi.

I hope this explains the process clear enough, i'm not a writer so if you see something that isn't clear let me know and i will try to do better.

Bill KE4EER

---

839. Re: [APRSSIG:7982] Re: DIGIS!!!! WHERE are they?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 11:05:34 -0800
To: aprssig@tapr.org
Message-ID: <315C347E.5CD3@hiwaay.net>
Rendered body type: text/plain

rwf wrote:
>
> At 04:04 AM 3/29/96 -0600, EER wrote:
>
> >> Hi John, you state Atlanta is the closest digi in Georgia N4NEQ-3, it's
> >not located in Georgia. It's located in South West NC
> >
> >Bill
>
> I think he may mean N4NEQ-2, which is near Atlanta. But regardless, he
> sees one of them. I just wish he could see it better :)---------------------
Yes i'm sure he knows where N4NEQ-3 is at. How can anyone miss that digi. By the way to see all activity in Tennessee all i have to do is point the beams at N4NEQ-3. there are a couple in Tennessee that are ego digi's tough, you know the once i'm talking about. In fact i have found doing some testing that i can hit most users in Atlanta going trough N4NEQ-3, i know that's the long way around but it works. Like i said N4KMJ-7 is useless to us here in North Alabama, in fact it hinders ud in the sence that we can hear everything it beacons but it can't hear us at all. Ralph let me know on the map thing.

Bill KE4EER

---

840. Tourists using Wide & Relay & Gate

From: jack swift <jswift@up.net>
Date: Fri, 29 Mar 1996 12:42:34 -0500
To: aprssig@tapr.org
Message-ID: <9603291748.AA05219@btc1>
Rendered body type: text/plain

At 10:16 PM EST 3/27/96 -0600, Bob Bruninga wrote:
>Torch run begins in 30 days or so from now!
>
>   THe Torch TNC will beacon via 4 paths something like this:
>   WIDE,GATE,GATE,WIDE
>   RELAY,WIDE,GATE,GATE,WIDE

```
>        RELAY,WIDE,WIDE,GATE,GATE,WIDE
>        WEBER-1   ?
>
>
```

i end up on several trips a year from EN57rc into the population zones (anywhere else but here...) The last one through Chicago had me in extasy -- i could see more than me on the APRS screen!!!

after seeing all the comments on this sig about keeping the digi path as short and specific as possible and then seeing this batch of rather wide paths, i am confused......

when i am mobiling locally, i can understand using a specific path to disseminate the position reports to the specific area i want to hit (there's only one other person running APRS here), but what should i do when making a 600-800 mile trip through 'populated' areas? do you guys in california really want to see me driving from chicago to st louis??????

```
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

841. SA is history: Wall Street Journal article

From: "Steven R. Bible" <srbible@mindport.net>
Date: Fri, 29 Mar 1996 12:46:29 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4b12.32.19960329174629.00688360@mindport.net>
Rendered body type: text/plain

Clinton Will Let Businesses
Widen Use of Satellite System

By ASRA Q. NOMANI
Staff Reporter of The Wall Street Journal

WASHINGTON -- President Clinton is expected to sign a directive Thursday, phasing out restrictions that the Pentagon had placed on civilian use of the government's sophisticated satellite-navigation system.

The new policy, which would grant expanded use of the system to U.S. airlines, auto makers and other commercial enterprises, is expected to be unveiled formally by Vice President Al Gore Friday. The satellite technology can pinpoint the location of users anywhere in the world, from the skies to golf courses.

The Pentagon's restrictions, based on national-security concerns, have limited the accuracy of the satellite-navigation system, reducing its uses for civilian purposes and raising a concern among potential foreign buyers that the military's control on the technology was too tight. The new policy follows a recommendation from Rand Corp., which estimated the satellite-navigation industry is likely to grow to $8.5 billion a year by the end of the century from the current $1 billion.

The policy shift ''will be a huge boost to business,'' said Frank O'Mahony, a spokesman at Trimble Navigation Ltd., a leading maker of the small, portable radio receivers that are used to pick up information from a 24-satellite network, enabling the users on land, sea or in the air to pinpoint their exact location. For example, drivers can figure out how to avoid traffic jams by using car-navigation systems based on this technology.

The announcement isn't likely to mean much to the makers of satellites, because the U.S. and commercial users will continue to use the 24 satellites that are already in orbit. Other potential commercial beneficiaries on the ground include Rockwell International Corp., Sony Corp. and General Motors Corp.

Another important feature of the new policy is that it apparently rejects proposals that the U.S. charge fees to users of the satellite technology, which started in the 1970s as a Defense Department project. Prepared by the White House Office of Science and Technology Policy, the policy means the U.S. will continue upkeep of the satellite system without curbing or charging for commercial use.

A White House official said, ''This new policy will do a better job of balancing national-security needs with civil and commercial-sector uses'' for the satellite-navigation system.

''It's long overdue,'' said Marvin White, general manager of the commercial division of Etak Inc., a Menlo Park, Calif., unit of News Corp., which sells the technology to users such as ambulance services in Albuquerque, N.M., Kansas City, Mo., and Baltimore. Other Etak customers include the makers of car navigation systems such as Motorola Inc. ''We would be delighted'' with a phase-out of military restrictions on the signals, Mr. White said. ''That would make using maps and navigation equipment less expensive,'' because users would need one receiver instead of two receivers to unscramble satellite signals.

The Federal Aviation Administration and U.S. carriers are expected to increase use of the system for air-traffic-control needs, and are already experimenting with it in the Pacific. UAL Corp.'s United Airlines and others have been investing in the system for their flying operations over places such as Russia and China,
where language difficulties often hinder air-navigation efforts.

Car rental companies such as Hertz, Avis and National have already been experimenting with navigation systems. ProShot Golf Inc., Newport Beach, Calif., just signed a deal with Trimble to develop advanced satellite-navigation parts for golf products; already, it uses the technology on golf carts to tell golfers how far they are from the green.

- Steve, N7HPR

srbible@mindport.net
n7hpr@amsat.org
n7hpr@tapr.org

842. Re: [APRSSIG:7983] Re: Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 12:12:17 -0800
To: aprssig@tapr.org
Message-ID: <315C4421.272C@hiwaay.net>
Rendered body type: text/plain

rwf wrote:

> Maybe the problem is that the trimming part of the program cuts the
> boundaries too closely. Maybe it is something I am specifying.
> Has anyone gotten this program to work by simply:
> Actually you shouldn't do any trimmimg Ralph, unless the map just has to many
points. Also like i stated here before you don't have to use only the .DAT files.
If you look at both the .DAT and the .MAP file and if they are both the size, lets
say 26486K then the original .MAP is perfect and you can safely delete the .DAT
file!.

> 1. Answering the questions and running the program for 9 maps (or 4)
> 2. Deciding whether to use the *.dat or *.map files and renaming them
> accordingly
> 3. Having maps that adjoin properly with no blank area?
> I think that not having any blank space between the actual maps when you are using
them can't be done (Visually that is) but under actual use the cursor will nearly
always be on a map (If overlap is there, of course trimming a map get rid of the
overlap.

> This would be a nice tool for "quick and dirty" maps of a small area without
> too much effort and time spent!   If mapping a large area with lots of maps,
> I realize other tools would be more appropriate right now.
> Personally i don't use that part of the software since it realy gets flaky and has to
many bugs in it. But i'm going to give it a try and see what your saying.

Bill KE4EER

843. Re: [APRSSIG:7941] Ziff-Davis SPAM Idea!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 29 Mar 1996 12:16:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603291816.MAA24229@solar.cs.tamu.edu>
Rendered body type: text/plain

There are more appropriate methods to deal with SPAMming than to harrass the individual who sent it. Send a POLITE note to postmaster or root at their

system, and see what happens. In virtually all cases, I've gotten a polite
response, with an "Oh, no! Tell me (s)he didn't really do that! I'll deal
with it!" attached. And no more SPAM.

The exceptions are the folks who are spamming, know it, and are doing it to be
annoying... or worse. Most of those, nowadays, are using faked address info
for the From: and Reply to: lines, as well, so it takes some further detective
work to figure out who they are and how they're getting in. IN this case, a
polite note to the root of the system they're apparently from will get that
group and other, appropriate groups involved in figuring out who's at fault,
and dealing with it.

gerry

---

844. Re: [APRSSIG:7988] Re: Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 12:51:20 -0800
To: aprssig@tapr.org
Message-ID: <315C4D48.73BE@hiwaay.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Fri, 29 Mar 1996, rwf wrote:
>
> > I may not have been clear when describing the problem I have.
> > If you let it make 9 maps and then do a Map Borders command, there is an
> > obvious gap. The gap carries thru to the maps themselves. I hardly ever
>
> WB4APR REPLY COMMENT: I dont think so, What you should see is a 5% overlap.
> Or at least that is what I see. Do a TASKS-OVERLAY command and see if
> the maps dont overlap about 5%.... REMEMBER when doing an OVERLAY, that
> ONLY the points within the WHITE border will OVERLAY, so make the WHITE
> RANGE BOX big enough temporarily ....--------------------------------
I have to agree with you Bob. Altough i never use that function i just made a
grid of 4 maps and it does overlap perfectly. What Ralph is doing is trimming
the maps and this gets rid of the overlap that's needed. But Bob i dissagree
with the fact that when you do an overlay that only the portion in the white
box shows, OOPS just remembered that you are using Mapfix23.EXE and i'm using
Mapfix18.EXE (Sorry). In any case don't trim your maps if you don't have to, it's
better to make the range a little smaller so you don't have to. By the way the
grid of 4 maps i just did i listed them in the maplist at a 2 mile range, and
when moving the cursor from one map to the next the cursor was never in a dead
space so should work great. By the way out of the 4 maps i had to use 4 .DAT
files yet only one was beyond the 3000 point limit (3125) showing the program has
problems.

Bill KE4EER

---

845. Re: [APRSSIG:7992] Tourists using Wide & Relay & Gate

From: rwf <rwf@mindspring.com>
Date: Fri, 29 Mar 1996 13:56:21 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960329135742.2d17c340@mindspring.com>
Rendered body type: text/plain

At 11:45 AM 3/29/96 -0600, Jack Swift wrote:

>   when i am mobiling locally, i can understand using a specific path
>to disseminate the position reports to the specific area i want to hit
>(there's only one other person running APRS here), but what should i do when
>making a 600-800 mile trip through 'populated' areas? do you guys in
>california really want to see me driving from chicago to st louis??????

It depends on if there is anything else going on at the time. We like to
see things MOVE. The little houses get boring after awhile.
The torch is different. We feel that it is of enough interest that more
than the locals will care where it is. It also gives us something we have
never had before in APRS. A constantly moving target on a 15,000 mile trip.
If the signal makes it back here to Atlanta, you may just see this APRS
screen featured on a *WELL* known World Wide Web page too.   If the TNC had
more path options, we'd probably use them too.

By the way, on my recent 2 month Florida mobile trip, I was quite often in
areas without good digi coverage. I used the Alt Path command in APRS to
beacon 50% thru Relay,Wide and 50 % thru Wide, Wide   with Gates and
the home digi in Atl. thrown in as well if I was within a hundred miles of a

GATE.   Had to make sure Bill, EER could see me on his gate   ;-)

```
   Ralph Fowler, N4NEQ                               Coca-Cola Enterprises
Ham Radio Group
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
```

My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask me how!

---

846. Re: [APRSSIG:7972] Wayne Green & Screen Captures

From: ku0g@sprynet.com
Date: Fri, 29 Mar 1996 12:19:34 -0800
To: aprssig@tapr.org
Message-ID: <199603292019.MAA08554@m1.sprynet.com>
Rendered body type: text/plain

On Thu, 28 Mar 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>Wayne (of 73 magazine fame) called the other night and wanted to know
>what was this APRS all about. I sent in the article tonight...
>
Good ol' Wayne....He's right up to date isn't he?!?! I can hardly wait to read what he has to say after some of the AMSAT people throw in their 17 cents worth! Let's hope that Wayne sees the potential benefits of APRS and doesn't take an "out in left field" opinion/attitude about us!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

847. Re: [APRSSIG:7941] Ziff-Davis SPAM Idea!

From: ku0g@sprynet.com
Date: Fri, 29 Mar 1996 12:19:45 -0800
To: aprssig@tapr.org
Message-ID: <199603292019.MAA08595@m1.sprynet.com>
Rendered body type: text/plain

Well, IMHO, that is a pretty STUPID thing to do, Arte. Now we'll get someone on ZD-Net doing the same stuff back here!
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

848. Re: [APRSSIG:7977] Re: ?? Food in San Diego

From: ku0g@sprynet.com
Date: Fri, 29 Mar 1996 12:22:35 -0800
To: aprssig@tapr.org
Message-ID: <199603292022.MAA09121@m1.sprynet.com>
Rendered body type: text/plain

I'm sorry, I just couldn't resist having some authentic Chinese cuisine....Guess my appetite got in the way of better judgement!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

849. Re: [APRSSIG:7992] Tourists using Wide & Relay & Gate

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Mar 1996 15:58:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960329155601.17857B-100000@greatlakes>
Rendered body type: text/plain

```
> At 10:16 PM EST 3/27/96 -0600, Bob Bruninga wrote:
> >
> >    THe Torch TNC will beacon via 4 paths something like this:
> >        RELAY,WIDE,WIDE,GATE,GATE,WIDE
>
> Then Jack Swift wrote:
>         after seeing all the comments on this sig about keeping the digi
> path as short and specific as possible and then seeing this batch of rather
> wide paths, i am confused......  Do the guys in.....
> california really want to see me driving from chicago to st louis??????

WB4APR REPLY COMMENT:  I hope you can see that there is a big difference
in interest between seeing you driving, and seeing the Olympic Torch...
```

---

850. Re: [APRSSIG:7986] Re: Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 15:08:08 -0800
To: aprssig@tapr.org
Message-ID: <315C6D58.5C13@hiwaay.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> ANSWER:  If they are the same, then why take the extra step of looking
> first.
> I don't know what you mean by looking at them first. When done ,aking the map i can see
if they are the same, no need to look at them using mapfix if that's what you mean.

> > DO NOT SCRUNCH at all. Take a close look before and after scrunching
> > and you will see many road points have moved to a 45 degree angle,
> > you have to realy look close. This ALWAYS HAPPENS!.
>
> WB4APR REPLY COMMENT:  I donno Bill, the .MAP results ALWAYS make these
> truncation errors, and that is why the .MAP output should NEVER be used.
> The MAPFIX SCRUNCH only eliminates duplicate and redundant points with
> nearly the same slope.  It will never truncate and make the angles you
> describe...  I suspect what you are seeing were in there before you did
> the SCRUNCH.  Also, never use more than a SCRUNCH of 1.2...

No they don't Bob, take a good look at a mapfile with no scrunching, then scrunch at
1.2 or even 1.1 and look at the map very closely, you should see many points that have
changed. For this reason i never ever scrunch a map. Look at some of my maps and you
won't see any of the angled points because i don't scrunch them. It's hard to bring
this point accross of what i'm seeing in the maps but if required to prove the point i
can send you some samples.

Bill KE4EER
```

---

851. Re: [APRSSIG:7996] Re: Map Making Problem?

From: rwf <rwf@mindspring.com>
Date: Fri, 29 Mar 1996 16:34:27 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960329163558.2d17f67c@mindspring.com>
Rendered body type: text/plain

```
At 12:53 PM 3/29/96 -0600, EER wrote:

>I have to agree with you Bob. Altough i never use that function i just made a
>grid of 4 maps and it does overlap perfectly. What Ralph is doing is trimming
>the maps and this gets rid of the overlap that's needed. But Bob i dissagree
>with the fact that when you do an overlay that only the portion in the white
>box shows, OOPS just remembered that you are using Mapfix23.EXE and i'm using
>Mapfix18.EXE (Sorry). In any case don't trim your maps if you don't have
to, it's
>better to make the range a little smaller so you don't have to. By the way the
>grid of 4 maps i just did i listed them in the maplist at a 2 mile range, and
>when moving the cursor from one map to the next the cursor was never in a dead
>space so should work great. By the way out of the 4 maps i had to use 4 .DAT
>files yet only one was beyond the 3000 point limit (3125) showing the
program has
>problems.
>

Just for the record-   I *am not* trimming the maps.  The mapmaking program
is doing it.   I used only the *,dat files, because they were all small
enough to not need that final step.    If the mapmaking program is doing any
trimming *to create* the   *.Dat files, that is where the trimming is
getting done.  I'm not doing it.    I'll zip up the Anderson SC stuff and
put it on TAPR for Bob and Bill and y'all can see what I mean.






>
>
```

852. Re: [APRSSIG:7972] Wayne Green & Screen Captures

From: n2czf@gate.net
Date: Fri, 29 Mar 1996 17:28:07 -0500
To: aprssig@tapr.org
Message-ID: <199603292228.RAA49854@osceola.gate.net>
Rendered body type: text/plain

```
Funny guy that Wayne! 73 has been doing articles on occasion for the past 3 or
so years on APRS in the DF'ing Collum and I think Microwave and Above. You would
think he would read his own magazine once in a while! Guess he can't stand
reading his own Rag.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

853. Re: [APRSSIG:7970] Re: Digi

From: n2czf@gate.net
Date: Fri, 29 Mar 1996 17:47:02 -0500
To: aprssig@tapr.org
Message-ID: <199603292247.RAA32242@osceola.gate.net>
Rendered body type: text/plain

```
I too have seen Ralph's digi here on the "Right Coast" of FL on ocasion, I have
also seen aa few others in AL but I think Ralph's was the most distant to date.

As I and a few others have said APRS is a WONDERFUL "propagation program" so to
speak let it run and sit back waiting for the openings. 6M is a great choice for
the weak signal boys/girls since it is such a quiet band otherwise. The FM mode
will also guarantee you that if you see it on FM SSB/CW will be hotter than a
New Mexico chili pepper!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

854. Re: [APRSSIG:7995] Re: Ziff-Davis SPAM Idea!

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 29 Mar 1996 17:59:34 +0000
To: aprssig@tapr.org
Message-ID: <199603292302.SAA31128@hemisphere.neocomm.net>
Rendered body type: text/plain

```
Personally I find the one message about a neat shareware site
acceptable to a place devoted to only one piece of shareware. We hams
on APRS frequently use other shareware in conjunction with APRS.
How about them screen grabber type programs we capture APRS pictures
with? The generation of 7 of 8 counter messages including this one
is a waste of time. I almost dont want to mail this it will probal.ly
generate more petty bickering, but what the hay we have proved,  petty
bikering is 15% of this sig anyway, so it must be acceptable.
This is my opinion and possibly yours too ha ha...



cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM
```

---

855. Re: [APRSSIG:8003] Re: Map Making Problem?

From: William Nolle <ke4eer@hiwaay.net>
Date: Fri, 29 Mar 1996 18:26:47 -0800
To: aprssig@tapr.org
Message-ID: <315C9BE7.77F4@hiwaay.net>
Rendered body type: text/plain

```
rwf wrote:

> Just for the record-   I *am not* trimming the maps.  The mapmaking program
> is doing it.   I used only the *,dat files, because they were all small
> enough to not need that final step.    If the mapmaking program is doing any
> trimming *to create* the   *.Dat files, that is where the trimming is
> getting done.  I'm not doing it.    I'll zip up the Anderson SC stuff and
> put it on TAPR for Bob and Bill and y'all can see what I mean.
>
> >
> >Ok now i understand Ralph. you meant CHAINING SEGMENTS not trimming. The software
doesn't do any trimming on it's own, you have to tell it to do that. The difference
between the .MAP and the .DAT files is that the .MAP file segments have been chained
and the .DAT file has not. At least this is the way i understand how it works, Ok
Ralph i would like to see the files your talking about. Let me know when they are
uploaded.

Bill KE4EER
```

856. Re: Wayne Green & Screen Captures

From: Ozzie N4SCY <ozzie@digital.net>
Date: Fri, 29 Mar 1996 19:38:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960329193604.4556K-100000@digital.net>
Rendered body type: text/plain

```
You mean Wayne "Hey hams, get out and try new things!" Green
FINALLY found out about APRS?


     Ozzie

Robert Osband       +1 407 635-4166 (numeric pager)
PO Box 6841         ozzie@digital.net OR n4scy@amsat.org
Titusville  FL      http://ddi.digital.net/~ozzie
USA  32782          PAT PAULSEN FOR PRESIDENT! http://www.paulsen.com
```

857. MOTOROLA.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Mar 1996 19:42:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960329193917.21850A-100000@greatlakes>
Rendered body type: text/plain

```
Ralph pointed out that the MOTOROLA.BAS included in the MOTOROLA.ZIP was
the old one.

So I just re-zipped it and re-posted it on TAPR.

Ralph.  The EXE was correct, and should prompt you for whether you want
to toggle the HSP switch...

Again, this program simply lets you talk to your Motorola GPS through the
HSP switch for re-configuration...
```

858. AO-27

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 29 Mar 1996 19:59:10 +0000
To: aprssig@tapr.org
Message-ID: <199603300102.UAA01486@hemisphere.neocomm.net>
Rendered body type: text/plain

```
What a great experience !!! To give a CQ on 2m FM and hear Three
stations replying to my call WB4PAN! I was so excited I didnt write
down the calls. I think one was WA1EZZ, another was a KA7???
Thats a pretty good hop back to my rubber duck and HT on 440.
Shure hope I find out the actuall QTH`s of these contacts.
Next time I`ll remember to mention APRS as BOB pointed out.
BOB, thanks for letting me know abt this bird....

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM
```

859. Re: [APRSSIG:7917] GPS Board

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Fri, 29 Mar 1996 18:53:08 -0800 (PST)
To: William Neal <wmn3@dfw.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960329185151.17803H-100000@biggulp.callamer.com>
Rendered body type: text/plain

```
Hi William, I too need to know of a source of board capatable with what
is required for APRS.  Lets hope that is forthcoming in the newsgroup.
Cliff Buttschardt  W6HDO
```

```
On Wed, 27 Mar 1996, William Neal wrote:

> Someone said something about buying some GPS boards in large quantities...
> Can that person please send me a msg so that I can ask further questions?
>
> Thanks, Bill
> William Neal, Sgt, USAF (Ret.)
> ---------------------------------------
> wmn3@dfw.net *** n0nsa@n5aux.tx.usa.noam
> Home 817-788-8550 *** Page 817-452-9787
> ---------------------------------------
> Retired at age 31!  As the lady on the
> Church's commercial say's, "Gotta Luv It"!
>
>
```

---

860. Re: Ziff-Davis SPAM Idea!

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 29 Mar 1996 22:40:28
To: APRSSIG@tapr.org
Message-ID: <199603300340.WAA12593@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Well, after getting about 4 or 5 replies to my idea, I've
got to confess I went a little overboard and both apologize to
the SIG and retract the idea.  I was upset because I'd gotten
three other SPAM messages that day, one of which looked more
like some bunco artist practicing his wares.  In the future I
will instead write to their system administrators, as sugges-
ted by several of you.  73 de


Arte Booten <N2ZRC@gnn.com>  or  <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

---

861. Re: [APRSSIG:8010] AO-27

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 29 Mar 1996 23:04:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960329225758.22271C-100000@greatlakes>
Rendered body type: text/plain

```
On Fri, 29 Mar 1996, Charles W. Davidson wrote:

>     What a great experience !!! To give a CQ on 2m FM and hear Three
> stations VIA SATELLITE replying to my call WB4PAN! I was so excited I
> didnt write down the calls.
> Thats a pretty good hop back to my rubber duck and HT on 440.

WB4APR REPLY COMMENT:  CONGRATULATIONS!  It was easy wasn't it... DOnt tell
anyone, hi hi.. lets get the APRS'ers only on the birds...(grin).  Yes, I
heard your QSO.  Today was the worst QRM I have heard yet... Dozens of
stations calling CQ and stepping all on top of  each other....  only 10%
of them seemed to be hearing anything...

AO-27 is VERY WEAK with an OMNI receive antenna. Tho very strong with a
beam.  Stations should not call unless they hear gaps in existing QSO.
```

---

862. APRS74e Registration

From: matthies@xanadu.ncia.com
Date: Fri, 29 Mar 1996 20:36:45 -0800
To: aprssig@tapr.org
Cc: matthies@xanadu.ncia.com
Message-ID: <199603300436.UAA02866@xanadu>
Rendered body type: text/plain

```
TO: Bob Bruninga WB4APR

Hi Bob.
I know I need sk of the latest version of the software

but: I have a couplke of questions on your APRS74E software registration.

Do I need to send you $9 also for my GPS45 registration before my GPS45 will
work with the software?
```

Also do you have any maps for the Northwest?

I have made some 15' maps from the USGS 200,000:1 CD-rom, but I can only get one of 15' maps to show up out of the 8 I made and loaded. Can you give me any pointers?

Also is there any body local in my area that is doing APRS?

Thakyou for your Time!

Ke7av
Doug Matthies
2004 East Section Street
Mt Vernon, Was 98273
360-424-1228

---

863. Re: [APRSSIG:8002] Re: Map Making Problem?

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sat, 30 Mar 1996 00:19:29 -0500 (EST)
To: William Nolle <ke4eer@hiwaay.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9603300027.A22172-b100000@acme>
Rendered body type: text/plain

On Fri, 29 Mar 1996, William Nolle wrote:

> No they don't Bob, take a good look at a mapfile with no scrunching, then scrunch at
> 1.2 or even 1.1 and look at the map very closely, you should see many points that have
> changed. For this reason i never ever scrunch a map. Look at some of my maps and you
> won't see any of the angled points because i don't scrunch them. It's hard to bring
> this point accross of what i'm seeing in the maps but if required to prove the point i
> can send you some samples.
>
> Bill KE4EER

Gee Bill, I "Alt S" all the time - usually 2 to take out duplicate points or 1.2 to smooth some lines. But then I also go through afterwards and check each line and point and take out the angled points. I guess that's why I only have 250 maps to your 500. <GRIN>

BTW - I uses mapfix 18 too. I tried the new version and the command structure threw me for a loop. (Old dogs - new tricks ?)

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper

---

864. Dayton Symbol

From: mark.endicott@nashville.com
Date: Sat, 30 Mar 96 06:46:35
To: aprssig@tapr.org
Message-ID: <199603301301.HAA29451@tapr.org>
Rendered body type: text/plain

Bob (APR)

Having watched the all of the lobbying on the SIG for that Pick Up Truck symbol I would like to put my request in. I am planing to have my GPS attached to myself at Dayton this year. That way my partner can just look at his map to see what booth I'm at, when I find him a good deal. The problem is that there is not a symbol for "me". Bob, would you make one. I am 5'9", 180 lbs, blonde hair and blue eyes. I'm not taking my dog, no need for a leash and dog symbol. You know I bet there are others that will be doing the same thing. Since Hams come in all sizes, maybe you should make several. Oh! what about women ? Better make one of them too. Make her 5'8", 120 lbs. 36-25-35.

```
    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

865. Re: [APRSSIG:8016] Dayton Symbol

From: ku0g@sprynet.com
Date: Sat, 30 Mar 1996 06:58:50 -0800
To: aprssig@tapr.org
Message-ID: <199603301458.GAA22665@m1.sprynet.com>
Rendered body type: text/plain

```
On Sat, 30 Mar 1996, mark.endicott@nashville.com wrote:
>          Bob (APR)
>
>          Having watched the all of the lobbying on the SIG for that
>          Pick Up Truck symbol I would like to put my request in.  I
>          am planing to have my GPS attached to myself at Dayton this
>          year.  That way my partner can just look at his map to see
>          what booth I'm at, when I find him a good deal.  The problem
>          is that there is not a symbol for "me".  Bob, would you make
>          one.  I am 5'9", 180 lbs, blonde hair and blue eyes.  I'm
>          not taking my dog, no need for a leash and dog symbol.  You
>          know I bet there are others that will be doing the same
>          thing.  Since Hams come in all sizes, maybe you should make
>          several.  Oh! what about women ?  Better make one of them
>          too.  Make her 5'8", 120 lbs. 36-25-35.

Might I suggest at least a "D" cup? That might be a good direction pointer for
where you're going! (shame on me!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

866. Re: [APRSSIG:8016] Dayton Symbol

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 30 Mar 1996 09:01:24 -0800
To: aprssig@tapr.org
Message-ID: <315D68E4.54C0@hiwaay.net>
Rendered body type: text/plain

```
mark.endicott@nashville.com wrote:
>
>           Bob (APR)
>
>           Having watched the all of the lobbying on the SIG for that
>           Pick Up Truck symbol I would like to put my request in.  I
>           am planing to have my GPS attached to myself at Dayton this
>           year.  That way my partner can just look at his map to see
>           what booth I'm at, when I find him a good deal.  The problem
>           is that there is not a symbol for "me".  Bob, would you make
>           one.  I am 5'9", 180 lbs, blonde hair and blue eyes.  I'm
>           not taking my dog, no need for a leash and dog symbol.  You
>           know I bet there are others that will be doing the same
>           thing.  Since Hams come in all sizes, maybe you should make
>           several.  Oh! what about women ?  Better make one of them
>           too.  Make her 5'8", 120 lbs. 36-25-35.
> I like that Mark Hi. By the way the Pickup looks great, didn't see no gunrack or
beercan in the back...

Bill KE4EER
```

867. MapMaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 30 Mar 1996 09:08:44 -0800
To: aprssig@tapr.org
Message-ID: <315D6A9C.4956@hiwaay.net>
Rendered body type: text/plain

```
Bob and other MapMakers, found another bug in MK100K2a.EXE. You know the
problem i told you about when overlaying a map in Mapfix18 and it then
crashing and locking up my computer. Well the problem is like i believe
you mentioned Bob that there's something wrong with the map itself, that
is the case it doesn't have the last line wich should be (0, -1).
The reason that last line isn't there is when you use MK100K2a.exe and
you enter a filename of 8 characters it may build the map but leave out
that last line, then when importing that map the PC locks up. After
editing the mapfile manually and entering the (0, -1) as the last line in
the mapfile it didn't crash!.

The perils of making maps Hi.
```

Bill KE4EER

---

868. Dayton Symbol

From: Ozzie N4SCY <ozzie@digital.net>
Date: Sat, 30 Mar 1996 10:19:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960330101514.5014A-100000@digital.net>
Rendered body type: text/plain

It seems to me that all this fellow needs is a Sale Tag (shaped like
his signiture tag) with a "$" in it, and he only turns on his radio when
he's at a booth with a bargain. This way, he just stands around untill
his transmit light goes on (having sent out a beacon with his current
position), and everyone carrying their laptop will be able to zero in on
the bargain.

Ozzie

```
Robert Osband       +1 407 635-4166 (numeric pager)
PO Box 6841         ozzie@digital.net OR n4scy@amsat.org
Titusville  FL      http://ddi.digital.net/~ozzie
USA  32782          PAT PAULSEN FOR PRESIDENT! http://www.paulsen.com
```

On Sat, 30 Mar 1996 mark.endicott@nashville.com wrote:

```
>           Bob (APR)
>
>           Having watched the all of the lobbying on the SIG for that
>           Pick Up Truck symbol I would like to put my request in.  I
>           am planing to have my GPS attached to myself at Dayton this
>           year.  That way my partner can just look at his map to see
>           what booth I'm at, when I find him a good deal.  The problem
>           is that there is not a symbol for "me".  Bob, would you make
>           one.  I am 5'9", 180 lbs, blonde hair and blue eyes.  I'm
>           not taking my dog, no need for a leash and dog symbol.  You
>           know I bet there are others that will be doing the same
>           thing.  Since Hams come in all sizes, maybe you should make
>           several.  Oh! what about women ?  Better make one of them
>           too.  Make her 5'8", 120 lbs. 36-25-35.
>
>
>
>     If Found, Please Return To:
>    _____________________________
>   |                              \
>   |         Mark Endicott          \
>   |        P.O. Box 148242           \
>   |   Nashville, Tennessee 37214      >
>   |             WB0NOO               /
>   |  mark.endicott@nashville.com   /
>   |______________________________/
>
>
```

---

869. NIAN VHF/HF net

From: WB9WOZ@aol.com
Date: Sat, 30 Mar 1996 10:20:41 -0500
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <960330102040_181442746@emout10.mail.aol.com>
Rendered body type: text/plain

*****REMINDER*****REMINDER*****REMINDER*****

The Northern Illinois APRS Net (NIAN) conducts a VHF/HF net on sundays at
2100 UTC (3pm CST)

Local stations are on 145.79
HF GATEs are
30 meters
10 meters on 28.105 LSB
and we also have a
GATEIL on 80 meters

The NIAN group discussed the procedures for operating

the net, got some input from Bob, WB4APR and figured that we would have
to revise things as needed. But here is how it stands now.

PROCEDURE:
Place "Checkin NAME & QTH" in POSIT string
when checking out place "Checkout NAME & QTH" in POSIT string
Windows users should send directed message, its easier then messing with
config file
Stations using GATEIL or GATE or GATE10,or GATE,GATE add N9RER-15 after
last GATE **NOT WIDE**
this way we won't tie up other nets

Since this is so new to everyone, and wanting to keep it somewhat informal
so as not to scare off prospective parties, we have come up with a few rules.
The Net Control station should be able to keep a rein on what traffic is
being passed. So, a combination of directed messages and BLNs will be used.
Net Control will issue two types of BLNs.
BLN1,BLN2,etc (numerical) and BLNA,BLNB,etc (alpha).
Numerical BLNs will show stations checking in & out. Alpha BLNs will show
traffic. I think that stations wanting to pass traffic for general knowledge
should issue an alpha BLN. Stations wishing to pass traffic to Net Control
only should send a directed message.

All this brings us to the reason why BLNs are used instead of more directed
messages. BLNs don't require ACKs, meaning less repetitive transmissions,
and less QRM.
A directed message needs an ACK. In the last net, I had no real trouble
replying to direct messages and watching the P list for new stations.
The Chicago area stations were sending direct to me. It was agreed that
Net Control should be the only station in our area using GATE in my path.

In short,
BLNA,B,etc(alpha) for general traffic
BLN1,2,etc (numeric) to be issued by Net Control
direct messages are ok, but less chance of getting through

Questions, comments, let me know
73s & thanks
Bruce Tobias
WB9WOZ

---

870. Re: [APRSSIG:7918] Re: GPS for landing.

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sat, 30 Mar 1996 09:41:49 -0800 (PST)
To: Al Chan - W6DNT <Al@w6dnt.ampr.org>
Cc: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960330093953.30225A-100000@biggulp.callamer.com>
Rendered body type: text/plain

Hi Al and all.....The FM subcarrier idea is presently in use in the San
Francisco Bay area and portions of the LA harbor. Further, the latest
from the feds are that the scrambling is to be taken off---finally!
Cliff Buttschardt W6HDO

On Wed, 27 Mar 1996, Al Chan - W6DNT wrote:

> In reply to AL, Gerry Creager wrote:
>
> AL> The Norwegians are using their FM broadcasting band (the band we
> AL> use for stereo music) for the Differential part of the D-GPS.
> AL> Why can't we do the same and save a lot of money, since FM
> AL> signal is ubiquitous all over the States. Just let FCC allocate
> AL> a small portion of the FM band (low or high end) for D-GPS.
> AL> Either that or let the differential signal piggy back on
> AL> existing commercial FM broadcasting stations. Wouldn't that
> AL> serve the purpose of the WAAS or LAAS, since every city and
> AL> small town with an airport also has FM stations playing stereo
> AL> music? If it's good enough for fishermen, it should be good
> AL> enough for pilots. Furthermore, it would work well around
> AL> automobiles, motorhomes, and yachts close to land.
>
> GC> And NO that would *NOT* serve the purposes of WAAS or LAAS
> GC> because the requirements for accuracy and redundancy, error
> GC> detection and correction, would be lost.
>
> Why would broadcasting the differential (GPS dither correction)
> signal through a subcarrier of an FM station any different than
> going through a regular stand-alone ground station? Many of these FM
> stations have high power 10 kilowatt transmitters. The correction

```
> signal would be piped to the FM stations through telephone lines.
>
> This would save money in the construction of hundreds of stations for
> the LAAS.
>
> How often is the dithering? Is the actual position continuously
> changed? Or is it static for a period of time. How many times in a
> period of one second is the actual position dithered?
>
> CG> This concern has been repeatedly aired. It's real. The Europeans
> CG> have investigated a variety of alternatives. One of the best is
> CG> to coutilize the the Russian GLONASS system.
>
> Is the Russian GLONASS system also dithered? If not, why not? Does the
> Glonass also have about 24 satellites?
>
> -al.
>
>
```

---

871. Re: [APRSSIG:8016] Dayton Symbol

From: Steve Hall <kk4pm@ix.netcom.com>
Date: Sat, 30 Mar 1996 12:53:53 -0500
To: aprssig@tapr.org
Message-ID: <315D7531.1B2F@ix.netcom.com>
Rendered body type: text/plain

```
mark.endicott@nashville.com wrote:
>
>           Bob (APR)
>
>           Having watched the all of the lobbying on the SIG for that
>           Pick Up Truck symbol I would like to put my request in.  I
>           am planing to have my GPS attached to myself at Dayton this
>           year.  That way my partner can just look at his map to see
>           what booth I'm at, when I find him a good deal.  The problem
>           is that there is not a symbol for "me".  Bob, would you make
>           one.  I am 5'9", 180 lbs, blonde hair and blue eyes.  I'm
>           not taking my dog, no need for a leash and dog symbol.  You
>           know I bet there are others that will be doing the same
>           thing.  Since Hams come in all sizes, maybe you should make
>           several.  Oh! what about women ?  Better make one of them
>           too.  Make her 5'8", 120 lbs. 36-25-35.
>


I'll have a similar setup!  Bob please make mine an XXL ! hi

Mark, I'll look for you on the screen of my HP200LX palmtop!

73,

Steve Hall - KK4PM
```

---

872. Calling all Portland, OR and Vancouver, WA hams

From: Thomas Griffin - x77792 <griff@SSD.intel.com>
Date: Sat, 30 Mar 1996 10:36:42 -0800 (PST)
To: aprssig@tapr.org (APRS SIG)
Cc: griff@SSD.intel.com (Thomas Griffin - x77792)
Message-ID: <9603301836.AA09529@bungee.SSD.intel.com>
Rendered body type: text/plain

```
I'm trying to locate all APRS interested hams in the Portland, OR and
Vancouver, WA area in preparation for the Olympic Torch.  Please send
me direct email (not to this SIG) if you are interested in helping track
the torch.


73, Thomas (Griff) Griffin, N7ZKL
Beaverton, Oregon, USA
Internet: n7zkl@amsat.org
Packet:   n7zkl@k7iqi.or.usa.na
```

---

873. Re: [APRSSIG:8018] Re: Dayton Symbol

From: rwf <rwf@mindspring.com>
Date: Sat, 30 Mar 1996 15:25:14 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960330152634.35c7c916@mindspring.com>

Rendered body type: text/plain

Just thought you guys would like to know- Bill EER popped up on the map
here in Atlanta from his home QTH over in Al A Bama yesterday. I did a
double take when I saw his pickup truck icon. "And I didn't see no beer
cans or no hound dog neither". ;)

When I saw the -14 on the icon, I had to zoom way in because at first I
thought that W7LUS-14 (Peter) had stopped off to see ol' Bill and that his
truck icon with -14 was covering Bill's house, but I guess all I saw was the
pickup in the sideyard.   That thing's not up on blocks, is it, Bill?

---

874. Re: [APRSSIG:8016] Dayton Symbol

From: "ROBERT R. OTTO" <rrotto@one.net>
Date: Sat, 30 Mar 1996 16:28:33 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960330212833.0068c44c@mail.one.net>
Rendered body type: text/plain

Forgive me for my sins but I simply can't resist!

Bob, if you make one a woman, to his specs........... I'll sure look for
her at Dayton. Bet 10,000 others will too!

Bob

```
At 07:15 AM 3/30/96 -0600, you wrote:
>          Bob (APR)
>
>          Having watched the all of the lobbying on the SIG for that
>          Pick Up Truck symbol I would like to put my request in.  I
>          am planing to have my GPS attached to myself at Dayton this
>          year.  That way my partner can just look at his map to see
>          what booth I'm at, when I find him a good deal.  The problem
>          is that there is not a symbol for "me".  Bob, would you make
>          one.  I am 5'9", 180 lbs, blonde hair and blue eyes.  I'm
>          not taking my dog, no need for a leash and dog symbol.  You
>          know I bet there are others that will be doing the same
>          thing.  Since Hams come in all sizes, maybe you should make
>          several.  Oh! what about women ?  Better make one of them
>          too.  Make her 5'8", 120 lbs. 36-25-35.
>
>
>
>    If Found, Please Return To:
>   _____________________________
>  |                              \
>  |         Mark Endicott          \
>  |        P.O. Box 148242           \
>  |   Nashville, Tennessee 37214      >
>  |             WB0NOO               /
>  |  mark.endicott@nashville.com   /
>  |______________________________/
>
>
FROM MY WORLD
    ----TO YOUR WORLD
           ----THROUGH THE VIRTUAL WORLD

"NEVER PART WITHOUT LOVING WORDS TO THINK OF DURING
YOUR ABSENCE.  IT MAY BE THAT YOU WILL NOT MEET AGAIN
IN LIFE"...........JOHN PAUL RICHTER
```

---

875. New Federal statement on GPS SA status.

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Sat, 30 Mar 1996 16:31:29 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960330163129.20821515@exame2.dseg.ti.com>
Rendered body type: text/plain

FYI

Excerpts from the Business Section of the Dallas Morning News
Saturday, March 30, 1996

EASED RESTRICTIONS TO INCREASE USES FOR NAVIGATION SYSTEMS
Asociated Press
WASHINGTON - The Clinton administration announced Friday it would loosen military security restrictions and allow greater commerical use of a global navigation system.

In a move that Vice President Al Gore said could turn a $1 billion industry into an $8 billion industry in four years and create 100,000 jobs - mostly in California - the administration said it can protect military security while expanding access to the system.
<snip>

Under a newly approved White House policy, the Pentagon will end in four to 10 years its practice of degrading the quality of the Global Positioning System signal available for commercial use...

While I'm delighted that they are going to turn off SA for the system (that is what they said, isn't it?), I must say I'm underwhelmed at the stated timetable. Since SA can already be simply and cheaply defeated by anyone who wants to take the trouble to do it, I wonder why the feds don't just turn it off and be done with it!

Also wonder why Gore thinks this will generate an $8 billion industry in four years if the new plan MAY keep SA around for 10 years?

'Tis a puzzlement!

73 Claude Head
K5DTN

876. Re: [APRSSIG:8025] Re: Dayton Symbol

From: William Nolle <ke4eer@hiwaay.net>
Date: Sat, 30 Mar 1996 16:58:11 -0800
To: aprssig@tapr.org
Message-ID: <315DD8A3.3C4F@hiwaay.net>
Rendered body type: text/plain

rwf wrote:
>
> Just thought you guys would like to know- Bill EER popped up on the map
> here in Atlanta from his home QTH over in Al A Bama yesterday. I did a
> double take when I saw his pickup truck icon. "And I didn't see no beer
> cans or no hound dog neither". ;)
>
> When I saw the -14 on the icon, I had to zoom way in because at first I
> thought that W7LUS-14 (Peter) had stopped off to see ol' Bill and that his
> truck icon with -14 was covering Bill's house, but I guess all I saw was the
> pickup in the sideyard.   That thing's not up on blocks, is it, Bill?------------------------

No Ralph Peter didn't stop here, and no there's no hound dog in the back of the pickup. Bob said that's asking a liitle to much Hi. You should have realy seen me today then. Still no laptop tough, cable problems, no power going to pin6 may be it. Anyway got to take down a 7el 6mtr wide spaced Yagi so i can put up a 10el ATV yagi, the last few ATV nets i have been cheking in using APRS they told me that was a first for them Hi. (How about that Ralph). Well i have been pointing my beams at N4NEQ-3 the last few days!.

Bill KE4EER

877. Re: [APRSSIG:7813] 145.79

From: Dave Willey <dwilley@shell.wco.com>
Date: Sat, 30 Mar 1996 15:12:22 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <199603302312.PAA21156@shell.wco.com>
Rendered body type: text/plain

At 09:15 AM 3/22/96 -0600, you wrote:
>145.790 is the OFFICIAL APRS Frequency of Southern California! What is
>distressing is
>to see other communities buckling under to the squeaky few and NOT using
>145.79! This is the NATIONAL frequency, not local! I am planning a trip to
>Northern Cal for the Visalia DX Convention, but I might as well leave my
>standalone tracker home! once we leave the LA Basin, APRS shifts over to
>145.01 for some unknown and strange reason. 145.01 is supposed to be for
>regular packet and keyboard/node/BBS operations. APRS on that freq is
>ridiculous as it wastes that freq for normal users. That is why 145.79 is

>there! So travelers can transverse the country with a single crystal rig
>like my MFJ 8621 and be always on the map. Come on, Northern Cal! QSY to the
>NATIONAL frequency 145.79 and give 145.01 back to the non-APRS Packeteers!
>Is there QRM on 145.79? Yes there was QRM in SoCal as well, but with the
>explosive growth of APRS, the interlopers realized their attempts to hold
>the frequency were useless and they QSY'd! We are looking for more high
>level WIDE nodes in LA area to give saturation coverage of all of SoCal.
>So my question is "What is happenning in NoCAL?" Obviously APRS is active
>in the Bay area but SYWhy on 145.01????
>73, Pat WA6MHZ
>ARRL San Diego Section Manager

Hi to Pat and the list,

I run a Northern CAilf PBBS and have recently got into APRS when a local
repeater owner put up the first of several APRS nodes for Marin Search &
Rescue work, tracking search teams.

The reason is that 145.790 is a VERY congested BBS freq in/around the San
Francisco bay area and
up into parts of Cent. Calif. These BBS systems have been here long before
APRS even came into Calif. and as such would not give up the freq. for APRS.
(I've been to the last several sysop's meetings for Northern Calif. where
there was a lot of negitive feelings about a FEW APRS users trying to get
many PBBS's (and alot more PBBS users)
to move. As a compromise, 145.010 was given to APRS as the least painful
solution for all. Maybe not perfect for everyone but it allowed the least
amount of "turf wars".

(My PBBS is NOT on 145.790. It's far enough north to be a hidden transmiter
to about 90% of the SF bay PBBS's.)

I'd also like to see a national APRS freq. but unless APRS users were there
first, (and they were not in Northern Calif.) it won't happen.

I'd like to open up some dialog on the POSSIBILITY of some group designing
and building a microsat-type of dedicated APRS satilight that could be built
that might allow users to use standard TNC's (like the KPC-3, etc) to
connect. Is this possible?

BTW- MY MFJ 8621 came rocked for 145.010. Hmmm. Wonder if MFJ knows which
way to go...

Thoughts?

73 de Dave KD6KWM @ KD6KWM.NORCAL.CA.USA.NOAM

Dave Willey
P. O. Box 3514
Santa Rosa, CA. 95402
(707) 577-0191
Email address: dwilley@wco.com
packet address: KD6KWM@KD6KWM.#NORCAL.CA.USA.NOAM

---

878. Re: [APRSSIG:8028] APRSSIG digest 479

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 30 Mar 1996 17:19:25 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199603302319.RAA27287@tapr.org>
Rendered body type: text/plain

TAPR will be posting the announcement on Monday (April 1st) concerning a
mass buy of Gamrin units. We have be finalizing the details the last few
days at the office and with Bob Bruniga, WB4APR and with the TAPR BoD.

Cheers - Greg, WD5IVD
Pres TAPR

Date: Fri, 29 Mar 1996 18:53:08 -0800 (PST)
From: Clifford Buttschardt <cbuttsch@slonet.org>
To: William Neal <wmn3@dfw.net>
Subject: Re: GPS Board
Message-ID: <Pine.OSF.3.91.960329185151.17803H-100000@biggulp.callamer.com>

Hi William, I too need to know of a source of board capatable with what
is required for APRS. Lets hope that is forthcoming in the newsgroup.

```
Cliff Buttschardt  W6HDO


On Wed, 27 Mar 1996, William Neal wrote:

> Someone said something about buying some GPS boards in large quantities...
> Can that person please send me a msg so that I can ask further questions?
>
> Thanks, Bill
> William Neal, Sgt, USAF (Ret.)
> ---------------------------------------
> wmn3@dfw.net *** n0nsa@n5aux.tx.usa.noam
> Home 817-788-8550 *** Page 817-452-9787
> ---------------------------------------
> Retired at age 31!  As the lady on the
> Church's commercial say's, "Gotta Luv It"!
>
>
```

---

879. KPC-3 (6.0) Garmin 45..problem

From: warakois@world.std.com (James A Warakois)
Date: Sat, 30 Mar 1996 18:52:04 -0500
To: aprssig@tapr.org
Message-ID: <199603302352.AA13491@world.std.com>
Rendered body type: text/plain

```
I have been attempting for about 20 hours (it seems) to get my KPC-3 and
Garmin 45 to work as a stand alone tracker...(I've previously had a
successful Magellan/DRSI tracker)

I have made the following settings on the KPC-3 with no results (the KPC-3
works fine in all other ways.

so not to prolong the agony the following settings are made:
ABAUD 4800
GPSHEAD 1 $GPGGA
LTP 1 SPCL via RELAY,RELAY,KB1xxx,WIDE
BLT 1 E 00:02:10
LEDS OFF
BT {1}
DIGI ON
UNPROTO APRS VIA RELAY,RELAY,W1xxx
INTFACE GPS
RESET
(power off  then on with the computer disconnected)

==COULD SOMEONE PLEASE TELL ME WHERE I'VE BEEN A BAD BOY?==




Jim Warakois                                                Map Maker
W1KRU                                                       DF'er

warakois@world.std.com
W1KRU@KA1TUZ.EMA.MA.NA
```

---

880. Re: [APRSSIG:8030] Re: APRSSIG digest 479

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sat, 30 Mar 1996 18:11:24 -0800 (PST)
To: Greg Jones <wd5ivd@tapr.org>
Cc: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960330181104.1816G-100000@biggulp.callamer.com>
Rendered body type: text/plain

Good show on the boards!

---

881. Reading the baro pressure with U-2000

From: "David G. Henderson" <daveh@erie.net>
Date: Sat, 30 Mar 1996 21:35:50 -0500
To: aprssig@tapr.org
Message-ID: <199603310238.VAA06429@moose.erie.net>
Rendered body type: text/plain

Bob,

Please explain how to read the baro pressure with a U-2000.

This is the explaination in WX.TXT file:
1420z876/36/45   Time,1420. Pressure 987.6. Wind 36 gusts 45

But on N3HPR's U-2000 (now working with 75a) transmissions, he
transmits B018 and his display says 1018 MB. No decimal.

Is it one decimal place under 1000 MB; and no decimal place 1000 MB
and greater?

Please fill me in.

TNX

73,
Dave, N3EOY

882. Re: [APRSSIG:8031] KPC-3 (6.0) Garmin 45..problem

From: n2czf@gate.net
Date: Sat, 30 Mar 1996 22:13:25 -0500
To: aprssig@tapr.org
Message-ID: <199603310313.WAA54890@osceola.gate.net>
Rendered body type: text/plain

Try $GPRMC instead of $GPGGA.

I have a Garmin GPS-50 and it does not have GGA but it has RMC. This may be ther
problem, but again the GPS-45 is much newer and may use GGA make sure you have
one or the other using the GPS connected to a terminal program to read the
output.

If I remember correctly all the Garmins have $GPRMC and not GGA. RMC is better I
feel since it will give you a course bearing while GGA does not. You got it, use
it! many others with Magellan's do not have RMC and wish they had!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

883. Re: [APRSSIG:8031] KPC-3 (6.0) Garmin 45..problem

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 30 Mar 1996 22:28:44 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad83b3e45aa4@[199.1.11.114]>
Rendered body type: text/plain

```
>I have been attempting for about 20 hours (it seems) to get my KPC-3 and
>Garmin 45 to work as a stand alone tracker...(I've previously had a
>successful Magellan/DRSI tracker)
>
>
>so not to prolong the agony the following settings are made:
>ABAUD 4800
>GPSHEAD 1 $GPGGA
>LTP 1 SPCL via RELAY,RELAY,KB1xxx,WIDE
>BLT 1 E 00:02:10
>LEDS OFF
>BT {1}
>DIGI ON
>UNPROTO APRS VIA RELAY,RELAY,W1xxx
>INTFACE GPS
>RESET
>(power off  then on with the computer disconnected)
>
>==COULD SOMEONE PLEASE TELL ME WHERE I'VE BEEN A BAD BOY?==
>
```

Is it transmitting at all ?? will it xmit if you manually put data into the
LT buffer ??

ONE:

Is the Garmin-45 I/O setting set to
NONE/NMEA   or NMEA/NMEA
NMEA 0183 2.0   4800 Baud

TWO:
Does a volt meter on the TNC RS-232 input pin and ground Wiggle.
the GPS xmit may go to the wrong TNC pin.

------------- some hints ----------------------

I would do both RMC(speed, direction and position) and GGA (alt and position)

```
GPSHEAD
1 $GPGGA
2 $GPRMC

BLT
1 EVERY 00:01:10
2 EVERY 00:00:30

LTP
1 APRS VIA RELAY
2 APRS VIA RELAY
```

You need APRS in the string so most APRS software can see you.

Re-connect to the computer and Check the LT buffer to see
what the TNC saw from the GPS

Watch out for any extra spaces in the GPSHEAD statement as that is what
the TNC will trigger on.

------ Operations hints -----------------
you might try the Software CD setting.
CD SOFTWARE   so that local QRM will not put the TNC on hold.

Also turn off connections or you will get constant NMEA data flooding
if someone connects to the tracker callsign. This is not a problem with the REMOTE SYSOP connection.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

884. RE: Dayton symbol

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sat, 30 Mar 1996 23:41:31 -0500
To: APRS dicussion group <aprssig@tapr.org>
Cc: Bob Bruninga <bruninga@nadn.navy.mil>
Message-ID: <315E0CFB.7991@cyberenet.net>
Rendered body type: text/plain

While the dicussion of a symbol has been light and entertaining, there
is a REAL need for a symbol for manpack operations of APRS.

With the comming of the MIM module and I'm sure to follow soon will be
other configurations small enough to allow truely portable operation, a
manpack symbol request [I think] is not out of line. Unless I'm mistaken
there is now no such symbol.

My vision of the symbol would be a simple stickman (my favorite is the
old stickman logo of "The Saint" TV series, but something along that
line would be nice as it would not take up much real estate onscreen.

Am I wrong? Do we presently have such a symbol?

73...Bob

http://www.cyberenet.net/~n2iph/bob.htm

n2iph@w2hob

---

885. Re: [APRSSIG:8027] New Federal statement on GPS SA status.

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sun, 31 Mar 1996 01:04:52 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4b13.16.19960331010455.2bafa4f2@mailhost.primenet.com>
Rendered body type: text/plain

At 04:48 PM 3/30/96 -0600, Claude 995-5040 pager 4541 wrote:
>
>Also wonder why Gore thinks this will generate an $8 billion industry in four
>years if the new plan MAY keep SA around for 10 years?
>
>'Tis a puzzlement!
>
> 73 Claude Head
>   K5DTN

I agree, it seems that many aren't paying much attention, even on the alt.satellite.geo.nav usegroup. Most are still under the impression that SA will be shut off this May. But that is only the deadline for the military to submit a reason as to why they shouldn't shut it off. And they've met that deadline saying they need FOUR TO TEN YEARS to implement a plan to set up a system of "selective denial" that military GPS receivers can overcome.

I listened to Gore's press conference on NPR, and they even stated that they have NO system or even a clue as to how they're going to implement selective denial. A RAND spokesman said it may involve jamming or spoofing the GPS signals from space with a more powerful terrestrial signal (not hard to do), but they haven't even begun to figure out how military receivers will overcome this.

BTW, I heard Garmin stock went way up Friday.

Good call, Claude, I'm glad someone else is paying attention, too.

73,

Mark Fellhauer - KC7BXS

886. Re: [APRSSIG:8034] Re: KPC-3 (6.0) Garmin 45..problem

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 31 Mar 1996 03:09:20 -0800
To: aprssig@tapr.org
Message-ID: <315E67E0.4CF5@hiwaay.net>
Rendered body type: text/plain

n2czf@gate.net wrote:
>

> many others with Magellan's do not have RMC and wish they had!
>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida
>
> You are so wrong!. I have a magellan and it has the follwoing strings.

BWC,APA,GLL,VTG,RMC,RMB,BWC,APB,GGA.

Bill KE4EER

887. MapMaking

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 31 Mar 1996 04:04:47 -0800
To: aprssig@tapr.org
Message-ID: <315E74DF.74CF@hiwaay.net>
Rendered body type: text/plain

Bob is there any way to add a feature so when using Mapfix18.exe to allow for printing and or saving the Lan/Lon of the upper left box to a file, or at least the current cursor position by hitting a combination of keys. Right now i go trough more paperwork writing down the Lan/Lot from a gridmap then it takes to make the actual series of maps. Would also be great if the files it saves would be incremented starting at #1. I know your upto MAPFIX23, but maybe it could be added to 18 also. By the way i have received a couple of messages saying Mapfix23 with the new command structure is just to involved and hard to use ;-).

Bill KE4EER

888. GPS Sentences

From: Miami Network <0004818186@mcimail.com>
Date: Sun, 31 Mar 96 06:26 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <34960331112643/0004818186NA2EM@MCIMAIL.COM>
Rendered body type: text/plain

Where can I find an explanation of all the outputs that are
sent like $GPRMC, GGA and their meaning?

73, Seymour
Miaminet@mcimail.com

889. Re: [APRSSIG:8016] Dayton Symbol

From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Date: Sun, 31 Mar 1996 06:43:12 -0600
To: aprssig@tapr.org
Message-ID: <9603311243.AA27162@omnifest.uwm.edu>
Rendered body type: text/plain

```
Maybe the Dayton symbol should be a flaming credit card
        or perhaps $ with wings....
Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu
```

---

890. Please help

From: Stephan Sykes <ssykes@ns2.emirates.net.ae>
Date: Sun, 31 Mar 1996 18:27:54 +-400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB1F2F.CE60E080@csb067.emirates.net.ae>
Rendered body type: text/plain

```
Please help me to unsubscribe.  I am registered as ssykes@emirates.net.ae in the aprssig.  The server
here in Abu Dhabi has added a post office box since  I subscribed.  My address is now
ssykes@ns2.emirates.net.ae  The tapr server will not let me unsubscribe.  I have been trying for several
 days with no luck.
Please help
Thank you
Steve Sykes
```

---

891. Re: [APRSSIG:8042] Please help

From: Dave Kaplan <dkaplan@pionet.net>
Date: Sat, 30 Mar 1996 11:04:20 -0600
To: aprssig@tapr.org
Message-ID: <9603301704.AA07597@ELWOOD.pionet.net>
Rendered body type: text/plain

```
At 08:48 AM 3/31/96 -0600, you wrote:
>Please help me to unsubscribe. ssykes@emirates.net.ae in the aprssig.

>My address is now ssykes@ns2.emirates.net.ae  The tapr server will not let
me unsubscribe.
> I have been trying for several days with no luck.
>Please help
>Thank you
>Steve Sykes


DONE!  (I think)  Dave
```

---

892. Re: [APRSSIG:8041] Re: Dayton Symbol

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 31 Mar 96 12:04:49 -0500
To: <aprssig@tapr.org>
Message-ID: <199603311702.MAA20371@newworld.bridge.net>
Rendered body type: text/plain

```
There has been way to much discussion on this topic. No matter what,
there will never be enough time for the Sprouls and Bob to keep up with
the request for new icons, nor will there ever be enough characters. I
have a new proposal though...

Assign one of the current characters to be a custom icon...and follow it
with two additional characters which give a unique icon 'address'. The
addresses and icons themselves would be administered by a designated
party, When someone wants a custom icon, they submit it to the 'icon
coordinator', who adds it to the official icon file and assigns it the
two character address. When displayed without the custom icon in the icon
file it would show up as a generic icon, but if the icon is present it
shows the custom icon.

To work, we first need to hear from Bob and the Sprouls as to whether
this is possible, whether it is worth their effort, and have them decide
on the appropriate format for exchanging the data.

Yes, this would be a lot of work for them, but if done it would cut the
amount of traffic in this sig in half...think of the savings in man-hours
;-)

73 de Steve

KO4HD
```

893. Re: [APRSSIG:8037] Re: New Federal statement on GPS SA status.

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 31 Mar 96 12:11:42 -0500
To: <aprssig@tapr.org>
Message-ID: <199603311709.MAA20762@newworld.bridge.net>
Rendered body type: text/plain

```
>>Also wonder why Gore thinks this will generate an $8 billion industry in
four
>>years if the new plan MAY keep SA around for 10 years?
>>
>>'Tis a puzzlement!
>>
>>  73  Claude Head
>>      K5DTN

Actually, the extra income is not being projected due to loss of SA. The
more significant announcements were that 1. GPS would be free in
perpetuity for end users, and 2. GPS would be freely available to all
areas of the world.

There had be talk of requiring a royalty for every GPS sold to pay for
upkeep of the system, which would have raised prices and slowed sales.
The gov't has also until now reserved the right to turn UP SA or even
turn civilian access completely off over other areas of the world. This
has slowed the acceptance of GPS outside the US. The committment to GPS
support will also stimulate US acceptance of the system. These reasons
are why Garmin's stock went up.

Steve KO4HD
```

894. Re: [APRSSIG:8042] Please help

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 31 Mar 1996 11:12:13 -0800
To: aprssig@tapr.org
Message-ID: <315ED90D.42C4@hiwaay.net>
Rendered body type: text/plain

```
Stephan Sykes wrote:
>
> Please help me to unsubscribe.  I am registered as ssykes@emirates.net.ae in the aprssig.  The server
here in Abu Dhabi has added a post office box since  I
su
> Please help
> Thank you
> Steve Sykes---------------------

Steve go to the web page listed below it's easy there.

http://www.tapr.org/tapr/html/sigs.html#listserv

Hope this will do it for you.
Bill KE4EER
```

895. Windows version PC-DSP

From: "James R. Kauten, M.D." <kauten@mindspring.com>
Date: Sun, 31 Mar 1996 12:32:28 -0500
To: aprssig@tapr.org
Message-ID: <199603311734.MAA25453@borg.mindspring.com>
Rendered body type: text/plain

```
Enclosed is the order form for Windows version of  PC-DSP. The mailing
address, etc. is:

DSP Solutions                           e-mail: pcdsp@minuet.siue.edu
P.O.Box 341                                     DspSol@aol.com
Glen Carbon, IL 62034

I like the DOS version which works well with Win95, but may give the Windows
version a try.

73, Jim Kauten, MD, KO4RQ
```

[Attachment: ORDER.TXT; text/plain; 2,076 bytes]

896. [APRSSIG:8038] Re: KPC-3 (6.0) Garmin 45..KE4EER

From: n2czf@gate.net
Date: Sun, 31 Mar 1996 15:18:54 -0500

To: aprssig@tapr.org
Message-ID: <199603312018.PAA18398@osceola.gate.net>
Rendered body type: text/plain

```
> many others with Magellan's do not have RMC and wish they had!
>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida


KE4EER says...
> You are so wrong!. I have a magellan and it has the follwoing strings.

>BWC,APA,GLL,VTG,RMC,RMB,BWC,APB,GGA.

>Bill KE4EER

Dear Mr. Know it all,

Will you please get off your high horse and start reading instead of ranting! I
said many others with Magellans wish they had RMC, I did not say that ALL
MAGELLANS did not, I was saying that many other Magellan users do not have the
RMC statement. I own a Garmin but use 2 Magellans at work and have that problem
myself.

Sorry Bill I stood up for you on a few occasions, then I just sat back and
stayed silent as I noticed you going down hill and took no sides. Your comment
was uncalled for and shows your narrow mindedness, I guess I got to agree with
some of the others as to what you really are. Out of courtesy to my "Elders" I
will refrain from telling you what I am thinking now!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida
```

---

897. Re: [APRSSIG:8037] Re: New Federal statement on GPS SA status.

From: "John W.(Bill) Hays" <billh@netins.net>
Date: Sun, 31 Mar 1996 17:05:08 +0000
To: aprssig@tapr.org
Message-ID: <315EBB44.4490@netins.net>
Rendered body type: text/plain

```
Mark Fellhauer wrote:
>
> At 04:48 PM 3/30/96 -0600, Claude 995-5040 pager 4541 wrote:
> >
> >Also wonder why Gore thinks this will generate an $8 billion industry in four
> >years if the new plan MAY keep SA around for 10 years?
> >
> >'Tis a puzzlement!
> >
> >  73  Claude Head
> >      K5DTN
>
> I agree, it seems that many aren't paying much attention, even on the
> alt.satellite.geo.nav usegroup.  Most are still under the impression that SA
> will be shut off this May.  But that is only the deadline for the military
> to submit a reason as to why they shouldn't shut it off.  And they've met
> that deadline saying they need FOUR TO TEN YEARS to implement a plan to set
> up a system of "selective denial" that military GPS receivers can overcome.
>
> I listened to Gore's press conference on NPR, and they even stated that they
> have NO system or even a clue as to how they're going to implement selective
> denial.  A RAND spokesman said it may involve jamming or spoofing the GPS
> signals from space with a more powerful terrestrial signal (not hard to do),
> but they haven't even begun to figure out how military receivers will
> overcome this.
>
> BTW, I heard Garmin stock went way up Friday.
>
> Good call, Claude, I'm glad someone else is paying attention, too.
>
> 73,
>
> Mark Fellhauer - KC7BXS
LEST WE FORGET....IT'S AN ELECTION YEAR!!!!!!!
Bill Hays - W0OMV
```

898. Re: [APRSSIG:8047] Windows version PC-DSP

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 31 Mar 1996 15:48:32 -0600
To: aprssig@tapr.org
Message-ID: <v02130500ad84aab8934c@[199.1.11.105]>
Rendered body type: text/plain

This looks like a leak from a current topic in the the TAPR DSP-93 sig.

I post this so Bill will be able to sleep nights.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

899. How to put it all together?

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 31 Mar 1996 16:15:15 -0600
To: aprssig@tapr.org
Message-ID: <199603312215.QAA04036@misha.net>
Rendered body type: text/plain

This past weekend, I bought a Kantronics HSP cable to utilize with my
ICOM 2000H, KPC-3, and Garmin 45 GPS.

First question:
    the HSP cable has 3 wires, red,black, and shield. The GArmin 45 has 4
wires, red +voltage,black ground, brown serial data out, and white serial
data in. I'm not any good at all at reading schematics. But If I interpret
what I'm seeing, it shows:
 NMEA- going to DB25 pin7 and other end J7 GND
 NEMA+ going to db25 switch/diode(?) to DB25 pin 2 & 4 and other end J3 RxD
     I opened the DB25 that the wires all seemed to go into. I could see the
HSP black and shield apearently going to a connection marked 7, but the red
appeared to go to a connection marked 20.

   So what do the HSP 3 wires connect to?

Second question:
  OK, assume I got the cables correct.

  What text/commands to I input to the KPC-3, Laptop (single DB-9 serial
port), APRS software (DOS/WINDOWS), or Garmin do that I get the APRS system
to not only becon/track my position, but that I could still use the APRS as
normal?

    I was told the HSP cable would allow this. In other words, I want to use
all of it together, all the time. Not just the GPS to beacon my position, or
to use the computer with APRS. All as a single integrated system.

  I haven't found a procedure yet to simply spell this procedure out. I've
been told it can be done. I needed to above to do it. Well, I got the stuff,
now what?

Thanks in advance,

Roger Sellers
KB9LBU

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

---

900. Failure of KPC-3 (6.0) ?

From: warakois@world.std.com (James A Warakois)
Date: Sun, 31 Mar 1996 19:09:49 -0500
To: aprssig@tapr.org
Message-ID: <199604010009.AA08044@world.std.com>
Rendered body type: text/plain

Thanks to the few enthusiasts who sent me their setup configuration for the
KPC-3 and Garmin-45...I have tried each of them. Though there was very
little difference..I also searched the Readme files again and Scanned back
over 6 months of APRSSig digests..

(I say this for KE4EER's benefit)

I have decided that there is a bug in the firmware in my KPC-3 (early copy of version 6.0)

My question: Can anyone else confirm that there have been bugs in the early KPC-3 (6.0)'s?

I seem to remember some conversation about it. But, for the life of me, I can't find it.

Jim (very frustrated)

Jim Warakois   Map Maker
W1KRU   DF'er

warakois@world.std.com
W1KRU@KA1TUZ.EMA.MA.NA

---

901. Re: [APRSSIG:8031] KPC-3 (6.0) Garmin 45..problem

From: Mike Walker <mwalker@interlog.com>
Date: Sun, 31 Mar 1996 19:30:09 EST
To: aprssig@tapr.org
Message-ID: <199604010030.TAA24309@gold.interlog.com>
Rendered body type: text/plain

** Reply to note from warakois@world.std.com 03/30/96 7:15pm -0600

> I have been attempting for about 20 hours (it seems) to get my KPC-3 and
> Garmin 45 to work as a stand alone tracker...(I've previously had a
> successful Magellan/DRSI tracker)
>
> I have made the following settings on the KPC-3 with no results (the KPC-3
> works fine in all other ways.
>
> so not to prolong the agony the following settings are made:
> ABAUD 4800
> GPSHEAD 1 $GPGGA
> LTP 1 SPCL via RELAY,RELAY,KB1xxx,WIDE
> BLT 1 E 00:02:10
> LEDS OFF
> BT {1}
> DIGI ON
> UNPROTO APRS VIA RELAY,RELAY,W1xxx
> INTFACE GPS
> RESET
> (power off then on with the computer disconnected)
>
> ==COULD SOMEONE PLEASE TELL ME WHERE I'VE BEEN A BAD BOY?==
>
>

Hi Jim,

I noticed that you had SPCL v .....

Should this not be APRS v ... ??

cheers...mike

Mike Walker   VA3MW
mwalker@interlog.com

---

902. Re: [APRSSIG:7980] K-Net digi?

From: Mike Walker <mwalker@interlog.com>
Date: Sun, 31 Mar 1996 19:30:07 EST
To: aprssig@tapr.org
Message-ID: <199604010030.TAA24302@gold.interlog.com>
Rendered body type: text/plain

** Reply to note from Bruce W. Martin <martinbw@telalink.net> 03/29/96 07:32am -0600
Hi Bruce,
I have a KPC-9612 running the net rom now and it seems to work fine. I haven't set it up for an APRS digi yet, so I haven't checked out all the aliases.

It isn't an expensive upgrade, so give it a try

> --part_AD8142550112B13D00000006
> Content-Type: Text/Plain; charset=US-ASCII
> Content-Disposition: Inline
>
> I saw that Kantronics now hase ROM version 6.0N for the KPC-3 and KPC-9612.
> This is supposed to give the KPC all the advantages of a TheNET node without

```
> giving up any of the regular TNC feature (Like long unproto paths). Has
> anybody seen/used this in a digi yet? I am considering this option in the next
> digi I put up and if it works well may retrofit my existing digi(s).
>
> 73, Bruce
>
>
> --part_AD8142550112B13D00000006


Mike Walker   VA3MW
mwalker@interlog.com
```

903. Re: [APRSSIG:8002] Re: Map Making Problem?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 31 Mar 1996 20:19:58 +4200 (CST)
To: aprssig@tapr.org
Message-ID: <199604010219.UAA08916@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
I've seen persistent scrunch failure, too.  I figured it was something I was
doing wrong.  I no longer scrunch, ever!

gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
*****************************************************************************
```

904. Re: [APRSSIG:8033] Reading the baro pressure with U-2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 31 Mar 1996 21:23:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960331212052.27314F-100000@greatlakes>
Rendered body type: text/plain

```
On Sat, 30 Mar 1996, David G. Henderson wrote:

>
> This is the explaination in WX.TXT file:
> 1420z876/36/45       Time,1420. Pressure 987.6. Wind 36 gusts 45
>
> But on N3HPR's U-2000 (now working with 75a) transmissions, he
> transmits B018 and his display says 1018 MB.  No decimal.

WB4APR REPLY COMMENT:  Thanks for the REPORT.  THere was so much
discussion about baro back when keith and I were doing it, that I could
never remember what we did.  I did recently confirm that APRS IGNORES the
tenths ......  Ill need to fix the docs...
```

905. Re: [APRSSIG:8044] Re: Dayton Symbol

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 31 Mar 1996 21:48:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960331214617.27491A-100000@greatlakes>
Rendered body type: text/plain

```
Concerning ICONS.  Sprouls and I are talking, there will be room to add
more ICONS... We are not in any rush to do so, we have enough to do, but
the inputs are more or less welcome.  But dont expect us to comment on
em.  If we like em, we'll do'em sooner or later...  I accept the MAN...
er... humanoid..
```

906. Re: [APRSSIG:8037] Re: New Federal statement on GPS SA status.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 31 Mar 1996 20:53:51 +4200 (CST)
To: aprssig@tapr.org
Message-ID: <199604010253.UAA09252@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Mark Fellhauer sez:
>
> I agree, it seems that many aren't paying much attention, even on the
> alt.satellite.geo.nav usegroup.  Most are still under the impression that SA
> will be shut off this May.  But that is only the deadline for the military
> to submit a reason as to why they shouldn't shut it off.  And they've met
> that deadline saying they need FOUR TO TEN YEARS to implement a plan to set
```

> up a system of "selective denial" that military GPS receivers can overcome.
>
> I listened to Gore's press conference on NPR, and they even stated that they have NO system or even a clue as to how they're going to implement selective denial. A RAND spokesman said it may involve jamming or spoofing the GPS signals from space with a more powerful terrestrial signal (not hard to do), but they haven't even begun to figure out how military receivers will overcome this.

Color me unsurprised. I read the line item in the DoD appropriation that mandates removal of SA, and found it so wide open as to be a non-contender for rational thought. Or, in other words, typical Congress...

SA "replacements" such as Area of Battle selective jamming and spoofing are being investigated. I've been so told by reliable sources, and seen some evidence of it when looking at PRN health on selected birds when they were pretty much overhead White Sands, and some areas in Arizona. I suspect there's more going on than meets the eye.

This has remained a consideration of DoD since commercial units became widely available. That they cannot stop the flood of non-DoD use makes their job somewhat harder and definately more expensive, especially since now they much accommodate a full set of civilian users on both L1 and L2, rather than simply giving a Caveat Emtor warning.

73, gerry
n5jxs@tamu.edu

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907. Re: [APRSSIG:8038] Re: KPC-3 (6.0) Garmin 45..problem

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 31 Mar 1996 20:56:32 +4200 (CST)
To: aprssig@tapr.org
Message-ID: <199604010256.UAA09271@vanilla.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:
>
> n2czf@gate.net wrote:
> >
>
> > many others with Magellan's do not have RMC and wish they had!
> >
> > You are so wrong!. I have a magellan and it has the follwoing strings.
>
> BWC,APA,GLL,VTG,RMC,RMB,BWC,APB,GGA.
>
> Bill KE4EER

Their newest, $149 entry did not even have a serial port last time I looked. Or did they add that by popular demand? Magellan has had a grim history with the GPS industry, although they seem to have gotten their act together a bit better with the consumer market. I'll remain skeptical of them until they're willing to sign a statement assuring me they have complied with ICD-GPS-200 completely in the L1 domain.

73, gerry
n5jxs@tamu.edu

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908. Re: [APRSSIG:8048] Re: KPC-3 (6.0) Garmin 45..KE4EER

From: William Nolle <ke4eer@hiwaay.net>
Date: Sun, 31 Mar 1996 21:08:08 -0800
To: aprssig@tapr.org
Message-ID: <315F64B8.3FF9@hiwaay.net>
Rendered body type: text/plain

n2czf@gate.net wrote:
>
> > many others with Magellan's do not have RMC and wish they had!
> >
> > 73's De Rich N2CZF
> > n2czf@gate.net
> > Jupiter Farms Florida
>
> KE4EER says...
> > You are so wrong!. I have a magellan and it has the follwoing strings.
>
> >BWC,APA,GLL,VTG,RMC,RMB,BWC,APB,GGA.
>
> >Bill KE4EER

```
>
> Dear Mr. Know it all,
>
> Will you please get off your high horse and start reading instead of ranting! I
> said many others with Magellans wish they had RMC, I did not say that ALL
> MAGELLANS did not, I was saying that many other Magellan users do not have the
> RMC statement. I own a Garmin but use 2 Magellans at work and have that problem
> myself.
>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida
>
> Wow aren't we getting hostile again over nothing, it sounds like you need to do
a lot of growing up Rich. I just made that statement because i tought it was
missleading and all new users to the sig would take it just as you wrote it that
magellans do not have those GPS strings BUT WISH THEY HAD. I don't know how you
look at that but that's the way i'm reading it. I didn't mean it to be hostile
and if you take it that way then i'm sorry and i feel realy sorry for you that a
little thing like that can get you so upset. Lets just drop it now ok.

Bill KE4EER
```

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909. TAPR GPS Purchase (Announcement)

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 31 Mar 1996 21:22:02 +4200 (CST)
To: aprssig@tapr.org (APRS SIG), tapr-bb@tapr.org (TAPR-BB mailing)
Message-ID: <199604010322.VAA14495@tapr.org>
Rendered body type: text/plain

```
TAPR offers group GPS purchase                        4/1/96
------------------------------------------------------------

TAPR working with Bob Bruninga, WB4APR, will be making a group purchase on
Garmin 20 GPS units.

For full details on the purchase as well as information regarding the unit,
please see the following web page http://www.tapr.org/gps

The price will be:
   $165.00 US for members of TAPR
       or
   $175.00 US for non-members

This kit will include:
     * Garmin GPS-20 (MultiTrac8 sensor) engine (1.83" x 2.74" x .45")
          The Garmin GPS-20 is similar to the Garmin GPS-45

     * RF pig tail with connector for unit
         (one end is the MCX male connector
            and the other end will be non-connected - see below)

     * power/data cable with connector shell and pins
         (The connector is a subminiature PCB edge connector
          and will need to be built - see below)

     * Documentation

TAPR will be taking orders for 50 units, which is the minimum purchase.
Once 50 units have been purchased TAPR will order the Garmin units.
TAPR will deposit money when the units are ordered from Garmin and ship
when the units arrive from Garmin.  It is expected that the demand will
be high, thus a short period should be required to receive the 50 orders.

Please note:  This is not an enclosed/sealed unit.  It is assumed that
the purchasers will be installing the unit in another enclosure for normal
and experimental operations.

No 10% Discount for TAPR Members.  Due to the nature of the purchase,
the $165 purchase price for TAPR members represents the membership
discount.

If you would like to order one of these units, you can
      e-mail tapr@tapr.org,
      phone (817) 383-0000, or
      fax (817) 566-2544.

      Office Hours: Tuesday - Friday 9am - 12pm, 3pm - 5pm Central Time
```

These units will be useful with current APRS software and the upcoming TAC (Totally Accurate Clock) kit that Tom Clark, W3IWI, has begun discussing with TAPR to do as a kit in the future. For more on the TAC project check: ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/

Questions concerning the unit and details on the buy will be handled on the TAPR APRS Special Interest Group list. To subscribe,
send e-mail to:
listserv@tapr.org.
In the message type
subscribe aprssig YourFirstName YourLastName.
The server will then send you a message back. Announcements on the status of the shipment will be made to the TAPR APRS SIG and TAPR-BB lists.

Shipping and Handling

- Shipping and Handling within the US will be $7.00 US by UPS Ground unless otherwise requested by purchaser.

- International Shipping will need to contact the TAPR office and get a quote on the shipping to your country. TAPR uses International Express Mail, unless the purchaser requires something else.

General Information

All Garmin engines come complete with DGPS input capability (see note below), PPS timing output and lithium 3V battery on board.

MultiTrac8: Tracks and uses up to 8 satellites for accurate, reliable GPS data at an incredibly low 1 watt power consumption. Unit has and a real time clock, PPS timing and nonvolatile memory right on the board.

Footprint (1.83" x 2.74" x .45")

Architecture	Patented MultiTrac8
Time to first fix	
reacquisition	< 2 sec
warm	20 sec
cold	2 min
sky search	15 min
update rate	1 sec continuous
Dynamics	
velocity	999 knots
acceleration	3 g
jerk	20 m/s^3
Datums	102 predefined, 1 user defined
Electrical	
input voltage	5.0V DC +- 5% regulated (a suitable regulator should be used)
power consumption	0.8 watts
backup	on board 3V lithium (10 year lifetime)
sensitivity	-166 dBW
Connector	
antenna	50 ohm MCX female connector for active (5V DC @ 15ma) or passive antenna
power/data	single row, right angle 12 pin male
Physical	
configuration	1 integrated board engine
size	1.83"W X 2.75"L X 0.45"H
weight	1.1 oz
op temp	-30 deg C - 80 deg C (remove Li battery for extended usage above 80 deg C)
storage temp	-40 deg C - 85 deg C
Interface	
compatibility	2 RS-232 serial ports
data rate	User selectable baud rate 1200/2400(tx only)/4800/9600
format	NMEA 0183 v.2.0, ASCII
inputs	Initial position, date and time (not required), 2D/3D & earth datum command,

```
                          RTCM-104 v.2.0 differential
     outputs            Position, velocity & time, receiver and
                          satellite stautus, geometry and error estimates
     timing output      Timing output with +- 1 microsecond accuracy



Frequently Asked Questions
--------------------------

* Any altitude limitations?
  The GPS engines will deactivate themselves above 50,000 feet.

* The Garmins only send out final solutions (NMEA sentences).
  There is no other data available from them (including preprocessing data).

* The Multitrak8 has only one channel, but is multiplexed.

* The Multitrak8 can accept DGPS signals (see note below).

* Antenna options (which can be purchased directly from Garmin if required)
  include:
       - mag mount
       - flange mount (bolt to a car)
       - trunk clip
       - suction cup mounted

* The unit has true time clocks, PPS timing, and nonvolatile memory
  on board.

* The interface is NMEA 0183 (TTL levels) and RS232 (+ and - 15 volts)

* The unit can be powered by AA batteries.
  Batteries or external supplies will require a suitable power regulator.

* The unit only gives NMEA sentences as output, no extraction
  of RTCM-104 data.

* There's no problem with the antenna being close to the boards.
  All sensitive components are shielded.

* The unit has a LNAs and you can use passive antennas.
  You need to keep the antenna runs short however.

* The antenna is attached with a MCX connector, which is a friction
  lock connector.  A male MCX connector with short RF cable is included
  in the kit purchase.

* There's a header for connecting the data cables.
  A connector and cable will be included in the kit (it will need
  to be soldered).  The connector is a subminiature PCB edge connector.
  This is not the same connector as used with many hand-held units.

* You cannot adjust the intervals that the boards outputs data.
  However, you can adjust their baud rate.  At 4800 the boards repeat
  data every 2 seconds. At 9600 baud, data is repeated every 1 second.

* The boards do adjust for leap seconds (via the satellites).

* For DGPS, since these are just the boards, you can't use the Garmin DGPS
  receivers.  The Garmin units get tuning instructions from the GPS keyboard

  (which are not on the boards).  To receive DGPS signals, you'll need a
  tunable beacon receiver.  Correction signals are sent in through the
  data in cable (just like the handhelds).

-----------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
-----------------------------------------------------------------------
e-mail: TAPR@TAPR.ORG  ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
-----------------------------------------------------------------------
```

910. Amiga APRS?

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 31 Mar 1996 23:04:19
To: APRSSIG@tapr.org
Message-ID: <199604010405.XAA14164@mail-e2b-service.gnn.com>

Rendered body type: text/plain

Here's another one from the PBBS. I'm not sure, but think he's
out of luck unless he gets a PC or MAC. Can somebody help him?

```
_______________________________________________________________
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

MSG # TR  SIZE TO     FROM   @BBS   DATE    TITLE
 7880 B$  1652 AMIGA  KB8QZQ ALLUSA 960331 APRS Software??
Forwarding path: WA2JVM WA2SNA N2ERH N2QAE N2OCW N3BUB N3JNZ
KB2ITR N0RSE KT0H N0QCU WB0TAX KD4IDR KA6EYH WB8BII WA8WNI
K8QIK


Hi All,
   Everyone in this area is getting into APRS and here I sit
with an Amiga and can't seem to find APRS software for it any-
place.  Does anyone out there know where I could buy, beg,
borrow or steal APRS software that would run on Ami Dos 1.3???
If anyone does, I would really appreciate a reply either here
on packet, or I am good in the Callbook.  Thanks millions & 73

      Dan ---------> KB8QZQ @ K8QIK.#SEOH.OH.USA.NO

*** END OF MSG # 7880 from KB8QZQ @ K8QIK.#SEOH.OH.USA.NA

_______________________________________________________________
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Reply to the PBBS address above. Thanks de

Arte Booten <N2ZRC@gnn.com> or <N2ZRC@aol.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

911. Re: [APRSSIG:8052] Failure of KPC-3 (6.0) ?

From: Mike Walker <mwalker@interlog.com>
Date: Sun, 31 Mar 1996 23:09:40 EST
To: aprssig@tapr.org
Message-ID: <199604010409.XAA09825@gold.interlog.com>
Rendered body type: text/plain

** Reply to note from warakois@world.std.com 03/31/96 6:22pm -0600

> Thanks to the few enthusiasts who sent me their setup configuration for the
> KPC-3 and Garmin-45...I have tried each of them. Though there was very
> little difference..I also searched the Readme files again and Scanned back
> over 6 months of APRSSig digests..
>
> (I say this for KE4EER's benefit)
>
> I have decided that there is a bug in the firmware in my KPC-3 (early copy
> of version 6.0)
>
> My question: Can anyone else confirm that there have been bugs in the early
> KPC-3 (6.0)'s?
>
> I seem to remember some conversation about it. But, for the life of me, I
> can't find it.
>
> Jim (very frustrated)
>
>

Hi Jim,
I am an amateur dealer, and I don't remember Kantronics informing us of a
problem with v6.0 software. I have one running at this time, and if you like, I
will remotely connect to it and copy my DISP G, so you can see it. I had
another look, and you don't require the last command, RESET. It will restart in
GPS mode as soon as you power it up. Does the TNC every go into transmit? If
so, can you see the packet frames being sent (you will need to watch from
another TNC).

Also, on the Garmin 45, make sure that you have selected NMEA data output (v1.5
is good enough). We have found that if you place the Garmin 45 into test mode,
than it will reset the data output format. Lastly, make sure that the data
output wire from the Garmin 45 is wired to the Receive data line on the DB25
connector (I don't have my manuals handy, but they are clearly marked in the
books).

If you are still having a problem, let me know and we will dig further. You can also watch the data coming from the GPS with a PC and a terminal program.

Hope this helps a bit.

cheers...mike

Mike Walker   VA3MW
mwalker@interlog.com

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□□2eived: from fly.HiWAAY.net (rootMAR.96MTEXTCSOm□□8TEXTCSOm□□□6□st9722 for <aprssig@tapr.org>; Fri, 29
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Received: from max7-162.HiWAAY.net by fly.HiWAAY.net; (5.65v3.0□□□□□□4MAR.96
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□?□8:39 AM 3/1/9608:41 1996□\□□□□□□Bob Bruningan.navy.mil Re: [APRSSIG:7148] NEW APRS DIGI
□S□8:44 AM 3/1/9608:43 1996□\□□□□□□Bob Bruningan.navy.mil-Re: [APRSSIG:7150] Re: I need more COM Ports!
/□7:16 AM 3/1/96:55:34 1996□\□□□□□
Peter Markhamlssu.edu#Re: [APRSSIG:7151] X1J-4 APRS usage
?□□6:41 AM 3/1/96:55:39 1996□\□□□□□
Peter Markhamlssu.eduRe:Internet access
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#□11:02 AM 3/1/967:47 1996□\□8□□□□rwf@mindspring.comRe: [APRSSIG:7145] PVT-6
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□E6:31 PM 3/1/96:50:48 1996□]GN□□□□Robert Schierst-Re: [APRSSIG:7154] Re: I need more COM Ports!
T~)□5:44 PM 3/1/9644:58 1996□]<S□□□□Arte BootenomRe: Internet access
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William Nolle.netTest message (Again)
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i       T□5:56 PM 3/1/9658:05 1996□]??□□□ ku0g@sprynet.com-Re: [APRSSIG:7165] Re: I need more COM Ports!
n]      □)6:10 PM 3/1/9612:08 1996□]BZ□□□□Mike Tyrrellcompuserve.comMapfix improvements
w□1□8:43 PM 3/1/9642:38 1996□]f?□□□□Bob Bruningan.navy.mil-Re: [APRSSIG:7165] Re: I need more COM Ports!
}□9:24 PM 3/1/9625:40 1996□]o□□□□ ku0g@sprynet.com&Re: [APRSSIG:7166] Re: Internet access
□#,□9:29 PM 3/1/9628:47 1996□]q□□□□Bob Bruningan.navy.mil&Re: [APRSSIG:7170] Mapfix improvements
□O□□10:39 PM 3/1/963:04 1996□]□□□□□□William Richarzcom.com      MFJ XTALS
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□               56:19 AM 3/2/9619:10 1996□]□G□□□□David E. Barrettdar-rapids.lib.ia.us/Re: [APRSSIG:7152]
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□□□□3:34 AM 3/2/9634:51 1996□]□□□□Bill KE4EERay.net&Re: [APRSSIG:7176] Bill's moved AGAIN!
□□□1:33 PM 3/2/9632:26 1996□^S□□□□
Lew Midlam@pobox.comTAPR ftp site?
□[E□8:44 AM 3/2/9644:34 1996□^I□□ke4eer@hiwaay.net!Re: [APRSSIG:7183] TAPR ftp site?
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□□K□4:39 PM 3/2/9636:32 1996□^~□□□□□Michael Markmannon.mb.ca-Re: [APRSSIG:7181] Re: I need more COM
Ports!
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□v,□5:47 PM 3/2/9648:31 1996□^□□□□□□KD4EMI@aol.comQuestion
□□6:18 PM 3/2/9619:21 1996□^□□□□□ ku0g@sprynet.com-Re: [APRSSIG:7187] Re: I need more COM Ports!
□□-6:27 PM 3/2/9627:34 1996□^□□□□□□
Greg Jonesr.org%Re: [APRSSIG:7189] APRSSIG digest 444
□□7:14 PM 3/2/9614:29 1996□^□□□□□□David E. Barrettdar-rapids.lib.ia.us+Thank's Bob....Wx information as
Standalone
        □
lV10:08 PM 3/2/962:06 1996□^□□□□□□N4QEAs@ibm.net'Re: [APRSSIG:7168] Re: X1J-4 APRS usage
□□10:56 PM 3/2/9647:23 1996□^□□□□□George Salinasy.com&Re: [APRSSIG:7166] Re: Internet access
□□9:22 PM 3/1/9669:53 1996□]oh□□□□wtb@partyline.orgGPS Receiver
□□□12:12 AM 3/3/9613:20 1996□^□□□□□
Peter Markhamlssu.edu&Re: [APRSSIG:7195] Re: Internet access
&□□a7:00 AM 3/3/9603:26 1996□_He□□□ Robert James Harris-Re: [APRSSIG:7165] Re: I need more COM Ports!
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797:39 AM 3/3/9640:49 1996_Q ku0g@sprynet.comOpinions....
>7:42 AM 3/3/9645:06 1996_R?
Kevin Heyboergov.co.pinellas.fl.us!Re: [APRSSIG:7183] TAPR ftp site?
B10:48 AM 3/3/968:49 1996_} AL Z., N3KAEet'Re: [APRSSIG:7194] Re: X1J-4 APRS usage
HJO8:15 AM 3/3/96:16:01 1996_ZJohn B. Leonard.com-Re: [APRSSIG:7198] Re: I need more COM Ports!
[x9:00 AM 3/3/9600:01 1996_d
jack swiftnet!Re: [APRSSIG:7190] Question (S/A)
ch11:30 AM 3/3/960:29 1996_
William Nolle.net&Re: [APRSSIG:7197] Re: Internet access
g6      "11:18 AM 3/3/967:16 1996_Ozzie N4SCYal.net&Re: [APRSSIG:7197] Re: Internet access
pX1:25 PM 3/3/9628:49 1996_William Richarzcom.comCharlotte Hamfest
uf<|3:40 PM 3/3/9639:34 1996_;Bob Bruningan.navy.milAPRS satellite link?
zk910:05 PM 3/3/9639:45 1996`Robert Schierst-Re: [APRSSIG:7198] Re: I need more COM Ports!

|4:56 PM 3/3/9657:56 1996_  ku0g@sprynet.com'Re: [APRSSIG:7207] APRS satellite link?
7:09 PM 3/3/96:09:36 1996_IEdward C. Jacobsennet.netFlaming and Ham etiquette
0
Y7:04 PM 3/3/9632:00 1996_%
Ed  Rogersnil.comRe: [APRSSIG:7199] Opinions....
8:53 PM 3/3/9654:33 1996` ku0g@sprynet.com,Re: [APRSSIG:7210] Flaming and Ham etiquette
z8:58 PM 3/3/9659:20 1996` ku0g@sprynet.com#Re: [APRSSIG:7211] Re: Opinions....
}9:26 PM 3/3/9625:52 1996`UBob Bruningan.navy.milDIGIPEATERS and Torch
*4:29 AM 3/4/9608:13 1996`v Scott Millera.net'Re: [APRSSIG:7201] Re: X1J-4 APRS usage
-8:25 AM 3/4/9626:01 1996`Wb2ngz@aol.comN4NEQ-9

E10:14 AM 3/4/964:36 1996`HJAgrelo@aol.com"300 packets senario w/MIM contest.
C^`11:51 AM 3/4/964:46 1996` Robert James Harris-Re: [APRSSIG:7208] Re: I need more COM Ports!
o1:02 PM 3/4/9604:10 1996` ku0g@sprynet.com5Re: [APRSSIG:7217] 300 packets senario w/MIM
contest.
7'2:33 PM 3/4/9632:59 1996aJAgrelo@aol.com9Re: [APRSSIG:7219] Re: 300 packets senario w/MIM
contest.
G<k3:52 PM 3/4/9652:58 1996a
Greg Jonesr.org41996 ARRL and TAPR Digital Communications Conference
k12:52 AM 3/5/968:20 1996a9 AL Z., N3KAEet'Re: [APRSSIG:7215] Re: X1J-4 APRS usage
      "x10:14 PM 3/4/969:02 1996ap5Bob Bruningan.navy.milRe: 300 MIMs (fwd)
E7:45 AM 3/5/9665:51 1996a
Larry Griffinmp.netIgnore this test

8:38 PM 3/4/9666:56 1996aYRichard Amiraulttiac.netProblem with hearing my Digis
f5:44 AM 3/5/9664:13 1996a
jack swiftnet!Downloading the maps from rutgers
M\5:47 AM 3/5/9664:18 1996a\
jack swiftnetCheap Trackers or Digis
Z9:24 PM 3/4/9660:49 1996ad William B. Bliss/WB6LPGSUGGESTED APRS HF FREQS...
%O2:19 PM 3/5/9620:04 1996bRiDavid W. Barrow IIIm.edu#Re: [APRSSIG:7224] Ignore this test
(G2:57 PM 3/5/9657:00 1996b[>Bob Bruningan.navy.mil*Re: [APRSSIG:7227] Cheap Trackers or Digis
-*3:55 PM 3/5/9654:56 1996bhBob Bruningan.navy.milAPRS Packet Simulation Program
2&4:06 PM 3/5/9605:59 1996bkjBob Bruningan.navy.milNautical Chart INTERFACE!
;!1:49 PM 3/5/9644:14 1996bKcdwetzel@uswest.comFrequency Coordination
A45:12 PM 3/5/9613:56 1996bzn2czf@gate.net-Re: [APRSSIG:7228] SUGGESTED APRS HF FREQS...
G5:27 PM 3/5/9628:03 1996b~`KD4EMI@aol.comMIMS etc
LvG5:38 PM 3/5/9639:35 1996bn2czf@gate.net1Re: [APRSSIG:7231] APRS Packet Simulation Program
R5:54 PM 3/5/96:57:32 1996bNorman R. Johnson.comNew Email Address
VQ6:40 PM 3/5/9641:31 1996bg ku0g@sprynet.comN2CZF makes the Big Time!
ZX}6:42 PM 3/5/9643:56 1996b ku0g@sprynet.com)Re: [APRSSIG:7233] Frequency Coordination
^
6:56 PM 3/5/9603:21 1996bZ ttyamada@CCGATE.HAC.COM5Re: [APRSSIG:7217] 300 packets senario w/MIM
contest.
l8:43 PM 3/5/9645:02 1996bn(( William B. Bliss/WB6LPGSUGGESTED APRS HF FREQS...
{9:12 PM 3/5/9611:47 1996bBob Bruningan.navy.milRe: U2000/APRS interface error?
*10:30 PM 3/5/963:18 1996bS
Roger Sellersa.net0RE: [APRSSIG:7225] Problem with hearing my Digis
,10:43 PM 3/5/964:01 1996bRonald C. Barnesnc.net-Re: [APRSSIG:7198] Re: I need more COM Ports!
11:42 PM 3/5/962:58 1996bIBruce W. Martinnk.netMaplist Maker?
!^7:15 AM 3/6/9616:23 1996c@Steve SableetComm trouble 2
77:23 AM 3/6/96:23:44 1996cB8Junseok Leeon.cc.pusan.ac.krconverting map?
7:34 AM 3/6/9636:01 1996cDStan Horzepa@gdc.com$RE: [APRSSIG:7237] New Email Address
D
7:49 AM 3/6/9650:01 1996cHKeith Sproulees.rutgers.eduRE: Converting a map?
!     8:11 AM 3/6/9610:43 1996cMJAgrelo@aol.comRe: [APRSSIG:7235] MIMS etc
'8:15 AM 3/6/9615:34 1996cNJAgrelo@aol.com9Re: [APRSSIG:7240] Re: 300 packets senario w/MIM
contest.
}*Y8:21 AM 3/6/9621:10 1996cORalph R. Swick$Re: [APRSSIG:7237] New Email Address

8:34 AM 3/6/96:34:50 1996cSJohn B. Leonard.com!Re: [APRSSIG:7245] Maplist Maker?
-8:38 AM 3/6/96:38:08 1996cSJohn B. Leonard.com!Re: [APRSSIG:7246] Comm trouble 2

        2:38 AM 3/6/9638:25 1996bske4eer@hiwaay.net!Re: [APRSSIG:7245] Maplist Maker?
8:43 AM 3/6/9642:34 1996cTBob Bruningan.navy.mil!Re: [APRSSIG:7246] Comm trouble 2
10:32 AM 3/6/962:51 1996cndwetzel@uswest.com-Re: [APRSSIG:7239] Re: Frequency Coordination
11:36 AM 3/6/967:57 1996c} ku0g@sprynet.com%Re: [APRSSIG:7255] Re: Maplist Maker?
?11:50 AM 3/6/969:28 1996cBob Bruningan.navy.milFreq Coordination of 145.79
KR12:30 PM 3/6/960:24 1996c9
Gordon Fullerm.com40 Mtr. APRS Activity
1:02 PM 3/6/9604:33 1996c ttyamada@CCGATE.HAC.COM9Re: [APRSSIG:7251] Re: 300 packets senario
w/MIM contest.
#%3:03 PM 3/6/9604:18 1996crwf@mindspring.com(Re: [APRSSIG:7249] RE: Converting a map?
(l4:24 PM 3/6/9625:46 1996c1Paul Gilmorechnet.org
GPS simulator
-e4:33 PM 3/6/9635:08 1996cFn2czf@gate.net,Re: [APRSSIG:7238] N2CZF makes the Big Time!
2t4:47 PM 3/6/9650:22 1996cn2czf@gate.net-Re: [APRSSIG:7239] Re: Frequency Coordination
6W	4:46 PM 3/6/9651:24 1996cCn2czf@gate.net)Re: [APRSSIG:7233] Frequency Coordination
?Z5:00 PM 3/6/9603:17 1996cWilliam Neal,Re: [APRSSIG:7232] Nautical Chart INTERFACE!
E6:14 PM 3/6/9615:43 1996c ku0g@sprynet.com.Re: [APRSSIG:7259] Freq Coordination of 145.79
K9:18 PM 3/6/9620:26 1996d AL Z., N3KAEetIs this possible???
Q7:32 PM 3/6/9632:05 1996c.Bob Bruningan.navy.mil0Re: [APRSSIG:7267] Re: Nautical Chart
INTERFACE!
V8:04 PM 3/6/9603:31 1996cBob Bruningan.navy.mil&Re: [APRSSIG:7269] Is this possible???
^P8:10 PM 3/6/9610:12 1996c"Bob Bruningan.navy.mil&Re: [APRSSIG:7269] Is this possible???
d!x8:31 PM 3/6/9631:04 1996cBob Bruningan.navy.milEME for everyone
p>p9:07 PM 3/6/9607:16 1996dBob Bruningan.navy.milAPRSgate
wEq9:32 PM 3/6/9632:57 1996d   FKD4EMI@aol.com#Re: [APRSSIG:7273] EME for everyone
y+12:13 AM 3/7/9615:29 1996d/Junseok Leeon.cc.pusan.ac.kr!How can I contact Jim Krist KG8GE
|	H6:52 PM 3/6/9662:39 1996cEarl Boatman  KB0NRK(Re: [APRSSIG:7214] DIGIPEATERS and Torch
2E6:10 PM 3/6/9602:13 1996cmark.endicott@nashville.comSource of Cheap Transmitters
w3:15 AM 3/7/9616:12 1996dY
William Nolle.net*Re: [APRSSIG:7272] Re: Is this possible???
5:31 AM 3/7/9635:49 1996dyGwyn Reedy, W1BEL&Re: [APRSSIG:7269] Is this possible???
6:05 AM 3/7/9606:21 1996dsdeang@MAIL.SYNTRON.COMMobile station - VHF
8:11 AM 3/7/9612:37 1996d ku0g@sprynet.com-Re: [APRSSIG:7266] Re: Frequency Coordination
|
B8:17 AM 3/7/9619:06 1996d ku0g@sprynet.com&Re: [APRSSIG:7269] Is this possible???
l8:24 AM 3/7/9626:13 1996d6 ku0g@sprynet.com'Re: [APRSSIG:7275] Re: EME for everyone
*8:51 AM 3/7/9656:23 1996dTruman Boerkoel.com4Re: [APRSSIG:7276] How can I contact Jim Krist
KG8GE
	9:08 AM 3/7/9608:01 1996dbBob Bruningan.navy.mil'Re: [APRSSIG:7275] Re: EME for everyone
 9:32 AM 3/7/9631:57 1996dBob Bruningan.navy.mil,Re: [APRSSIG:7277] Re: DIGIPEATERS and Torch
#9:55 AM 3/7/9655:20 1996dBob Bruningan.navy.mil'Re: [APRSSIG:7281] Mobile station - VHF

10:50 AM 3/7/968:32 1996dBTom Kinahanl1.bytex.network.comBoston area APRS meeting

M12:56 PM 3/1/9643:12 1996\Robert Schierst-Re: [APRSSIG:7150] Re: I need more COM Ports!
L1:11 PM 3/7/9612:58 1996drJohn Munseycenter.comBandpass filters
Vl12:50 PM 3/7/963:14 1996dudeang@MAIL.SYNTRON.COM+Re: [APRSSIG:7288] Re: Mobile station - VHF
g1:37 PM 3/7/9638:28 1996diGerald J CreageruRe: [APRSSIG:7179] Re: SIGPLOT
)1:45 PM 3/7/9646:39 1996d^Gerald J CreageruRe: [APRSSIG:7196] GPS Receiver
1:56 PM 3/7/9613:27 1996dCardwell H Smith@SAS02.usace.army.milOlympic Torch Arrival
	v2:21 PM 3/7/9622:54 1996dGerald J Creageru)Re: [APRSSIG:7233] Frequency Coordination
B2:34 PM 3/7/9634:28 1996dPaul Gilmorechnet.orgBosnia maps !!
J2:36 PM 3/7/9638:05 1996diGerald J Creageru"Re: [APRSSIG:7247] converting map?
1	X10:30 PM 3/4/965:34 1996asN4QEAs@ibm.net'Re: [APRSSIG:7215] Re: X1J-4 APRS usage
4:00 PM 3/7/9600:05 1996emelliott@ocslink.comCIBA Home Page
N4:52 PM 3/7/9649:54 1996e4Dave Kaplannet.net#Re: [APRSSIG:7291] Bandpass filters
!Z5:18 PM 3/7/9622:48 1996eIGwyn Reedy, W1BEL!Re: [APRSSIG:7297] Bosnia maps !!
'FK5:35 PM 3/7/96:36:28 1996e#PAl BrownGOV'Re: [APRSSIG:7301] Re: Bandpass filters
*V5:41 PM 3/7/9640:38 1996e$Bob Bruningan.navy.mil+Re: [APRSSIG:7292] Re: Mobile station - VHF
/"6:02 PM 3/7/9603:08 1996e)Paul - Have a nice dayjoin
26:05 PM 3/7/9606:35 1996e*g
KG5QD@aol.com&Re: [APRSSIG:7269] Is this possible???
9"6:15 PM 3/7/96:15:54 1996e,John B. Leonard.com#Re: [APRSSIG:7291] Bandpass filters
@N1:35 AM 3/8/96:00:58 1996eRobert Schierst-Re: [APRSSIG:7290] Re: I need more COM Ports!
E
"7:03 PM 3/7/9607:21 1996e7
Tom Weedenxecpc.comAEA TNC help needed!
J/9:01 PM 3/7/9600:29 1996eSzKE6VRL@aol.com)Re: [APRSSIG:7077] Re: KPC-3 GPS Commands
NL9:23 PM 3/7/9624:32 1996eX ku0g@sprynet.com'Re: [APRSSIG:7309] AEA TNC help needed!
RW9:27 PM 3/7/9628:22 1996eY ku0g@sprynet.com*Re: [APRSSIG:7306] Re: Is this possible???
W^
~10:05 PM 3/7/964:37 1996ebjimk@on-ramp.net%Re: How can I contact Jim Krist KG8GE
a1:36 AM 3/8/9667:52 1996e
William Nolle.net
HF <-> VHF
is
=6:05 PM 3/7/9669:28 1996e*7Earl Boatman  KB0NRK,Re: [APRSSIG:7287] Re: DIGIPEATERS and Torch
t]10:42 PM 3/7/969:31 1996ekEMartin Smithu.uh.edu'Re: [APRSSIG:7281] Mobile station - VHF
z
7:47 AM 3/8/9649:19 1996e
Peter Markhamlssu.eduRe: [APRSSIG:7314] HF <-> VHF
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/8:06 AM 3/8/9607:17 1996ekWB4LTF@aol.com*Re: [APRSSIG:7279] Re: Is this possible???
8:09 AM 3/8/9610:44 1996e ku0g@sprynet.comRe: [APRSSIG:7314] HF <-> VHF
n8:11 AM 3/8/9613:09 1996e ku0g@sprynet.com+Re: [APRSSIG:7316] Re: Mobile station - VHF
8:50 AM 3/8/9651:20 1996eWB4LTF@aol.com!Re: [APRSSIG:7317] Re: HF <-> VHF
,|8:58 AM 3/8/9658:08 1996eBob Bruningan.navy.mil,Re: [APRSSIG:7315] Re: DIGIPEATERS and Torch
9:48 AM 3/8/96:48:48 1996fTJohn B. Leonard.com!Re: [APRSSIG:7319] Re: HF <-> VHF
|9:56 AM 3/8/96:56:27 1996f "John B. Leonard.com!Re: [APRSSIG:7321] Re: HF <-> VHF
<12:25 PM 3/8/965:42 1996f,
William Nolle.net*Re: [APRSSIG:7318] Re: Is this possible???
T(12:36 PM 3/8/966:46 1996f.
William Nolle.net!Re: [APRSSIG:7319] Re: HF <-> VHF
|
7:43 AM 3/8/9660:33 1996e
Greg Blairgp.toronto.eduRe: [APRSSIG:7314] HF <-> VHF
)J1:10 PM 3/8/9611:04 1996f6W. Ronald Gentryhem.umn.eduNautical charts
s83:32 PM 3/8/9633:44 1996fW     Will Florroup.comRe: "weird militia group" flame

1:45 PM 3/8/9647:16 1996f> ku0g@sprynet.com!Re: [APRSSIG:7323] Re: HF <-> VHF
G1:47 PM 3/8/9649:45 1996f?V ku0g@sprynet.com!Re: [APRSSIG:7324] Re: HF <-> VHF
1:53 PM 3/8/9654:55 1996f@ ku0g@sprynet.com*Re: [APRSSIG:7325] Re: Is this possible???
%2:02 PM 3/8/9603:45 1996fB ku0g@sprynet.com!Re: [APRSSIG:7326] Re: HF <-> VHF
2:04 PM 3/8/9605:52 1996fCD ku0g@sprynet.com!Re: [APRSSIG:7327] Re: HF <-> VHF
p2:48 PM 3/8/9648:44 1996fM
Bill Duckwitzspring.com'Re: [APRSSIG:7286] Re: EME for everyone
;d3:41 PM 3/8/9642:56 1996fZ
Peter Markhamlssu.edu!Re: [APRSSIG:7327] Re: HF <-> VHF
4:14 PM 3/8/9615:25 1996farwf@mindspring.com*Re: [APRSSIG:7325] Re: Is this possible???
4:47 PM 3/8/9647:44 1996fi{rwf@mindspring.com2Re: [APRSSIG:7329] Re: "weird militia group" flame
5:12 PM 3/8/9613:35 1996fo\Gerald J Creageru+Re: [APRSSIG:7320] Re: Mobile station - VHF
$S5:27 PM 3/8/9629:00 1996frn2czf@gate.netRe: [APRSSIG:7274] APRSgate
+5:37 PM 3/8/9637:58 1996fu4KD4EMI@aol.com'Re: [APRSSIG:7335] Re: EME for everyone
35:37 PM 3/8/9638:00 1996fu5KD4EMI@aol.comKAM UPGRADE
6
8:39 PM 3/8/9639:53 1996f AL Z., N3KAEet*Re: [APRSSIG:7325] Re: Is this possible???
@45:42 PM 3/8/9643:08 1996fvRichard Amiraulttiac.net!Re: [APRSSIG:7327] Re: HF <-> VHF
E5:47 PM 3/8/9648:23 1996fwn2czf@gate.net*Re: [APRSSIG:7283] Re: Is this possible???
IO5:53 PM 3/8/9654:46 1996fyn2czf@gate.net5Re: [APRSSIG:7306] Re: Is this possible??? RE: FLGATE
N      5:56 PM 3/8/96:56:52 1996fyJohn B. Leonard.com!Re: [APRSSIG:7336] Re: HF <-> VHF
X?6:12 PM 3/8/9613:31 1996f}en2czf@gate.net[APRSSIG:7333] Re: HF <-> VHF
a       6:46 PM 3/8/9647:46 1996ffn2czf@gate.netssu.edu([APRSSIG:7336] Re: HF <-> VHF RE: FLGATE
t`6:54 PM 3/8/96:54:58 1996f;
David R. Mohrcom.comRe: [APRSSIG:7342] KAM UPGRADE
w}7:07 PM 3/8/9608:20 1996f>n2czf@gate.netGood Ol' Boy Icon
|{1~9:27 PM 3/8/96:27:58 1996f\
Brandon Paynet*Re: [APRSSIG:7325] Re: Is this possible???
12:54 AM 3/9/964:40 1996f
William Nolle.net*Re: [APRSSIG:7337] Re: Is this possible???
@M1:03 AM 3/9/9663:27 1996f
William Nolle.net+Re: [APRSSIG:7339] Re: Mobile station - VHF

1:28 AM 3/9/9669:25 1996f
William Nolle.net!Re: [APRSSIG:7347] Re: HF <-> VHF
3:35 AM 3/9/9636:12 1996g}
William Nolle.net*Re: [APRSSIG:7352] Re: Is this possible???
e4:08 AM 3/9/9609:25 1996g  3Ron Malinowskiom%mACaprs SAVING STATIONS TRACK HISTORY
Z5:31 AM 3/9/9631:13 1996g|Martin Smithu.uh.edu$Re: [APRSSIG:7351] Good Ol' Boy Icon
6:04 AM 3/9/9604:24 1996g$bKD4EMI@aol.com$Re: [APRSSIG:7351] Good Ol' Boy Icon
26:31 AM 3/9/9631:19 1996g*David W. Barrow IIIm.edu*Re: [APRSSIG:7332] Re: Is this possible???
7:42 AM 3/9/9642:32 1996g;]WB4LTF@aol.com*Re: [APRSSIG:7325] Re: Is this possible???
7:47 AM 3/9/9648:08 1996g<uWB4LTF@aol.com,Re: [APRSSIG:7349] Re: HF <-> VHF RE: FLGATE
_7:48 AM 3/9/9648:10 1996g<WB4LTF@aol.com*Re: [APRSSIG:7352] Re: Is this possible???
`7:48 AM 3/9/9648:13 1996g<WB4LTF@aol.com*Re: [APRSSIG:7353] Re: Is this possible???
h!7:47 AM 3/9/9648:13 1996g<pWB4LTF@aol.com$Re: [APRSSIG:7351] Good Ol' Boy Icon

U2:52 AM 3/9/9657:00 1996fi
Kevin Heyboergov.co.pinellas.fl.usHF <-> VHF Gates, etc
9:08 AM 3/9/9608:52 1996gO|rwf@mindspring.com$Re: [APRSSIG:7351] Good Ol' Boy Icon
3:15 AM 3/9/9612:50 1996fJerrytro@xnet.com(Re: It is Bob's,Mark's and Keith's Fault
W9:45 AM 3/9/9646:20 1996gW ku0g@sprynet.com(Re: [APRSSIG:7358] Re: Good Ol' Boy Icon
9:47 AM 3/9/9648:44 1996gX ku0g@sprynet.com*Re: [APRSSIG:7364] Re: Is this possible???

t9:49 AM 3/9/96:49:12 1996gXJohn B. Leonard.com*Re: [APRSSIG:7363] Re: Is this possible???
10:27 AM 3/9/969:21 1996gb
Peter Markhamlssu.edu"Re: [APRSSIG:7366] APRSSIG digest?
;G'10:30 AM 3/9/969:52 1996gbKD4EMI@aol.com:Re: [APRSSIG:7368] Re: It is Bob's,Mark's and Keith's
 FaulZ10:29 AM 3/9/960:58 1996gbvWilliam Manleyenet.seflin.lib.fl.us'Re: [APRSSIG:7286] Re: EME
for everyone
910:38 AM 3/9/967:43 1996gdyBob Bruningan.navy.milHawaii heard on East Coast!
D12:49 PM 3/9/969:42 1996g7
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William Nolle.net*Re: [APRSSIG:7361] Re: Is this possible???
Y□□12:51 PM 3/9/961:47 1996□g□□□□□
William Nolle.net*Re: [APRSSIG:7363] Re: Is this possible???

h□1:04 PM 3/9/9664:59 1996□g□□□□□
William Nolle.net(Re: [APRSSIG:7366] HF <-> VHF Gates, etc
□□□11:09 AM 3/9/968:24 1996□gk□□□□□Bob Bruningan.navy.mil"Re: [APRSSIG:7328] Nautical charts
#d□10:38 AM 3/9/967:51 1996□gd□□□□ Scott Millera.netI  have your address wrong
&i□□11:24 AM 3/9/963:47 1996□goF□□□□Bob Bruningan.navy.mil+Re: [APRSSIG:7339] Re: Mobile station - VHF
+O□□11:31 AM 3/9/960:44 1996□gp□□□□□Bob Bruningan.navy.mil'Re: [APRSSIG:7341] Re: EME for everyone
1)6□12:11 PM 3/9/960:28 1996□gz8□□□□Bob Bruningan.navy.mil!Re: [APRSSIG:7347] Re: HF <-> VHF
6_□□12:44 PM 3/9/963:54 1996□g□□□□□Bob Bruningan.navy.milHF gate solution
<□□)12:57 PM 3/9/968:59 1996□g□%□□□□
Peter Markhamlssu.edu:Re: [APRSSIG:7368] Re: It is Bob's,Mark's and Keith's FaulAua□1:12 PM 3/9/9612:01
1996□g□□□□□□Bob Bruningan.navy.mil,Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc
I□S$1:50 PM 3/9/96:54:41 1996□g□□□□□□
Sam Gentrystone.net"Re: [APRSSIG:7328] Nautical charts
Q)
□□2:16 PM 3/9/9616:56 1996□g□□□□□□rwf@mindspring.com#Re: [APRSSIG:7291] Bandpass filters
[□
□□2:16 PM 3/9/9616:59 1996□g□□□□□□rwf@mindspring.com,Re: [APRSSIG:7315] Re: DIGIPEATERS and Torch
fM□2:19 PM 3/9/9619:24 1996□g□D□□□□Steve Dimsege.net'Re: [APRSSIG:7374] Re: EME for everyone
l%□2:28 PM 3/9/9629:34 1996□g□W□□□ ku0g@sprynet.com*Re: [APRSSIG:7376] Re: Is this possible???
q<□□2:31 PM 3/9/9632:27 1996□g□
□□□ ku0g@sprynet.com*Re: [APRSSIG:7377] Re: Is this possible???
w□□□2:33 PM 3/9/9634:36 1996□g□□□□□ ku0g@sprynet.com,Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc
|□□□2:34 PM 3/9/9635:57 1996□g□□□□□ ku0g@sprynet.com+Re: [APRSSIG:7381] Re: Mobile station - VHF
□G□□2:39 PM 3/9/9639:16 1996□g□□□□□□rwf@mindspring.com,Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc
□□□2:44 PM 3/9/9645:06 1996□g□E□□□□rwf@mindspring.com□□□□2:55 PM 3/9/9655:35
1996□g□□□□□□rwf@mindspring.comOlympic Torch Relay Map
□□□□3:06 PM 3/9/9607:34 1996□g□?□□□ ku0g@sprynet.com#Re: [APRSSIG:7384] HF gate solution
□□□□3:32 PM 3/9/96:32:22 1996□g□s□□□□ronalda@InterLink.NETRe: [APRSSIG:7342] KAM UPGRADE
□z!□10:46 AM 3/9/967:54 1996□gfI□□
Kevin Heyboergov.co.pinellas.fl.us(Re: [APRSSIG:7367] Re: Good Ol' Boy Icon
□□□10:50 AM 3/9/962:33 1996□ggi□□
Kevin Heyboergov.co.pinellas.fl.us*Re: [APRSSIG:7377] Re: Is this possible???
□□□t3:57 PM 3/9/9659:42 1996□g□@□□□□William NealGround Team/Dog Team
□:□10:58 AM 3/9/962:11 1996□gi@□□
Kevin Heyboergov.co.pinellas.fl.us,Re: [APRSSIG:7378] Re: HF <-> VHF Gates, etc
□F□4:55 PM 3/9/9655:37 1996□g□□□□□□Steve Dimsege.netRe: [APRSSIG:7396]
□□□□5:14 PM 3/9/9611:36 1996□g□H□□□□Dave Kaplannet.netRe: [APRSSIG:7396]
□□      'k5:45 PM 3/9/9643:13 1996□g□□□□□□
jack swiftnet&Re: [APRSSIG:7396] KPC-3 Held messages
□□m□8:40 PM 3/9/9641:06 1996□g□□□□□
William Nolle.net'Re: [APRSSIG:7398] Re: HF gate solution
□K□7:01 PM 3/9/9602:50 1996□g□L□□□□
Miami Networkimail.comMaxon TX Radios
□Z□□7:16 PM 3/9/9616:34 1996□g□□□□□□rwf@mindspring.com"KPC-3 invisible messages . Thanks!
□$□□7:28 PM 3/9/9629:02 1996□g□□□□□□    Jeff Wardf.net(Re: [APRSSIG:7366] HF <-> VHF Gates, etc
□□+□8:01 PM 3/9/9601:58 1996□g□i□□□□KD4EMI@aol.comRe: [APRSSIG:7396]
□□□8:10 PM 3/9/9614:28 1996□g□□□□□□     Ken Wolfeterramp.com'RE: [APRSSIG:7388] Re: Bandpass filters
□□8:21 PM 3/9/9620:52 1996□g□'□□□□Bob Bruningan.navy.mil,Re: [APRSSIG:7403] Re: HF <-> VHF Gates, etc
□□8:57 PM 3/9/9657:23 1996□g□□□□□□Lambrc@aol.com*Re: [APRSSIG:7356] Re: Is this possible???
        HR8:56 PM 3/9/9657:31 1996□g□w□□□□Lambrc@aol.com*Re: [APRSSIG:7376] Re: Is this possible???
□□8:56 PM 3/9/9657:36 1996□g□u□□□□Lambrc@aol.com,Re: [APRSSIG:7403] Re: HF <-> VHF Gates, etc
d□□12:32 AM 3/10/96:46 1996□h'□□□□ AL Z., N3KAEetAnother stupid question
A;5:19 PM 3/9/9669:02 1996□g□□□□wd4ahz@kd4yal.ampr.orgOlympic Torch Relay Question
|>o10:30 PM 3/9/969:34 1996□hQ□□□□Bob Bruningan.navy.milGATEway fix now
□<□1:02 AM 3/10/962:33 1996□h.□□□□
William Nolle.net,Re: [APRSSIG:7410] Re: HF <-> VHF Gates, etc
$□+□11:27 PM 3/9/968:23 1996□h□□□□ ku0g@sprynet.com,Re: [APRSSIG:7410] Re: HF <-> VHF Gates, etc
)!□□11:34 PM 3/9/966:17 1996□h□□□□ ku0g@sprynet.com*Re: [APRSSIG:7417] Another stupid question
.□!□1:02 AM 3/10/9604:02 1996□h/□□
Ronald Krameret*Re: [APRSSIG:7392] Re: Is this possible???
6□F□6:59 AM 3/10/969:55 1996□h□□□□□□David W. Barrow IIIm.edu(Re: [APRSSIG:7359] Re: Good Ol' Boy Icon
: c□8:12 AM 3/10/962:43 1996□h□□□□□□David W. Barrow IIIm.eduRe: Can't we all get along?
>□      H□8:37 AM 3/10/968:31 1996□h□□□□□ ku0g@sprynet.com,Re: [APRSSIG:7420] Re: HF <-> VHF Gates, etc
G□□□8:38 AM 3/10/969:35 1996□h□□□□□ ku0g@sprynet.com*Re: [APRSSIG:7423] Re: Is this possible???
L□□!9:48 AM 3/10/969:02 1996□h□L□□□□
AZWDC@aol.com2Re: [APRSSIG:7329] Re: "weird militia group" flame
Op□12:08 PM 3/10/96:24 1996□h□1□□□□Ozzie N4SCYal.net*Re: [APRSSIG:7427] Re: Is this possible???
V□927:11 PM 3/10/966:55 1996□i.?□□□ Gary Arnoldles.net5Re: [APRSSIG:7346] Re: Is this possible??? RE:
FLGATE
^□□S12:49 PM 3/10/96:26 1996□h□□□□□□
Larry Griffinmp.netHelp w/ Garmin-45 & Laptop
c□
□h3:22 PM 3/10/9623:47 1996□h□□□□
Ronald Krameret(Re: [APRSSIG:7088] Re: Peet Bros. U-2000
nk)□3:23 PM 3/10/969:24 1996□h□□□□□ Robert G. Abrams2Re: [APRSSIG:7428] Re: "weird militia group" flame
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r@3:35 PM 3/10/965:21 1996h\Alan K. Unangstet.com-Re: [APRSSIG:7431] Help w/ Garmin-45 & Laptop
zN4:15 PM 3/10/965:43 1996i
Larry Griffinmp.net     Garmin-45
~{4:31 PM 3/10/961:47 1996iBob Bruningan.navy.milPennsylvania Maps
6:22 PM 3/10/961:41 1996i"
W2HOB@aol.com$Re: [APRSSIG:7436] Pennsylvania Maps
h6:39 PM 3/10/960:55 1996i& Victor Morangetcom.comBeacon
]6:53 PM 3/10/964:20 1996i*"
Larry Griffinmp.netRe: Help w/ Garmin-45...

'8:54 PM 3/10/9601:04 1996iFMRobert SchierstRe: OWLY
9:42 PM 3/10/963:44 1996iQ ku0g@sprynet.comRe: [APRSSIG:7440] Re: OWLY
+)1:36 AM 3/11/966:05 1996i
William Nolle.netRe: [APRSSIG:7441] Re: OWLY
T_7:19 AM 3/11/969:44 1996iSteve Sableet
Ultimeter 500

7:53 AM 3/11/960:39 1996imark.endicott@nashville.comEER Bill's Digi
4:39 AM 3/11/961:15 1996i[
Greg Blairgp.toronto.edu2Garmin 40/45 FAQ + NMEA FAQ + C++ NMEA Source Code
qJ9:03 AM 3/11/964:10 1996iP
Larry Griffinmp.netRe: Ultimeter 500
y9:48 AM 3/11/968:39 1996iKeith Sproulees.rutgers.eduEnough is Enough!
v12:27 PM 3/11/96:26 1996j!+ w4rte@ab6z.ampr.orgxmitfreq on 30 mts
$N10:26 AM 3/11/96:49 1996jBob Bruningan.navy.mil!Europe, South America and PA maps
r10:42 AM 3/11/96:01 1996jBob Bruningan.navy.mil Re: [APRSSIG:7443] Ultimeter 500
z910:55 AM 3/11/96:46 1996jClaude 995-5040 pager 4541$RE: [APRSSIG:7447] Enough is Enough!
M11:05 AM 3/11/96:56 1996j
 Robert G. Abrams$Re: [APRSSIG:7447] Enough is Enough!
_g1:16 PM 3/11/966:18 1996j,
William Nolle.net"Re: [APRSSIG:7444] EER Bill's Digi
11:24 AM 3/11/96:59 1996j_Gerald J Creageru(Re: [APRSSIG:7359] Re: Good Ol' Boy Icon
11:30 AM 3/11/96:56 1996jGerald J Creageru'Re: [APRSSIG:7374] Re: EME for everyone
11:50 AM 3/11/96:22 1996jH ku0g@sprynet.com$Re: [APRSSIG:7447] Enough is Enough!
C12:02 PM 3/11/96:16 1996jN ku0g@sprynet.com%Re: [APRSSIG:7448] xmitfreq on 30 mts
!12:19 PM 3/11/96:00 1996j4Jim Prentice WA2MZF QCWA 27911Tips and Hints please.
11:21 AM 3/11/96:26 1996jPAUL MANNINGum.flint.umich.eduPacket Operating Software
12:36 PM 3/11/96:01 1996j#9Bob Bruningan.navy.milPosition tracking via WO-18
"1:01 PM 3/11/961:12 1996j(Keith Sproulees.rutgers.edu%RE: xmitfreq on 30 mts (out of band?)
        n;1:12 PM 3/11/963:35 1996j+HOLCOMB, GREGORY FRAA.EDU,Re: [APRSSIG:7420] Re: HF <-> VHF
Gates, etc
)}31:28 PM 3/11/969:15 1996j/JHOLCOMB, GREGORY FRAA.EDU$Re: [APRSSIG:7447] Enough is Enough!
/`3:01 PM 3/11/961:57 1996jE-\Alan K. Unangstet.com,Re: [APRSSIG:7459] Packet Operating Software
6d3:03 PM 3/11/963:56 1996jEBob Bruningan.navy.mil'xmitfreq on 30 mts (out of band?) (fwd)
:^<3:03 PM 3/11/9605:43 1996jE
Randy Halladg.gvg.TEK.COM       Newsgroup
A/3:07 PM 3/11/967:46 1996jFBob Bruningan.navy.mil,Re: [APRSSIG:7462] Re: HF <-> VHF Gates, etc
FG!4:35 PM 3/11/965:38 1996j[*Steve Dimsege.net'Re: [APRSSIG:7455] Re: EME for everyone
N16:55 PM 3/11/965:49 1996j{
William Nolle.net,Re: [APRSSIG:7462] Re: HF <-> VHF Gates, etc
]5:42 PM 3/11/964:00 1996jkn2czf@gate.net(Re: [APRSSIG:7367] Re: Good Ol' Boy Icon
b5:48 PM 3/11/969:55 1996jlXn2czf@gate.net#Re: [APRSSIG:7384] HF gate solution
e~Z5:38 PM 3/11/961:30 1996jj     John Baumenet.columbus.oh.us$Re: [APRSSIG:7447] Enough is
Enough!
n%&6:00 PM 3/11/962:01 1996jo6n2czf@gate.netov.co.pinellas.fl.us&[APRSSIG:7401] Re: Is this
possible???
vK+6:07 PM 3/11/968:02 1996jpDavid G. HendersonetRe: [APRSSIG:7466] Newsgroup
y6:12 PM 3/11/963:15 1996jqn2czf@gate.netRe: [APRSSIG:7440] Re: OWLY
~6:13 PM 3/11/963:51 1996jr
Bob Lorenzinim(Re: [APRSSIG:7452] Re: Enough is Enough!
K6:15 PM 3/11/963:40 1996jr Jon T Adams@jpl.nasa.gov,Re: [APRSSIG:7459] Packet Operating Software
714:00 PM 3/11/968:12 1996jS
Greg Blairgp.toronto.eduGarmin Protocol
54:08 PM 3/11/965:28 1996jT
Greg Blairgp.toronto.edu,wealth of info on NMEA sentences and GPS s/w
K6:15 PM 3/11/964:34 1996jr Jon T Adams@jpl.nasa.gov,Re: [APRSSIG:7459] Packet Operating Software
]09:50 PM 3/11/966:18 1996jHOLCOMB, GREGORY FRAA.EDUeer read this! new digi site!
10:11 PM 3/11/96:47 1996jGerald J Creageru'Re: [APRSSIG:7468] Re: EME for everyone
Z10:35 PM 3/11/96:56 1996j~
Peter Markhamlssu.eduRe: [APRSSIG:7466] Newsgroup
w10:58 PM 3/11/96:49 1996jrwf@mindspring.comRe: [APRSSIG:7466] Newsgroup
-x11:35 PM 3/11/96:21 1996jmark.endicott@nashville.comWHATSITGPSANTENNA
2:41 AM 3/12/966:52 1996j6
William Nolle.net0Re: [APRSSIG:7481] eer read this! new digi site!
      2:13 AM 3/12/964:15 1996jSteve Dimsege.net'Re: [APRSSIG:7482] Re: EME for everyone
2:14 AM 3/12/9616:20 1996j<Shannon Millerni-Stuttgart.DERe: [APRSSIG:7466] Newsgroup
?2:08 AM 3/12/9615:03 1996jPhilip Chien.orgRe: Position tracking via WO-18


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□□6:34 AM 3/12/966:12 1996□k□□□□□William Manleyenet.seflin.lib.fl.us'Re: [APRSSIG:7455] Re: EME for
everyone

□□□10:42 AM 3/12/96:27 1996□kY□□□□      Tom Buscha.nwscc.sea06.navy.milRe: [APRSSIG:7466] Newsgroup

![□}8:08 AM 3/12/965:39 1996□k5□□□□□Robert Kirke.gsfc.nasa.govRe: [APRSSIG:7466] Newsgroup

&G/8:59 AM 3/12/964:06 1996□kA□□□□ H Smith.comRe: Position tracking via WO-18

*Vn□9:15 AM 3/12/966:26 1996□kE□□□□□
AZWDC@aol.com
,□□□9:50 AM 3/12/963:42 1996□kM□□□□□Bob Bruningan.navy.milSPRE Track History

5o8:55 AM 3/12/966:00 1996□k@□□□□□Doug Wetzelifest.uwm.edu*[APRSSIG:7425] Re: Can't we all get along?

=z}310:28 AM 3/12/96:16 1996□kV□□□□□HOLCOMB, GREGORY FRAA.EDU$Re: [APRSSIG:7485] WHATSITGPSANTENNA

B□□□11:00 AM 3/12/960:20 1996□k^.□□□□Robert Winninghamt9Re: [APRSSIG:7445] Garmin 40/45 FAQ + NMEA FAQ +
C++ NMEA
G□□□11:31 AM 3/12/96:50 1996□ke{□□□□Bob Bruningan.navy.mil2Re: [APRSSIG:7493] Re: Position tracking via
WO-18

LB□□11:32 AM 3/12/962:33 1996□ke□□□□□gordon_hardman(Re: [APRSSIG:7497] Re: WHATSITGPSANTENNA

S□□12:02 PM 3/12/967:02 1996□kl□□□Tom Clark -- W3IWInasa.govRe: Position tracking via WO-18

X~X□12:40 PM 3/12/96:43 1996□ku□□□□□Bob Bruningan.navy.milPosition reporting via WO-18

`□□12:17 PM 3/12/969:59 1996□kp"□□□□Doug Wetzelest.com.Re: [APRSSIG:7259] Freq Coordination of 145.79

im□'1:58 PM 3/12/9659:25 1996□k□□□□□ Joel Gambletcom.com.Re: [APRSSIG:7496] Re: Can't we all get along?

o,□□4:08 PM 3/12/968:57 1996□k□B□□□□
Arthur Booten,Re: [APRSSIG:7459] Packet Operating Software

v□q□4:07 PM 3/12/969:21 1996□k□□□□□
Arthur Booten$Re: [APRSSIG:7485] WHATSITGPSANTENNA

|i611:17 AM 3/12/96:23 1996□kbC□□Sam Nabkey, WJ8T.com:Re: [APRSSIG:7498] Re: Garmin 40/45 FAQ + NMEA FAQ
 + C++ N
□□□     11:20 AM 3/12/96:48 1996□kb□□□Sam Nabkey, WJ8T.com2Re: [APRSSIG:7499] Re: Position tracking via
WO-18

□D□4:31 PM 3/12/968:09 1996□k□□□□□□Gwyn Reedy, W1BELRe: Position tracking via WO-18

□T□5:08 PM 3/12/968:26 1996□k□^□□□□Steve Dimsege.net'Re: [APRSSIG:7490] Re: EME for everyone

□J      F□5:31 PM 3/12/961:38 1996□k□□□□□□
Ed  Rogersnil.com2Re: [APRSSIG:7493] Re: Position tracking via WO-18

□□□□6:39 PM 3/12/964:17 1996□k□□□□□□mark.endicott@nashville.comNashville and North etc.

□a□6:41 PM 3/12/965:48 1996□k□V□□□□William Richarzcom.comMFJ Packet Xtals

□z□□8:50 PM 3/12/961:37 1996□k□□□□□
Roger Goodt.net subscribe

□D□□6:52 PM 3/12/962:17 1996□k□□□□□□Robert Kirke.gsfc.nasa.gov2Re: [APRSSIG:7509] Re: Position tracking
via WO-18

□□□□9:16 PM 3/12/9615:57 1996□k□□□□□ Jack Loflinl.yamhillesd.k12.or.us"Re: [APRSSIG:7006] converting
maps

□□
□□9:30 PM 3/12/960:34 1996□k□□□□□□
Bill Duckwitzspring.com'Re: [APRSSIG:7487] Re: EME for everyone

□}□□9:41 PM 3/12/9639:10 1996□k□Z□□□□Bob Hartman.wcoil.com1:2,000,000 map disk

□b□{9:59 PM 3/12/969:25 1996□k□□□□□□Bob Bruningan.navy.milNE PA Maps (fwd)

□z□10:05 PM 3/12/96:07 1996□k□$□□□□Richard Amiraulttiac.netUnproto path bug

□□□10:22 PM 3/12/96:25 1996□k□!□□□ ku0g@sprynet.com#Re: [APRSSIG:7513] MFJ Packet Xtals

□□□12:34 AM 3/13/96:54 1996□l□□□
William Nolle.netWeather

□□,□11:27 PM 3/12/96:04 1996□l
H□□□□   Will Florroup.comRe: practical use for APRS

□□□11:23 PM 3/12/96:36 1996□lT□□□□
Roger Sellersa.net RE: [APRSSIG:7491] Re: Newsgroup

□□!1:26 AM 3/13/960:34 1996□l);□□□□MICHAEL D. HULLpuserve.comNew digi
□□□7:06 AM 3/13/967:34 1996□lx□□□□ ku0g@sprynet.com'Re: [APRSSIG:7518] 1:2,000,000 map disk
uy□7:20 AM 3/13/9620:35 1996□l|□□□□Mike Walkererlog.com Re: [APRSSIG:7474] Re: Newsgroup
□5□7:30 AM 3/13/9631:11 1996□l~□□□□□John B. Leonard.com0Re: [APRSSIG:7477] Re: Packet Operating Software
#       6{7:47 AM 3/13/969:54 1996□l□h□□□□.Dr. David R. Fordham, JMU School of AccountingRe: Position
tracking via WO-18
Y□L9:14 AM 3/13/962:49 1996□l□□□□□ Pat Bunsoldi.csufresno.edugarmin45 msg
□N/9:10 AM 3/13/967:32 1996□l□□□□□□HOLCOMB, GREGORY FRAA.EDU Re: [APRSSIG:7527] Re: Newsgroup
!'□□1:15 PM 3/13/966:39 1996□l□g□□□ Steve Duboisa.com RE: [APRSSIG:7531] Re: Newsgroup
$□□~10:39 AM 3/13/96:55 1996□l□□□□□□Bob Bruningan.navy.milAPRS75a comming soon
,□□□10:56 AM 3/13/96:30 1996□l□□□□□□rwf@mindspring.com+Re: [APRSSIG:7526] Re: 1:2,000,000 map disk
2□p□10:57 AM 3/13/96:44 1996□l□□□□□□Bob Bruningan.navy.mil+Re: [APRSSIG:7526] Re: 1:2,000,000 map disk
7f}□10:40 AM 3/13/96:46 1996□l□□□□ H Smith.comAPRS ain't no toy :-)
=□□□11:04 AM 3/13/96:44 1996□l□□□□□□Bob Bruningan.navy.milChooChoo GPS mobile (fwd)
A□□9:03 AM 3/13/966:11 1996□l□$□□□□Sadowski,P O4 USAF JCSAR/EDD RE: [APRSSIG:7527] Re: Newsgroup
G□□□11:55 AM 3/13/96:11 1996□l□x□□□ William B. Bliss/WB6LPGRailroad GPS Mobile on APRS
M□□1:37 PM 3/13/968:01 1996□l□r□□□□Ron Malinowskiom&Re: [APRSSIG:7516] Re: converting maps
R□□a1:47 PM 3/13/9649:17 1996□l□□□□□
Randy Halladg.gvg.TEK.COM.Re: [APRSSIG:7539] Railroad GPS Mobile on APRS
_□Ui2:37 PM 3/13/969:57 1996□l□x□□□□Michael Turnerstn.ca>Re: [APRSSIG:7530] garmin45 msg
d□□q2:47 PM 3/13/969:46 1996□l□□□□□□Michael Turnerstn.ca>'Re: [APRSSIG:7533] APRS75a comming soon
j□□2:46 PM 3/13/9650:29 1996□l□□□□□□Bob FontanamAPRS
m□□3:26 PM 3/13/964:29 1996□l□□□□ Barbara Fehner Re: [APRSSIG:7538] Re: Newsgroup
t□□4:22 PM 3/13/961:43 1996□l□
□□□□Bob Bruningan.navy.milWX/DIGI PHG string problem
x□□□4:27 PM 3/13/963:38 1996□l□^□□□□Bob Bruningan.navy.mil+Re: [APRSSIG:7543] Re: APRS75a comming soon
~□□□5:36 PM 3/13/966:44 1996□m□□□□□Keith Sproulees.rutgers.eduNews Group vs Mail Reflector
□□[□6:56 PM 3/13/968:43 1996□mK□□□□
Arthur BootenSharp Wizard "Terminal"
□□□□6:17 PM 3/13/968:24 1996□m□□□□Gerald J Creageru+Re: [APRSSIG:7534] Re: 1:2,000,000 map disk
□□□7:16 PM 3/13/967:38 1996□m#□□□□□Gerald J Creageru$Re: [APRSSIG:7485] WHATSITGPSANTENNA
□□□□7:39 PM 3/13/966:19 1996□m)D□□□□Dave Kaplannet.net:Updating Docs "was [APRSSIG:7547] Re: APRS75a
comming soon□□□□8:33 PM 3/13/9633:59 1996□m6□□
John W. (Billnet-Re: [APRSSIG:7546] WX/DIGI PHG string problem
□f8:39 PM 3/13/960:48 1996□m7f□□□□n2czf@gate.net2Re: [APRSSIG:7541] Re: Railroad GPS Mobile on APRS
□□T8:51 PM 3/13/962:55 1996□m:F□□□□n2czf@gate.net/Re: [APRSSIG:7548] News Group vs Mail Reflector
□□I□9:08 PM 3/13/968:14 1996□m>□□□□rwf@mindspring.comEudora Pro Filter (For Barbara)
□?"9:35 PM 3/13/966:18 1996□mD{□□□□
Peter Markhamlssu.edu2Re: [APRSSIG:7556] Eudora Pro Filter (For Barbara)
□[B10:35 PM 3/13/96:33 1996□mR□□□□□ka0yos@arn.netRe: Position tracking via WO-18
□□10:47 PM 3/13/96:37 1996□mUR□□□ ku0g@sprynet.com+Re: [APRSSIG:7535] Re: 1:2,000,000 map disk
□□10:50 PM 3/13/96:29 1996□mV□□□ ku0g@sprynet.com,Re: [APRSSIG:7537] ChooChoo GPS mobile (fwd)
□□□□2:02 AM 3/14/966:46 1996□m□□□□
William Nolle.net0Re: [APRSSIG:7560] Re: ChooChoo GPS mobile (fwd)
□□)□6:13 AM 3/14/963:16 1996□m□□□□□□David W. Barrow IIIm.edu/Re: [APRSSIG:7548] News Group vs Mail
Reflector
□□8□8:02 AM 3/14/9602:59 1996□m□□□□□□Kenneth Schildtncentral.com2Re: [APRSSIG:7529] Re: Position
tracking via WO-18
□□T□8:25 AM 3/14/9625:28 1996□m□□□□□□Dick Ruckers.cais.comNews Group vs Mail Reflector
□8□□8:46 AM 3/14/966:21 1996□m□□□□□□ROBERT R. OTTO2Re: [APRSSIG:7556] Eudora Pro Filter (For Barbara)
□□□8:56 AM 3/14/965:49 1996□m□□□□□BordingK@aol.comInformation
□□e□9:56 AM 3/14/967:18 1996□m□□□□ William B. Bliss/WB6LPG
WinWeather
□□10:41 AM 3/14/96:56 1996□m□□□□□□Bob Bruningan.navy.milPAmaps02.zip Newton PA
□h□2:19 PM 3/14/966:45 1996□n/□□□□
William Nolle.netRe: [APRSSIG:7567] WinWeather
□□2:48 PM 3/14/966:45 1996□n6□□□□
William Nolle.netMaps

□I41:32 PM 3/14/964:16 1996□n$□□□□ Marvin Munster x5388m:Re: [APRSSIG:7556] Eudora Pro Filter (For
Barbara)and othe□W□2:39 PM 3/14/961:13 1996□n4□□□□□
Arthur Booten>->->->->VIRUS ALERT!<-<-<-<-<
 -□1:26 PM 3/14/965:57 1996□n#b□□□□Kent Larsoness.digex.net/Re: [APRSSIG:7564] News Group vs Mail
Reflector
%?3h2:10 PM 3/14/969:44 1996□n-□□□□□
jack swiftnet Re: [APRSSIG:7552] Updating Docs
+r□□2:58 PM 3/14/966:51 1996□n9□□□ Barbara Fehner6Re: [APRSSIG:7557] Re: Eudora Pro Filter (For Barbara)
1□□5:33 PM 3/14/963:50 1996□n]-□□□
William Nolle.net
USGS Files
4□7:53 PM 3/14/963:43 1996□n~#□□□□
Tom Martin1Re: [APRSSIG:7572] >->->->->VIRUS ALERT!<-<-<-<-<
8□      □□8:35 PM 3/14/965:10 1996□n□□□□□□Bob Bruningan.navy.milWO-18 Posit Reporting (2)
B□bx8:58 PM 3/13/965:06 1996□m;□□□□□Kevin Kellyx.netMaxon 2m tx boards
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G7□□9:18 PM 3/14/969:08 1996□n□ □□□□William Richarzcom.com'Re: [APRSSIG:7521] Re: MFJ Packet Xtals
O□□10:38 PM 3/14/96:12 1996□n□□□□□□
Peter Markhamlssu.edu,Re: [APRSSIG:7578] WO-18 Posit Reporting (2)
S□□□10:56 PM 3/14/96:54 1996□n□□□□□Bruce W. Martinnk.netStill fuzzy about UNPROTO
jE_211:45 PM 3/14/96:52 1996□n□□□□□Claude 995-5040 pager 4541US Naval Observatory Web Site
v□11:50 PM 3/14/96:18 1996□n□□□□□□
Roger Sellersa.net3RE: [APRSSIG:7555] Re: News Group vs Mail Reflector
□□□11:59 PM 3/14/96:25 1996□n□□□□□□
Roger Sellersa.net5RE: [APRSSIG:7577] Re: >->->->->VIRUS ALERT!<-<-<-<-<
□□□□12:23 AM 3/15/96:14 1996□n□J□□□□
Roger Sellersa.netHelp, need GPS suggestions
□□
B2:02 AM 3/15/9604:48 1996□n□□□□<Shannon Millerni-Stuttgart.DE3Re: [APRSSIG:7573] Re: News Group vs Mail
 Reflector
□□□7:38 AM 3/15/969:03 1996□o#^□□□□Bruce W. Martinnk.netRe: Help, need GPS suggestions
□□8:13 AM 3/15/961:16 1996□o+□□□□□John B. Leonard, Jr-Re: [APRSSIG:7586] Help, need GPS suggestions
□□□□8:12 AM 3/15/9613:52 1996□o+d□□
Ronald Krameret-Re: [APRSSIG:7586] Help, need GPS suggestions
□e_8:13 AM 3/15/964:16 1996□o+□□□□□JAgrelo@aol.com%Re: [APRSSIG:7579] Maxon 2m tx boards
□□G8:36 AM 3/15/965:04 1996□o0□□□□ Pat Bunsoldi.csufresno.eduBase64?
□□I□8:46 AM 3/15/966:06 1996□o3*□□□□Paul Moller@csg.mot.comgps antenna?
□□□9:02 AM 3/15/963:28 1996□o6□□□□□Gerald J CreageruRe: [APRSSIG:7576] USGS Files
□□
E9:13 AM 3/15/965:02 1996□o9□□□□□Claude 995-5040 pager 45411RE: [APRSSIG:7588] Re: Help, need GPS
suggestions
□□□□9:14 AM 3/15/966:00 1996□o9□□□□□Gerald J CreageruAntennas... from M/A-Com
Mg□9:40 AM 3/15/961:37 1996□o?□□□□□Gerald J Creageru0Re: [APRSSIG:7583] US Naval Observatory Web Site
□n□9:49 AM 3/15/960:19 1996□oA□□□□□Gerald J CreageruRe: [APRSSIG:7592] Base64?
"□□9:52 AM 3/15/963:52 1996□oB□□□□□     Will Florroup.com Re: News Group vs Mail Reflector
)
□□10:18 AM 3/15/96:53 1996□oH□□□□□Bob Bruningan.navy.mil,Re: [APRSSIG:7582] Still fuzzy about UNPROTO
6□z□10:40 AM 3/15/96:41 1996□oM□□□□□
Peter Laws.uark.edu&Minimum res on maps?  (was Re: Base64?
=MJ□11:30 AM 3/15/96:16 1996□oY□□□□□Paul Moller@csg.mot.com1Re: [APRSSIG:7595] Re: Help, need GPS
suggestions
E□&□11:56 AM 3/15/96:22 1996□o_□□□□□Gerald J Creageru9Re: [APRSSIG:7601] Minimum res on maps?  (was Re:
Base64?
J□□Y4:45 AM 3/15/9666:02 1996□n□□□□□□Al Chan - W6DNTrgGPS for landing planes
P□v     1:02 PM 3/15/9623:21 1996□ooR□□Tom Clark -- W3IWInasa.govRe: WO-18 Posit Reporting (2)
W&□□3:26 PM 3/15/967:00 1996□o□□□□□
William Nolle.net!Re: [APRSSIG:7594] Re: USGS Files
\□□□1:37 PM 3/15/9641:27 1996□ow□□□□□Theodore Antanaitis.comNEW FORMAT 2MEG USGS CD-ROM
c□□□3:42 PM 3/15/964:01 1996□o□□□□□
William Nolle.net
USGS Files
gi□6:31 PM 3/15/962:13 1996□o□l□□□
William Nolle.net.Re: [APRSSIG:7607] NEW FORMAT 2MEG USGS CD-ROM
ok#□4:30 PM 3/15/964:06 1996□o□□□□□□
Miami Networkimail.comUltima 2000 Wx Station
s□4:57 PM 3/15/967:15 1996□o□D□□□□Keith Sproulees.rutgers.edu1:2mil CD program
x□□#6:08 PM 3/15/968:57 1996□o□□□□□□Steve Dimsege.net)Re: [APRSSIG:7610] Ultima 2000 Wx Station
~□□6:24 PM 3/15/966:44 1996□o□□□□□□
Roger Sellersa.net1RE: [APRSSIG:7590] Re: Help, need GPS suggestions
□+8□7:25 PM 3/15/968:12 1996□o□□□□□Bob Bruningan.navy.mil)Re: [APRSSIG:7610] Ultima 2000 Wx Station
□c)_8:13 PM 3/15/964:10 1996□o□T□□□□Steve Sableet
Ultimeter 500
□□Q□8:30 PM 3/15/961:53 1996□o□<□□□ ku0g@sprynet.comRe: [APRSSIG:7593] gps antenna?
□□8:36 PM 3/15/967:59 1996□o□□□□□ ku0g@sprynet.com9Re: [APRSSIG:7601] Minimum res on maps?  (was Re:
Base64?
□□
□□9:12 PM 3/15/962:36 1996□o□&□□□□Bob Bruningan.navy.milWO-18 digipeater for APRS
□□□□5:05 PM 3/15/9667:03 1996□o□6□□□□Rodney Myrvaagnesctroweb.com)Re: [APRSSIG:7604] GPS for landing
planes
□D□J10:38 PM 3/15/96:09 1996□o□*□□□□
Larry Griffinmp.netRe: Ultimeter 500
□□□11:06 PM 3/15/96:49 1996□o□□□□□ Kenneth J. MirabellaMaps
□nny11:35 PM 3/15/96:53 1996□p□□□□□Bob Bruningan.navy.milAPRS75a posted
□□□5:15 AM 3/16/968:00 1996□pS4□□□□
Miami Networkimail.com$Re: [APRSSIG:7620] Re: Ultimeter 500
□□□□8:55 AM 3/16/965:48 1996□p□□□□□
William Nolle.netVer:75a
□□
□]10:52 PM 3/15/967:51 1996□o□v□□□□Al Chan - W6DNTrgRe: GPS for landing planes
□@>□7:53 AM 3/16/962:39 1996□px>□□□□Bob Bruningan.navy.milRe: [APRSSIG:7624] Ver:75a
□~x□8:55 AM 3/16/966:01 1996□p□□□□□John F. Kraus II$[APRSSIG:7358] Re: Good Ol' Boy Icon
□□:□11:16 AM 3/16/96:37 1996□p□□□□□\Chris Terwilligerot.comAPRS coordination in AZ
□0#12:47 PM 3/16/96:25 1996□p□2□□□□
Lew Midlam@pobox.com,Re: [APRSSIG:7421] Re: HF <-> VHF Gates, etc
□I
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?7:14 PM 3/15/9660:56 1996o{Robert Schierst3Re: [APRSSIG:7599] Re: News Group vs Mail Reflector
2:01 PM 3/16/961:47 1996pKeith Sproulees.rutgers.eduMail List vs News Group
b2:05 PM 3/16/967:03 1996pBob Bruningan.navy.milRe: APRS coordination in AZ
3:14 PM 3/16/961:16 1996pGwyn Reedy, W1BELRe: [APRSSIG:7593] gps antenna?
A12:54 PM 3/16/96:36 1996pGwyn Reedy, W1BEL2Re: [APRSSIG:7515] Re: Position tracking via WO-18
"]
5:38 PM 3/16/969:18 1996qb       Will Florroup.com Re: News Group vs Mail Reflector
,6:30 PM 3/16/961:08 1996q
Keith Sproulees.rutgers.eduModerated vs Non-Moderated
1[6:45 PM 3/15/963:05 1996oDave Kaplannet.net
Dayton Forums
47:43 PM 3/16/9643:17 1996qRonald G. ParsonsRe: gps antenna?
9q7:43 PM 3/16/965:23 1996q
Dave Creeki.com,Re: [APRSSIG:7421] Re: HF <-> VHF Gates, etc
?G8:13 PM 3/16/963:06 1996q%Keith Sproulees.rutgers.eduRE: Dayton & APRS
DF8:29 PM 3/16/963:22 1996q)
TOM DONALDSONET$Re: Error Condition Re: UNSUBSCRIBE!
Ii8:44 PM 3/16/9644:05 1996q-Dan McMillinnet
Virus note
M;S9:19 PM 3/16/969:58 1996q5Qrwf@mindspring.com#Re: [APRSSIG:7633] Re: gps antenna?
Q9:19 PM 3/16/960:06 1996q5Trwf@mindspring.com2Re: [APRSSIG:7634] Re: Position tracking via
WO-18
VG9:27 PM 3/16/968:39 1996q7Bob Bruningan.navy.milWO-18 Position/Status reporting
k10:43 PM 3/16/96:00 1996qHKSwaggart@aol.comRe: [APRSSIG:7621] Maps
o}10:56 PM 3/16/96:47 1996qLn2czf@gate.net.Re: [APRSSIG:7632] Re: APRS coordination in AZ
u
11:02 PM 3/16/96:44 1996qMS William B. Bliss/WB6LPG$GPRMC PROTOCOL
=2:42 AM 3/17/966:29 1996q
William Nolle.netMaps
81:56 AM 3/17/967:39 1996qv3Ron Malinowskiom MacAPRS automatic screen refresh
74:11 AM 3/17/961:20 1996qBob Bruningan.navy.milWO-18 Collision Avoidance
:X4:19 AM 3/17/968:59 1996qBob Bruningan.navy.mil.Re: [APRSSIG:7647] Re: APRS coordination in
AZ
05:46 AM 3/17/962:31 1996q#Truman Boerkoel.comMaps for WinAPRS
5:51 AM 3/17/963:25 1996q%Donnie J. Murraym.com)help with Aprs MFJ 1278B & Ultimeter 2000
v      8:22 AM 3/17/963:18 1996q
William Nolle.net3Re: [APRSSIG:7650] MacAPRS automatic screen refresh
P9:37 AM 3/17/967:11 1996q
William Nolle.netMaplists
z)8:15 AM 3/17/965:54 1996qSteve Dimsege.net2Re: [APRSSIG:7645] WO-18 Position/Status reporting
f9:05 AM 3/17/965:54 1996qKeith Sproulees.rutgers.edu RE: Call Signs with every packet
fI9:07 AM 3/17/9608:59 1996q@jay hainlinen.bgu.eduaprs75a bug?
Y3:12 AM 3/17/969:20 1996qJerrytro@xnet.com#Re: [APRSSIG:7653] Maps for WinAPRS
CU9:10 AM 3/17/961:38 1996qn2czf@gate.netFL USERS: 80M GATE IS STILL UP
 9:27 AM 3/17/967:29 1996qKeith Sproulees.rutgers.edu#Re: [APRSSIG:7653] Maps for WinAPRS
"11:24 AM 3/17/96:08 1996q6
Arthur Booten.Re: [APRSSIG:7647] Re: APRS coordination in AZ
12:29 PM 3/17/96:32 1996r
~    Dick Mead.usc.eduU2000 modem mode
1:38 PM 3/17/968:21 1996r
Greg Jonesr.org%Re: [APRSSIG:7664] APRSSIG digest 463
b2:18 PM 3/17/9616:38 1996r$
Ronald Krameret#Re: [APRSSIG:7664] U2000 modem mode
42:50 PM 3/17/960:48 1996r+Bob Bruningan.navy.mil:Re: [APRSSIG:7654] help with Aprs MFJ 1278B &
Ultimeter 20
G-2:53 PM 3/17/964:44 1996r,YBob Bruningan.navy.milRe: [APRSSIG:7656] Maplists
tZ3:04 PM 3/17/963:53 1996r.Bob Bruningan.navy.milRe: [APRSSIG:7659] aprs75a bug?
3:33 PM 3/17/963:31 1996r5Bob Bruningan.navy.mil'Re: [APRSSIG:7666] Re: U2000 modem mode
a7:16 PM 3/17/967:08 1996rj
William Nolle.netRe: [APRSSIG:7659] aprs75a bug?
d7:19 PM 3/17/968:30 1996rjmelliott@ocslink.comCIBA Launch Notice
$B      7:21 PM 3/17/969:44 1996rkDavid E. Barrettdar-rapids.lib.ia.us$Re: [APRSSIG:7664] U2000 &
PICOpaket
-9:28 PM 3/17/9626:52 1996r
Ronald Krameret'Re: [APRSSIG:7670] Re: U2000 modem mode
39:27 PM 3/17/967:50 1996rBob Bruningan.navy.mil6Re: [APRSSIG:7657] Re: WO-18 Position/Status
reporting
@Xy9:31 PM 3/17/966:38 1996rBob Bruningan.navy.milSIMULATE.bas bug
DE9:35 PM 3/17/966:46 1996rHOLCOMB, GREGORY FRAA.EDU6Re: [APRSSIG:7657] Re: WO-18
Position/Status reporting
Yo
9:56 PM 3/17/968:12 1996r William B. Bliss/WB6LPG$GPGGA sentence
ctQ/11:58 PM 3/17/96:46 1996rSteve Dimsege.net6Re: [APRSSIG:7677] Re: WO-18 Position/Status
reporting
k812:14 AM 3/18/96:09 1996r
Bill Duckwitzspring.com-Re: [APRSSIG:7625] Re: GPS for landing planes
y4:39 AM 3/18/960:21 1996r Scott Millera.net    USGS MAPS
}1:07 AM 3/18/962:07 1996r2
Kevin Heyboergov.co.pinellas.fl.usAnother 75a bug?
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+7:25 AM 3/18/966:37 1996sGerald J Creageru)Re: [APRSSIG:7604] GPS for landing planes
9:29 AM 3/18/969:25 1996s1
William Nolle.netRe: [APRSSIG:7681] USGS MAPS
	8:17 AM 3/18/968:11 1996s Gerald J Creageru*Re: [APRSSIG:7628] APRS coordination in AZ
nM8:33 AM 3/18/963:48 1996s$
Larry Griffinmp.netGeoSystems Home Page
9:19 AM 3/18/964:45 1996s/Bob Bruningan.navy.mil6Re: [APRSSIG:7657] Re: WO-18 Position/Status
reporting
	S9:39 AM 3/18/969:44 1996s4&Bob Bruningan.navy.milRe: real foxhunt
\9:56 AM 3/18/966:29 1996s8GBob Bruningan.navy.mil6Re: [APRSSIG:7677] Re: WO-18 Position/Status
reporting
U10:13 AM 3/18/96:22 1996s<Gerald J Creageru#Re: [APRSSIG:7688] Re: real foxhunt
<-5:20 AM 3/18/966:52 1996riCharles W. Davidson.neocomm.net
Virginia Maps
10:48 AM 3/18/96:06 1996sDtDDOBBINS@aol.comGOLF TRACKING SYSTEM
	9:49 AM 3/18/966:30 1996s6lSadowski,P O4 USAF JCSAR/EDD6RE: [APRSSIG:7687] Re: WO-18
Position/Status reporting
(11:38 AM 3/18/96:52 1996sP!\Chris Terwilligerot.com.Re: [APRSSIG:7685] Re: APRS coordination in
AZ
U!11:09 AM 3/18/964:13 1996sI/Pete Lascell@ena-east.ericsson.see-mail access to WWWeb
11:45 AM 3/18/96:21 1996sQBob Bruningan.navy.milWO-18 digipeats...
l	u12:00 PM 3/18/96:38 1996sUDBob Bruningan.navy.mil
WO-18 pass
o12:41 PM 3/18/96:17 1996s^	Dick Meadl.usc.edu'Re: [APRSSIG:7666] Re: U2000 modem mode
fh412:46 PM 3/18/96:22 1996s_Steve Dimsege.net6Re: [APRSSIG:7687] Re: WO-18 Position/Status
reporting
`2:31 PM 3/18/964:20 1996sxMike Musickcompuserve.comOn the Road with APRS
.<!3:19 PM 3/18/969:47 1996sSteve Dimsege.net%Re: [APRSSIG:7696] WO-18 digipeats...
j3:23 PM 3/18/963:46 1996sWB4LTF@aol.comWinAPRS
<3:57 PM 3/18/966:53 1996sBob Bruningan.navy.mil6Re: [APRSSIG:7693] Re: WO-18 Position/Status
reporting
#Y4:05 PM 3/18/962:43 1996sRobert Kirke.gsfc.nasa.gov(Re: [APRSSIG:7700] On the Road with APRS
+ 4:10 PM 3/18/969:48 1996sBob Bruningan.navy.milRe: webersat
2
l9:15 AM 3/18/965:08 1996s.	Art SmithUHCOLORADO.EDU#Boston & NS Trip / Tracker Planning
?}4:36 PM 3/18/9639:37 1996s
Jay Millardios.com
U2000 Pinouts
DJ4:53 PM 3/18/963:56 1996s
Peter Laws.uark.edu*Re: [APRSSIG:7628] APRS coordination in AZ
IQ5:43 PM 3/18/965:01 1996sn2czf@gate.net*[APRSSIG:7685] Re: APRS coordination in AZ
Nc5:49 PM 3/18/960:52 1996sn2czf@gate.net'Re: [APRSSIG:7692] GOLF TRACKING SYSTEM
Stlc6:00 PM 3/18/9602:42 1996s
Randy Halladg.gvg.TEK.COM,Re: [APRSSIG:7704] Re: On the Road with APRS
d6:51 PM 3/18/965:11 1996s
TOM DONALDSONET7Re: [APRSSIG:7641] Re: Error Condition Re: UNSUBSCRIBE!
j7:00 PM 3/18/960:12 1996sBob Bruningan.navy.mil(Re: [APRSSIG:7700] On the Road with APRS
sbY7:07 PM 3/18/968:53 1996s[ Marvin Munster x85388Re: [APRSSIG:7702] WinAPRS
xB47:20 PM 3/18/965:10 1996sH Shayn Raneyjo.bayarea.netRe: [APRSSIG:7567] WinWeather
}y6:44 PM 3/18/9644:53 1996s	Jim Neelyen.com+Re: [APRSSIG:7710] Re: GOLF TRACKING SYSTEM
8:55 PM 3/18/965:10 1996sBob Bruningan.navy.milWO-18 Position tracking
8:59 PM 3/18/961:08 1996sGerald J Creageru'Re: [APRSSIG:7692] GOLF TRACKING SYSTEM
9:55 PM 3/18/965:17 1996srwf@mindspring.com*Re: [APRSSIG:7717] WO-18 Position tracking
10:24 PM 3/18/96:23 1996s ku0g@sprynet.com*Re: [APRSSIG:7628] APRS coordination in AZ
R
10:47 PM 3/18/96:41 1996s ku0g@sprynet.com(Re: [APRSSIG:7700] On the Road with APRS
F10:49 PM 3/18/96:42 1996sH ku0g@sprynet.comRe: [APRSSIG:7702] WinAPRS
2	10:57 PM 3/18/96:11 1996s ku0g@sprynet.com.Re: [APRSSIG:7708] Re: APRS coordination in AZ
Q1:15 AM 3/19/966:55 1996t
William Nolle.net!Re: [APRSSIG:7715] Re: WinWeather
k11:40 PM 3/18/96:30 1996s?Gerald J Creageru.Re: [APRSSIG:7720] Re: APRS coordination in AZ
	11:44 PM 3/18/96:00 1996sRGerald J Creageru.Re: [APRSSIG:7723] Re: APRS coordination in
AZ
810:23 PM 3/18/96:18 1996s>Donnie J. Murraym.comBuffer overflow errors
S
*1:28 AM 3/19/968:54 1996tSteve Dimsege.net.Re: [APRSSIG:7723] Re: APRS coordination in AZ

2:02 AM 3/19/9602:24 1996t\Mark Fellhauernet.com.Re: [APRSSIG:7720] Re: APRS coordination in AZ
	8:44 AM 3/19/964:46 1996tx
William Nolle.net.Re: [APRSSIG:7720] Re: APRS coordination in AZ

9:04 AM 3/19/964:29 1996t}k
William Nolle.net.Re: [APRSSIG:7725] Re: APRS coordination in AZ
9:08 AM 3/19/969:14 1996t~
William Nolle.net)Re: [APRSSIG:7727] Buffer overflow errors
7:49 AM 3/19/968:46 1996tk((
jack swiftnet,Re: [APRSSIG:7713] Re: On the Road with APRS
L8:14 AM 3/19/9615:01 1996tqMark SproulrgRe: [APRSSIG:7702] WinAPRS
"8:34 AM 3/19/963:48 1996tvpBob Bruningan.navy.mil,Re: [APRSSIG:7721] Re: On the Road with APRS
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'!8:34 AM 3/19/965:04 1996tvDavid W. Barrow IIIm.edu.Re: [APRSSIG:7725] Re: APRS coordination in
 AZ
.8:43 AM 3/19/963:03 1996txBob Bruningan.navy.mil.Re: [APRSSIG:7723] Re: APRS coordination in
AZ
48:48 AM 3/19/967:38 1996tyBob Bruningan.navy.mil)Re: [APRSSIG:7727] Buffer overflow errors
9T9:07 AM 3/19/969:01 1996t~9 ku0g@sprynet.com.Re: [APRSSIG:7730] Re: APRS coordination in AZ
?
;R1:14 AM 3/19/9640:10 1996t=Al Chan - W6DNTrgRe: GPS for landing
J89:53 AM 3/19/965:06 1996tMike Musickcompuserve.comOn the Road with APRS
R
v9:53 AM 3/19/965:22 1996tMike Musickcompuserve.comOn the Road with APRS
`u
3:34 AM 3/19/966:25 1996t0 Art SmithUHCOLORADO.EDUGPS w/ PMap2
kS      W11:10 AM 3/19/96:27 1996t
jack swiftnetRe: coordination
t
12:42 PM 3/19/96:10 1996t Kenneth J. MirabellaRe: [APRSSIG:7734] Re: WinAPRS
}3:11 PM 3/19/960:46 1996txBob Bruningan.navy.mil(Re: [APRSSIG:7741] On the Road with APRS
o4:02 PM 3/19/961:30 1996t_Bob Bruningan.navy.milWO-18
Y4:19 PM 3/19/960:51 1996trMichael Walkernterlog.comToronto-St. Petersburgh, FL
5:48 PM 3/19/961:51 1996tjn2czf@gate.net*[APRSSIG:7720] Re: APRS coordination in AZ
6:45 PM 3/19/966:39 1996uJames R. Kauten, M.D.PacComm Pico Packet with GPS
BW7:08 PM 3/19/968:46 1996uKeith Sproulees.rutgers.edu RE: PacComm Pico Packet with GPS
7:11 PM 3/19/963:14 1996uTerry Taylorreenet.seflin.lib.fl.us-Re: [APRSSIG:7625] Re: GPS for
landing planes
wKu7:52 PM 3/19/961:23 1996uABob Bruningan.navy.milWO-18 query
9:59 PM 3/19/966:12 1996u3)DDOBBINS@aol.comHAVE COPY OF GPS WORLD?
tK10:55 PM 3/19/96:30 1996u@-Bob Bruningan.navy.mil [APRSSIG:7753] WO-18 query (fwd)
H12:12 AM 3/20/964:35 1996uR>\Keven Millerk.comNMEA standards / FM time-of-day

~6:30 AM 3/19/966:42 1996tYl Bob Smithn.comRE: Position tracking via WO-18
1:35 AM 3/20/966:15 1996ueWB9WOZ@aol.comAPRS net
4:11 AM 3/20/962:45 1996ui Scott Millera.net/Re: [APRSSIG:7750] PacComm Pico Packet with GPS
j6:31 AM 3/20/962:47 1996u%William Manleyenet.seflin.lib.fl.us2Re: [APRSSIG:7756] NMEA
standards / FM time-of-day
G7:05 AM 3/20/965:42 1996uKeith Sproulees.rutgers.eduWinAPRS
@+)11:40 AM 3/20/96:40 1996u
Stephan Sykesirates.net.aeunsubscribe
k8:08 AM 3/20/969:19 1996uJAgrelo@aol.com3Re: [APRSSIG:7751] RE: PacComm Pico Packet with GPS
@      8:34 AM 3/20/966:58 1996u<Roberto Bastidas-BuchCHunsubscribe
K8:38 AM 3/20/968:47 1996uPaul Moller@csg.mot.com#Re: [APRSSIG:7633] Re: gps antenna?
.9:38 AM 3/20/9636:32 1996uLarry Keerantu.eduRe: [APRSSIG:7761] WinAPRS
.10:24 AM 3/20/96:50 1996uKeith Sproulees.rutgers.eduRe: [APRSSIG:7766] Re: WinAPRS

1:55 PM 3/20/966:32 1996v'Gerald J Creageru.Re: [APRSSIG:7730] Re: APRS coordination in AZ

       !2:13 PM 3/20/965:06 1996vGerald J Creageru&Re: [APRSSIG:7740] Re: GPS for landing

2:39 PM 3/20/960:58 1996vGerald J Creageru.Re: [APRSSIG:7749] Re: APRS coordination in AZ
 6:22 PM 3/20/962:10 1996vQ
Roger Goodt.net2Re: [APRSSIG:7756] NMEA standards / FM time-of-day
%
6:30 PM 3/20/961:02 1996vSWB4LTF@aol.comRe: [APRSSIG:7734] Re: WinAPRS
(A6:50 PM 3/20/961:45 1996vXaHOLCOMB, GREGORY FRAA.EDU2Re: [APRSSIG:7757] RE: Position tracking
via WO-18
18:25 PM 3/20/966:13 1996vnSteve Dimsege.netRe: [APRSSIG:7772] Re: WinAPRS
54k8:42 PM 3/20/962:22 1996vrBob Bruningan.navy.mil
WO-18 status?
;8:58 PM 3/20/968:06 1996vvdBob Bruningan.navy.milAPRS Torch tracking via SAT
B9:03 PM 3/20/962:40 1996vwwBob Bruningan.navy.mil2Re: [APRSSIG:7773] RE: Position tracking via
WO-18
HX9:10 PM 3/20/960:10 1996vy8Bob Bruningan.navy.milLatest MIM module
M12:15 AM 3/21/96:32 1996vn
William Nolle.net.Re: [APRSSIG:7768] Re: APRS coordination in AZ
a11:29 PM 3/20/96:33 1996vWilliam Richarzcom.comMFJ 8621 xtals
f12:07 AM 3/21/96:07 1996vRon MalinowskiomGarmin 45 data wiring question
mo2:01 AM 3/21/963:17 1996v<
Miami Networkimail.com$Re: [APRSSIG:7778] Latest MIM module
q347:53 AM 3/21/9656:48 1996wJay Millardios.comU2000 Wx Station+Macintosh
ug3:20 AM 3/21/967:40 1996v TWEEDY, MIKE  WH:2453comRe: NMEA standards /
{J#"8:18 AM 3/21/9618:40 1996w4Dr. Pat M Crawford - Louisiana State University (SVM.Re:
[APRSSIG:7770] Re: APRS coordination in AZ
}m      9:33 AM 3/21/9634:00 1996w'WDick Ruckers.cais.com&Re: [APRSSIG:7769] Re: GPS for landing
10:08 AM 3/21/96:21 1996w/aDr Samuel Guccionetcc.edu%Re: [APRSSIG:7672] CIBA Launch Notice
(
10:37 AM 3/21/969:36 1996w6c
David Barrett.cedar-rapids.lib.ia.us3Re: [APRSSIG:7763] RE: PacComm Pico Packet with GPS
10:41 AM 3/21/96:29 1996w7Baker, Donn B               RV'RE: [APRSSIG:7784] Re: NMEA standards
/
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a12:27 PM 3/21/96:57 1996wP
 ku0g@sprynet.comRe: [APRSSIG:7774] Re: WinAPRS

12:59 PM 3/21/96:01 1996wW
Greg Jonesr.org%Re: [APRSSIG:7787] APRSSIG digest 468
9k12:50 PM 3/21/96:08 1996wUfGwyn Reedy, W1BELGPS Antenna Specs.
1:19 PM 3/21/964:55 1996w\Xdwiant@ag.netGarmin-45/Lost data
11:26 AM 3/21/96:10 1996wAZDI Software Library Temp@zd.comZDNet News Flash!
F9:53 AM 3/21/965:08 1996w+
mark@y100.com2Re: [APRSSIG:7756] NMEA standards / FM time-of-day
!/1:58 PM 3/21/9658:19 1996wevRobert Winninghamt1Re: [APRSSIG:7781] Garmin 45 data wiring question
P      ~1:26 PM 3/21/9626:25 1996w]      Jim Neelyen.com1Re: [APRSSIG:7781] Garmin 45 data wiring
 question
i      3:05 PM 3/21/966:20 1996wuWB9WOZ@aol.como\3:29 PM 3/21/960:53 1996wz
ku0g@sprynet.com.Re: [APRSSIG:7776] APRS Torch tracking via SAT
3:31 PM 3/21/9631:32 1996w{)
David Chesser.com)Re: [APRSSIG:7787] Re: CIBA Launch Notice
U5:40 PM 3/21/963:26 1996w\mark.endicott@nashville.comLast Call for Maxon Transmitter
{7:59 PM 3/21/969:13 1996wBob Bruningan.navy.mil&Re: [APRSSIG:7793] Garmin-45/Lost data
le9:25 PM 3/21/966:08 1996wArwf@mindspring.com1Re: [APRSSIG:7781] Garmin 45 data wiring question
       12:07 AM 3/22/96:08 1996w;Gerald J Creageru.Re: [APRSSIG:7779] Re: APRS coordination in
AZ
3:36 PM 3/21/961:09 1996w|h ku0g@sprynet.com.Re: [APRSSIG:7737] Re: APRS coordination in AZ
 4:47 AM 3/22/966:18 1996x5Fred Quarleset2Re: [APRSSIG:7801] Last Call for Maxon Transmitter
$J8:14 AM 3/22/964:23 1996xf4
William Nolle.net.Re: [APRSSIG:7804] Re: APRS coordination in AZ
,7:25 AM 3/22/961:28 1996xZmark.endicott@nashville.com5Re:[APRSSIG:7806] Re: Last Call for Maxon
 Transmitter
0      O8:06 AM 3/22/966:51 1996xdkBruce W. Martinnk.netRe: APRS coordination in AZ
98:22 AM 3/22/963:14 1996xhGerald J Creageru.Re: [APRSSIG:7807] Re: APRS coordination in AZ
I8:31 AM 3/22/962:18 1996xjPJAgrelo@aol.com"Need David Chesser's email address
P;8:32 AM 3/22/963:14 1996xjiGerald J Creageru.Re: [APRSSIG:7807] Re: APRS coordination in AZ
[F8:49 AM 3/22/966:36 1996xn Pat Bunsoldi.csufresno.edu145.79
c10:43 AM 3/22/96:42 1996x/ William B. Bliss/WB6LPGNMEA-0183 Interface Standard.
ku10:58 AM 3/22/96:43 1996x
Wannamaker@macnet.vpharm.comCross country flight and APRS?
q
&8:22 AM 3/22/966:48 1996xh6JAgrelo@aol.com3Re: [APRSSIG:7788] RE: PacComm Pico Packet with GPS
{]12:20 PM 3/22/96:34 1996x     Dick Meadl.usc.eduRe: [APRSSIG:7813] 145.79
      q4:49 PM 3/22/960:30 1996xn2czf@gate.netAnyone interested in 220 MHz
f5:17 PM 3/22/968:06 1996xRonald C. Barnesnc.net)Re: [APRSSIG:7727] Buffer overflow errors
[M
9:15 PM 3/22/966:04 1996yQKSwaggart@aol.comRe: 145.79 in N. Calif
11:26 PM 3/22/96:54 1996y;Fred Quarleset.Re: [APRSSIG:7812] Re: APRS coordination in AZ

HR3:21 PM 3/22/9660:56 1996xXAl Chan - W6DNTrgRe: GPS for landing
11:01 PM 3/22/96:17 1996y6
Sean Smithersnet1Re: [APRSSIG:7815] Cross country flight and APRS?
7:36 AM 3/23/967:00 1996y
William Nolle.net5Re: [APRSSIG:7823] Re: Cross country flight and APRS?
m"10:11 AM 3/23/961:48 1996y)Dick Ruckers.cais.com&Re: [APRSSIG:7822] Re: GPS for landing
# 11:09 AM 3/23/96:11 1996y Bob Wilkins n6frimRe: [APRSSIG:7813] 145.79
o4:14 PM 3/23/9615:22 1996z(PJames A Warakoistd.comReset to "Stand-Alone"
@4:58 PM 3/21/964:44 1996w{Dave Kaplannet.netKing KLN90B
@O5:59 PM 3/23/969:37 1996z@rwf@mindspring.com)Re: [APRSSIG:7827] Reset to "Stand-Alone"
y9:25 PM 3/23/963:28 1996zq
Randy Hammockelos.com)Re: [APRSSIG:7827] Reset to "Stand-Alone"
K      1:11 AM 3/24/960:46 1996z John Maloney.teleport.com
Garmin GPS 45
Sb6:42 AM 3/24/962:52 1996zKD4EMI@aol.comRe: aprs adaptor
      7:14 AM 3/24/965:04 1996zQrwf@mindspring.com Re: [APRSSIG:7831] Garmin GPS 45
E%7:17 AM 3/24/967:51 1996zrwf@mindspring.com#Re: [APRSSIG:7832] Re: aprs adaptor
j8:35 AM 3/24/965:16 1996{4
AZWDC@aol.comRe: [APRSSIG:7828] King KLN90B
N9:31 AM 3/24/969:56 1996{e
William Nolle.netCD 100K maps
@10:04 AM 3/24/96:07 1996{#WB9WOZ@aol.comNIAN net
10:24 AM 3/24/96:27 1996{'
W2HOB@aol.com#Re: [APRSSIG:7832] Re: aprs adaptor
"10:52 AM 3/24/96:59 1996{.GKD4EMI@aol.comNew wx monitor ? ?
8:22 AM 3/24/962:33 1996{mark.endicott@nashville.com     Filters ?
T73:19 PM 3/24/961:41 1996{lMike Tyrrellcompuserve.comGarmin 45 track log -> APRS HST
"S4:04 PM 3/24/964:16 1996{wP BWYATT@MESNET.MESONET.UOKNOR.EDU'Brand new to this branch of the
hobbie.
(H$5:08 PM 3/24/969:45 1996{jDave Kaplannet.net"Re: [APRSSIG:7835] Re: King KLN90B
M6A5:42 PM 3/24/963:44 1996{Ln2czf@gate.net%Re: [APRSSIG:7839] New wx monitor ? ?
Rw7:47 PM 3/24/968:38 1996{Gerald J Creageru.Re: [APRSSIG:7821] Re: APRS coordination in AZ
W7:54 PM 3/24/965:11 1996{=Gerald J Creageru&Re: [APRSSIG:7822] Re: GPS for landing
_c      8:06 PM 3/24/967:37 1996{%Gerald J CreageruRe: [APRSSIG:7826] Re: 145.79
i<8:12 PM 3/24/964:03 1996{Gerald J CreageruRe: [APRSSIG:7828] King KLN90B
n'g8:25 PM 3/24/966:13 1996{Gerald J Creageru2Re: [APRSSIG:7841] Garmin 45 track log -> APRS HST
s
8:25 PM 3/24/966:24 1996{KD4EMI@aol.comWhether weather will work
weR11:51 AM 3/24/967:07 1996{<9Al Chan - W6DNTrgRe: GPS for landing
y10:07 PM 3/24/96:20 1996{Dorwf@mindspring.comRe: [APRSSIG:7847] Re: 145.79
F11:40 PM 3/24/96:03 1996{HWB9WOZ@aol.comNIAN net
j1:02 AM 3/25/968:22 1996{
Kevin Heyboergov.co.pinellas.fl.us,Re: [APRSSIG:7850] Whether weather will work
68:27 AM 3/25/967:12 1996|]
Tom MartinMacAprs>Mac Plus
7:02 AM 3/25/9602:24 1996|IDick Ruckers.cais.com&Re: [APRSSIG:7851] Re: GPS for landing
7:25 AM 3/25/963:43 1996|OO
Randy Hammockelos.com2Re: [APRSSIG:7841] Garmin 45 track log -> APRS HST
a8:07 AM 3/25/966:49 1996|Y Paul Moller@csg.mot.com%Re: [APRSSIG:7839] New wx monitor ? ?
S
8:32 AM 3/25/969:38 1996|^Tom Kinahanl1.bytex.network.comBAA Boston Marathon Maps
e78:38 AM 3/25/967:05 1996|`OFred Quarleset9Re: [APRSSIG:7808] Re:Re: Last Call for Maxon
Transmitter
8:58 AM 3/25/9658:46 1996|d
Richard Parrymm.comHow do you save MacAPRS config?
T#5:15 AM 3/25/962:17 1996|0
Greg Blairgp.toronto.edu Cheap A/D for New wx monitor ? ?
10:04 AM 3/25/96:57 1996|t Jan Barglowski.vislab.navy.milRe: [APRSSIG:7836] CD 100K maps
~s:10:36 AM 3/25/96:34 1996||)Mark Lehmannc1.nerc.com2Re: [APRSSIG:7861] How do you save MacAPRS
config?
2:42 PM 3/25/966:20 1996|
William Nolle.net#Re: [APRSSIG:7863] Re: CD 100K maps
14:34 AM 3/25/968:59 1996|'NBrad Thomasomm.comFT-2400 Problem
5:50 PM 3/25/961:02 1996|
William Nolle.netHSP Mode
.4:00 PM 3/25/9601:19 1996|Tom Flemingison.tec.wi.us#Re: How do you save MacAPRS config?
>10:38 PM 3/24/96:39 1996{Bob Bruningan.navy.milWB4APR lost traffic?
o}10:46 PM 3/24/96:41 1996{Bob Bruningan.navy.milOlympic TorchSE.bk
p}10:46 PM 3/24/96:44 1996{Bob Bruningan.navy.milOlympic TorchGA.bk
#%5:38 PM 3/25/969:07 1996|KD4EMI@aol.com0Re: [APRSSIG:7854] Re: Whether weather will work
*D5:40 PM 3/25/962:08 1996|v ku0g@sprynet.com)Re: [APRSSIG:7820] Re: 145.79 in N. Calif
/c5:49 PM 3/25/960:38 1996|n2czf@gate.net&Re: [APRSSIG:7852] Re: 145.79 and ROSE
3@5:57 PM 3/25/968:36 1996|gn2czf@gate.net.com[APRSSIG:7866] FT-2400 Problem
:P6:01 PM 3/25/961:54 1996|q\Alan K. Unangstet.comWB4APR E-Mail Address ????
?
6:17 PM 3/25/9614:24 1996|
David Chesser.com2Re: [APRSSIG:7861] How do you save MacAPRS config?
A
[6:48 PM 3/25/968:08 1996|eJohn R. B. Adamsg.comNEC 2000D laptop w/APRS 7.5
LZEZ6:57 PM 3/25/968:02 1996|`Claude 995-5040 pager 4541/RE: [APRSSIG:7818] Anyone interested in
220 MHz
P
d8:49 PM 3/25/969:00 1996}Bob Bruningan.navy.milSatellite Experimenets...
[8:59 PM 3/25/968:36 1996}Bob Bruningan.navy.milRe: wo18
a9:47 PM 3/25/966:59 1996}ZBob Bruningan.navy.milRe: [APRSSIG:7828] King KLN90B
is9:54 PM 3/25/963:49 1996}Bob Bruningan.navy.milRe: [APRSSIG:7826] Re: 145.79
p/10:03 PM 3/25/96:18 1996}-Bob Bruningan.navy.mil/Re: [APRSSIG:7818] Anyone interested in 220
MHz
wc10:16 PM 3/25/96:18 1996} 9Bob Bruningan.navy.milRe: [APRSSIG:7867] HSP Mode
}y10:29 PM 3/25/96:02 1996}#3Bob Bruningan.navy.mil.Re: [APRSSIG:7878] NEC 2000D laptop w/APRS
7.5
t12:13 AM 3/26/96:32 1996};Ron MalinowskiomRe:FT-2400 Problem
7:59 AM 3/26/969:56 1996}
William Nolle.netRe: [APRSSIG:7885] Re: HSP Mode
8:19 AM 3/26/960:02 1996}
Tom MartinMacPlus to PK-88
7:44 AM 3/26/961:15 1996}2Gwyn Reedy, W1BELRe: [APRSSIG:7867] HSP Mode
U11:41 AM 3/26/962:15 1996}
David Barrett.cedar-rapids.lib.ia.us Re: [APRSSIG:7870] Olympic Torch
]12:15 PM 3/26/966:56 1996}
David Barrett.cedar-rapids.lib.ia.usRe: [APRSSIG:7881] Re: wo18
=12:25 PM 3/26/96:32 1996}Bob Bruningan.navy.milRe: [APRSSIG:7840] Filters ?
,2:48 PM 3/26/963:57 1996~Mike Musickcompuserve.comRe: 220 MHz
F4:16 PM 3/26/966:12 1996~&rwf@mindspring.comRe: [APRSSIG:7890] Re: HSP Mode
      4:39 PM 3/26/961:29 1996~"Bob Bruningan.navy.milRe: Olympic Torch
n5:18 PM 3/26/960:14 1996~+n2czf@gate.net/[APRSSIG:7884] Re: Anyone interested in 220 MHz
WPQ6:43 PM 3/26/963:47 1996~?
Larry Griffinmp.netRe: ?? Food in San Diego
6:50 PM 3/26/960:45 1996~A; Jon T Adams@jpl.nasa.gov$Re: [APRSSIG:7896] Re: Olympic Torch
d8:27 PM 3/26/968:15 1996~X)Ben Pollard.net3RE: [APRSSIG:7884] Re: Anyone interested in 220 MHz
Q12:26 AM 3/27/96:40 1996~+ Steve Duboisa.com3RE: [APRSSIG:7897] Re: Anyone interested in 220 MHz

l12:14 AM 3/27/96:46 1996~2
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William Nolle.net+Re: [APRSSIG:7898] Re: ?? Food in San Diego
x-11:33 PM 3/26/96:36 1996~Bob Bruningan.navy.milDIGIS!!!!  WHERE are they?
11:58 PM 3/26/968:34 1996~v
Roger Sellersa.net#Re: [APRSSIG:7834] Re: aprs adaptor
'+7:50 AM 3/27/965:40 1996~WB4LTF@aol.com+Re: [APRSSIG:7902] Re: ?? Food in San Diego
)l9:38 AM 3/27/967:58 1996iBob Bruningan.navy.mil#Re: [APRSSIG:7904] Re: aprs adaptor
.7:08 AM 3/27/961:04 1996~Vmark.endicott@nashville.comMaxon Crystals
3*      79:22 AM 3/27/966:57 1996
Bruce W. Martinnk.NetRe: DIGIS!!!!  WHERE are they?
<a12:46 PM 3/27/96:06 1996=Gerald J Creageru&Re: [APRSSIG:7851] Re: GPS for landing
N
11:36 AM 3/27/96:43 1996-ZDI Software Library Temp@zd.comZDNet News Flash!
[1:58 PM 3/27/960:11 1996NxGerald J Creageru$Re: [APRSSIG:7911] ZDNet News Flash!
`2:23 PM 3/27/9623:17 1996T9Robert Winninghamt#Re: [APRSSIG:7904] Re: aprs adaptor
pK3:05 PM 3/27/966:28 1996^0
AD4CR@aol.comHelp on .dat files
s]4:37 PM 3/27/968:41 1996sn2czf@gate.net3Re: [APRSSIG:7901] Re: Anyone interested in 220 MHz
ztS4:43 PM 3/27/964:52 1996un2czf@gate.net-Re: [APRSSIG:7903] DIGIS!!!!  WHERE are they?
'l6:23 PM 3/27/965:36 1996William Neal        GPS Board

S10:13 AM 3/27/962:38 1996Al Chan - W6DNTrgRe: GPS for landing.
27:52 PM 3/27/962:45 1996gJohn F. Kraus II)[APRSSIG:7903] DIGIS!!!!  WHERE are they?
u8:10 PM 3/27/969:39 1996Bob Bruningan.navy.milRe: [APRSSIG:7917] GPS Board
b8:40 PM 3/27/960:37 1996
KS4NY@aol.com,Re: [APRSSIG:7903] DIGIS!!!! WHERE are they?

9:13 PM 3/27/963:09 1996lBob Bruningan.navy.mil,Re: [APRSSIG:7919] DIGIS!!!! WHERE are they?
10:44 PM 3/27/96:37 1996Arte Bootenom$Re: [APRSSIG:7911] ZDNet News Flash!
k
10:08 PM 3/27/96:15 1996'Gerald J Creageru'Re: [APRSSIG:7918] Re: GPS for landing.
5Qp10:12 PM 3/27/96:42 1996&Bob Bruningan.navy.milTORCH PLANS!
10:17 PM 3/27/96:25 1996Nrwf@mindspring.com-Re: [APRSSIG:7919] DIGIS!!!!  WHERE are they?
h10:28 PM 3/27/96:06 1996KD4EMI@aol.comWeather breakthrough
10:46 PM 3/27/96:22 19963
Peter Markhamlssu.edu-Re: [APRSSIG:7903] DIGIS!!!!  WHERE are they?
T1:09 AM 3/28/966:42 1996
William Nolle.netDigi
      11:16 PM 3/27/96:43 1996  ku0g@sprynet.com0Re: [APRSSIG:7921] Re: DIGIS!!!! WHERE are
they?
a`10:20 PM 3/27/96:31 1996

Larry Griffinmp.net$RE: [APRSSIG:7911] ZDNet News Flash!
Y
4:58 AM 3/28/960:04 1996!nJohn W  Wilsonenet.seflin.lib.fl.us0Re: [APRSSIG:7872] Re: Whether
weather will work
?
5:06 AM 3/28/967:22 1996##John W  Wilsonenet.seflin.lib.fl.us.Re: [APRSSIG:7878] NEC 2000D laptop
 w/APRS 7.5
R>7:22 AM 3/28/963:04 1996C

Larry Griffinmp.netOoops
/|10:07 AM 3/28/96:04 1996i
William Nolle.net       Mapmaking
b+4:49 AM 3/28/965:53 19968
Greg Blairgp.toronto.edu(Re: [APRSSIG:7923] Re: ZDNet News Flash!

10:51 AM 3/28/96:46 1996t
William Nolle.net       Mapmaking
$9:38 AM 3/28/967:40 1996bBob Bruningan.navy.milTORCH RUN *test* underway
+9:52 AM 3/28/962:03 1996fFBob Bruningan.navy.milRe: [APRSSIG:7937] Mapmaking
"51:17 PM 3/28/966:34 1996=
William Nolle.netNew Maps
&J1:08 PM 3/28/966:19 19962Arte BootenomZiff-Davis SPAM Idea!
-Ca2:19 PM 3/28/966:49 1996
William Nolle.net Re: [APRSSIG:7939] Re: Mapmaking
23:14 PM 3/28/965:13 1996
William Nolle.netMaps
6P      2:53 PM 3/28/967:42 1996 Thomas Griffin - x77792 Olympic Torch tracking questions
?m      3:19 PM 3/28/969:41 1996Jimrse@aol.comAPRS/GPS
H3:21 PM 3/28/962:53 1996R ku0g@sprynet.comRe: [APRSSIG:7925] TORCH PLANS!
M3:23 PM 3/28/965:14 1996 ku0g@sprynet.com'Re: [APRSSIG:7927] Weather breakthrough
P3:28 PM 3/28/968:46 1996Alan Crosswell.columbia.edu(Re: [APRSSIG:7941] Ziff-Davis SPAM Idea!
Xv3:48 PM 3/28/967:45 1996Bob Bruningan.navy.milMOTOROLA.exe
]D6:49 PM 3/28/960:39 1996      Will Florroup.comSA Off? Details tomorrow
a5:05 PM 3/28/965:41 1996KD4EMI@aol.com+Re: [APRSSIG:7947] Re: Weather breakthrough
ei5:10 PM 3/27/966:50 1996{eKevin Kellyx.netMaps needed
i5:42 PM 3/28/962:59 1996yrwf@mindspring.comRe: [APRSSIG:7949] MOTOROLA.exe
m5:44 PM 3/28/963:58 1996Bob Bruningan.navy.mil3Re: [APRSSIG:7944] Olympic Torch tracking
questions
```

```
vE5:51 PM 3/28/960:49 1996Bob Bruningan.navy.milRe: [APRSSIG:7945] APRS/GPS
|5:55 PM 3/28/965:03 1996Bob Bruningan.navy.mil Re: [APRSSIG:7942] Re: Mapmaking
}6:02 PM 3/28/961:30 1996Bob Bruningan.navy.milRe: Mail Spam (fwd)
6:03 PM 3/28/962:58 1996ZBob Bruningan.navy.milRe: [APRSSIG:7952] Maps needed
6:34 PM 3/28/9634:56 1996gordon_hardman+Re: [APRSSIG:7898] Re: ?? Food in San Diego
@7:44 PM 3/28/964:10 1996rwf@mindspring.comMap Making Problem?
!10:24 PM 3/28/96:40 1996h
William Nolle.net Re: [APRSSIG:7956] Re: Mapmaking
10:25 PM 3/28/96:23 1996
William Nolle.net+Re: [APRSSIG:7959] Re: ?? Food in San Diego
'8:58 PM 3/28/968:23 1996CAlan Crosswell.columbia.edu+Re: [APRSSIG:7950] SA Off? Details
tomorrow
11:25 PM 3/28/96:03 1996$
William Nolle.net&Re: [APRSSIG:7960] Map Making Problem?
9:28 PM 3/28/967:59 1996    \David E. Barrettdar-rapids.lib.ia.us-Re: [APRSSIG:7903] DIGIS!!!!
WHERE are they?
<10:13 PM 3/28/96:52 1996Bob Bruningan.navy.mil&Re: [APRSSIG:7960] Map Making Problem?
10:12 PM 3/28/96:45 1996 ku0g@sprynet.com+Re: [APRSSIG:7959] Re: ?? Food in San Diego
310:16 PM 3/28/96:37 1996Bob Bruningan.navy.mil Re: [APRSSIG:7961] Re: Mapmaking
10:28 PM 3/28/96:04 1996PAlan Crosswell.columbia.edu/Re: [APRSSIG:7963] Re: SA Off? Details
tomorrow
10:50 PM 3/28/96:59 1996Paul E. Knupke Jr. (KR4YL)uRe: [APRSSIG:7929] Digi
110:57 PM 3/28/96:32 19967Paul E. Knupke Jr. (KR4YL)uRe: [APRSSIG:7925] TORCH PLANS!
L10:59 PM 3/28/96:43 1996Bob Bruningan.navy.milWayne Green & Screen Captures
$1:19 AM 3/29/966:06 1996?
William Nolle.net
MapsMakers
@1:24 AM 3/29/966:08 1996@
William Nolle.net       MapMakers
2:30 AM 3/29/966:18 1996P
William Nolle.net*Re: [APRSSIG:7966] Re: Map Making Problem?
2:35 AM 3/29/966:34 1996QN
William Nolle.net Re: [APRSSIG:7968] Re: Mapmaking
]2:37 AM 3/29/966:11 1996Q
William Nolle.net+Re: [APRSSIG:7967] Re: ?? Food in San Diego
1:15 AM 3/29/965:09 1996>wJohn F. Kraus II,Re: [APRSSIG:7919] DIGIS!!!! WHERE are they?
35:49 AM 3/29/969:35 1996~
William Nolle.net0Re: [APRSSIG:7978] Re: DIGIS!!!! WHERE are they?
f7:31 AM 3/29/961:34 1996Bruce W. Martinnk.netK-Net digi?
 7:50 AM 3/29/969:04 1996A
Randy Hammockelos.com/Re: [APRSSIG:7963] Re: SA Off? Details tomorrow
7:54 AM 3/29/964:55 1996(rwf@mindspring.com0Re: [APRSSIG:7979] Re: DIGIS!!!! WHERE are they?
N8:31 AM 3/29/961:42 1996rwf@mindspring.comRe: Map Making Problem?
%8:45 AM 3/29/964:24 1996Ralph R. SwickRe: [APRSSIG:7945] APRS/GPS
)10:01 AM 3/29/96:23 1996Paul Moller@csg.mot.comRe: [APRSSIG:7980] K-Net digi?
5,10:13 AM 3/29/96:30 1996Bob Bruningan.navy.mil*Re: [APRSSIG:7975] Re: Map Making Problem?
;010:28 AM 3/29/96:36 1996Bob Bruningan.navy.milRe: [APRSSIG:7980] K-Net digi?
B10:33 AM 3/29/96:26 1996ABob Bruningan.navy.mil*Re: [APRSSIG:7983] Re: Map Making Problem?
G23:46 AM 3/29/966:50 1996a      Art SmithUHCOLORADO.EDU75a "problems" on P5 system
R
&12:53 PM 3/29/96:11 1996:
William Nolle.net*Re: [APRSSIG:7975] Re: Map Making Problem?
`1:05 PM 3/29/966:57 1996
William Nolle.net0Re: [APRSSIG:7982] Re: DIGIS!!!! WHERE are they?
fi11:42 AM 3/29/96:31 1996
jack swiftnet"Tourists using Wide & Relay & Gate
osmK11:46 AM 3/29/96:06 1996uSteven R. Biblet.net*SA is history: Wall Street Journal article
r2:12 PM 3/29/966:34 1996
William Nolle.net*Re: [APRSSIG:7983] Re: Map Making Problem?
R!12:16 PM 3/29/96:24 1996hGerald J Creageru(Re: [APRSSIG:7941] Ziff-Davis SPAM Idea!
s      2:51 PM 3/29/966:34 1996
William Nolle.net*Re: [APRSSIG:7988] Re: Map Making Problem?
      {12:56 PM 3/29/96:28 1996rwf@mindspring.com5Re: [APRSSIG:7992] Tourists using Wide &
Relay & Gate
S2:19 PM 3/29/961:08 1996V ku0g@sprynet.com0Re: [APRSSIG:7972] Wayne Green & Screen Captures
M2:19 PM 3/29/961:14 1996a ku0g@sprynet.com(Re: [APRSSIG:7941] Ziff-Davis SPAM Idea!
2:22 PM 3/29/964:05 1996 ku0g@sprynet.com+Re: [APRSSIG:7977] Re: ?? Food in San Diego
:2:58 PM 3/29/968:11 1996Bob Bruningan.navy.mil5Re: [APRSSIG:7992] Tourists using Wide &
Relay & Gate
h5:08 PM 3/29/968:34 1996
William Nolle.net*Re: [APRSSIG:7986] Re: Map Making Problem?
E>3:34 PM 3/29/964:51 1996rwf@mindspring.com*Re: [APRSSIG:7996] Re: Map Making Problem?
4:28 PM 3/29/969:16 1996wn2czf@gate.net0Re: [APRSSIG:7972] Wayne Green & Screen Captures
w4:47 PM 3/29/968:09 1996n2czf@gate.netRe: [APRSSIG:7970] Re: Digi
3M11:59 AM 3/29/96:55 1996Charles W. Davidson.neocomm.net,Re: [APRSSIG:7995] Re: Ziff-Davis SPAM
 Idea!
8:26 PM 3/29/966:59 1996Lg
William Nolle.net*Re: [APRSSIG:8003] Re: Map Making Problem?
C|6:38 PM 3/29/968:16 19962Ozzie N4SCYal.net!Re: Wayne Green & Screen Captures
```

```
w6:42 PM 3/29/961:36 19963Bob Bruningan.navy.milMOTOROLA.zip
e&1:59 PM 3/29/962:29 1996Charles W. Davidson.neocomm.netAO-27
Q8:53 PM 3/29/963:27 1996R Clifford ButtschardtRe: [APRSSIG:7917] GPS Board
10:40 PM 3/29/96:03 1996kArte BootenomRe: Ziff-Davis SPAM Idea!
10:04 PM 3/29/96:26 1996c4Bob Bruningan.navy.milRe: [APRSSIG:8010] AO-27
|10:36 PM 3/29/96:23 1996j matthies@xanadu.ncia.comAPRS74e Registration
Y11:19 PM 3/29/96:35 1996t    John Baumenet.columbus.oh.us*Re: [APRSSIG:8002] Re: Map Making
Problem?
6:46 AM 3/30/961:39 1996mark.endicott@nashville.com
Dayton Symbol
:8:58 AM 3/30/960:17 1996 ku0g@sprynet.com Re: [APRSSIG:8016] Dayton Symbol
H11:01 AM 3/30/96:33 1996d
William Nolle.net Re: [APRSSIG:8016] Dayton Symbol
k11:08 AM 3/30/96:52 1996
William Nolle.net       MapMaking
!
9:19 AM 3/30/969:18 1996pOzzie N4SCYal.net
Dayton Symbol
+
@9:20 AM 3/30/961:14 1996WB9WOZ@aol.comNIAN VHF/HF net
511:41 AM 3/30/96:00 1996" Clifford Buttschardt'Re: [APRSSIG:7918] Re: GPS for landing.
A.11:53 AM 3/30/96:20 1996%
Steve Halletcom.com Re: [APRSSIG:8016] Dayton Symbol
IO12:36 PM 3/30/96:24 1996/ Thomas Griffin - x77792/Calling all Portland, OR and Vancouver, WA
hams
MP2:25 PM 3/30/965:20 1996I*rwf@mindspring.com$Re: [APRSSIG:8018] Re: Dayton Symbol
RJ      ]3:28 PM 3/30/968:47 1996XROBERT R. OTTO Re: [APRSSIG:8016] Dayton Symbol
[R4:31 PM 3/30/962:21 1996fClaude 995-5040 pager 4541'New Federal statement on GPS SA status.
dof6:58 PM 3/30/968:21 1996#
William Nolle.net$Re: [APRSSIG:8025] Re: Dayton Symbol
kA5:12 PM 3/30/961:36 1996pV Dave Willeyll.wco.comRe: [APRSSIG:7813] 145.79
{5:19 PM 3/30/969:26 1996q
Greg Jonesr.org%Re: [APRSSIG:8028] APRSSIG digest 479
w5:52 PM 3/30/9610:47 1996yJames A Warakoistd.comKPC-3 (6.0) Garmin 45..problem
@8:11 PM 3/30/961:28 1996L Clifford Buttschardt)Re: [APRSSIG:8030] Re: APRSSIG digest 479
^(8:35 PM 3/30/966:01 1996David G. Henderson%Reading the baro pressure with U-2000
-~9:13 PM 3/30/964:31 1996n2czf@gate.net1Re: [APRSSIG:8031] KPC-3 (6.0) Garmin 45..problem
      10:28 PM 3/30/968:49 1996|Robert Wininghamt1Re: [APRSSIG:8031] KPC-3 (6.0) Garmin
45..problem
0K10:41 PM 3/30/96:13 1996{
Bob Derderianet.netRE: Dayton symbol
{2:04 AM 3/31/965:00 1996$\Mark Fellhauernet.com:Re: [APRSSIG:8027] New Federal statement on GPS
 SA status.j5:09 AM 3/31/969:34 1996`
William Nolle.net5Re: [APRSSIG:8034] Re: KPC-3 (6.0) Garmin 45..problem
 6:04 AM 3/31/964:56 1996%_
William Nolle.net       MapMaking
A5:26 AM 3/31/967:37 1996H
Miami Networkimail.com
GPS Sentences
J6:43 AM 3/31/963:16 1996.`David W. Barrow IIIm.edu Re: [APRSSIG:8016] Dayton Symbol
+e12:27 PM 3/31/96:49 1996*
Stephan Sykesirates.net.aePlease help
11:04 AM 3/30/96:14 1996Dave Kaplannet.netRe: [APRSSIG:8042] Please help
11:04 AM 3/31/96:13 1996kSteve Dimsege.net$Re: [APRSSIG:8041] Re: Dayton Symbol
911:11 AM 3/31/96:02 1996mNSteve Dimsege.net:Re: [APRSSIG:8037] Re: New Federal statement on
GPS SA staUs1:12 PM 3/31/966:26 1996
William Nolle.netRe: [APRSSIG:8042] Please help
,11:32 AM 3/31/96:35 1996r,James R. Kauten, M.D.Windows version PC-DSP
2:18 PM 3/31/960:00 1996.n2czf@gate.net0[APRSSIG:8038] Re: KPC-3 (6.0) Garmin 45..KE4EER
      11:05 AM 3/31/96:48 1996kJohn W.(Bill) Hays:Re: [APRSSIG:8037] Re: New Federal statement
on GPS SA stav3:48 PM 3/31/9648:35 19960Robert Wininghamt)Re: [APRSSIG:8047] Windows version
PC-DSP
g4:15 PM 3/31/9615:32 1996s
Roger Sellersa.netHow to put it all together?
ur6:09 PM 3/31/9610:23 1996MJames A Warakoistd.comFailure of KPC-3  (6.0) ?

v6:30 PM 3/31/960:40 1996Mike Walkererlog.com1Re: [APRSSIG:8031] KPC-3 (6.0) Garmin 45..problem
6:30 PM 3/31/960:42 1996Mike Walkererlog.comRe: [APRSSIG:7980] K-Net digi?
s8:19 PM 3/31/961:11 1996Gerald J Creageru*Re: [APRSSIG:8002] Re: Map Making Problem?
8:23 PM 3/31/962:38 1996Bob Bruningan.navy.mil8Re: [APRSSIG:8033] Reading the baro pressure
with U-2000
#8:48 PM 3/31/967:59 1996Bob Bruningan.navy.mil$Re: [APRSSIG:8044] Re: Dayton Symbol
'8:53 PM 3/31/964:59 1996Gerald J Creageru:Re: [APRSSIG:8037] Re: New Federal statement on GPS
SA sta2%8:56 PM 3/31/967:34 1996`Gerald J Creageru5Re: [APRSSIG:8038] Re: KPC-3 (6.0) Garmin
45..problem
8 11:08 PM 3/31/96:46 19968
William Nolle.net4Re: [APRSSIG:8048] Re: KPC-3 (6.0) Garmin 45..KE4EER
@9:22 PM 3/31/962:04 1996Z
Greg Jonesr.org TAPR GPS Purchase (Announcement)
```

```
`□□□11:04 PM 3/31/96:03 1996□□S□□□□Arte BootenomAmiga APRS?
h□
□□10:09 PM 3/31/96:07 1996□□□□□□Mike Walkererlog.com,Re: [APRSSIG:8052] Failure of KPC-3  (6.0) ?
□□2□GX@D2TOCF
□□□□A
```

June 1996

Original source file: aprssig.9606
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-06/TAPR-APRS_1996-06.txt

1. Field Day

```
From: WB9WOZ@aol.com
Date: Sat, 1 Jun 1996 01:14:54 -0400
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <960601011454_125258659@emout10.mail.aol.com>
Rendered body type: text/plain
```

```
With Field Day approaching, we were wondering as to who else may be running
APRS
for the Field Day weekend ? If so, what freqs will be utilized.

The DuPage Amateur Radio Club will be running APRS on VHF and perhaps HF (if
we can wrestle a rig from the HF guys)

Info can be directed to wb9woz@aol.com

Thanks & 73's
Bruce Tobias
WB9WOZ
```

---

2. Re: [APRSSIG:1466] Re: URGENT ARRL NEDIV BULLETIN

```
From: Carl Estey <cestey@millcomm.com>
Date: Sat, 1 Jun 96 07:03 CDT
To: aprssig@tapr.org
Message-ID: <m0uPpPD-000MiqC@mill2.millcomm.com>
Rendered body type: text/plain
```

```
At 05:45 PM 5/31/96 -0500, Bob N3OZB wrote:

>At least one of the satellite companies getting into the LEO comm
>business is aware of the 2 meter activity around the world. Orbital
>Sciences Corp cleverly put a vhf scanner into a satellite being flown
>for other purposes, and made a vhf activity map of the world which
>they are keeping proprietary.

A ham-friend at OSC indicates that they have launched TWO VHF scanning sats and
have two years of worldwide VHF utilization and power density data.  I am
uncertain as to who really owns and operates these satellites.  OSC is now
part of Fairchild Aerospace.

73, Carl WA0CQG
```

---

3. Re: [APRSSIG:1387] Looking for a Maxon Transmitter

```
From: John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 1 Jun 1996 08:33:28 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606010852.B25416-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain
```

```
I hope this 'transmit only' rig isn't going to be used in ham radio.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Tue, 28 May 1996 mark.endicott@nashville.com wrote:

> I had a call today from a gentleman that needs one of the Maxon
> Transmitters that I was selling on this SIG.  Since I have no more and
> can't get anymore, I thought that some of you that bought them may have
> changed your mind about them.  I told him I would ask if there is just one
> spare out there that you could sell to him ?  Please email me direct if
> anyone can spare one.      Thanks...Mark WB0NOO
>
>
>     If Found, Please Return To:
>    ______________________________
>   |                              \
>   |         Mark Endicott          \
>   |        P.O. Box 148242           \
>   |   Nashville, Tennessee 37214      >
>   |             WB0NOO               /
>   |  mark.endicott@nashville.com   /
>   |_______________________________/
>
```

---

4. Re: [APRSSIG:1472] Re: Looking for a Maxon Transmitter

From: JerryRector <jerryr49@magg.net>
Date: Sat, 1 Jun 1996 12:11:35 -0400
To: aprssig@tapr.org
Message-ID: <199606011611.MAA14171@grumpy.magg.net>
Rendered body type: text/plain

```
At 07:44 AM 6/1/96 -0500, you wrote:
>I hope this 'transmit only' rig isn't going to be used in ham radio.
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us
>
>
>On Tue, 28 May 1996 mark.endicott@nashville.com wrote:
>
>> I had a call today from a gentleman that needs one of the Maxon
>> Transmitters that I was selling on this SIG.  Since I have no more and
>> can't get anymore, I thought that some of you that bought them may have
>> changed your mind about them.  I told him I would ask if there is just one
>> spare out there that you could sell to him ?  Please email me direct if
>> anyone can spare one.      Thanks...Mark WB0NOO
>>


Pray tell, why would you hope that.....should it be used somewhere else????
Jerry Rector, KB4OAM
Chief Engineer,
Hellinger Broadcast Group
jerryr49@magg.net
```

---

5. Re: [APRSSIG:1472] Re: Looking for a Maxon Transmitter

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 01 Jun 1996 11:41:41 -0700
To: aprssig@tapr.org
Message-ID: <31B08EE5.5090@ix.netcom.com>
Rendered body type: text/plain

```
Why is that John...?

Bill KE4EER


>John W Wilson wrote:
>
> I hope this 'transmit only' rig isn't going to be used in ham radio.
>
> John W. Wilson, KN4HX
```

---

6. Boston Maps

From: quarry@q.continuum.net (Chip)
Date: Sat, 1 Jun 1996 13:03:20 -0400
To: aprssig@tapr.org
Message-ID: <v02140b03add62598c78c@[199.0.52.89]>
Rendered body type: text/plain

```
If anyone has any highly detailed maps of Boston (especially if they have
street level detail) please let me know (or email them to me directly in
ZIP or SIT format).

Thanks,

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

7. Re: [APRSSIG:1473] Re: Looking for a Maxon Transmitter

From: n2czf@gate.net
Date: Sat, 1 Jun 1996 15:58:24 -0400
To: aprssig@tapr.org

Message-ID: <199606011958.PAA58042@osceola.gate.net>
Rendered body type: text/plain

```
On Sat, 1 Jun 1996, JerryRector <jerryr49@magg.net> wrote:
>At 07:44 AM 6/1/96 -0500, you wrote:
>>I hope this 'transmit only' rig isn't going to be used in ham radio.
>>
>>John W. Wilson, KN4HX
>>z004391b@bcfreenet.seflin.lib.fl.us

Far as I know on the commercial bands you got to listen also. This is the case
for IB and PS class stations.

>Pray tell, why would you hope that.....should it be used somewhere else????
>Jerry Rector, KB4OAM
>Chief Engineer,
>Hellinger Broadcast Group
>jerryr49@magg.net
>
I think John (and I) is concerned with the ability to listen to the channel
before transmiting. Not only is this good operaiting practice but it is also
necessary if you follow the FCC rules.

If you take that in mind and also the situation in Broward and Dade Co. where
you have more than several WIDE's in one area and quite a few APRS users this
can become a mess. Granted, if you overlook the FCC rules and also operate from
a less populated APRS area, as where Jerry and I live it could be tolerated but
why start the ball rolling.

Remember, at one time a group wanted to get several of these transmitters for WX
station reporting from some considerable height. Great idea to put commercial
equipment to use but picture 4-5 of these in one area at about 100-170 ft.
transmiting WX reports often without waiting for other packets to clear. Granted
APRS will continue to TX messages till they are RX'ed but this just increases
the turn arround time, and mobile trackers that are only transmiting every 10 or
so minutes could be hurt if their packets are collided with. This was put to
rest a few months ago thank God, let's not encourage it again.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

8. Re: [APRSSIG:1469] Waste of time ?

From: borland@idirect.com (Dave Borland)
Date: Sat, 1 Jun 1996 18:59:33 -0400
To: aprssig@tapr.org
Message-ID: <199606012259.SAA13084@lucid.idirect.com>
Rendered body type: text/plain

```
B.G. Gotshall writes ....

>This looks like a personnel battle.
>Some how I can't find anything that is of interest to the sig in this
>exchange except to air ones'
>dirty laundry!
>
Bud (WB4LTF)
>
>

Yes is a bit of a waste of bandwith, but I think it's a good idea to see
just how
some mail order people treat the customers. I wonder if he realizes just how
much
business he has probably lost by acting this way.

What ever happend to the customer is allways right !

Dave Borland
VE3HTB.

David J. Borland
borland@idirect.com
```

9. Re: [APRSSIG:1424] Order Status

From: George Salinas <saltair@hargray.com>
Date: Sat, 01 Jun 1996 23:39:52 -0400
To: aprssig@tapr.org
Message-ID: <31B10D08.151@hargray.com>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> The following persons order and payment for the Blackjack antenna were received
> and processed today!  I will be shipping these antennas Friday, May 31st.
>
> Larry Bush, W5NCD
> Bruce Rahn, WB9ANQ
> Hasan Schiers, N0AN
> Tony Drumm,. AA0SM
> Larry Miller, N9LBG (plus Single Port Switch)
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com====================================separator==================================
=========What if kantronics started order taking and billing on this sig?
What if paccom started order taking and billing on this sig?
What if APRS author Bruninga started order taking and billing on this sig?
What if the Sproule brothers started order taking and billing on this sig?
What if Garmin started order taking and billing on this sig?
What if ICOM started order taking and billing on this sig?
What if YAESU started order taking and billing on this sig?
What if STANDARD started order taking and billing on this sig?
What if they all thought that since their product is capable of being used with
APRS that they could flood the APRS sig with advertising?

Please, please keep that stuff out of here. If you feel the need to advertise or
confirm orders do it direct to private email or snail mail. Thank you.

73, George KD4FJ
```

---

10. Re: [APRSSIG:1464] To all Mapmakers

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 00:09:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602000717.8826C-100000@arctic>
Rendered body type: text/plain

```
On Fri, 31 May 1996, Barbara Fehner wrote:

> I would suggest that all new maps be made to the WGS84 datum and all old
> maps of 32 mile or less range be converted.
>
> The program MADTRANS (DOS program) can be used to convert the NAD27
> coordinates to WGS84. If someone wants this program I can upload it to the
> TAPR site.

APRSdos REPLY COMMENT:  Send it to me.  Maybe I should build it into MAPFIX
to automatically make the conversion...  Is the program in BASIC, so I
can understand it?

de wb4apr@amsat.org
```

---

11. FIELD DAY! APRS style

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 00:20:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602001416.8826F-100000@arctic>
Rendered body type: text/plain

```
Take your computer out to field day and count every station on the map as
a DIGITAL contact worth 2 points!  Also, APRS Looks REAL imrpressive at
NIGHT.  DOnt bother until dusk, hi hi  (or find a real shady place)/...

OPerations on the standard freq for your area.  and 10.151LSB

I was at ROchester Hamfest and again the question came up about 20 meters???

Again I suggested either 14.100 as an unused freq (but you will get
interference from both 14.99 and 14.101,

Or see if any of the keyboarders on 14.105 are using APRS?  I have not
tried these in years,  ANyone care to comment?  Its time to start playing
on 20 meters....  I picked up a 100 Watt 4 channel XTAL controlled HF SSB
```

```
rig for $80.  They guy had several.....  Look for Marine band stuff

de wb4apr@amsat.org
```

---

12. Need Maps for Detroit and Boston

From: rsellers@misha.net (Roger Sellers)
Date: Sat, 1 Jun 1996 23:41:43 -0500
To: aprssig@tapr.org
Message-ID: <199606020441.XAA10677@misha.net>
Rendered body type: text/plain

```
I'm traveling to Dearborn Michigan and Boston over the next several
weeks. Does anyone have maps to cover these area? Of particular need is to
cover from Detroit metro airport to Dearborn and Downtown Boston including
Copley Square and Airport area.
   If you have a map that would fill the need, could you e-mail it to me at
either e-mail address below.

Thanks in Advance... 73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

13. Mic Encoder for fixed stns?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 00:44:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602004021.8826K-100000@arctic>
Rendered body type: text/plain

```
I was surprised at the ROchester Hamfest when someone suggested that the APRS
Mic ENcoder should have a programmable default position.  The whole idea is
mobile position reporting, right?...

Well, his response was that EVERYONE has a MIC, only 1% or less of HAMS have
GPS units.  If the APRS MIC-Encoder becomes a common entity on voice
repeaters, then the fixed stations may as well pop up on the map too, so
you can see who is talking from where...

Seemed like a good idea to me...

de wb4apr@amsat.org
```

---

14. MacGPS Pro 2.0 release

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 2 Jun 1996 01:02:04 -0500
To: aprssig@tapr.org
Message-ID: <v02130500add6d7337a42@[199.1.11.107]>
Rendered body type: text/plain

```
I just got the new version of MAC-GPS PRO and it is real slick.

        ( The older shareware version is in the TAPR APRSsig area.)
DOS/WIN users may want to check out the Precision Mapping GPS Edition
        FREE Beta 1.0.1 - 5/26/96 (2140K ZIP) -- URL:www.justsoftworks.com
        for a program that can do almost the same.

This is one of those map making programs that can, plot my position on a map
using a connection to a GPS.

If you are using a Garmin GPS and a MAC computer this $30 program
will let you take any screen saved map, say a PICT file from
Street Atlas USA and use it to plot your position. It does a good job
of auto tracking. It also lets you up and download all the information from your
proprietary Garmin GPS data base. The tracks, waypoints and routs are then plotted
on your chosen MAP.

I hope Keith will make the next version of MAC/WIN aprs use the same type of
calibration method when you import PICT / Bit-map images and smoother zoom.
Several of the items in MACGPS are now in Mac APRS and lots of neat items are
on the way, but if you can't wait ......

Two Items in MACGPS Pro I like for car use are the LARGE display of your current
position/speed and the speech option to say this information.

Here is the short version from the upgrade notice.
```

```
-------------------------------------------------------
The long awaited release of MacGPS Pro 2.0 is finally here.

The calibration method for background maps has been completely changed. You no
longer enter the map edges. Instead you click on known points which are used to
calibrate the map.

There is an additional new way to pan and zoom-in on the map. Simply click and
drag the selection rectangle to select the area you want blown up to fill the
full window. Zoom-in is no longer limited to a fraction of the overall map size.
You can zoom in to 1 meter per pixel no matter how big your map is.

Additional Map menu options allow you to use a large current-position marker, to
display the bearing of each leg of the routes shown, and to set the map scale to
a precise value.

A new function showing overhead Satellite Visibility for any time and location
has been added.

The Real-Time window has been re-organized for easier reading in more logical
groupings. Estimated horizontal and altitude errors have been added to the
Real-Time display. There is a new command on the Real-Time menu, "Large Display
of Current Readings". This gives the same information as the original Real-Time
window, but with a larger font for greater visibility at a distance or with a
quick glance.

Larry James          http://www.csn.net/~lwjames
James Associates         lwjames@csn.net
                      303-530-9014 (voice or fax)
             Garmin GPS 45 with Portable Helix Antenna $ 249.95
-------------------------------------------------------------

One final item: Dr. James sent out the software over the internet direct to my
E-mail box. Last week I got two more updates that fixed a few problems. A great
idea as I hate having to look all over the FTP sites trying to find an update.

"Just a happy user"

73


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

15. Thanks for your opinion

From: Ron Malinowski <weather@xnet.com>
Date: Sun, 2 Jun 1996 01:02:23 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606020602.BAA06911@flood.xnet.com>
Rendered body type: text/plain

```
Hi Dave,

I appreciate your concern about my order with Agrello Engineering, I really
think that is a crazy policy to have to play in full to be put on a waiting
list for a product, I can see a special order, but he is wanting payment
today and he will ship when its in 4 to 6 weeks, But its okay to do a COD,
just really crazy, several people agree you shouldn't have to pay for
something until its available.
Ron
```

---

16. Re: [APRSSIG:1480] FIELD DAY! APRS style

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Sat, 1 Jun 1996 23:34:27 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960601232708.22521A-100000@ccnet3>
Rendered body type: text/plain

```
On Sat, 1 Jun 1996, Bob Bruninga wrote:

> Take your computer out to field day and count every station on the map as
> a DIGITAL contact worth 2 points!  Also, APRS Looks REAL imrpressive at
> NIGHT.  DOnt bother until dusk, hi hi  (or find a real shady place)/...

Looks like a shady practice ... hearing a station and having it show on
the map is not the same as contacting and logging the station.

Bob      n6fri

       Bob Wilkins                   home    n6fri@uhf.org
```

```
 Berkeley Hills, California          work    bob@cave.org
         CM87uv                      play    n6fri@n0ary.#nocal.ca.usa.noam
```

---

17. Auto Tracking

From: quarry@q.continuum.net (Chip)
Date: Sun, 2 Jun 1996 06:42:19 -0400
To: aprssig@tapr.org
Message-ID: <v02140b00add71f62e712@[199.0.52.92]>
Rendered body type: text/plain

```
Using MacAPRS, can the auto track work between maps?  I was wondering if
I was travelling along and went off the edge of a map if it would open
the map with the closest zoom for the area.

Also, downloaded a bunch of DOS maps.  When I place them in the maps
folder they show up outlined.  There are a lot of them and that can be a
little irritating.  I did notice I could put them in a sub-folder (nice
touch).  There is still a problem, no matter where I put them, with
incorrect map boundary and map linking.  If I open the map at least once
the boundaries are displayed correctly, otherwise they are totally
non-sensical.  How can I fix this?

Tnx,

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

18. Re: [APRSSIG:1427] Re: Copy of: KPC-3 HELP

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 2 Jun 1996 07:48:17 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606020729.B5193-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
The first thing I do when I get an update of the APRS program is to
remark out the parity line.  It seems to be a foolish thing to have as a
command in the first place.  If the TNC is already communicating with the
computer then the parity is correct to begin with.  If the TNC is not
communicating with the computer then no 'parity' command will get through
at all.

Fix the 'parity' and baud rates etc BEFORE you run APRS using a standard
communications program, and be sure to delete or remark out the 'parity'
line.

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us


On Thu, 30 May 1996 ku0g@sprynet.com wrote:

> You have to do TWO things:
>
> In the INITTAPR.TNC file (found in the SYSTEM subdirectory of APRS), you need to
> change PARITY to NONE. (This may be 0 or 4, I can't remember for sure...)
>
> Next, whenever you use Pacterm, be SURE that your TNC is back in TERMINAL mode
> as opposed to HOST mode when exiting Pacterm and before starting APRS!!!
>
> Good Luck!
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
```

---

19. Digi's

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 02 Jun 1996 07:47:56 -0700
To: aprssig@tapr.org
Message-ID: <31B1A99C.241E@ix.netcom.com>
Rendered body type: text/plain

```
I see the following digi's in the Florida panhandle.
```

W2GFF-7, BALDWIN A.R.C DIGI
KO4TT-7, WEST FLORIDA MED CENTER DIGI
KS4NY-7, WEST FLORIDA SKYWARN DIGI
KS4NY WX DIGI

My question to any of people in that area is i never see any users at all
other then the above digi's. What good are digi's with nobody using them.
Was just wondering??.

Thanks Bill KE4EER
http://www.netcom.com/~wnolle

20. Re: [APRSSIG:1479] Re: To all Mapmakers

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 2 Jun 1996 08:41:37 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606021341.IAA28010@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:

> APRSdos REPLY COMMENT: Send it to me. Maybe I should build it into MAPFIX
> to automatically make the conversion... Is the program in BASIC, so I
> can understand it?

If you have problems with it I'll help translate what you need.

Gerry

Geez... I mentioned the NAD27/NAD83(93)/WGS84 offset months ago!

21. rutgers site, NICAD help

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 02 Jun 1996 09:08:16 -0500
To: aprssig@tapr.org
Message-ID: <199606021404.JAA27608@tapr.org>
Rendered body type: text/plain

I was just wondering if anyone else was having problems conecting to
aprs.rutgers.edu? I've tried for several day's now
and it seems any rutgers site isn't responding.
I also would appreciate any pointers to files, QST, or 73 articles that
would have plans for a nicad charger/conditioner.
thank's in advance.

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

22. Re: [APRSSIG:1485] Re: FIELD DAY! APRS style

From: ku0g@sprynet.com
Date: Sun, 2 Jun 1996 07:08:24 -0700
To: aprssig@tapr.org
Message-ID: <199606021408.HAA08851@m1.sprynet.com>
Rendered body type: text/plain

In order to make a valid FD contact there MUST be information exchanged!!! I'd
say the simplest way is to do a one-liner to a station as you see them!!!

I'd say just do the one-liner with your FD exchange and leave it at that. When
it gets ACKed and you receive an exchange back THAT'S a valid contact!!!
Monitoring just doesn't count!!!

Everyone watch for KU0G on FD! We'll be running 10.151 LSB (of course), 7085
and wherever else we can find activity!!!
We'll also be up on CW and SSB!!!

Best 73,
Jim Duncan, KU0G

APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

23. Re: GPS display kit available

From: J Goldberg <j@harper.com>
Date: Sun, 2 Jun 1996 06:36:32 PDT
To: aprssig@tapr.org
Message-ID: <9606021336.AA00395@harper.com>
Rendered body type: text/plain

Ron,
(Sorry about the lag in my reply - it's hard to keep up with this SIG every day. If you'd like a fast answer from me on something, please also CC: j@harper.com)

I have successfully run the Garmin-45 into both the display and my PC serial port simultaneously. My old Trimble also worked fine as a source in that "Y" configuration. It has been my experience that serial outputs are able to drive at least two serial inputs; I've applied "Y" cables to about a dozen different applications over several years and found them all to work fine. I would not guarantee that any combination of random devices will work under any circumstances, but think the chances good in typical situations. In my applications, I have kept the wires fairly short (about 30 feet was the max I ran) and used relatively low speeds (9600bps), but those should be ok for most aprs/display combo setups.

73
j

At 13:23 960524, Ronald G. Parsons wrote:
>>I built a remote display for a Trimble GPS unit, and several people
>>have asked about its availability, applicability, etc. It seems a
>>posting here may be useful to the group; I include a brief description
>>of the kit below. The display works with the Garmin-45 using NMEA 2.0
>>output and, as the -20 has the same engine, it should work great for
>>that too.
>
>Would it be possible for the Garmin -20 unit to drive two input devices,
>say, one of these displays AND, say, a PacComm PicoPacket's second serial
>port?
>
>Then if a display was needed, the kit described above could be attached "in
>parallel" to the TNC's serial port.
>
>I guess the question really is "Does the -20 have enough drive on its
>serial output to drive two serial receiver chips?"
>
>
>Ron W5RKN
>
>also:
>rparsons@bga.com

J S Goldberg, KD6PBH, 619.693.9046
j@harper.com

--
j@harper.com, J Goldberg, Harper Technologies
USnail: P.O. Box 26910, San Diego CA 92196-0910
voice: 619.693.9046, fax: 619.621.9046

24. Re: [APRSSIG:1483] MacGPS Pro 2.0 release

From: ku0g@sprynet.com
Date: Sun, 2 Jun 1996 07:10:09 -0700
To: aprssig@tapr.org
Message-ID: <199606021410.HAA09061@m1.sprynet.com>
Rendered body type: text/plain

Sounds like APRS without transmit to me....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

25. Re: [APRSSIG:1478] Re: Order Status

From: ku0g@sprynet.com
Date: Sun, 2 Jun 1996 07:19:55 -0700
To: aprssig@tapr.org
Message-ID: <199606021419.HAA10556@m1.sprynet.com>
Rendered body type: text/plain

Three days ago I apologized for this....How many times do you want me to repeat myself??? Geez, talk about wasted bandwidth.....

I noticed you didn't mention Agrello Engineering and the DFJr....Hey! If you're gonna whine, you simply MUST whine equitably!!!!

The Blackjack antenna is of a LIMITED interest and I made it available to the members of the SIG FIRST as they are the people most likely to use it!

Why should it matter to you, George? You DON'T have to read it just because it hit your mailbox! THAT'S what the Delete function is for: From now on, just delete anything that has a subject you don't care to read and leave it alone...

In the mean time, ONCE again with feeling:

I apologize for wasting the bandwidth with my previous posting regarding the shipment of antennas that people on the SIG ordered! I was in a hurry and didn't have all of the EMail addresses handy! I will not do this again...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

PS: George, you're NOT on the reservation list!

---

26. Re: [APRSSIG:1478] Re: Order Status

From: ku0g@sprynet.com
Date: Sun, 2 Jun 1996 07:28:58 -0700
To: aprssig@tapr.org
Message-ID: <199606021428.HAA11687@m1.sprynet.com>
Rendered body type: text/plain

You know, I just decided that KD4FJ's posting really made me angry!

To the best of my knowledge, Internet is a forum of free speech and expression. I have the right to advertise my product here, as would anybody else!

While I don't actively pursue such activities, if I wanted to, I would very well be within my rights to do so!

If you don't want to read it, DELETE it!

What I did is NO different than TAPR posting messages about the shipment of the GPS units that people ordered!!! I didn't see a complaint about them in Georges message....

Enough said, I'm off the soapbox, but you can bet that it'll be a cold day in the underworld before I ship an antenna to KD4FJ!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

27. Re: [APRSSIG:1473] Re: Looking for a Maxon Transmitter

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 2 Jun 1996 10:59:55 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606021014.B11259-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

A 'transmit only' rig can be used in ham radio, as implied from your statement, but there had better be a receiver nearby to insure that there are no other transmitters using that frequency. It is quite against the FCC rules and regulations to interfere with another station, and the only way you can avoid the interference is to use a receiver as part of the rig.

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us

```
On Sat, 1 Jun 1996, JerryRector wrote:

> At 07:44 AM 6/1/96 -0500, you wrote:
> >I hope this 'transmit only' rig isn't going to be used in ham radio.
> >
> >John W. Wilson, KN4HX
> >z004391b@bcfreenet.seflin.lib.fl.us
> >
> >
> >On Tue, 28 May 1996 mark.endicott@nashville.com wrote:
> >
> >> I had a call today from a gentleman that needs one of the Maxon
> >> Transmitters that I was selling on this SIG.  Since I have no more and
> >> can't get anymore, I thought that some of you that bought them may have
> >> changed your mind about them.  I told him I would ask if there is just one
> >> spare out there that you could sell to him ?  Please email me direct if
> >> anyone can spare one.      Thanks...Mark WB0NOO
> >>
>
>
> Pray tell, why would you hope that.....should it be used somewhere else????
> Jerry Rector, KB4OAM
> Chief Engineer,
> Hellinger Broadcast Group
> jerryr49@magg.net
>
```

28. Re: [APRSSIG:1478] Re: Order Status

From: schiers@ames.net
Date: Sun, 02 Jun 96 07:51:46 -0600
To: aprssig@tapr.org
Message-ID: <199606021509.KAA00278@tapr.org>
Rendered body type: text/plain

```
In <701517@bbs.ames.net>, on 06/02/96 at 12:17 AM,
   aprssig@tapr.org said:

>Please, please keep that stuff out of here. If you feel the need to
>advertise or confirm orders do it direct to private email or snail mail.
>Thank you.

I agree the it would have been better if the notices had
gone out individually.

(Although it saved Jim a lot of time to type up one quick
msg to the sig and giving him more time to service requests.)

Advertising a product that has direct applicability to the
members of the sig is perfectly OK by me, esp if it is being
made in "cottage industry" fashion. Let's not throw out the
baby with the bath water. The time to gripe is when the notiices become
too frequent.

It is a bit ironic that your complaint about the posting took up more
bandwidth than the post you were complaining about. Sometimes it pays to
just hold off and see if the behavior you object to  recurrs.

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

29. Re: [APRSSIG:1480] FIELD DAY! APRS style

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 2 Jun 1996 11:08:48 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606021143.F11259-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
I may be wrong (probably am) but I thought that only two-way qso's and
not one way 'beacons' were allowed for point getters on field day.
73,

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us
```

```
On Sat, 1 Jun 1996, Bob Bruninga wrote:

> Take your computer out to field day and count every station on the map as
> a DIGITAL contact worth 2 points!  Also, APRS Looks REAL imrpressive at
> NIGHT.  DOnt bother until dusk, hi hi  (or find a real shady place)/...
>
> OPerations on the standard freq for your area.  and 10.151LSB
>
> I was at ROchester Hamfest and again the question came up about 20 meters???
>
> Again I suggested either 14.100 as an unused freq (but you will get
> interference from both 14.99 and 14.101,
>
> Or see if any of the keyboarders on 14.105 are using APRS?  I have not
> tried these in years,  ANyone care to comment?  Its time to start playing
> on 20 meters....  I picked up a 100 Watt 4 channel XTAL controlled HF SSB
> rig for $80.  They guy had several.....  Look for Marine band stuff
>
> de wb4apr@amsat.org
>
```

---

30. APRS WX stuff

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 11:20:27 -0400 (EDT)
To: "Stephen A. Davis" <75076.675@CompuServe.COM>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602111246.13126C-100000@arctic>
Rendered body type: text/plain

```
Steve reports that the Natl WX service has a standard for RAIN-PER-DAY.
(probably starts at midnight???)

APRS goes through a much more complex process of keeping  a sliding
history so that it is reporting rain-per-last-24-hrs continuously.

This I thought was a neat idea, but it is a pain and takes a lot of code.

I would be happy to change APRSdos to a RAIN-PER-DAY, and make it so that
it would keep track even during a re-start, if that is what the WX guys
think is best.

SAME would go for the RAIN-PER-HOUR.  Mine is a continuous sliding
rain-per-last-60 minutes.  It would be much easier to clear the count
on the hour and only accumulate one value.

THe advantage of my way, is that at 16:05, you know how much rain fell
since 15:05.  In the new way, at 16:05 you would only be able to learn
how much rain had fallen since 16:00...  and would have NO RECORD of what
fell since 15:05...

I have fixed the DAVIS and U-2K fading to gray.  will be in 76b soon.

de wb4apr@amsat.org
```

---

31. Re: [APRSSIG:1485] Re: FIELD DAY! APRS style

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 11:25:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602112506.13126E-100000@arctic>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996, Bob Wilkins n6fri wrote:

> On Sat, 1 Jun 1996, Bob Bruninga wrote:
>
> > Take your computer out to field day and count every station on the map as
> > a DIGITAL contact worth 2 points!  Also, APRS Looks REAL imrpressive at
> > NIGHT.  DOnt bother until dusk, hi hi  (or find a real shady place)/...
>
> Looks like a shady practice ... hearing a station and having it show on
> the map is not the same as contacting and logging the station.

APRSdos REPLY COMMENT:  Absolutely correct, hi hi.  You need a message and
and ACK to qualify for FD points.  THanks...

de wb4apr@amsat.org
```

32. Re: [APRSSIG:1487] Re: Copy of: KPC-3 HELP

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 11:28:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602112737.13126G-100000@arctic>
Rendered body type: text/plain
```

```
On Sun, 2 Jun 1996, John W Wilson wrote:

> The first thing I do when I get an update of the APRS program is to
> remark out the parity line.  It seems to be a foolish thing to have as a
> command in the first place.  If the TNC is already communicating with the

APRSdos REPLY COMMENT:  That line has been eliminated in APRS76 distros...

de wb4apr@amsat.org
```

---

33. Re: [APRSSIG:1352] WinAPRS_DualPort

```
From: schiers@ames.net
Date: Sun, 02 Jun 96 10:19:53 -0600
To: aprssig@tapr.org
Message-ID: <199606021527.KAA01069@tapr.org>
Rendered body type: text/plain
```

```
In <697650@bbs.ames.net>, on 05/27/96 at 01:28 PM,
   aprssig@tapr.org said:

>2) When I want to send a message (either Reply click, of New Message)
>           how do I know which port is going to be used?  Am concerned
>that I
>           particularly do not want to QRM the HF side.  Do I go into
>terminal
>           and do a port cmd?  I bave tried this and SteamSW char in
>address etc
>           but as best I can tell, the messages get sent out on both hf
>and vhf.

>           Also when I look at the history list, I see my ID string,
>Beacon, and
>           position with just the /v, are these only being sent out on
>vhf? I quess
>           this 2 port thing in general just has me confused. Any help
>greatly
>           appreciated!
>s,
>agore <s,
>agore <

>   Arthur Shih, [Team OS/2] in Taiwan.
>   http://OS2.csie.fju.edu.tw
>   http://www.csie.fju.edu.tw/~ie825136
>+-------------------
>---E

Click on VHF port for access to the dual port tnc...it is a bug.

Using the message facility, sends the message out on both ports whether
you want to or not...you can't control it, and just have to accept that it
is going to happen....until it gets fixed.

Are you running WinAPRS under Win-OS/2? If so what version of Win32s are
you using and where did you find it? I put together a dedicated  Win95
machine for WinAPRS and it works fine, but it would be nice to know I had
a backup available with OS/2 Warp and Merlin to come. 73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

34. Re: [APRSSIG:1489] Re: To all Mapmakers

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 11:30:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602112837.13126H@arctic>
Rendered body type: text/plain
```

```
On Sun, 2 Jun 1996, Gerald J Creager wrote:
```

> Geez... I mentioned the NAD27/NAD83(93)/WGS84 offset months ago!

APRSdos REPLY COMMENT: Yes, but you didnt give a clue as to how easyy it
was to convert. I figured it would take complex quadratic or higher
order math to convert every point in a map. She suggests that you only
convert the ORIGIN and its done.

I was hoping you would jump in and tell me the exact formula rather them
me having to pull it out of some program code.

So I was thinking of you specifically when I posted my reply, hi hi

So, do you have the textbook conversion equation?

de wb4apr@amsat.org

---

35. Re: [APRSSIG:1498] Re: FIELD DAY! APRS style

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sun, 2 Jun 1996 08:52:06 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960602085008.29610C-100000@spork.callamer.com>
Rendered body type: text/plain

Regarding the use of 14100 Khz, remember that the worldwide propagation
beacons are on that frequency. It becomes a matter of how irritating one
wants to becomes even though the APRS bursts are short! Cliff W6HDO

---

36. Re: [APRSSIG:1452] Re: URGENT ARRL NEDIV BULLETIN

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Sun, 02 Jun 1996 12:52:27 -0400
To: aprssig@tapr.org
Message-ID: <31B1C6CB.32B02B7D@codger.physics.duq.edu>
Rendered body type: text/plain

Bruce Micales wrote:
>
> >>Remember that it is the World Radio Conference you have to convince, not
> >>the FCC.
> >>
> >
> >I wonder what Yeasu, Icom, Kenwood, Standard, and all the other companies
> >who make 2m and 70cm equipment, not to mention all the vendors who supply
> >components, and all the mail-order, wholesale and retail outlets have to
> >say about this little change. It would not only effect a change in "bands"
> >but a major change in $$. I suspect thinking of just this small proposal
> >that it may be a bargining chip for something else, It's all politics..
> >WATCH OUT this seems important but there is someother agenda.. Some other
> >purpose...
> In any case, this sort of thing should not be allowed to happen. Given the
> usefulness to the public, local governments and the Federal government, I
> am surprised that an industry would even consider the 2 meter and 70 cm
> (what are they going to do with the primary user..the U.S. Government on
> 420-450).

I doubt that it will happen. The 2m and 70 cm bands are allocated worldwide for Amateur use.
The 420-430 band is also allocated for government RADAR; that's the "Line A" stuff. However,
435-438 MHz is an international satellite allocation.

If anything, they'll probably end up with a small slice of one of the business band
allocations.

---

37. Re: [APRSSIG:1479] Re: To all Mapmakers

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sun, 02 Jun 1996 10:57:24 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960602165724.00675aa4@mailhost.primenet.com>
Rendered body type: text/plain

Yes, Bob, I would like it, also. Please post it to the SIG and let us know
when it's up. It sounds like a great suggestion, THANKS!!!! 73, Alan

At 11:11 PM 6/1/96 -0500, you wrote:
>On Fri, 31 May 1996, Barbara Fehner wrote:
>
>> I would suggest that all new maps be made to the WGS84 datum and all old
>> maps of 32 mile or less range be converted.
>>

>> The program MADTRANS (DOS program) can be used to convert the NAD27 coordinates to WGS84. If someone wants this program I can upload it to the TAPR site.
>
>APRSdos REPLY COMMENT: Send it to me. Maybe I should build it into MAPFIX to automatically make the conversion... Is the program in BASIC, so I can understand it?
>
>de wb4apr@amsat.org
>
>

Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

38. 20 meter FREQ

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 14:07:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602140017.13915B-100000@arctic>
Rendered body type: text/plain

On Sun, 2 Jun 1996, Clifford Buttschardt wrote:

> Regarding the use of 14100 Khz, remember that the worldwide propagation beacons are on that frequency. It becomes a matter of how irritating one wants to becomes even though the APRS bursts are short! Cliff W6HDO

APRSdos REPLY COMMENT: EXACTLY. Thats why operating packet LSB will absolutely NOT interfere with them. THey are operating on a carrier freq of 14.100 exactly. If you tune your SSB station to 14.100 LSB and operated an AFSK TNC, then you will not hear them at all, and you will also not interfere with them at all. Your transmitted tones will be either offset 2210 HZ lower and have a bandwidth of about +/- 700 HZ. Therefore all of your energy will be well outside of a CW receiver listening to 14.100.

We proposed that freuqency long ago hoping to take advantage of the fact that many hams dont understand the offsets between their DIAL frequency and their actual emission energy.

By the way, the DIAL frequency to avoid so that you do not interfere with the CW beacons is 14.100 + 2210 hz or 14.102 for LSB and 14.998 for USB. That would definately be a no-no. hi hi

de wb4apr@amsat.org

---

39. MFJ Data Radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 14:23:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602140828.13915C-100000@arctic>
Rendered body type: text/plain

Remember months ago when I bought a number of $120 MFJ 8621 Data radios. They work, but they did not appear to give me the performance that I had been used to with my $1200 VHF all mode rig... (hi hi)

TOday, I finally put one on the bench and measured about 2.5 microvolts to get good quality S/N ratio. This is about 10 dB worse than their spec and also my big rig. So, I thought I would go inside and tweak it up...

Nope, only two adjustments. XTAL freq and Discreminator coil.

The RF front end is just two coils of loose wire that you squeeze or expand with a toothpick. They were right-on. I could only make them worse. The whole receiver is just a single transistor RF amp driving an IC chip.

So, at 33% of the usual cost of a 2m radio, they seem to be perfect for dedicated use where all you need to do is hit the nearest node or digi. Also remember they do have the davantage of being 9600 baud data ready (that is what they were designed to do, ayway). So, I am not dissatisfied, but now I know under what circumstances to use them.

On transmit, setting the transmit audio level LOW is absolutely essential. I actually like that, since 98% of the packet signals that you normally hear are quite distorted since most people do not adjust the XMT audio level low enough not to cause clipping in their MIC circuits. THe MFJ has no MIC clippers or limiters, and if the audio is too high, you simply deviate out of the passband, and no one copies you.

de wb4apr@amsat.org

---

40. Phily to DC Bike ride

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 14:45:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602144156.14444B-100000@arctic>
Rendered body type: text/plain

We have been requested to provide tracking and as much voice COMM support for a national biking event (5000 bikes) leaving Philadelphia on the 21st and to arrive DC on the 23rd of June after spending most of the route in Maryland. We have APRS packet stations well situated all along the route. Anyone want to volunteer to install my TRACKERS and or play out there in the field?

de wb4apr@amsat.org

---

41. Re: [APRSSIG:1502] Re: WinAPRS_DualPort

From: rhiii@pop.erols.com (Richard H)
Date: Sun, 02 Jun 1996 18:51:17 GMT
To: aprssig@tapr.org
Message-ID: <31b1e1b3.14832386@smtp.erols.com>
Rendered body type: text/plain

Using a very old ver of dos aprs. Think I'd like to try the windoze version. Where can I find it ?

Thanks
---Richard/nt2z

---

42. Re: [APRSSIG:1508] MFJ Data Radio

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Sun, 02 Jun 1996 16:08:39 -0400
To: aprssig@tapr.org
Message-ID: <31B1F4C7.279196E3@codger.physics.duq.edu>
Rendered body type: text/plain

Bob Bruninga wrote:

>
> Remember months ago when I bought a number of $120 MFJ 8621 Data
> radios.

This is the first I heard of these radios... so I did a little looking through the mountain of Dayton literature, and there it was in glorious black and white.

Also, I found that there is an APRS specific version out there.

>From AES (www.aesham.com):

MFJ 8621	MFJ VHF DATA RADIO/145.01 MHZ	119.950	109.950
MFJ 8621X1	MFJ APRS READY VHF DATA/145.79	139.950	129.950

Wish I had known about these; probably would have picked one up at Dayton. I could really use one for Field Day...

---

43. APRS Users in FL Space Coast Area!!

From: n2czf@gate.net
Date: Sun, 2 Jun 1996 16:08:21 -0400
To: aprssig@tapr.org
Cc: hoebakeb@irwin.vetrol.com
Message-ID: <199606022008.QAA17046@osceola.gate.net>
Rendered body type: text/plain

I would like to inform any "dormant" APRS users in the Space Coast area to keep an eye out on 145.79 in about 1-2 weeks. Many have asked for a WIDE digi in the Melbourne Daytona Beach area and I think we may have succeeded. This will be a test digi for the time being at 400ft runing 30 watts just North of Melbourne.

We hope that this digi will give the Daytona and Melbourne area a opportunity to link to Orlando all the time and also give us a possible link to Daytona from the Southern part of the state if we can get a WIDE in range of the Space Coast Digi.

The reason this is a test digi is due to the unknown ammount of users that are in range that will use it. If the digi is of no benifit the digi will not remain at the site. If of course the digi is of benifit to others and seen as worthwhile I have been told that it can be there for good. We have had users in the area over the years that come and go due to the lack of activity, if everyone just gave it a chance they will have noticed that there IS ACTIVITY it is just that no one stays on long enough to get the group going. 2-3 get on and then leave do since there are no more users, a few months later one or 2 pop up and leave since there is no one there and so on and so on.

I do not know what else the WIDE digi sysop wants to release as far as information and the expected time of the "trial" but try to get on and get as many friends on as much as possible. Make use of it and talk about it on the repeaters so that others may come and see what it is like. This is a golden opportunity and I am not sure how many others like this we can get in the future. So let's try to make it work this time.

I do not even know if the sysop want's to be known at this time so I will leave it up to him to take care of this but I thank him for making this effort. I have explained to him how to get on the sig and I hope to see him on soon.
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

44. Re: [APRSSIG:1481] Need Maps for Detroit and Boston

From: jack swift <jswift@up.net>
Date: Sun, 02 Jun 1996 16:17:36 -0500
To: aprssig@tapr.org
Message-ID: <9606022016.AA07503@btc1>
Rendered body type: text/plain

i didn't check these fully, but here is a complete set of michigan....

At 11:51 PM EST 6/1/96 -0500, you wrote:
>   I'm traveling to Dearborn Michigan and Boston over the next several
>weeks. Does anyone have maps to cover these area? Of particular need is to
>cover from Detroit metro airport to Dearborn and Downtown Boston including
>Copley Square and Airport area.
>   If you have a map that would fill the need, could you e-mail it to me at
>either e-mail address below.
>
>Thanks in Advance... 73,
>
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@misha.net
>E-Mail Work: rsellers@snds.com
>
>
[Attachment: MI_MAPS.ZIP; application/zip; 112,679 bytes]

45. Re: [APRSSIG:1497] Re: Order Status

From: n2czf@gate.net
Date: Sun, 2 Jun 1996 16:22:47 -0400
To: aprssig@tapr.org
Message-ID: <199606022022.QAA24504@osceola.gate.net>
Rendered body type: text/plain

On Sun, 2 Jun 1996, schiers@ames.net wrote:
EDITED
>Advertising a product that has direct applicability to the
>members of the sig is perfectly OK by me, esp if it is being
>made in "cottage industry" fashion. Let's not throw out the
>baby with the bath water. The time to gripe is when the notiices become
>too frequent.
>
hasan schiers, N0AN
>---
>schiers@ames.net
>---
I agree if it is a Cottage Insustry and the member is a ACTIVE APRS user and sig member to give the person the courtesy of the posting. We have several people on the sig that do make some money (or try to) with their APRS interest as in PacComm, "Mr. Bob", Agrelio Eng., The Sproul Brothers., and some others from time to time. I have never seen a sig have so many "key people" acive and willing to ask questions and solve problems as here.

To make use of a old saying "Don't look a gift horse in the mouth" or whatever.

They spend their time on the sig helping us now it is time for us to "help" them
if you call leting them post a message that can benifit us "helping them".

Maybe personal replies are more in order but if this cannot be done for some
reason I hope the "vendor" would make some sort of attempt to contact me. If
this means a general posting so be it, it may not pertain to me this time but it
may the next!

Watch out for what you wish, it may come back to haunt you!
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

46. Re: [APRSSIG:1480] FIELD DAY! APRS style

From: Dennis Mobley <dmobley@encore.com>
Date: Sun, 02 Jun 1996 16:23:46 -0400
To: aprssig@tapr.org
Cc: dmobley@encore.com, Mike Kantor KD4EMI <kd4emi@aol.com>
Message-ID: <31B1F852.5639@encore.com>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> Take your computer out to field day and count every station on the map as
> a DIGITAL contact worth 2 points! Also, APRS Looks REAL imrpressive at
> NIGHT. DOnt bother until dusk, hi hi (or find a real shady place)/...
>
> OPerations on the standard freq for your area. and 10.151LSB
>
> I was at ROchester Hamfest and again the question came up about 20 meters???
>
> Again I suggested either 14.100 as an unused freq (but you will get
> interference from both 14.99 and 14.101,
>
> Or see if any of the keyboarders on 14.105 are using APRS? I have not
> tried these in years, ANyone care to comment? Its time to start playing
> on 20 meters.... I picked up a 100 Watt 4 channel XTAL controlled HF SSB
> rig for $80. They guy had several..... Look for Marine band stuff
>
> de wb4apr@amsat.org

Hello all,
We plan to operate a APRS VHF/HF Field Day station here in the
Ft Lauderdale Florida area. Our call for FD will be N4HHP.

In reviewing the APRSSIG posting, a few point need to be addressed.

1. Frequency of operations.
   The APRS frequency of 10.151 is invalid as per ARRL FD rules.

(From the ARRL WWW Page on FD rules)
(2) Object:
        "To work as many stations as possible on any or all
         amateur bands (except 10, 18 AND 24-MHz bands) and,
         in doing so...."

Our current plan is to operate on 14.105 during the day
and on 40m night. I also plan to move my HF APRS station
(KT4FI-3) to 14.105 this week to "test the waters".

2. Contest Exchange... (ARRL WWW FD Page)
(6) Exchange:
        Stations in any ARRL/RAC Section will exchange their
        Field Day operating class and ARRL/RAC Section. For
        example, if your club group was planning to operate
        in the three-transmitter, Class A category from Missouri,
        you would send "3 A Missouri". Foreign stations send
        RS(T) and QTH.

3. Rule 7C "...The repeater provision" (ARRL WWW FD Page)
8) Packet Radio:
        100 points can be earned by completing at least one
        QSO on packet radio during the Field Day period.
        The repeater provision of Rule 7C is waived for packet
        radio QSOs. A packet station (one) does not count
        as an additional transmitter. On the summary sheet,

show packet radio QSOs as a separate "band".

The concept of a "GATE" is in the gray area. We interpret this rule to allow GATES as "repeaters". This opens the FD activity to many more of our APRS operators.

There is an issue we must address, we could bog the HF network down to a halt. Might I suggest...

1. FD GATES be renamed to "FDxx", where xx is the band of operation. Example, 20m GATE would become FD20.
2. Position reports kept to a minimum. Example 60 minutes.
3. No mobile tracking.
4. FD traffic limited to FD exchange.
5. If you are on the air, the station is manned.
6. If you are running a FD GATE, manage the GATE.

These are only suggestions, and we need to formulate a plan to have a successful FD operations.

Please comment.

In closing, we are working with the Ft. Lauderdale area ARES/RACES folks. Our objective is to demonstrate APRS as a tool in the their operations. Not all Amateurs understand APRS and some feel that it is a fancy toy. We hope and plan to change that.

If any folks can not access ARRL web page and do not have access to QST, please ask and I can format the pages into text and post them here on the SIG.

Thank you for your time.
73 de Dennis Mobley
Sunrise, FL (EL96UD)
dmobley@encore.com

---

47. DFjr

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 02 Jun 1996 15:34:46 -0700
To: aprssig@tapr.org
Message-ID: <31B21706.6178@ix.netcom.com>
Rendered body type: text/plain

Are there any DFjr owners on the Sig?. my question is that i recived a warning from a DFjr owner that it will not talk to a computer to well (Or not at all). Now this has nothing to do with it not working with APRS at the present because i'm aware of that. The warning stated the DFjr doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v. I know Joe doesn't like this type of message to be posted here, but i must know this type of info. I think Agrelo needs to put out some more information of this type, (If this is true!).

Bill KE4EER
http://www.netcom.com/~wnolle

---

48. Re: [APRSSIG:1004] Little Red Fox GPS Antennas...

From: jack swift <jswift@up.net>
Date: Sun, 02 Jun 1996 18:05:00 -0500
To: aprssig@tapr.org
Message-ID: <9606022204.AA09344@btc1>
Rendered body type: text/plain

Jim,
i still have the antenna with the 12' cable -- unpaid!
i would offer two solutions (you and paul can figure out who gets the antenna or money):
1. i'll send it to you (default solution in 10 days or so...)
2. you figure out a good way for me to 'waterproof' it so i can put on TOP of the roof of my motorhome and i'll send the check ($40 per the invoice).

as far as the 'waterproofing' goes, i'll accept any way that won't degrade the performance of the antenna and won't prevent it from spending months at a time on the roof and won't prevent it staying on the roof in bad headwinds at 70 MPH... that means if duct-taping it into a 'package' will work technically it's OK by me...... (note i never mentioned estheticly pleasing as a requirement).

```
At 02:16 AM EST 5/18/96 -0500, you wrote:
>Greetings, all (or "y'all" for y'all Suthunuhzz).
>
>Paul Stump, N0LRF, is now employed by Garmin International.
>
>As a result, he has been told that he can no longer build, market and sell the
>Little Red Fox line of GPS antennas.
>
>I have acquired the remaining stock of these antennas.  Eventually, with a
>little help getting started from Paul, I hope to be able to continue to
produce
>these nice little antennas.  In the meantime, if you would like one for your
>GPS, please send PRIVATE EMail to me (ku0g@sprynet.com).
>
>Paul was selling these antennas for $45.00 (general public) and $39.00
(amateur
>net).  Depending on the number of requests that I get for one of these GPS
>antennas (see the KC APRS Home Page for information/description), I will set a
>VERY reasonable price.
>
>All the proceeds will go toward the installation of an APRS station at the
>Kansas City National Weather Service NEXRAD site (pending approval of NWS)
or to
>install additional WIDE digis in western Missouri and eastern Kansas.
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

49. Re: [APRSSIG:1508] MFJ Data Radio

From: Scott Arnold <sarnold@access-net.com>
Date: Sun, 02 Jun 1996 17:11:25 +0000
To: aprssig@tapr.org
Message-ID: <31B1CB3D.6F2E@access-net.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Remember months ago when I bought a number of $120 MFJ 8621 Data
> radios.  They work, but they did not appear to give me the performance
> that I had been used to with my $1200 VHF all mode rig... (hi  hi)
>
> TOday, I finally put one on the bench and measured about 2.5 microvolts
> to get good quality S/N ratio.  This is about 10 dB worse than their spec
> and also my big rig.  So, I thought I would go inside and tweak it up...
>
> Nope, only two adjustments.  XTAL freq and Discreminator coil.
>
> The RF front end is just two coils of loose wire that you squeeze or
> expand with a toothpick.  They were right-on.  I could only make them worse.
> The whole receiver is just a single transistor RF amp driving an IC chip.
>
> So, at 33% of the usual cost of a 2m radio, they seem to be perfect for
> dedicated use where all you need to do is hit the nearest node or digi.
> Also remember they do have the davantage of being 9600 baud data
> ready (that is what they were  designed to do, ayway).  So, I am not
> dissatisfied, but now I know under what circumstances to use them.
>
> On transmit, setting the transmit audio level LOW is absolutely essential.
> I actually like that, since 98% of the packet signals that you normally
> hear are quite distorted since most people do not adjust the XMT
> audio level low enough not to cause clipping in their MIC circuits.
> THe MFJ has no MIC clippers or limiters, and if the audio is too
> high, you simply deviate out of the passband, and no one copies you.
>
> de wb4apr@amsat.org

Bob, I also had great problems with the MFJ Radio. I put the Data Radio
```

```
on my bench and measured 3.7 uv for 20 dB SINAD, way worse than
specs.(.25 uv). So I contacted MFJ and they ask me to send the unit to
them with a detailed note. A few weeks passed and I called, they in turn
had sent the unit to an outside engineer(they could not test the unit in
house, no test equipment!!!!???) Anyway I got the radio back with a
note from the engineer, said that the antenna switch(diode) was below
specs(leaky from bias). He replaced the diode with another one at
different specs and said unit should meet specs. I put the unit back on
the bench; rcvr sens .35 uv. Checked it against one other service
monitor(same). Also the transmitter has alot of trash(Spurs), retuned
xmiter and add a harmonic filter. MFJ said if I had any other units
below specs to send them back. I just replaced the PIN diodes on my
other units. Hope this helps.

Scott Arnold
KC5RIE
Southern Communications Advanced Technology
sarnold@access-net.com
```

---

50. Re: [APRSSIG:1513] APRSSIG digest 557

From: jack swift <jswift@up.net>
Date: Sun, 02 Jun 1996 18:28:52 -0500
To: aprssig@tapr.org
Message-ID: <9606022228.AA09876@btc1>
Rendered body type: text/plain

```
My Sincerest apologies!!! I really screwed up this time!
(and there is a smaller one i just realized i mass mailed) DRAT!!


At 05:21 PM EST 6/2/96 -0500, you wrote:
>   Did you really have to send this to the whole damned mailing list?
>
>>Subject:     [APRSSIG:1513] APRSSIG digest 557
>>Sent:        6/2/96 20:32
>>Received:    6/2/96 17:20
>>From:        jack swift <jswift@up.net>
>>To:          aprssig@tapr.org
>>Enclosure:   MI_MAPS.ZIP
>>
>>i didn't check these fully, but here is a complete set of michigan....
>>
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

51. Re: [APRSSIG:1488] Digi's

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Sun, 2 Jun 1996 15:55:16 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602154406.26991A-100000@ccnet3>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996, William Nolle wrote:

> I see the following digi's in the Florida panhandle.
>
> W2GFF-7, BALDWIN A.R.C DIGI
> KO4TT-7, WEST FLORIDA MED CENTER DIGI
> KS4NY-7, WEST FLORIDA SKYWARN DIGI
> KS4NY WX DIGI
>
> My question to any of people in that area is i never see any users at all
> other then the above digi's. What good are digi's with nobody using them.
> Was just wondering??.

Looks like that area is getting ready for the next "Big One". They are
getting prepared, Good deal!

You may be seeing the digis as their unproto paths may extend into your
area. The users may have their paths set to just one wide. You can only
see what the other group wants you to see if they are not direct.

Bob      n6fri
```

```
      Bob Wilkins                    home    n6fri@uhf.org
 Berkeley Hills, California          work    bob@cave.org
        CM87uv                       play    n6fri@n0ary.#nocal.ca.usa.noam
```

---

52. Re: [APRSSIG:1468] Re: To all Mapmakers

From: Barbara Fehner <fehner@cts.com>
Date: Sun, 02 Jun 1996 19:16:29 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960603021629.0068e0c4@mail.cts.com>
Rendered body type: text/plain

```
I have just uploaded the archive file MADTRAN.EXE to the TAPR upload directory.
Datum transformation method is from the standard Molodensky formulas, DMA
Technical Report 8350.2

Barbara KK6IB
E-Mail: fehner@cts.com

_______________________________________________________________________________
At 08:15 PM 5/31/96 -0500, you wrote:
>At 04:47 PM 5/31/96 -0500, you wrote:
>
>>I would suggest that all new maps be made to the WGS84 datum and all old
>>maps of 32 mile or less range be converted.
>
>How can I tell if the maps I made from  the USGS 1:2,000,000 are NAD27 or
WGS84?
>
>>
>>The program MADTRANS (DOS program) can be used to convert the NAD27
>>coordinates to WGS84. If someone wants this program I can upload it to the
>>TAPR site.
>
>I think I would like it uploaded just for reference.
>
>>
>>Barbara KK6IB
>>E-Mail: fehner@cts.com
>>
>Dave
```

---

53. Re: [APRSSIG:1480] FIELD DAY! APRS style

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 2 Jun 1996 22:19:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960602221741.4569A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sat, 1 Jun 1996, Bob Bruninga wrote:

> Take your computer out to field day and count every station on the map as
> a DIGITAL contact worth 2 points!  Also, APRS Looks REAL imrpressive at
> NIGHT.  DOnt bother until dusk, hi hi  (or find a real shady place)/...
>

Maybe I'm wrong, but I understood that *any* Field Day contact had to
include the ARRL SECTION as well as the call of a station.

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

54. Re: [APRSSIG:1520] Re: Digi's

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 02 Jun 1996 21:31:36 -0700
To: aprssig@tapr.org
Message-ID: <31B26AA8.2001@ix.netcom.com>
Rendered body type: text/plain

```
Bob Wilkins n6fri wrote:
>
> On Sun, 2 Jun 1996, William Nolle wrote:
>
> > I see the following digi's in the Florida panhandle.
> >
> > W2GFF-7, BALDWIN A.R.C DIGI
> > KO4TT-7, WEST FLORIDA MED CENTER DIGI
> > KS4NY-7, WEST FLORIDA SKYWARN DIGI
> > KS4NY WX DIGI
> >
> > My question to any of people in that area is i never see any users at all
> > other then the above digi's. What good are digi's with nobody using them.
> > Was just wondering??.
>
> Looks like that area is getting ready for the next "Big One". They are
> getting prepared, Good deal!
>
> You may be seeing the digis as their unproto paths may extend into your
> area. The users may have their paths set to just one wide. You can only
> see what the other group wants you to see if they are not direct.
>
> Bob      n6fri
>
>        Bob Wilkins                   home    n6fri@uhf.org
>  Berkeley Hills, California          work    bob@cave.org
>          CM87uv                      play    n6fri@n0ary.#nocal.ca.usa.noam
>
> No that's not the case!. i have had several private e-mail messages of
them having problems getting users to stick with it.

Bill KE4EER
http://www.netcom.com/~wnolle
```

---

55. Re: [APRSSIG:1499] APRS WX stuff

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 2 Jun 1996 22:36:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960602223521.4569C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996, Bob Bruninga wrote:

> Steve reports that the Natl WX service has a standard for RAIN-PER-DAY.
> (probably starts at midnight???)
>
> APRS goes through a much more complex process of keeping  a sliding
> history so that it is reporting rain-per-last-24-hrs continuously.
>
> I would be happy to change APRSdos to a RAIN-PER-DAY, and make it so that
> it would keep track even during a re-start, if that is what the WX guys
> think is best.
>

As a 24 hr APRS WX station operator, I prefer the Bob's current way.

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

56. Re: [APRSSIG:1511] Re: MFJ Data Radio

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 2 Jun 1996 22:42:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960602224050.4569D-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996, Paul Christenson wrote:
>
> This is the first I heard of these radios... so I did a little looking through
> the mountain of Dayton literature, and there it was in glorious black and white.
>
> MFJ 8621         MFJ VHF DATA RADIO/145.01 MHZ      119.950      109.950
> MFJ 8621X1       MFJ APRS READY VHF DATA/145.79     139.950      129.950
>
> Wish I had known about these; probably would have picked one up at Dayton.  I
> could really use one for Field Day...

I was not a Dayton, but both from what I've heard hear on the sig, and my
own experience, the APRS version is hard to come by .. You place your
order, and then you WAIT, and WAIT, and WAIT, for it to be delivered.

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

57. Re: [APRSSIG:1514] Re: Order Status

From: ku0g@sprynet.com
Date: Sun, 2 Jun 1996 20:02:42 -0700
To: aprssig@tapr.org

Message-ID: <199606030302.UAA00389@m1.sprynet.com>
Rendered body type: text/plain

```
Thanks Rich!!!!  Also, thanks Hasan!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

58. loosing first letter of callsign (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 23:33:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602233219.17811B-100000@arctic>
Rendered body type: text/plain

```
Anyone else have a clue?

de wb4apr@amsat.org

---------- Forwarded message ----------
From: Randy Hall <randyh@gvgadg.gvg.tek.com>
To: bruninga@nadn.navy.mil

The first letter of some callsigns, mine included, are changing to
something that looks like a H. The H is about two characters tall and a bit
narrow.  ???

Running 76 with a PICO TNC.

Any ideas?
```

59. Re: [APRSSIG:1503] Re: To all Mapmakers

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 2 Jun 1996 22:33:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606030333.WAA03203@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Actually, the conversion is *not* as easy as indicated previously.  When we do
it on OUR maps it requires a significant amount of code crunching.

I'll be doing that all day tomorrow.  While I'm waiting for the dual-Pentium
120's to crunch the problems, I'll do some tectbook research.

73, gerry
```

60. Re: [APRSSIG:1516] DFjr

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 23:40:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602233841.17811E-100000@arctic>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996, William Nolle wrote:

> the present because i'm aware of that. The warning stated the DFjr
> doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.

APRSdos REPLY COMMENT:  Thats no different than MOST GPS's which also
only have 0 and +5.  Its nothing to panic about.  Can be solved with just
a resistor to -v if it is a probem for your particular PC.


de wb4apr@amsat.org
```

61. Re: [APRSSIG:1515] Re: FIELD DAY! APRS style

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 2 Jun 1996 23:51:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960602234357.17811G-100000@arctic>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996, Dennis Mobley wrote:

>    The APRS frequency of 10.151 is invalid as per ARRL FD rules.
> (2) Object:
>       "To work as many stations as possible on any or all
>        amateur bands (except 10, 18 AND 24-MHz bands) and,

>       The repeater provision of Rule 7C is waived for packet
>       radio QSOs. A packet station (one) does not count

APRSdos REPLY COMMENT: Does the OBJECTIVE to work stations on the other
bands translate to a PROHIBITION or DISAUALIFICATION if activity is
conduceted on 30m?  In either case, the DIGI provision clearly makes
GATING legal for FD.  The INTENT of the other bands rule is to NOT
QRM these narrow bands by having contesters all over the band.  BUT APRS
FD activity would only be on the one channel anyway, so the spirit of
the rule to limit interference to other users of the band is CLEARLY
met to the fullest extent on 10.151.

Can someone get a ruling on this?

de wb4apr@amsat.org
```

---

62. Pac Comm-Trimble GPS Ant

From: BordingK@aol.com
Date: Mon, 3 Jun 1996 01:14:26 -0400
To: aprssig@tapr.org
Message-ID: <960603011425_548016831@emout12.mail.aol.com>
Rendered body type: text/plain

```
1.  I got the little $50. Trimble Active GPS ant. sold by Pac Comm up and
running with my trusty Magellan Trailblazer ths weekend.  Works great, locks
on in a fraction of the time of the Magellan OEM ant.  Built-in mag mount on
bottom.  Good buy if you can overcome the SMB connector.  Does anyone know if
the enclosure is waterproof, water resistant or what?

2.  Expect to have one or more APRS stations up in Jacksonville for Field
Day.  I have not resolved the digi problem to get out of Florida so I may
just be watch myself.  Is there a particular symbol to use for a Field Day
site?

73
Ken Bording KF4COH
```

---

63. Re: [APRSSIG:1530] Re: FIELD DAY! APRS style

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Sun, 2 Jun 1996 23:21:08 -0700 (PDT)
To: aprssig@tapr.org
Rendered body type: text/plain

```
Message-ID: <Pine.SUN.3.91.960602230849.17489D-100000@ccnet3>
X-URL: http://www.ccnet.com/~rwilkins/
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 2 Jun 1996, Bob Bruninga wrote:

> APRSdos REPLY COMMENT: Does the OBJECTIVE to work stations on the other
> bands translate to a PROHIBITION or DISAUALIFICATION if activity is
> conduceted on 30m?  In either case, the DIGI provision clearly makes
> GATING legal for FD.  The INTENT of the other bands rule is to NOT
> QRM these narrow bands by having contesters all over the band.  BUT APRS
> FD activity would only be on the one channel anyway, so the spirit of
> the rule to limit interference to other users of the band is CLEARLY
> met to the fullest extent on 10.151.

Wake Up Bob!  this is a gray area. Do you really want to trash the APRS
use of the frequency every year? It works today for unconnected use. Now
you want to add connected message handling as well for contesters?

> Can someone get a ruling on this?

You should know the answer ... who cares if it is legal, the load on a
single HF freq would be tremendous as every FD packet station would use your
loophole for a couple points. Nothing says they have to be running APRS.

The folks out on the highways and coastal waters that are using HF APRS will
just have to wait it out.

       Bob Wilkins                   home    n6fri@uhf.org
 Berkeley Hills, California          work    bob@cave.org
         CM87uv                      play    n6fri@n0ary.#nocal.ca.usa.noam
```

64. Re: [APRSSIG:1513] Re: Need Maps for Detroit and Boston

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Mon, 03 Jun 1996 01:27:53 -0500
To: aprssig@tapr.org
Message-ID: <199606030624.BAA13625@tapr.org>
Rendered body type: text/plain

```
>Content-Transfer-Encoding: base64
>Content-Disposition: attachment; filename="MI_MAPS.ZIP"
>
Thank's Jack I just LOVE file attachments that are Base 64 encoded instead
of mime or bin hex,
and it only took 3 minutes to transfer from my maile server to my PC. Just
enough time to pee.
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


        _
      _( )_
    _(     )_
   (_________)
     \  \  \
       \  \
```

65. Re: [APRSSIG:1513] Re: Need Maps for Detroit and Boston

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Mon, 03 Jun 1996 01:36:22 -0500
To: aprssig@tapr.org
Message-ID: <199606030632.BAA13735@tapr.org>
Rendered body type: text/plain

```
>Date: Mon, 03 Jun 1996 01:27:53 -0500
>To: aprssig@tapr.org
>From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
>Subject: Re: [APRSSIG:1513] Re: Need Maps for Detroit and Boston
>
>>Content-Transfer-Encoding: base64
>>Content-Disposition: attachment; filename="MI_MAPS.ZIP"
>>
>Thank's Jack I just LOVE file attachments that are Base 64 encoded instead
of mime or bin hex,
>and it only took 3 minutes to transfer from my maile server to my PC. Just
enough time to pee.
>
Gee and only in three part's of 100 - 200K a piece; sure am glad I got all
that since I plan on going to Michigan
sometime in the next milliniuem and god knows how much I love Boston. If you
had sent that to just the user
requesting it or uploded it to tapr I may have never gotten it.
Thanks again for such a timely service.

TICLOL

----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


        _
      _( )_
    _(     )_
   (_________)
     \  \  \
       \  \
```

66. Re: [APRSSIG:1511] Re: MFJ Data Radio

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 3 Jun 1996 06:50:07 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606030600.A518-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

A friend here in South Florida bought one of the MFJ radios thinking it
would be a cheap alternative to getting into 9600 here. We tried it at
1200 first (needs tuning inside to switch to 1200) and had poor success.
He was able to copy a strong station on 145.01 pretty well but was also
copying stations on 145.05 as well.

Actually, when you think of it, that makes it a pretty useful multi
channel monitor, hi. Naa.
73,

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us

On Sun, 2 Jun 1996, Paul Christenson wrote:

```
> Bob Bruninga wrote:
> >
> > Remember months ago when I bought a number of $120 MFJ 8621 Data
> > radios.
>
> This is the first I heard of these radios... so I did a little looking through
> the mountain of Dayton literature, and there it was in glorious black and white.
>
> Also, I found that there is an APRS specific version out there.
>
> >From AES (www.aesham.com):
>
> MFJ 8621        MFJ VHF DATA RADIO/145.01 MHZ      119.950      109.950
> MFJ 8621X1      MFJ APRS READY VHF DATA/145.79     139.950      129.950
>
> Wish I had known about these; probably would have picked one up at Dayton.  I
> could really use one for Field Day...
>
```

67. Re: [APRSSIG:1516] DFjr

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 3 Jun 1996 06:13:51 -0500
To: aprssig@tapr.org
Message-ID: <v02130501add813c67f96@[199.1.11.112]>
Rendered body type: text/plain

>doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.

This is no big deal and is done a lot now days.

I think the orginal RS-232 spec was +15 and -15 but most computer
work with the 0 to 5v . Remember that some of the handheld GPS
units output 0 to +4 volts and this has worked for all TNC's and
most use this same GPS output voltage to work with their computers.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

68. Re: [APRSSIG:1531] Pac Comm-Trimble GPS Ant

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 3 Jun 1996 06:38:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606031138.GAA07036@solar.cs.tamu.edu>
Rendered body type: text/plain

BordingK@aol.com sez:

> 1. I got the little $50. Trimble Active GPS ant. sold by Pac Comm up and
> running with my trusty Magellan Trailblazer ths weekend. Works great, locks
> on in a fraction of the time of the Magellan OEM ant. Built-in mag mount on
> bottom. Good buy if you can overcome the SMB connector. Does anyone know if
> the enclosure is waterproof, water resistant or what?

Trimble designed 'em for vehicular use. Mine's been onthe truck for months
and months with no degradation of services. I'd call it water-proof, but
never asked trimble. I'll try to do that today!

73, gerry
n5jxs@tamu.edu

69. Re: [APRSSIG:1488] Digi's

From: ko4tt@gulf.net
Date: Mon, 3 Jun 1996 08:25:26 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606031325.IAA24049@pompano.pcola.gulf.net>
Rendered body type: text/plain

There are many users in nw fl but we keep our paths to a minimum to reduce congestion. The digi's path is wide, wide so that people can see them to use them. There are 5 digi's between Mobile and Panama City. I we all digi'd through them with a couple of extra wides, then none of us could talk.

73 steve ko4tt@gulf.net

---

70. Paccom/Trimble Ant

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Mon, 3 Jun 1996 09:37:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.93.960603091333.1324A-100000@garc.gsfc.nasa.gov>
Rendered body type: text/plain

Received the Trimble antenna from Paccom two weeks ago. Replaced the connector with RG-174 conventional (not crimp) BNC ($3.50). Works great with Garmin 45.

For the past two weeks, have been using the combination above to gather trail data for equestrian trails in my local area. The antenna is placed inside a regular baseball cap with the lead running down the rear seam held in place by a couple of wire ties (the antenna literally rest on top of my head when wearing the cap). The Garmin 45 is carried in the breast pocket of a safety vest. The Garmin has maintained a good steady lock through the heavily wooded areas traveled. It was really neat seeing the track of the southern coastline of the Rocky Gorge Resevoir when I printed out the data.

```
--
Randy Hammock KC6HUR      | E-Mail: kc6hur@garc.gsfc.nasa.gov
8951 Tamar Drive, Apt 101 |  Voice: +1-410-964-5503
Columbia, MD 21045        |
```

---

71. camaps06.zip

From: ko6xs@ko6xs.ampr.org
Date: Mon, 03 Jun 96 06:38:27 PDT
To: aprssig@tapr.org
Message-ID: <2895@ko6xs.ampr.org>
Rendered body type: text/plain

I just downloaded camaps06.zip from the California APRS internet site and
tried to unzip the file. I got a whole series of error messages as follows:
        PKUNZIP:Warning! I don't know how to handle: (file name)
I tried this both under windows 3.1 DOS window and under just DOS. What am I
doing wrong? Thnks for any help.
CUL and 73 de Jon

```
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ko6xs@wb6ymh.#soca.ca.usa     □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

72. Mission Planning S/W

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Mon, 3 Jun 1996 09:47:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.93.960603093736.1324B-100000@garc.gsfc.nasa.gov>
Rendered body type: text/plain

I know that Trimble has a software package that is used to predict PDOPs, satellite visibility and such before going out to do a survey. Does anyone know of such s/w being in the PD or shareware domain? I would nice to know things like satellite geometry and visibility before going out on a data gathering mission.

```
--
Randy Hammock KC6HUR      | E-Mail: kc6hur@garc.gsfc.nasa.gov
```

```
8951 Tamar Drive, Apt 101 |  Voice: +1-410-964-5503
Columbia, MD 21045        |
```

---

73. Re: [APRSSIG:1536] Re: DFjr

From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 03 Jun 1996 08:50:03 -0700
To: aprssig@tapr.org
Message-ID: <31B309AB.14EE@ix.netcom.com>
Rendered body type: text/plain

```
Robert Winingham wrote:
> 
> >doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.
> ------------
> 
> This is no big deal and is done a lot now days.
> 
> I think the orginal RS-232 spec was +15 and -15 but most computer
> work with the 0 to 5v . Remember that some of the handheld GPS
> units output 0 to +4 volts and this has worked for all TNC's and
> most use this same GPS output voltage to work with their computers.
> 
> 73
> 
> Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ------------
Thanks for the posting Bob, but that wasn't the case with my Magellan
NAV5000DX, so don't be to hasty in saying this has worked with ALL TNC's
because my Magellan never did work on a KPC3 even after many suggestions
from people on the sig and also many calls to Kantronics and Magellan. I
finally had to switch to another make of TNC and it worked just fine. By
the way we also hooked the Magellan to a friends KPC3 that normally runs
a Magellan Meridian and it wouldn't work on his either!. Also on the same
note i have not been able to get my NAV5000DX to work on Paccomm's single
port switch even after their suggested fix by placing a resister in the
TNC. So this tells me there's something about my GPS receiver that's
different then most GPS receivers used like the Garmin's etc.

Bill KE4EER
http://www.netcom.com/~wnolle
```

---

74. Re: [APRSSIG:1508] MFJ Data Radio

From: rwf <rwf@mindspring.com>
Date: Mon, 3 Jun 1996 10:07:27 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960603082911.2e1f2182@mindspring.com>
Rendered body type: text/plain

```
If the receiver is this "good", I wonder if anyone has looked at its
transmitter on a spectrum analyzer?

rwf

Now in South Florida, "where everyone is a wide"  ;)
```

---

75. Re: [APRSSIG:1535] Re: MFJ Data Radio

From: rwf <rwf@mindspring.com>
Date: Mon, 3 Jun 1996 10:24:10 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960603084554.2d7fb382@mindspring.com>
Rendered body type: text/plain

```
Hmm-  I bought 3 Motorola Mitreks for 25.00 each  at Dayton and 5 old GE
MVPs for 100.00 at Shelby.

One of the Mitreks is now the N4NEQ-2 Digi (after 20.00 worth of crystals)
One MVP is now the N4NEQ-3 Digi  (V e r  y   WIDE)    (after 20.00 worth of
crystals)
One MVP is working as my APRS station at home
One MVP is crystaled up as a spare
My GE Century II   (20.00 at Dayton last year) is in the tracker  at 35 watts

All this plus the extra radios left over for just about the cost of a
drift-o-matic MFJ data radio with the APRS option.


Folks,  investigate the commercial market.  There are *many* radios out
there that are very suitable and much more reliale than the Ham gear available.
```

                 Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
      rwf@mindspring.com or n4neq@amsat.org
Atlanta, GA USA
      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and
APRS. Ask me how!

76. APRS ACTIVITY LIST needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 3 Jun 1996 11:00:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960603101422.9906C-100000@arctic>
Rendered body type: text/plain

On Mon, 3 Jun 1996, Bob Wilkins n6fri wrote:

> Wake Up Bob! .... Do you really want to trash the APRS use of (10151) every
> year (for FD)? It works today for unconnected use. Now you want to add
> connected message handling as well for contesters?   The folks out on
> the highways and coastal waters that are using HF APRS will (suffer..)

APRSdos REPLY COMMENT: I certainly would not invite anything other than APRS packets on 10151. Connections, never. I was merely asking if APRS contacts on 10151 could be counted. APRS was designed as a quick response tactical comm system. I thought FD was a good demo of its potential... Direct HF activity on 40 and 20 would certainly be preferred.

Maybe my antenna and I are not aware of all that is going on... What we need is a central LOG of all special APRS activity posted once a week here on the SIG, so that everyone has one reference source for activity.

Is there anyone that would like to volunteer to maintain this APRS ACTIVITY LIST? That station would accept all inputs and post on the SIG here once a week, a list of all known APRS HF mobile stations and their expected frequencies and general area of operation. Also, major special events would be listed. I would suggest the following format:

STATION	FREQ	START DATE	END DATE	COMMENTS
W7LUS-14	10151	continuous	continuous	18 Wheeler all over USA
KD9PJ	10151	?	?	Carribean
AD4MR	10151	?	?	West Coast Mexico
Field Day	?	22 June	23 June	nationwide

Anyone anticipating travel could submit his info to the APRS ACTIVITY LIST keeper. THis way, we would have ONE resource for info, instead of everyone having to DIG it out of the noise here on the SIG...

It should not become an EGO list, but a serious list of stations depending on APRS for serious comm support.

Who can do this service for us?

de wb4apr@amsat.org

77. Re: [APRSSIG:1454] Re: aprs IN RHODE ISLAND

From: Bill Northup <northup@sw.stratus.com>
Date: Mon, 3 Jun 1996 11:02:02 -0400 (EDT)
To: jaym1@soho.ios.com (Jay Millard)
Cc: aprssig@tapr.org (APRS), northup@sw.stratus.com (Bill Northup)
Message-ID: <199606031502.LAA14701@blackdog.sw.stratus.com>
Rendered body type: text/plain

>
> Bill, you wrote to the SIG:
>
> >I will be in Rhode Island this weekend and will have my APRS system with me.
..
..
> >
> >   Bill
>
> As a 24 hour per day participant in APRS, I wondered if you were going to

> be transmitting on VHF or HF? I look forward to seeing your boat on the
> map! Cruise down the Sound for some clams, and save a lobster for me!
>
> 73 de Jay
>
> Jay Millard
> *Amateur Radio Station KD1LY*
> Darien, CT 06820
>
>
>

Well it is next week and I can report that APRS is alive and well in the Newport R.I. area. BUT it could use some help.

First I was located in Portsmouth R.I. (the other end of the island that Newprot is on) using a notebook computer and an HT @ 5 watts (I have a power budget). I have an antenna on the back rail and another on the mast head.

On Sat night I hooked things up and I could hear lots of people. I was seeing 4 stations on Cape Cod, most of the regular Boston area stations (even my home station) all of CT (including Jay - KD1LY), and Long Island. Oh yea there was one R.I. station (KA1RCI) as I expected. I was hearing 4 stations direct - two all of the time and two more once in a while. I could hear KA1RCI and WQ1O-3 all the time. WQ1O-3 is located at Woods Hole Ma. and I have never seen that station from home. It looks like he has an empty unproto path. In addition I could hear WA1LOU and W1GTT-15 on and off.

After I had things hooked up for a while I got mail from N1MIE-2 who I chatted with for a while. At 5 watts I was finding that I was having my packets repeated only about 10% of the time. I also figured that I was just about making it into several stations because everytime I tried anything other than relay as the first hop things got worse. Then I hooked up a 30 watt amp that I had with me and the repeat rate went up to about 30%. Not great but enough to be heard (the boat was on my map at home when I got there).

On Sunday morning there was a little more noise and was no longer hearing anyone while using the masthead antenna. I listened to the audio for a while and there really were not any packets there.

All of this was the masthead antenna (48' up). I could not hear anything using the antenna on the rail. I tried that before using the masthead antenna which is for getting into repeaters back home.

RESULTS:
I think it would only take on reasonable station in Southern R.I. to really time things together in that area for marine mobile stations. Until then if you have a good high antenna you will be able to see activity with lots of missed and lost packets. So APRS is alive in Newport but does need so help. Now does anyone know a HAM in that area that can help get some more stations on the air in that area ??

Bill

--

```
    Bill Northup, N1QPR         EMAIL n1qpr@amsat.org
                                QRP-NE #307
                                NorCal #1027
                                QRP-L  #356
```

78. Re: [APRSSIG:1536] Re: DFjr

From: Jack Warren <warren@uicc.com>
Date: Mon, 3 Jun 1996 11:02:54 -0400
To: aprssig@tapr.org
Cc: warren@nhEngMailHub.eng.uicc.com
Message-ID: <96Jun3.110026edt.5432-2@firewall.uicc.com>
Rendered body type: text/plain

RS-232 voltage levels are equal to or greater than +/- 3V. That is, there's a 6V "dead-band" centered about 0V. In that region, the output can be considered "don't know". The RX data load is somewhere around 3K Ohms. So, if your TX data line can supply enough current to pull a 3K resistor to 3V or more above ground, it will be considered a "1". The 1488/1489 line receivers and drivers MAY work with ground (0V) as a logical 0 and anything above 1 silicon Vbe (0.65V), but can't be guaranteed. If you want the line receiver to work ALL the time, try to stick to at least +/-3V and stay out of the dead-band.

```
Jack Warren
WB4MDC
FN42fv

>
> >doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.
> ------------
>
> This is no big deal and is done a lot now days.
>
> I think the orginal RS-232 spec was +15 and -15 but most computer
> work with the 0 to 5v . Remember that some of the handheld GPS
> units output 0 to +4 volts and this has worked for all TNC's and
> most use this same GPS output voltage to work with their computers.
>
> 73
>
> Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
>
>
```

---

79. Re: [APRSSIG:1540] camaps06.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 3 Jun 1996 11:06:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960603110558.9906E-100000@arctic>
Rendered body type: text/plain

```
On Mon, 3 Jun 1996 ko6xs@ko6xs.ampr.org wrote:

> I just downloaded camaps06.zip from the California APRS internet site and
> tried to unzip the file. I got a whole series of error messages as follows:
>         PKUNZIP:Warning! I don't know how to handle: (file name)

APRSdos REPLY COMMENT:  YOu were using an ancient copy of PKunzip.  It
must be dated 1990 or later...

de wb4apr@amsat.org
```

---

80. Re: [APRSSIG:1531] Pac Comm-Trimble GPS Ant

From: kc8ux@w8dc.ampr.org
Date: Mon, 03 Jun 96 11:33:48 EDT
To: aprssig@tapr.org
Message-ID: <119435@w8dc.ampr.org>
Rendered body type: text/plain

```
>>>>1.  I got the little $50. Trimble Active GPS ant. sold by Pac Comm up and
running with my trusty Magellan Trailblazer ths weekend.  Works great, locks
on in a fraction of the time of the Magellan OEM ant.  Built-in mag mount on
bottom.  Good buy if you can overcome the SMB connector.  Does anyone know if
the enclosure is waterproof, water resistant or what?

I have had mine on my truck since Dayton in big ole rainstorms, both stationary and driving, with no
appearent problems.  I hav
e to assume it's "proof", because it's brother (one with no mag mount, and a stud for mounting I saw in
a catalog) is meant for
 perm mounting.

Ron - KC8UX
```

---

81. Re: [APRSSIG:1499] APRS WX stuff

From: schiers@ames.net
Date: Mon, 03 Jun 96 10:20:14 -0600
To: aprssig@tapr.org
Message-ID: <199606031536.KAA00868@tapr.org>
Rendered body type: text/plain

```
In <701675@bbs.ames.net>, on 06/02/96 at 11:49 AM,
   aprssig@tapr.org said:

>I would be happy to change APRSdos to a RAIN-PER-DAY, and make it so that
>it would keep track even during a re-start, if that is what the WX guys
>think is best.

>SAME would go for the RAIN-PER-HOUR.  Mine is a continuous sliding
>rain-per-last-60 minutes.  It would be much easier to clear the count on
```

>the hour and only accumulate one value.

I will be meeting with people from the National Weather Service this week.
They have a specific way of reporting rain, which I believe is for the 24
hour period ending at either 6 or 7 a.m. each day. I will ask them for the
"proper" definition and get back to you.

>From my way of thinking, daily rain reporting should explicitly follow the
NWS standard, and additionally, APRS should report rain in last hour, much
like it does now. I am just sure that NWS does NOT use midnight, but will
get back to you to confirm. I will also ask if they use a sliding 60
minute scale or if they use the last on the hour 60 minute period.

They just called me (NWS). Here is their "official" reporting standard:

1. For 24 hour period precip is reported at 1200 UTC...no change for
daylight
   or standard, so the reporting period fluctuates 6:00 a.m winter, 7:00
a.m.
   summer (DST) here in Iowa.

2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.

As a side note, I will be installing WinAPRS at the NWS site this
Thursday. (They have 3 hams working there now.)

73,

```
hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

82. Re: [APRSSIG:1540] camaps06.zip

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 3 Jun 1996 10:51:04 -0500
To: aprssig@tapr.org
Message-ID: <v02120d01add8b7d29455@[138.87.2.109]>
Rendered body type: text/plain

When someone uploads files, they should upload a text file with the same
filename but with a .txt extension explaining what it contains and how to
extract it. Days become weeks and one forgets what is in it. Then, the
"keeper of the runes" erases the file.

Does anyone know if the file - camaps06.zip has any special instructions?
And could that person upload a description text file to FTP TAPR?

Jon (ko6xs@wwcb.earthlink.net) on Mon, 3 Jun 1996 09:02:04 said:

>I just downloaded camaps06.zip from the California APRS internet site and
>tried to unzip the file. I got a whole series of error messages as follows:
>   PKUNZIP:Warning! I don't know how to handle: (file name)
>I tried this both under windows 3.1 DOS window and under just DOS. What am I
>doing wrong? Thnks for any help.
>CUL and 73 de Jon

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP     IS Data Processing Equip Tech    k9orp@amsat.org
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

83. Re: [APRSSIG:1508] MFJ Data Radio

From: cestey@millcomm.com (Carl Estey)
Date: Mon, 03 Jun 1996 11:01:39 -0600
To: aprssig@tapr.org
Message-ID: <m0uQc4P-000MjtC@mill2.millcomm.com>
Rendered body type: text/plain

Bob Bruninga wrote:
[Snip]
>TOday, I finally put one on the bench and measured about 2.5 microvolts
>to get good quality S/N ratio. This is about 10 dB worse than their spec
>and also my big rig. So, I thought I would go inside and tweak it up...

When I measured my MFJ, I discovered 9 uv sensitivity. When I called MFJ
service, I learned that they were well aware of the sensitivity problems and
have a mod to drastically improve it. The mod will be done at no charge if

the radio is within the factory warranty. I sent mine in and it came back Friday. No chance to test it yet but a quick visual inspection didn't show any major change. The repair paper work indicated that they had swapped PC boards and this is confirmed by the Rev 1 indication on the PCB.

73, Carl WA0CQG
Carl Estey, Amateur Radio Station WA0CQG
10021 Drew Ave. S., Bloomington, MN 55431-2727 (612) 835-0056/ 0067
E-Mail: cestey@millcomm.com or wa0cqg@wa0cqg-uhf.ampr.org
Digital Frequency Coordinator - Metropolitan Minneapolis/St. Paul area

84. Re: [APRSSIG:1550] Re: APRS WX stuff

From: Mark Sproul <sproul@ap.org>
Date: Mon, 3 Jun 1996 12:19:08 -0400
To: aprssig@tapr.org
Message-ID: <v03006f07add8c0aabe69@[165.1.27.20]>
Rendered body type: text/plain

>As a side note, I will be installing WinAPRS at the NWS site this
>Thursday. (They have 3 hams working there now.)
>
> 73,
>

I am working on a bunch of additions for WX for WinAPRS, I have added the ability to display ONLY WX stations, I think this will be very usefull for those watching WX information. There will be more to come in the future.

Mark

```
_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

85. Re: [APRSSIG:1516] DFjr

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 03 Jun 1996 12:21:31 -0700
To: aprssig@tapr.org
Message-ID: <31B33B3B.600@concentric.net>
Rendered body type: text/plain

William Nolle wrote:
>
> Are there any DFjr owners on the Sig?. my question is that i recived a
> warning from a DFjr owner that it will not talk to a computer to well (Or
> not at all). Now this has nothing to do with it not working with APRS at
> the present because i'm aware of that. The warning stated the DFjr
> doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.
> I know Joe doesn't like this type of message to be posted here, but i
> must know this type of info. I think Agrelo needs to put out some more
> information of this type, (If this is true!).
>
> Bill KE4EER
> http://www.netcom.com/~wnolle

Hi Bill and group,

I just went to the bench and tested one for myself to see if there is a problem.

This is not true, the DFjr works fine on all computers we tested, including laptops. The DFjr uses a MAX232 chip and the levels are -12 to +12v.

However, I would be most interested to know what other are finding as well.

Thanks

73 de Joe N2OOC
```
------------------------------------------------------------------------
                      Joe Agrelo/N2OOC
                     Agrelo Engineering
                      Ph (518)381-1057
                      Fx (518)381-1058
```

```
                   E-mail- jagrelo@concentric.net
                         In the Web
              http://home.navisoft.com/agrelo/ae.htm
Designer and Manufacturers of intelligent microprocessor based Doppler
                     and talking products
           Experts in Microchip and Motorola processors
        Cruise Missile Coordinates 42 47.427N,  073 56.525W
------------------------------------------------------------------------
```

86. DFjr RS232 levels

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 03 Jun 1996 12:41:48 -0700
To: aprssig@tapr.org
Message-ID: <31B33FFC.747E@concentric.net>
Rendered body type: text/plain

```
To the SIG,

The DFjr's RS232 voltage levels are -12 to +12, not 0 to +5.
Who ever measured 0 to +5, did you use a scope?
Please call me if you are having a problem.

Thank you.

73 de Joe N2OOC
------------------------------------------------------------------------                      Joe
Agrelo/N2OOC
                    Agrelo Engineering
                     Ph (518)381-1057
                     Fx (518)381-1058
                   E-mail- jagrelo@concentric.net
                         In the Web
              http://home.navisoft.com/agrelo/ae.htm
Designer and Manufacturers of intelligent microprocessor based Doppler
                     and talking products
           Experts in Microchip and Motorola processors
        Cruise Missile Coordinates 42 47.427N,  073 56.525W
------------------------------------------------------------------------
```

87. Re: [APRSSIG:1551] Re: camaps06.zip

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Mon, 3 Jun 96 10:00:49 PDT
To: aprssig@tapr.org
Message-ID: <9606031700.AA05936@eng.adaptec.com>
Rendered body type: text/plain

```
There is a README in the file that basically says....use
pkunzip -d to unpack.  As others have found, it uses
a newer version of pkzip, so you may need version 2.x
to unzip this file.

Steve KA6S
```

88. Re: [APRSSIG:1550] Re: APRS WX stuff

From: "Ralph R. Swick" <swick@x.org>
Date: Mon, 03 Jun 1996 12:58:05 EDT
To: aprssig@tapr.org
Message-ID: <9606031658.AA23126@fedora.x.org>
Rendered body type: text/plain

```
hasan schiers, N0AN <schiers@ames.net> wrote:

> They just called me (NWS). Here is their "official" reporting standard:
>
>1. For 24 hour period precip is reported at 1200 UTC...no change for daylight
>   or standard, so the reporting period fluctuates 6:00 a.m winter, 7:00 a.m.
>   summer (DST) here in Iowa.
>
>2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.

Clearly designed for reporting systems where the sampling interval is
much longer than APRS users are accustomed to!

So if the APRS format remains with a single figure, the useful thing
to do is to report the previous period's data until the end of the
current period, not to report the accumulator value during the current
period.  This way the WX watchers have several chances to capture the
data off the air before it is replaced with fresh data.
```

```
It would be nice to see both figures reported; the previous period
and the current period accumulator.  Makes effective use of the higher
sampling rate available via APRS.

-Ralph kd1sm
```

89. TAPR TNC2 1.8a firmware/gps?

From: schiers@ames.net
Date: Mon, 03 Jun 96 12:11:56 -0600
To: aprssig@tapr.org
Message-ID: <199606031712.MAA05709@tapr.org>
Rendered body type: text/plain

```
Does the tapr firmware version 1.8a support stand alone gps operation with
a tnc? I have a garmin 45 and a tnc2 that will accept the tapr
eprom...thought I saw some announcement of this from TAPR, but I have been
all over the tapr site and can't find any verification that there is a
tnc2 prom that supports stand alone gps operation. tnx 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

90. Re: [APRSSIG:1529] Re: DFjr

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 03 Jun 1996 13:26:40 -0700
To: aprssig@tapr.org
Message-ID: <31B34A80.4452@concentric.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Sun, 2 Jun 1996, William Nolle wrote:
>
> > the present because i'm aware of that. The warning stated the DFjr
> > doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.
>
> APRSdos REPLY COMMENT:  Thats no different than MOST GPS's which also
> only have 0 and +5.  Its nothing to panic about.  Can be solved with just
> a resistor to -v if it is a probem for your particular PC.
>
> de wb4apr@amsat.org

The DFjr works fine on all computers we tested,
including laptops. The DFjr uses a MAX232 chip and the levels
are -12 to +12v, not 0 to +5v.

73 de Joe N2OOC
-----------------------------------------------------------------------
                      Joe Agrelo/N2OOC
                     Agrelo Engineering
                      Ph (518)381-1057
                      Fx (518)381-1058
                   E-mail- jagrelo@concentric.net
                           In the Web
              http://home.navisoft.com/agrelo/ae.htm
Designer and Manufacturers of intelligent microprocessor based Doppler
                     and talking products
           Experts in Microchip and Motorola processors
        Cruise Missile Coordinates 42 47.427N,  073 56.525W
-----------------------------------------------------------------------
```

91. Re: [APRSSIG:1549] Re: Pac Comm-Trimble GPS Ant

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 03 Jun 1996 13:03:25 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960603180325.0072d6d4@144.188.134.33>
Rendered body type: text/plain

```
There may be more to the story than just weather proof. I have not opened up
my $50 ever so small Trimble antenna, but from playing with it it looks and
behaves like a loaded patch antenna. In fact, I noticed that its apparent
gain drops off substantially when not on the roof of my car. This leads to
the (un-documented) conlusion that the metal sheet below the antennas magnet
is needed to form the bottom half of the patch.
```

In other words, beware that it may not work well at all if used on surfaces other than metal surfaces, ie: fiberglass. I would be interested in hearing from anyone who has opened one up to confirm or deny this statement!

At 10:37 AM 6/3/96 -0500, you wrote:
>>>>>1. I got the little $50. Trimble Active GPS ant. sold by Pac Comm up and
>running with my trusty Magellan Trailblazer ths weekend. Works great, locks
>on in a fraction of the time of the Magellan OEM ant. Built-in mag mount on
>bottom. Good buy if you can overcome the SMB connector. Does anyone know if
>the enclosure is waterproof, water resistant or what?
>
Paul, WD9ABE

---

92. (no subject)

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Mon, 3 Jun 96 11:06:10 PDT
To: aprssig@tapr.org
Message-ID: <9606031806.AA07341@eng.adaptec.com>
Rendered body type: text/plain

> From aprssig@tapr.org Mon Jun 3 10:58:47 1996
> Date: Mon, 3 Jun 1996 09:48:33 -0500 (CDT)
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> From: rwf <rwf@mindspring.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:1543] Re: MFJ Data Radio
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
> Content-Type> : > text/plain> ; > charset="us-ascii">
> X-Mailer: Windows Eudora Pro Version 2.2 (16)
> Content-Length: 168
>
> If the receiver is this "good", I wonder if anyone has looked at its
> transmitter on a spectrum analyzer?
>
> rwf
>
> Now in South Florida, "where everyone is a wide" ;)

Yep, and we played with the adjustments to make it "legal" after we changed the xtals. It WAS possible to alter the filtering via the slug tuned inductors to get it within legal spec. We measured about .5uV sensitivity for the two radios we've got. We also see a pretty large distortion on the received waveform.

The radios DO key up within spec, like 1 to 2ms! They must certainly be the quickest radios in town that way....we're looking at some possible mods to correct the sensitivity problems and waveform distortion. If these turn out to be useful, we'll publish em.

Steve KA6S

---

93. Re: [APRSSIG:1556] Re: camaps06.zip

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 3 Jun 1996 13:41:26 -0500
To: aprssig@tapr.org
Message-ID: <v02120d06add8deaeb586@[138.87.2.109]>
Rendered body type: text/plain

Partially good Steve. Two reasons why it should be separate are:

- 1 -
User has to know "...
>There is a README in the file that basically says....use
>pkunzip -d to unpack."

(readme in the zip file that says how to unzip?)

-2-
Multi-platform machines can't unzip the file ... first. They have to be able to visually tell what is in the file. Try to put two files on the upload area. Example for DOS/WIN files: (One with filename.xxx and one with filename.txt)   The WWW format in the near future will *require* a description along side of the file name. The WWW user will read the description and click on the filename.xxx Please help the TAPR guys out by providing this information now so the transition to the HTML format will be

```
smooth. This is true of any platform.

>There is a README in the file that basically says....use
>pkunzip -d to unpack.  As others have found, it uses
>a newer version of pkzip, so you may need version 2.x
>to unzip this file.
>
>Steve KA6S

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP     IS Data Processing Equip Tech    k9orp@amsat.org
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

94. Re: [APRSSIG:1544] Re: MFJ Data Radio

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Mon, 03 Jun 1996 14:48:14 -0400
To: aprssig@tapr.org
Message-ID: <31B3336E.966078C@codger.physics.duq.edu>
Rendered body type: text/plain

```
rwf wrote:

> Folks,  investigate the commercial market.  There are *many* radios out
> there that are very suitable and much more reliale than the Ham gear available.

However, there are problems in the conversion of some of these radios; mainly,
the expense (in time or $$) of obtaining the manual for them.

We picked up 18 "partial" UHF MAXAR-80s at Dayton for $4/each.  "Partial" because
they were designed to be used as data radios; the components for the audio section
was never installed.  (We also picked up a couple of "real" MAXAR-80s, as well.)
We suspect that these things already have the wider IF filters for 9600+ installed.

Now, the problem of obtaining the manual, and doing the realignment.

If anyone has suggestions on how to go about this project, please mail me.

Thanks.
```

---

95. Re: [APRSSIG:1560] Re: Pac Comm-Trimble GPS Ant

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Mon, 3 Jun 1996 14:44:48 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0uQfYX-00008hC@ernest.itg.ti.com>
Rendered body type: text/plain

```
> Paul, WD9ABE, wrote:
> There may be more to the story than just weather proof. I have not opened up
> my $50 ever so small Trimble antenna, but from playing with it it looks and
> behaves like a loaded patch antenna. In fact, I noticed that its apparent
> gain drops off substantially when not on the roof of my car. This leads to
> the (un-documented) conlusion that the metal sheet below the antennas magnet
> is needed to form the bottom half of the patch.

Interesting.  I normally have mine on my S-10 pickup truck roof.  I recently
moved it to a friend's Suburban and the signal levels seemed a lot higher.
I usually have a couple of sats maxed out, but on the surburban, all
seen sats were maxed out.  So, there might be something to your un-documented
research.



--
Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-214-575-6427                        6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

---

96. Re: [APRSSIG:1557] Re: APRS WX stuff

From: schiers@ames.net
Date: Mon, 03 Jun 96 14:51:04 -0600
To: aprssig@tapr.org
Message-ID: <199606031954.OAA12815@tapr.org>
Rendered body type: text/plain

```
In <702426@bbs.ames.net>, on 06/03/96 at 02:26 PM,
   aprssig@tapr.org said:
```

```
>    hasan schiers, N0AN <schiers@ames.net> wrote:

>> They just called me (NWS). Here is their "official" reporting standard:
>>
>>1. For 24 hour period precip is reported at 1200 UTC...no change for dayl
>>   or standard, so the reporting period fluctuates 6:00 a.m winter, 7:00
>>   summer (DST) here in Iowa.
>>
>>2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.

>Clearly designed for reporting systems where the sampling interval is
>much longer than APRS users are accustomed to!

>So if the APRS format remains with a single figure, the useful thing to
>do is to report the previous period's data until the end of the current
>period, not to report the accumulator value during the current period.
>This way the WX watchers have several chances to capture the data off the
>air before it is replaced with fresh data.

>It would be nice to see both figures reported; the previous period and
>the current period accumulator.  Makes effective use of the higher
>sampling rate available via APRS.

>-Ralph kd1sm

I'm confused...APRS doesn't use a single figure, and I didn't think the
discussion was of dropping one or the other, but rather how to properly
DEFINE the periods of interest.

e.g. Rain and Precip are reported in APRS. Rain is in the last hour,
precip in the last day. All that needs to happen is to define the day as
beginning and ending at 1200 utc, for the latter and using a cardinal hour
for the  rain instead of a sliding 60 minute period. This seems to meet
both  criteria: ease of programming and agreement with NWS.

 If that really is the question, then I would
like APRS to stick to NWS definitions, so we can compare what is reported

by the NWS to our own experience. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

97. Re: [APRSSIG:1550] Re: APRS WX stuff

```
From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Mon, 3 Jun 1996 15:03:24 -0500
To: aprssig@tapr.org
Message-ID: <199606032003.PAA31800@crasher2.ttgcitn.com>
Rendered body type: text/plain
```

```
At 10:38 AM 6/3/96 -0500, you wrote:
>As a side note, I will be installing WinAPRS at the NWS site this
>Thursday. (They have 3 hams working there now.)

The Johnston NWS office?  Cool :-)

73 de N0PBS (who needs a vacation to work on this stuff)
```

---

98. Re: [APRSSIG:1555] DFjr RS232 levels

```
From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 03 Jun 1996 15:17:04 -0700
To: aprssig@tapr.org
Message-ID: <31B36460.446E@ix.netcom.com>
Rendered body type: text/plain
```

```
Joseph Agrelo wrote:
>
> To the SIG,
>
> The DFjr's RS232 voltage levels are -12 to +12, not 0 to +5.
> Who ever measured 0 to +5, did you use a scope?
> Please call me if you are having a problem.
>
> Thank you.
>
> 73 de Joe N2OOC
> ----------------------------------------------------------------------                      Joe
Agrelo/N2OOC
>                     Agrelo Engineering
>                      Ph (518)381-1057
>                      Fx (518)381-1058
>                   E-mail- jagrelo@concentric.net
>                         In the Web
>              http://home.navisoft.com/agrelo/ae.htm
> Designer and Manufacturers of intelligent microprocessor based Doppler
>                     and talking products
>           Experts in Microchip and Motorola processors
>        Cruise Missile Coordinates 42 47.427N,  073 56.525W
> ----------------------------------------------------------------------Thanks for both the personal
and the sig reply Joe. Glad you set the record
straight. I will dig up the persons message to me and tell him to get in
contact with you if he's still having the problem. I didn't want to post his
call or e-mail address without him knowing about it. And i also want
everyone to know that i also asked about Agrelo's return policy, and it's a
full refund for 30 days, GOOD ENOUGH FOR ME JOE AND THANKS.
Bill KE4EER
http://www.netcom.com/~wnolle
```

---

99. FD and Trimble Antennas (Unrelated)

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Mon, 03 Jun 1996 18:04:11 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960603220411.00680bdc@cassatt>
Rendered body type: text/plain

```
Howdy All!

 I've had my Trimble GPS antenna on the roof of my 1993 Ford
Explorer for exactly one year now since I've bought it from Paccom with my
Tiny-2/GPS unit. Been through all sorts of New England Weather, works fine!

FD and APRS: I brought APRS to our field day operation as a demonstration
for the group last year and it was quite a hit! We were visited by the
local Fire and Police officials and they liked it too! We didn't take FD
contact points from it, since it was 30m and 2m. Also, the 20m Phone and CW
operations are not likely to like the desense they get from a 20m APRS
setup, and they are much more likely to make more contacts.

 I say, everybody bring APRS to your Field Day operation, demonstrate it
to everyone, but don't use it for contact points, there are more efficient
methods of that. If you're going to use APRS in an emergency operation,
you aren't going to make one line messages the primary use. You are going to
observe distant weather, track mobile units and storms, DF a station, play
chess!
You're not going to use it as your primary text transmission means.

 Have fun, make FD an international APRS Activity weekend on bands not
involved in FD points.

 73,

 - Tom Kinahan N1CPE




--------------------------------------------------------------
Tom Kinahan                     Phone:          508-898-2600x305
US Robotics                     Fax:            508-366-3626
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

---

100. Re: [APRSSIG:1564] Re: Pac Comm-Trimble GPS Ant

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 03 Jun 1996 15:01:31 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "alan@ernest.itg.ti.com" <alan@ernest.itg.ti.com> (Return requested)
Message-ID: <035ED31B360BB84B*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
Alan wrote:

> Paul, WD9ABE, wrote:
```

> There may be more to the story than just weather proof. I have not opened up
> my $50 ever so small Trimble antenna, but from playing with it it looks and
> behaves like a loaded patch antenna. In fact, I noticed that its apparent
> gain drops off substantially when not on the roof of my car. This leads to
> the (un-documented) conlusion that the metal sheet below the antennas magnet
> is needed to form the bottom half of the patch.

Interesting. I normally have mine on my S-10 pickup truck roof. I recently
moved it to a friend's Suburban and the signal levels seemed a lot higher.

Well, the roof of the Suburban's nearly a foot closer to the
satellites! That should explain part of it right there!

73 - Jon NW6H (a proud Suburban owner)

---

101. Re: [APRSSIG:1565] Re: APRS WX stuff

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 03 Jun 1996 15:09:57 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"schiers@ames.net" <schiers@ames.net> (Return requested)
Message-ID: <032BD31B362B548D*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Absolutely - if we want to imagine that our data will have utility to
services outside our own we should stick to standard formats where
possible. Especially when it's straightforward to do so.

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:1565] Re: APRS WX stuff
Author: schiers@ames.net at Internet
Date: 6/3/96 1:19 PM

In <702426@bbs.ames.net>, on 06/03/96 at 02:26 PM,
aprssig@tapr.org said:

>   hasan schiers, N0AN <schiers@ames.net> wrote:

>> They just called me (NWS). Here is their "official" reporting standard:
>>
>>1. For 24 hour period precip is reported at 1200 UTC...no change for dayl
>>   or standard, so the reporting period fluctuates 6:00 a.m winter, 7:00
>>   summer (DST) here in Iowa.
>>
>>2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.

>Clearly designed for reporting systems where the sampling interval is
>much longer than APRS users are accustomed to!

>So if the APRS format remains with a single figure, the useful thing to
>do is to report the previous period's data until the end of the current
>period, not to report the accumulator value during the current period.
>This way the WX watchers have several chances to capture the data off the
>air before it is replaced with fresh data.

>It would be nice to see both figures reported; the previous period and
>the current period accumulator. Makes effective use of the higher
>sampling rate available via APRS.

>-Ralph kd1sm

I'm confused...APRS doesn't use a single figure, and I didn't think the
discussion was of dropping one or the other, but rather how to properly
DEFINE the periods of interest.

e.g. Rain and Precip are reported in APRS. Rain is in the last hour,
precip in the last day. All that needs to happen is to define the day as
beginning and ending at 1200 utc, for the latter and using a cardinal hour
for the rain instead of a sliding 60 minute period. This seems to meet
both criteria: ease of programming and agreement with NWS.

If that really is the question, then I would
like APRS to stick to NWS definitions, so we can compare what is reported
by the NWS to our own experience. 73,

hasan schiers, N0AN--
----
schiers@ames.net
----

102. Re: [APRSSIG:1498] Re: FIELD DAY! APRS style

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 03 Jun 1996 15:18:05 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
 "z004391b@bcfreenet.seflin.lib.fl.us" <z004391b@bcfreenet.seflin.lib.fl.us> (Return requested)
Message-ID: <032BD31B3649D51C*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

```
The only one-way that is valid for points is copying the fd bulletin.
     Getting an "ACK" back from a connected station that includes the FD
     info in the connect text is right on the edge ethically, as far as I'm
     concerned.  But, if you spend FD in places (like I do) where there's
     no packet, then talking to ANYTHING counts...%^)

     73 - Jon NW6H




______________________________ Reply Separator _________________________________
Subject: [APRSSIG:1498] Re: FIELD DAY! APRS style
Author:  z004391b@bcfreenet.seflin.lib.fl.us at Internet
Date:    6/3/96 8:32 AM


I may be wrong (probably am) but I thought that only two-way qso's and
not one way 'beacons' were allowed for point getters on field day.
73,

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us


On Sat, 1 Jun 1996, Bob Bruninga wrote:

> Take your computer out to field day and count every station on the map as
> a DIGITAL contact worth 2 points!  Also, APRS Looks REAL imrpressive at
> NIGHT.  DOnt bother until dusk, hi hi  (or find a real shady place)/...
```

103. Re: [APRSSIG:1553] Re: APRS WX stuff

From: Chip <quarry@q.continuum.net>
Date: Mon, 3 Jun 1996 18:26:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960603182424.11796B-100000@q.continuum.net>
Rendered body type: text/plain

```
On Mon, 3 Jun 1996, Mark Sproul wrote:

> I am working on a bunch of additions for WX for WinAPRS, I have added the
> ability to display ONLY WX stations, I think this will be very usefull for
> those watching WX information.  There will be more to come in the future.

Perhaps a more general filtering ability would be useful.  If one could
set the filter to only display station types selected in a window, that
would be nice.  Another example of a use would be during a special event
where you might only want the stations active in the event (hence the
filter) vice the usually array of clutter.

Just an idea...

Chip Griffin - SysOp of the Quarry (203-889-6427)
President of Thames River Apple Users Group
     - quarry@q.continuum.net
     - griffge@gwsmtp.nu.com

http://q.continuum.net/~quarry/
```

104. Re: [APRSSIG:1550] Re: APRS WX stuff

From: ku0g@sprynet.com
Date: Mon, 3 Jun 1996 15:23:13 -0700
To: aprssig@tapr.org
Message-ID: <199606032223.PAA11907@m1.sprynet.com>

Rendered body type: text/plain

```
Great News on the DSM NWS station coming up on line!!!  Good information for me
to pass along to the boys down at Pleasant Hill!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

105. Re: [APRSSIG:1541] Mission Planning S/W

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 3 Jun 1996 17:31:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606032231.RAA15115@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Go snag one of the various sat tracking programs and then get keps for the
birds from www.afit.mil.

I'll try to look for planning s/w later on.

Gerry
```

106. Re: [APRSSIG:1563] Re: MFJ Data Radio

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 3 Jun 1996 17:39:18 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606032239.RAA15215@solar.cs.tamu.edu>
Rendered body type: text/plain

```
For the MAXAR manuals:  Get with your local 2-way shop and ask them (nicely)
for the number to Motorola's Parts ID line.  Parts ID can get you the part
number fo the appropriate manual and then help you order it.  Cost should be
<$10.

73, gerry
n5jxs@tamu.edu
```

107. TORCH

From: n9flx@indygate.kb9law.ampr.org
Date: Mon, 03 Jun 96 18:02:31 est
To: aprssig@tapr.org
Message-ID: <27363@IndyGate.ampr.org>
Rendered body type: text/plain

```
TORCH CARAVAN REACHED HAMMOND, IN. (lag: 4136.21N  log: 08727.78W)
AT 18:00EST LOCAL ACCORDING TO CHICAGO AND INDIANAPOLIS TV NEW.
Apologies here folks.. I do not know how to bring up flag.
SIGnature file:
                N9FLX.........      H.G. (Hal) Hardy
                E-mail........      n9flx@indygate.ampr.org
                Home BBS......      N9FLX@WJ9U.#CENIN.IN.USA.NOAM
                IP ADDR.......      N9FLX-2 [44.48.70.173]
                IP ADDR.......      N9FLX-6 [44.48.70.174]
                QTH...........      Indianapolis,IN. 46208zip
                OO~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~OO
```

108. Re: [APRSSIG:1563] Re: MFJ Data Radio

From: rwf <rwf@mindspring.com>
Date: Mon, 3 Jun 1996 19:17:04 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960604011637.2f1f0752@mindspring.com>
Rendered body type: text/plain

```
At 01:59 PM 6/3/96 -0500, Paul wrote:

>However, there are problems in the conversion of some of these radios; mainly,
>the expense (in time or $$) of obtaining the manual for them.

Yes. It is not for everyone.
But if everyone sticks to pretty straightforward radios, the tune up
instructions are available readily.
There is a web page with tune up and conversion instructions of Mitreks and
MVPs to the 440 ham band.  I'll bet someone could modify that stuff to
depict the 2 meter instructions as well.

The radios I mentioned come right up on 2 meters with good sensitivity with
just a crystal change (just don't use bomar or Jan crystals).  There is no
```

```
"conversion" per se.

>We picked up 18 "partial" UHF MAXAR-80s at Dayton for $4/each.  "Partial"
because
>they were designed to be used as data radios; the components for the audio
section
>was never installed.  (We also picked up a couple of "real" MAXAR-80s, as
well.)
>We suspect that these things already have the wider IF filters for 9600+
installed.
>
>Now, the problem of obtaining the manual, and doing the realignment.

You were going to use them for 9600 then?  or for 1200 APRS?
Too bad the manuals weren't available.

One of the Mitreks, I took to Motorola for tuning because I did not have the
time to do it myself.  They charged 60.00 to do it (a good price,
considering what my time is worth)  I bargained them down to 30.00.


>If anyone has suggestions on how to go about this project, please mail me.

Sorry, my Moto experience is with Mitreks and close kin only.  Good luck. I
have heard horror stories on the Maxars.

Ralph
```

---

109. APRS-ATV interface

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 3 Jun 1996 20:04:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960603200055.21458A-100000@arctic>
Rendered body type: text/plain

```
I just received a copy of the Kansas City APRS WOrking Group Newsleter
and was intrigued by their project to interface the APRS map displays to
their ATV repeater.  They will use a touch tone decoder so that remote
ATV users can page up/down, select the 1 to 9 MAP hot keys, and cycle
through the WX stations with the N command.

I presume he is writing some kind of TSR to stuff the proper KEY stroke
into the keyboard buffer.  Neat idea.  let us know when it is finished.

de wb4apr@amsat.org
```

---

110. Re: [APRSSIG:1576] TORCH

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 3 Jun 1996 20:29:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960603202842.21458F-100000@arctic>
Rendered body type: text/plain

```
On Mon, 3 Jun 1996 n9flx@indygate.kb9law.ampr.org wrote:

> TORCH CARAVAN REACHED HAMMOND, IN. (lag: 4136.21N  log: 08727.78W)
> AT 18:00EST LOCAL ACCORDING TO CHICAGO AND INDIANAPOLIS TV NEW.
> Apologies here folks.. I do not know how to bring up flag.

APRSdos REPLY COMMENT:  Ive been using the WX-STORMS-ADVISORY flag...
as my symbol for hte Olymipic torch...

de wb4apr@amsat.org
```

---

111. Re: [APRSSIG:1566] Re: APRS WX stuff

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Mon, 3 Jun 1996 19:25:37 -0500
To: aprssig@tapr.org
Message-ID: <199606040025.TAA00122@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
Erps, wasn't meant to go to the list.  Something about this list breaks
replying in a nasty way.  -rt

At 03:20 PM 6/3/96 -0500, Ryan Tucker wrote:
>At 10:38 AM 6/3/96 -0500, you wrote:
>>As a side note, I will be installing WinAPRS at the NWS site this
>>Thursday. (They have 3 hams working there now.)
```

```
>
>The Johnston NWS office?  Cool :-)
>
>73 de N0PBS (who needs a vacation to work on this stuff)
>
>
```

112. Re: [APRSSIG:1565] Re: APRS WX stuff

```
From: Don Murray <james-m@ix.netcom.com>
Date: Mon, 03 Jun 1996 20:29:16 -0400
To: aprssig@tapr.org
Message-ID: <31B3835C.2BE4@ix.netcom.com>
Rendered body type: text/plain
```

```
schiers@ames.net wrote:
>
> In <702426@bbs.ames.net>, on 06/03/96 at 02:26 PM,
>    aprssig@tapr.org said:
>
> >    hasan schiers, N0AN <schiers@ames.net> wrote:
>
> >> They just called me (NWS). Here is their "official" reporting standard:
> >>
> >>1. For 24 hour period precip is reported at 1200 UTC...no change for dayl
> >>   or standard, so the reporting period fluctuates 6:00 a.m winter, 7:00
> >>   summer (DST) here in Iowa.
> >>
> >>2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.
>
> >Clearly designed for reporting systems where the sampling interval is
> >much longer than APRS users are accustomed to!
>
> >So if the APRS format remains with a single figure, the useful thing to
> >do is to report the previous period's data until the end of the current
> >period, not to report the accumulator value during the current period.
> >This way the WX watchers have several chances to capture the data off the
> >air before it is replaced with fresh data.
>
> >It would be nice to see both figures reported; the previous period and
> >the current period accumulator.  Makes effective use of the higher
> >sampling rate available via APRS.
>
> >-Ralph kd1sm
>
> I'm confused...APRS doesn't use a single figure, and I didn't think the
> discussion was of dropping one or the other, but rather how to properly
> DEFINE the periods of interest.
>
> e.g. Rain and Precip are reported in APRS. Rain is in the last hour,
> precip in the last day. All that needs to happen is to define the day as
> beginning and ending at 1200 utc, for the latter and using a cardinal hour
> for the  rain instead of a sliding 60 minute period. This seems to meet
> both  criteria: ease of programming and agreement with NWS.
>
>  If that really is the question, then I would
> like APRS to stick to NWS definitions, so we can compare what is reported
> by the NWS to our own experience. 73,
>
> hasan schiers, N0AN--
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------

I agree, I also would like for us to stick to the NWS definitions.

Don
```

113. Converting commercial radios

```
From: PCE Enterprises <pce@infobahn.icubed.com>
Date: Mon, 3 Jun 1996 20:35:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960603203033.2566A-100000@infobahn.icubed.com>
Rendered body type: text/plain
```

```
On Mon, 3 Jun 1996, rwf wrote:

> There is a web page with tune up and conversion instructions of Mitreks and
> MVPs to the 440 ham band.  I'll bet someone could modify that stuff to
> depict the 2 meter instructions as well.
```

```
Do you know the URL for that?

> The radios I mentioned come right up on 2 meters with good sensitivity with
> just a crystal change (just don't use bomar or Jan crystals).  There is no
> "conversion" per se.

That's good to know; I have a Motorola "Mobile Repeater" that I want to get
running.  Haven't had any luck finding manuals, though.

>> We picked up 18 "partial" UHF MAXAR-80s at Dayton for $4/each.
>> "Partial" because they were designed to be used as data radios; the
>> components for the audio section was never installed.

> You were going to use them for 9600 then?  or for 1200 APRS?
> Too bad the manuals weren't available.

We're trying to get some activity going on 440 at 9600.  APRS will come
later...  I already have an old RCA rig (several, in fact) that is likely
to become a WIDE for the area.  (On the map at Dayton, I saw that
Pittsburgh was in the middle of a blank spot...)
```

114. Re: [APRSSIG:1575] Re: MFJ Data Radio

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Mon, 3 Jun 1996 17:43:55 -0600 (MDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960603173643.5916D@willow>
Rendered body type: text/plain

```
For all interested:

Parts ID number = 1-708-538-0021
these folks can tell you what you have from a part number, usually get
the part number from your description, or can tell you what manual you need
from the radio's part number.

Parts ordering = 1-800-422-4210
these folks will take your order.  They can only work from a valid part
number.

About manuals,
Most are still in stock, some are not and will not be restocked.  Prices
can vary all over the place and are not always reasonable.  Usually,
manuals which have been reproduced after the original printing was
exhausted are more expensive.

Chris, AA7WD
```

115. HELP

From: "Doug Campbell" <dgc@host.renc.igs.net>
Date: Mon, 3 Jun 1996 21:10:11 +0000
To: aprssig@tapr.org
Message-ID: <199606040109.VAA06781@host.renc.igs.net>
Rendered body type: text/plain

```
Hello
I wonder if anyone could help me . I have tried to install and run
APRS in my computer and all I get is APRS in large letters and a
bunch of gibberish , Then the computer starts beeping and locks up .
I am using a NEC 7022 (pentium 75) with windows95 as the OS.
I have installed the same zipped programs at work on the 486 66 and
it works just fine . I also waited until I received the CD from TAPR
to see if that program would work but I had the same results . I have
tried all the versions of the program I could get my hands on without
any joy .  This is the first program that I have had this problem on
so I have to wonder what it is .
Thanks in advance  Doug Campbell VE3DGC
```

116. APRS Rain Fall Wx Reporting

From: Miami Network <0004818186@mcimail.com>
Date: Mon, 3 Jun 96 20:18 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <51960604011815/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

```
I got a little trigger happy and deleted the message that
talked about the two conventions on how rain fall was
being reported by APRS and the convention.
```

If someone save that can you please forward it to me directly
at miaminet@mcimail.com

I would like to send it to the National Hurricane Center
in Miami for their review.

The APRS Station at the Hurricane Center was receiving Wx Data
from the Keys this past weekend which was reporting rain fall
at a level higher than other recording equipment. It might be
interesting to see which of the two was accurate or if it
was in the way the information was being sent?

73, Seymour, KC4NMY

117. APRS & Ultima 2000 Wx Station

From: Miami Network <0004818186@mcimail.com>
Date: Mon, 3 Jun 96 20:26 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <84960604012648/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

We just commissioned a new DIGI in South Florida that is equipped with the
Ultima 2000 Wx Station. I noticed from time to time during the testing that we
were getting a message in the upper right corner of the screen "Com Port
Overload"

Any hints as to what would be causing this?

73, Seymour, KC4NMY

118. FW: meteor scatter/packet

From: Ben Pollard <benws5r@arn.net>
Date: Mon, 3 Jun 1996 21:26:32 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB5194.F84C9A00@dialup4-061.arn.net>
Rendered body type: text/plain

From: BOB ROACH[SMTP:bob.roach@sourcebbs.com]
Sent: Monday, June 03, 1996 10:30 AM
To: VHF@w6yx.stanford.edu
Subject: Re: meteor scatter/packet

Hi Everyone,

This may be slightly off topic but it definately deals with a VHF "weak
signal". I recently bought a PK-12 TNC and in the docs there is some
mention of settings for meteor scatter packet. Does anyone here
participate in this or know anything about it.

73 de KE4QOK
Bob
bob.roach@sourcebbs.com

 * SLMR 2.1a * Very funny Scotty........now beam up my clothes!

```
---
This message originated from:  ----------        Selective Source BBS
                                    -------    Virginia Beach, Virginia
                                         -----      (804) 471 6776
------
Submissions:                    vhf@w6yx.stanford.edu
Subscription/removal requests:  vhf-request@w6yx.stanford.edu
Human list administrator:       vhf-approval@w6yx.stanford.edu
```

119. Re: [APRSSIG:1575] Re: MFJ Data Radio-- MAXAR-80 UHF

From: Scott Arnold <sarnold@access-net.com>
Date: Mon, 03 Jun 1996 21:26:51 +0000
To: aprssig@tapr.org
Message-ID: <31B3589A.69E4@access-net.com>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> For the MAXAR manuals:  Get with your local 2-way shop and ask them (nicely)
> for the number to Motorola's Parts ID line.  Parts ID can get you the part
> number fo the appropriate manual and then help you order it.  Cost should be
> <$10.
>
> 73, gerry
> n5jxs@tamu.edu

Motorola Parts ID # 1-847-538-0021
MAXAR 80 UHF: I can get you the part # for the manual, but I need the
model number of the radio as there are many manuals for that radio.
Also I probably have the manual your looking for?

Scott Arnold
KC5RIE
Southern Communications Advanced Technology
e-mail sarnold@access-net.com
```

---

120. Re: [APRSSIG:1582] Converting commercial radios

From: n2czf@gate.net
Date: Mon, 3 Jun 1996 22:31:36 -0400
To: aprssig@tapr.org
Message-ID: <199606040231.WAA20208@osceola.gate.net>
Rendered body type: text/plain

```
I never saw the original posting but please Ralph or anyone else fill me in!!

I think a real hot topic could be what can be converted to 902 MHz from the
commercial band. Most anyone can find radios that can be converted for 2M and
440 but how about 902 or 1.2 ?? I hear some of the Standard 800 MHz radios have
been made to go to 1.2 GHZ! Talk about easy pickings for a National APRS
frequency.

Does anyone know of a newsgroup or a sig comprised of hams in the 2-way
radio/broadcast industry ? Seems that there are enough of us out here.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

---

121. Re: [APRSSIG:1526] Re: Order Status

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 3 Jun 1996 22:34:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960603223219.16959A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 2 Jun 1996 ku0g@sprynet.com wrote:

> Thanks Rich!!!!  Also, thanks Hasan!!!
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

I don't think this crypitic message should have been posted to the
mailing list. At first I thought someone was thanking me, but I couldn't
figure out what for!

Much better to send e-mail (and a carbon copy) directly to these two folks.

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

122. Re: [APRSSIG:1578] APRS-ATV interface

From: ku0g@sprynet.com
Date: Mon, 3 Jun 1996 19:43:01 -0700
To: aprssig@tapr.org
Message-ID: <199606040243.TAA13874@m1.sprynet.com>
Rendered body type: text/plain

```
It's actually pretty simple....The circuit uses a basic touchtone decoder that
reads the tone and will close a 2N222 type transistor switch which is attached
to the actual contacts of an old keyboard....pretty simple...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

123. Re: [APRSSIG:1582] Converting commercial radios

From: Dale Seaburg <dseaburg@web-access.net>
Date: Mon, 03 Jun 1996 21:50:49 -0500
To: aprssig@tapr.org
Message-ID: <31B3A489.4D42@web-access.net>
Rendered body type: text/plain

```
PCE Enterprises wrote:
>
> On Mon, 3 Jun 1996, rwf wrote:
>
> > There is a web page with tune up and conversion instructions of Mitreks and
> > MVPs to the 440 ham band.  I'll bet someone could modify that stuff to
> > depict the 2 meter instructions as well.
>
> Do you know the URL for that?
>

snip---------------------------------------

I just completed a quick Yahoo / Lycos search and found two web
pages:

http://www.gag.com/papers/mitrek.html
   and
http://www.Hams.com/perens/HamRadio/ModsAndManuals/Motorola/Mitre
k_440_To_9600_Repeater.html

Both look good.  Also, Buck Rogers has had several articles in CQ
on modifying the Mitrek Radios for 9K6.

Hope this helps.

Dale Seaburg  KG5LT
dseaburg@web-access.net
```

---

124. Motorola PVT-6 Question

From: Mark Oppenheim <marko@tetherless.com>
Date: Mon, 3 Jun 1996 20:45:27 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960603204528.41c725c6@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
I have a Motorola "Oncore" PVT-6 GPS receiver.

After having the unit glitched, I was finally able to get the unit back to
NMEA mode, from the Motorola Binary mode.

Unfortunately, the unit now inserts a binary character in front of each NMEA
sentance.  This even is present in the Motorola "Binary" mode, as the
Motorola program that I have ("GPS90") also reports "bad data" when it is
being used.

Is there a command/method to "reset/default" the unit?

Mark
```

---

125. "Auto Scroll Moving Map"

From: quarry@q.continuum.net (Chip)
Date: Tue, 4 Jun 1996 04:37:07 -0400
To: aprssig@tapr.org, ksproul@hardees.rutgers.edu
Message-ID: <v02140b00add9a4f8953e@[199.0.52.92]>
Rendered body type: text/plain

```
I'm fairly sure I already asked this, but I got no replies that I am
aware of, so I will try again.

I wonder if I have the "Auto Scroll Moving Map" enabled will it scroll
onto another map, or will it only work on the selected map?  Is there a
```

way to set a range so that if it did scroll onto a new map it would
retain a particular range?

I will be making a trip to Boston about this time tomorrow (early AM
since I have to be at Logan Intl before 7am and I am 2+ hours away). In
fact, come to think of it I have no idea how the traffic will be or what
route I will take ... send advice by email as it is a little off topic.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
- eMail to: quarry@q.continuum.net
my home page: http://q.continuum.net/~quarry/
TRAUG home page: http://q.continuum.net/~quarry/TRAUG.html

---

126. Re: [APRSSIG:1542] Re: DFjr

From: Carl Taylor <carlt@icanect.net>
Date: Tue, 4 Jun 1996 08:11:32 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606041211.IAA19435@foo.icanect.net>
Rendered body type: text/plain

i am going to be in dallas in about a week... how can i find the aprs gang..
i will have a tracker in my airplane, but no computer....At 09:03 AM 6/3/96
-0500, William Nolle wrote:
>Robert Winingham wrote:
>>
>> >doesn't have the correct RS232 levels of +12v to -12v, but rather 0 to5v.
>> ------------
>>
>> This is no big deal and is done a lot now days.
>>
>> I think the orginal RS-232 spec was +15 and -15 but most computer
>> work with the 0 to 5v . Remember that some of the handheld GPS
>> units output 0 to +4 volts and this has worked for all TNC's and
>> most use this same GPS output voltage to work with their computers.
>>
>> 73
>>
>> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ------------
>Thanks for the posting Bob, but that wasn't the case with my Magellan
>NAV5000DX, so don't be to hasty in saying this has worked with ALL TNC's
>because my Magellan never did work on a KPC3 even after many suggestions
>from people on the sig and also many calls to Kantronics and Magellan. I
>finally had to switch to another make of TNC and it worked just fine. By
>the way we also hooked the Magellan to a friends KPC3 that normally runs
>a Magellan Meridian and it wouldn't work on his either!. Also on the same
>note i have not been able to get my NAV5000DX to work on Paccomm's single
>port switch even after their suggested fix by placing a resister in the
>TNC. So this tells me there's something about my GPS receiver that's
>different then most GPS receivers used like the Garmin's etc.
>
>Bill KE4EER
>http://www.netcom.com/~wnolle
>
>
>
Johann O Jokulsson | http://www.iti.is
System Administrator |
Technological Institute of Iceland tel: +354 - 587 - 7000
Keldnaholti, IS-112 Reykjavik fax: +354 - 587 - 7409

---

127. Re: [APRSSIG:1590] Re: Order Status

From: schiers@ames.net
Date: Tue, 04 Jun 96 07:52:06 -0600
To: aprssig@tapr.org
Message-ID: <199606041256.HAA27955@tapr.org>
Rendered body type: text/plain

In <702852@bbs.ames.net>, on 06/03/96 at 11:35 PM,
aprssig@tapr.org said:

>On Sun, 2 Jun 1996 ku0g@sprynet.com wrote:

>> Thanks Rich!!!! Also, thanks Hasan!!!
>>
>> Best 73,
>> Jim Duncan, KU0G

```
>> APRS--Kansas City Coordinator
>> EMail:  ku0g@sprynet.com

>I don't think this crypitic message should have been posted to the
>mailing list. At first I thought someone was thanking me, but I couldn't
>figure out what for!

>Much better to send e-mail (and a carbon copy) directly to these two
>folks.

>Richard Amirault              N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"

And since it is obviously a one timer, I don't think we should waste even
more bandwidth (like I am now), nit picking. Geez, some of these lists,
remind me of a bunch of old farts (and I am fast becoming one), sitting
around just looking for something to gripe about, criticize or find fault
with. Do hams have so little productive to do that they just must wait for
that ONE BIG  chance to find fault. LIghten up. Use your delete key. This
is NOT a moderated list and while each person is free to voice his/her
opinion...really is this the kind of thing you really want to spend your
time doing? Please note the irony in my comments, before flaming, if you
would. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

128. Re: [APRSSIG:1585] APRS Rain Fall Wx Reporting

From: schiers@ames.net
Date: Tue, 04 Jun 96 07:57:56 -0600
To: aprssig@tapr.org
Message-ID: <199606041259.HAA27983@tapr.org>
Rendered body type: text/plain

```
In <702808@bbs.ames.net>, on 06/03/96 at 10:28 PM,
   aprssig@tapr.org said:

>I got a little trigger happy and deleted the message that
>talked about the two conventions on how rain fall was
>being reported by APRS and the convention.

>If someone save that can you please forward it to me directly at
>miaminet@mcimail.com

>I would like to send it to the National Hurricane Center
>in Miami for their review.

>The APRS Station at the Hurricane Center was receiving Wx Data from the
>Keys this past weekend which was reporting rain fall at a level higher
>than other recording equipment. It might be interesting to see which of
>the two was accurate or if it
>was in the way the information was being sent?


>73, Seymour, KC4NMY

The local NWS told me yesterday that DAILY rainfall is to be reported at a
cutoff of 12:00 UTC, no correction for daylight savings time. They also
said hourly rainfall is ON THE HOUR and not a sliding 60 minute period.

They do report other intervals like 3 hr and 6 hr as well, but that has no
real applicability to APRS. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

129. Re: [APRSSIG:1580] Re: APRS WX stuff

From: schiers@ames.net
Date: Tue, 04 Jun 96 08:02:04 -0600
To: aprssig@tapr.org
Message-ID: <199606041302.IAA28191@tapr.org>
Rendered body type: text/plain

```
In <702795@bbs.ames.net>, on 06/03/96 at 09:56 PM,
   aprssig@tapr.org said:
```

```
>>>As a side note, I will be installing WinAPRS at the NWS site this
>>>Thursday. (They have 3 hams working there now.)
>>
>>The Johnston NWS office?  Cool :-)
>>
Yes, Ryan.
73,
hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

130. Re: [APRSSIG:1584] HELP

From: rsellers@misha.net (Roger Sellers)
Date: Tue, 4 Jun 1996 08:05:50 -0500
To: aprssig@tapr.org
Message-ID: <199606041305.IAA12285@misha.net>
Rendered body type: text/plain

```
>Hello
>I wonder if anyone could help me . I have tried to install and run
>APRS in my computer and all I get is APRS in large letters and a
>bunch of gibberish , Then the computer starts beeping and locks up .
>I am using a NEC 7022 (pentium 75) with windows95 as the OS.
>I have installed the same zipped programs at work on the 486 66 and
>it works just fine . I also waited until I received the CD from TAPR
>to see if that program would work but I had the same results . I have
>tried all the versions of the program I could get my hands on without
>any joy .  This is the first program that I have had this problem on
>so I have to wonder what it is .
>Thanks in advance  Doug Campbell VE3DGC
>
  You didn't mention whether you were working with the DOS or Windows
version of APRS software. On my Desktop Pentium, for some reason I'm having
a similar problem with the DOS version. I've all but entirely given up
running DOS APRS on my pentium. I have no logic or explaination for it. Mine
locks the entire PC at the point the screen says INITIALIZING TNC. The only
way to recover is shut the PC off.
  But I have no problem with the Windows version on my Pentium. Both
versions run fine on both laptops (a 286 and 486 model).

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

131. Re: APRS WX stuff

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 03 Jun 1996 21:53:50 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960604015350.007570b4@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 05:17 PM 6/3/96 -0500, you wrote:
>
>     Absolutely - if we want to imagine that our data will have utility to
>     services outside our own we should stick to standard formats where
>     possible.  Especially when it's straightforward to do so.
>

While I absolutely agree with that, I find quite stupid to drop the actual
"rain" format (moving sum over the last hour, or last day) which actually
means something when you look at a wx report. Maybe there's a way to keep
both formats?
Speaking about standards: is everything else in APRS in standard units? I
would like to have the ability to display km, degrees centigrade, Pascals
(or hecto Pascals, this is for pressure)... I am not advocating to drop
usual US units, but just an option so the user have some choice.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

132. Re: [APRSSIG:1586] APRS & Ultima 2000 Wx Station

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 4 Jun 1996 10:08:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960604100628.11919D@arctic>
Rendered body type: text/plain

On Mon, 3 Jun 1996, Miami Network wrote:

> Ultima 2000 Wx Station. I noticed from time to time during the testing
> that we were getting a message in the upper right corner of the screen
> "Com Port Overload"

APRSdos REPLY COMMENT: Is a known problem with PC's with some of the new
UART chips with internal FIFO's. TUrn the FIFO buffer of (in setup) or
run an older machine. I hope to develop an APRS fix eventually.

When it locks up. Just unplug the ultimeter for a second or two...

de wb4apr@amsat.org

---

133. Re: [APRSSIG:1594] "Auto Scroll Moving Map"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 4 Jun 1996 10:14:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960604101331.11919E-100000@arctic>
Rendered body type: text/plain

On Tue, 4 Jun 1996, Chip wrote:

> I wonder if I have the "Auto Scroll Moving Map" enabled will it scroll
> onto another map, or will it only work on the selected map?

APRSdos REPLY COMMENT: Yes, with TRACKED mode set on a station, the
normal APRS automatic map selection will occur automatically...

de wb4apr@amsat.org

---

134. Re: [APRSSIG:1512] APRS Users in FL Space Coast Area!!

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Tue, 4 Jun 1996 14:43:11 GMT
To: aprssig@tapr.org
Message-ID: <199606041443.OAA11914@mailhost.worldnet.att.net>
Rendered body type: text/plain

At 08:28 PM 6/2/96 +0000, you wrote:
>I would like to inform any "dormant" APRS users in the Space Coast area to
keep
>an eye out on 145.79 in about 1-2 weeks. Many have asked for a WIDE digi in
the
>Melbourne Daytona Beach area and I think we may have succeeded. This will be a
>test digi for the time being at 400ft running 30 watts just North of Melbourne.
>------------------------------------SNIP-------------------------------------

>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>Right now I'm having amnesia and deja vu at the same time. I think I've
>forgotten this before.   Steven Wright
>--------------------------------------SNIP-----------------------------------

Hi Rich,

Sounds great!!! It should be within the range of kc4vbz-10, here in Orlando
which is up and running well/
We have better than 75% success with N7GZT-10 in Lakeland, and on to Tampa.

I don't know if it is conditions, systems or what, but since the Orlando
Digi has go up, we don't see you all to the south. Is WA4JAF-3 still
operational???

I am going to go back to a direct shot at him for a day or two to see if our
digi lacks to the south or if the path down that way has just gotten worse.

I have talked to Phill, in Lakeland (N7GZT) and he had told me that he had
plans for a digi in Melbourne and also on a bldg. at the CAPE. That may be
who you are referring to.

Will watch (with bated breath) for the Melbourne digi!!!

73's

>
>
Bud (WB4LTF)

---

135. Symbols

From: "Jim Neely" <jneely@eden.com>
Date: Tue, 04 Jun 96 11:54:40 -0500
To: "Bob Bruninga" <bruninga@nadn.navy.mil>
Cc: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199606041655.LAA21797@matrix.eden.com>
Rendered body type: text/plain

Bob,

I was experimenting the other day and used the WX commands. So far I haven't been able to find the secret to changing
back from the WX symbol to something else.

I'm still using 7.5C. I'm probably overlooking the obvious, but I'd appreciate a bit of your wisdom.

Thanks & 73...jn

Jim Neely
jneely@eden.com WA5LHS@tapr.org

---

136. RE: [APRSSIG:1541] Mission Planning S/W

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 4 Jun 1996 12:56:51 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB5215.A87A7890@ppp-106.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
----------
From: 	Randy Hammock
Sent: 	Monday, June 03, 1996 9:02 AM
To: 	aprssig@tapr.org
Subject: 	[APRSSIG:1541] Mission Planning S/W

I know that Trimble has a software package that is used to predict PDOPs,
satellite visibility and such before going out to do a survey.  Does
anyone know of such s/w being in the PD or shareware domain?  I would nice
to know things like satellite geometry and visibility before going out on
a data gathering mission.

--
Randy Hammock KC6HUR      | E-Mail: kc6hur@garc.gsfc.nasa.gov
8951 Tamar Drive, Apt 101 |  Voice: +1-410-964-5503
Columbia, MD 21045        |
```

APRSTrak has the capability to take GPS Sat Keplerian's and show the position of the sat's. Any satellite track program will work; I use STSPlus myself. As for PDOPs I don't have and answer. GPS satellite kep's can be found on the amsat website

---

137. Re: [APRSSIG:1598] Re: APRS WX stuff

From: N5RKN@aol.com
Date: Tue, 4 Jun 1996 14:09:18 -0400
To: aprssig@tapr.org
Message-ID: <960604140917_127628711@emout09.mail.aol.com>
Rendered body type: text/plain

We've had APRS up and running for quite some time at the regional NWS. And,
3 of
their meteorologists are licensed amateurs..with more studying.

What I have not been able to do is to figure out how to tie into WX data
there and be
able to show current WX info via the site. Is there a way and what is
involved? We have
the blessings of NOAA if we can do so.

```
 Robert  N5RKN  Regional coordinator SKYWARN West Texas
                         Regional BBS Sysop
```

138. RE: [APRSSIG:1533] Re: Need Maps for Detroit and Boston

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 4 Jun 1996 13:45:52 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB521C.F9E1B020@ppp-111.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
----------
From: 	Ryan Tucker
Sent: 	Monday, June 03, 1996 8:20 AM
To: 	barrettd@crpl.cedar-rapids.lib.ia.us
Subject: 	Re: [APRSSIG:1533] Re: Need Maps for Detroit and Boston

At 01:44 AM 6/3/96 -0500, you wrote:
>>Content-Transfer-Encoding: base64
>>Content-Disposition: attachment; filename="MI_MAPS.ZIP"
>>
>Thank's Jack I just LOVE file attachments that are Base 64 encoded instead
>of mime or bin hex,
>and it only took 3 minutes to transfer from my maile server to my PC. Just
>enough time to pee.

Base64 is MIME ;-)

You don't know how lucky you are.  It took about 5 seconds here, which
doesn't even give me time to turn the chair so I can head to the bathroom,
much less go pee.  Always look on the bright side of things... :-)  -rt

Gee not only am I'm lucky but I'm also feeling empathy for your plight, though that is canceled out by
my jealousy of your fast connection :-)
```

---

139. Re: [APRSSIG:1594] "Auto Scroll Moving Map"

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 4 Jun 1996 15:49:18 -0500
To: aprssig@tapr.org
Message-ID: <v02130501adda47f3fe75@[199.1.11.111]>
Rendered body type: text/plain

```
>I wonder if I have the "Auto Scroll Moving Map" enabled will it scroll
>onto another map, or will it only work on the selected map?  Is there a
>way to set a range so that if it did scroll onto a new map it would
>retain a particular range?

MacAPRS stays only on same map. You can load a larger map area
(I use the 3 Meg Dallas Maps from the CD-rom) then zoom to the street
level I want and let scroll use that .

I would guess WinAPRS is the same.

Two things to try.

1. MACaprs uses a single key stroke to jump up to the next bigger area
   map. Then you can click to jump down to the correct smaller map.

2. I had to admit to Keith that I had used Macaprs for over one year
   before I remembered I could have more than one map windows open at the
   same time and all showing different maps.

   Try using several map windows open at the same time that cover the route.
   Then close the old one as you leave the area. Have one map open that
   includes the whole path and use the map border function so you will
   know the name of the next map to use.

3. You can save a map to disk with the zoom level and added labels.


The several maps at one time is great to give extra zoom coverage to
a smaller area and still see the big picture.

---------
Auto scroll ideas
  A. Keep my location at center of screen
  B. scroll only when I move off the map
  C. Follow me (and only me) from map to map
---------

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

140. Garmin-20 TAPR order -got it-

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 4 Jun 1996 15:54:36 -0500
To: aprssig@tapr.org
Message-ID: <v02130502adda52135f83@[199.1.11.111]>
Rendered body type: text/plain

```
I just had a UPS man leave the box with the Garmin-20 GPS.
I am only a few miles from the TAPR ship point in Denton TX.
so the rest of the units should be arriving soon.

Gosh ! is that board ever small.

73


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

141. Re: [APRSSIG:1550] Re: APRS WX stuff

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 4 Jun 1996 16:55:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960604163924.13494F-100000@arctic>
Rendered body type: text/plain

```
I give up.  Here is what I have learned so far:

> N0AN reports that the "official" rain reporting standard is:
> 1. For 24 hour period precip is reported at 1200 UTC...no change for
> daylight or standard, so the reporting period fluctuates 6:00 a.m
> winter, 7:00 > a.m. summer (DST) here in Iowa.
> 2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.

APRS users like it on the sliding scale teh way I have done it.

THe NWS at Monterey calif say there are only two reports:
1) one per day (taken every 6 hours) but zeroed every day at 0000 UTC
   called the synoptic measurement
2) One per "proper day" zeroed every night at midnight LOCAL TIME.
*  He knows of NO mechanism for taking readings at 1200 UTC.

In Calif, they take spotter reports based on 1600 LOCAL (0000 z) so that
everyone can dump their rain gages before going home from work.

It appears that In IOWA, they must do it a 6 r 7 am (1200 z) before
everyone goes to work....

It appears that these spotter times match the synoptic 6 hour periods,
but are zeroed more for human convenience (who have to reset the gages)
than for getting in sync with other time zones...

He recommends to use the "proper day" zeroed at midnight local time
for the best local use value.

Although I would prefer to adopt one standard, and remove my sliding
scale, I can go either way, but you SKYWARN guys must determine what
is RIGHT for your area apparently it is a local NWS option????

I suppose I could make it a local OPTION in APRS too...

For N0AN, could you confirm from your NWS source what this 1200 z value is?


de wb4apr@amsat.org
```

---

142. Re: [APRSSIG:1593] Motorola PVT-6 Question

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 4 Jun 1996 15:58:04 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606042058.PAA26398@solar.cs.tamu.edu>
Rendered body type: text/plain

```
There is a "RESET" command in GPS90... hope it will help.

gerry
```

---

143. Re: [APRSSIG:1606] Re: APRS WX stuff

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 4 Jun 1996 17:10:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960604170749.13494J-100000@arctic>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996 N5RKN@aol.com wrote:

> We've had APRS up and running for quite some time at the regional NWS.
> What I have not been able to do is to figure out how to tie into WX data
> there and be able to show current WX info via the site.

APRSdos REPLY COMMENT: If they have WX info available in RS-232 serial
format that is CONSISTENT and applicable in all NWS sites, then I will be
happy to write a parser for it.

What do they want for RAIN per day and per hour from your spotters???
When do they re-zero the raingages?


de wb4apr@amsat.org
```

---

144. Garmin 45 problem?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 4 Jun 1996 18:07:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960604175834.2021A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
I seem to be having a problem with my Garmin 45 that I don't remember
being mentioned here on the sig.

I had suspected it before, but after this past weekend I'm sure.

If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without
POWERING DOWN, THEN POWERING UP.  This, of course, requires operator
attention (to notice the problem) and operator action (to rectify the
problem)

I would say that *most* folks don't have the specific problem that city
dwellers have of driving thru long tunnels, and on the lower 'deck' of a
2 deck bridge (or raised roadway)

I drove from Boston, down to R.I. last weekend with my tracker up and
running. I didn't notice anything wrong (I was paying attention to
driving more than reading my GPS screen) untill late in the afternoon
after I had been parked for hours. There was a notice to check the
message screen. When I did, it told me something to the effect of "Unit
is unuseable. Power down then power up"

When I did that, I waited for 'lock' and it took less than one minute!

Has anyone else noticed this?

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

145. Re: [APRSSIG:1597] Re: APRS Rain Fall Wx Reporting

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 4 Jun 96 18:12:35 -0400
To: <aprssig@tapr.org>
Message-ID: <199606042208.SAA17397@bridge.net>
Rendered body type: text/plain

```
>>The APRS Station at the Hurricane Center was receiving Wx Data from the
>>Keys this past weekend which was reporting rain fall at a level higher
>>than other recording equipment. It might be interesting to see which of
>>the two was accurate or if it
>>was in the way the information was being sent?
>
>
>>73, Seymour, KC4NMY
>
The rainfall was real! It was quite localized, I got almost 4 inches over
3 hours. I'm located 21 miles from the NWS in Key West, which explains
the discrepency. A neighbor's boat almost swamped when his bilge pump
failed.

There is going to be a whole lot more data for the NWS soon. The county
```

```
RACES group is putting up an automated U-2000 every 20 miles or so
throughout the Keys. First one under test now (KQ4AZ-2).

Steve KO4HD
```

146. Re: [APRSSIG:1604] Symbols

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 4 Jun 1996 18:12:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960604181058.2021B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996, Jim Neely wrote:
>
> I was experimenting the other day and used the WX commands.  So far I haven't been able to find the
secret to
> changing back from the WX symbol to something else.
>
> I'm still using 7.5C.  I'm probably overlooking the obvious, but I'd
> appreciate a bit of your wisdom.

--------------------------------------------------------------
That's (another) one of those things about APRS that does not seem to be
anywhere in the docs or help system......

Simple ... you quit and re-start!

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

147. Re: [APRSSIG:1613] Garmin 45 problem?

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 04 Jun 1996 06:39:15 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960604103915.009c1268@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
>If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without
>POWERING DOWN, THEN POWERING UP.  This, of course, requires operator
>attention (to notice the problem) and operator action (to rectify the
>problem)
>

Are you in Power save mode? In this mode the Garmin 45 does not try to
reaquire sats if it loses them. There is something in the docs about that.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

148. Re: [APRSSIG:1606] Re: APRS WX stuff

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 04 Jun 1996 18:30:21 -0400
To: aprssig@tapr.org
Message-ID: <31B4B8FC.6C4C@cyberenet.net>
Rendered body type: text/plain

```
It would be great (I think) if we (APRS users) were able to make this
connection (NWS real-time data => APRS network)with the NWS, and create
a two-way exchange of Wx data to the benefit of both groups.

Some ideas for getting the data, not knowing the hardware setup there
these may or may not apply;

1. If the APRS computer has access to the LAN in the NWS office, then
you should be able to manually go to a server and get a copy of the data
and save it on your local hard drive, where you can then do with it as
you wish.
You of course would need read permission for this drive/dir granted to
your workstation. The data could be dumped to your local drive by the
NWS where APRS could find it either manually or automatically(this would
not require read permissions on the server, only a dir on your local
drive for them to dump data into.

2.  A patch (or .bat file) called up from within APRS could
automatically go and grab acopy at preset intervals and save it locally.
```

Bob(APR) could probably write this into specialized copies to run at NWS sites only, and also delete or include other portions of APRS that have no value to this specialized application of APRS. Maybe Bob would take a second look at tweaking APRSNet for this function.

3. The creation of a new module, an APRS server dameon which could handle modem, ethernet, or packet connects and serve out the Wx data, and having its display limited or user configurable to only those map symbols desired (Wx stations and Wx symbols only), dumping the telemetry screen and having in its place a Wx summary table (a print function would be nice here also!). This dameon could also serve as a the previously discussed internet connection for long distance linking of local nets, moving the data by implementing and sending e-mail in the proper format for the 'net to handle.

4. How about a version for a as yet un-tapped OS (Linux/UNIX), the capabilities would be tremendous (Keith/Mark - will your WInAPRS port over to UNIX without much trouble??). I don't know the answer to this but have read that C and C+ can be ported to Linux (and yes I realize WinAPRS is not written in C or Visual C), can anyone answer this question?

Just my 2 cents worth, if I had the time and coding ability, I would tackle one of these ideas, but till now they have just been what-ifs I have dwelled on from time to time.

========

On another subject, while I am on the soapbox, I would support and like to see the development of a high speed backbone on 900MHz, there is existing equipment used for LAWNs (Local Area Wireless Networks) which operate in the 902-928 band as low-power devices without a license. MAX power out is 1 watt, and a claimed range using omni antennas is 10 miles. What stops us from using these same devices to establish our own net in a band that we already have access to but with slightly higher power output if needed to establish high speed links between WIDEs, the link station could reside at the same site as the 2mtr WIDE, and use yagi or omni antennas to link to other WIDES, the 2mtr uplinks of local stations being ported over to the 900MHz spread-sprectum backbone.
Am I dreaming or what. The only thing better than this would be LEO sats dedicated to APRS.

73..."And keep those batteries charged!"

Bob
http://www.cyebrenet.net/~n2iph/bob.htm

---

149. Re: [APRSSIG:1613] Garmin 45 problem?

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Tue, 4 Jun 1996 18:07:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0uR5CU-0000A2C@ernest.itg.ti.com>
Rendered body type: text/plain

```
> Has anyone else noticed this?
>
> Richard Amirault              N1JDU           Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"
```

It seems it if get overheated, it will shutdown. I had mine do it yesterday;
It was working, but all of the signal levels on all the sats were zero.
I let it cool, powered it off, powered it on, and everything was fine.
It also reacquired very quickly.

```
--
Alan Edmonds, KB5ZUY                         Texas Instruments, Inc.
System Administrator, Composer Development   M/S 8515
Phone: +1-214-575-6427                       6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                   Plano, TX, USA  75023
```

---

150. [APRSSIG:1194] Re aprs with old tandy laptop?

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Tue, 04 Jun 1996 19:16:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I5ISOB49B68Y6Q7G@delphi.com>
Rendered body type: text/plain

On 23-MAY-1996 14:37:01.7 aprssig said to JKHAM
   >I never can remember how to set this up, but there is something about an

   >"append" command to allow you to see both floppy drives.
   >Bob usually does pretty well on answering this question.
   >Or: Lynn Holcombe, don't you know the answer too?

Bob I would like to know this also. I have a friend who has an old, nah ancient 8088 with 2 360k 5.25 drives that he wants to run aprsmin on. I got the program to load but can't see any other stations including my own which is about 3 miles away. The computer talks to the tnc ok. I can do o-c-t and connect to a local bbs. I would like to load from drive A: and use maps on drive B:.

John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@IX.NETCOM.COM>

---

151. Garmin GPS-31 and Plots Screen

From: mark.endicott@nashville.com
Date: Tue, 4 Jun 96 18:26:06
To: aprssig@tapr.org
Message-ID: <199606042342.SAA24142@tapr.org>
Rendered body type: text/plain

I have just received a new Garmin GPS-31 TracPak all in one receiver and antenna, but no display. It is about the size of a mouse and has some nice features. Two serial output lines, most all of the common NEMA strings, low power consumption and a 999 Knot limit. This brings up a little problem though. Now when I am streaking down the highway at 70 mph it only shows me at 60. Does anyone know of a undocumented command to change it to mph? I am currently installing the nitrous kit on the Jeep to see if i can crack the speed limit of the 31. If you see a red streak but don't hear anything go by, it's just me. Boom to follow.

I should also report to Bob (APR) that the GPS PLOTS works great with the 31 and is real handy, thanks. Would it be possible to convert Knots to MPH (as a set up option) within APRS? And then show speed, Lat-Lon, and a compass heading in a box on the PLOTS screen?

```
    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

---

152. Re: [APRSSIG:1613] Garmin 45 problem?

From: ttyamada@CCGATE.HAC.COM
Date: Tue, 04 Jun 96 16:53:52 PST
To: aprssig@tapr.org
Message-ID: <9605048339.AA833932457@CCGATE.HAC.COM>
Rendered body type: text/plain

Perhaps it has something to do with the version of firmware you have?? I when I have lost lock,(on my gps-45) the gps beeps and gives me a message something like 'poor gps coverage'. When I get back in the open, it regains lock and keeps going.

Ted (KJ6ZJ)

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:1613] Garmin 45 problem?
Author: aprssig@tapr.org at CCGATE
Date: 6/4/96 3:57 PM

I seem to be having a problem with my Garmin 45 that I don't remember being mentioned here on the sig.

I had suspected it before, but after this past weekend I'm sure.

If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without

POWERING DOWN, THEN POWERING UP. This, of course, requires operator attention (to notice the problem) and operator action (to rectify the problem)

I would say that *most* folks don't have the specific problem that city dwellers have of driving thru long tunnels, and on the lower 'deck' of a 2 deck bridge (or raised roadway)

I drove from Boston, down to R.I. last weekend with my tracker up and running. I didn't notice anything wrong (I was paying attention to driving more than reading my GPS screen) untill late in the afternoon after I had been parked for hours. There was a notice to check the message screen. When I did, it told me something to the effect of "Unit is unuseable. Power down then power up"

When I did that, I waited for 'lock' and it took less than one minute!

Has anyone else noticed this?

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

153. GE Radios and retuning

From: gphowell@interramp.com
Date: Mon, 03 Jun 96 21:57:03
To: aprssig@tapr.org
Message-ID: <199606050004.UAA19340@smtp1.interramp.com>
Rendered body type: text/plain

Ralph's comments about GE Custom MVP's and the like absolutely correct ... with one or two caveats. With the Custom and its brothers, the Exec II and Master II, either highband (2 meter) split can generally be made to come down (or up in the case of the low split version) to the ham band. Low split radios tend to be rare, as they were mostly export.

With the UHF radios, you must get a mid split -- i.e. 450 to 470 front end -- to have any hope of making them work. Make sure whoever you get these gems from will either take them back if wrong or can show you that they are the correct split. If not, you can pitch them, 'cause the 470 and up front ends won't make it to 440, and neither will the 406 to 420.

All three types could be supplied with a 10 dB preamp which was mounted in the front end and plugs in to the front end RCA jack. Sometimes these cause more problems than they solve, as the devices tend to have problems with intermod in high RF areas. They were meant for mobiles not stations.

Century II radios will generally tune -- they were pretty broad banded.

Custom and the like used channel elements for transmit and receive -- same thing for Custom and Exec, but Master II needs a different animal that GE calls an ICOM -- Integrated Circuit Oscillator Module. More stable device than the other style. Also, MII used two different types of exciter -- a phase modulated one and a true FM type, which are not common. I don't believe the former lends itself to 9600 very well. All the custom and Exec II radios were phase modulated. Make sure that you get half a dozen or so elements so you can be sure of having two that will work.

Century II uses plug in 3rd overtone type crystals in the 45 meg range. The others use solder in HC-12 types ranging from 12 Mhz range for TX to 16/18 Mhz range for RX. IF's on these radios were generally 11.2 Mhz for all bands.

Our club has been using an Exec II as a digipeater for a number of years, with good results, and I use a Custom for 145.01 on my BBS.

Hope this information is helpful.

Geep WA4RTS

---

154. df Jr. and Agrello Engineering

From: gphowell@interramp.com
Date: Tue, 04 Jun 96 20:16:16
To: aprssig@tapr.org
Message-ID: <199606050022.UAA19945@smtp1.interramp.com>
Rendered body type: text/plain

There have been lots of comments flying around the sig about Joe Agrello's df Jr. Here's my two cents worth.

I ordered the system COD, knowing that the wait would be a while. It was waiting for me when I got back from Dayton (got to meet Joe and Eric Larson, the sales manager for Agrello Engineering while at the hamfest, a bonus)

I put the antenna unit together, and tried it out. It did not work correctly. After poking around a little bit, I determined that one of the coax lines was shorted, and fixed it. Sent Joe a note about the problem. He immediately offered to replace the entire antenna box.

I tried it again, and still didn't work, determined that one of the active devices in the box was bad, probably from running with the shorted line. I let Joe and Eric know about the problem, and even though I know they were working furiously to get out the upgraded antenna kits -- all that shipped before May 22 got a mod to improve reflection rejection -- I got my new antenna box in a very reasonable time.

Installed it today, and all appears to be working just fine. Thought I haven't had time to check it out thoroughly, things seem to be doing what they should, and for once, the advertising seems to follow the product. Refreshing.

It is nice to deal with a company that responds quickly to customer problems. Agrello Engineering gets an "A" both for a good product as well as excellent service. Thanks guys

Geep WA4RTS

--
----
gphowell@interramp.com
----

155. Re: Garmin GPS-31 and Plots Screen

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 04 Jun 1996 20:40:45 -0400
To: aprssig@tapr.org
Cc: mark.endicott@nashville.com
Message-ID: <2.2.32.19960605004045.006abd5c@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 06:49 PM 04-06-96 -0500, mark.endicott@nashville.com wrote:

> I have just received a new Garmin GPS-31 TracPak all in one
> receiver and antenna, but no display. It is about the size
> of a mouse and has some nice features. Two serial output
> lines, most all of the common NEMA strings, low power
> consumption and a 999 Knot limit. This brings up a little
> problem though. Now when I am streaking down the highway at
> 70 mph it only shows me at 60.

Just get used to thinking in knots. It helps if you can convince the policeman to do the same :-)

Couple of questions about the 31 now that we have a bona fide user:

How does the power management work: does it need its own power supply or is it miserly enough to run off the computer's serial port? I assume if PACCOM can run a GPS from the TNC's power supply that the 31 might be similar.

Can it take waypoints and output the waypoint navigation features of other GPS's?

Does it have the same engine as the 45?

Do you like it, with all the vast experience you've had? Sounds like it's the cat's meow as a tracker or with a computer interface.

Bob Kirk
N3OZB

156. Re: [APRSSIG:1599] Re: HELP

From: "Doug Campbell" <dgc@host.renc.igs.net>
Date: Tue, 4 Jun 1996 20:51:10 +0000
To: aprssig@tapr.org
Message-ID: <199606050050.UAA20484@host.renc.igs.net>

Rendered body type: text/plain

```
> Date:          Tue, 4 Jun 1996 08:34:53 -0500 (CDT)
> Reply-to:      aprssig@tapr.org
> From:          rsellers@misha.net (Roger Sellers)
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:1599] Re: HELP

> >Hello
> >I wonder if anyone could help me . I have tried to install and run
> >APRS in my computer and all I get is APRS in large letters and a
> >bunch of gibberish , Then the computer starts beeping and locks up .
> >I am using a NEC 7022 (pentium 75) with windows95 as the OS.
> >I have installed the same zipped programs at work on the 486 66 and
> >it works just fine . I also waited until I received the CD from TAPR
> >to see if that program would work but I had the same results . I have
> >tried all the versions of the program I could get my hands on without
> >any joy .  This is the first program that I have had this problem on
> >so I have to wonder what it is .
> >Thanks in advance  Doug Campbell VE3DGC
> >
>   You didn't mention whether you were working with the DOS or Windows
> version of APRS software. On my Desktop Pentium, for some reason I'm having
> a similar problem with the DOS version. I've all but entirely given up
> running DOS APRS on my pentium. I have no logic or explaination for it. Mine
> locks the entire PC at the point the screen says INITIALIZING TNC. The only
> way to recover is shut the PC off.
>   But I have no problem with the Windows version on my Pentium. Both
> versions run fine on both laptops (a 286 and 486 model).
>
> 73,
>
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@misha.net
> E-Mail Work: rsellers@snds.com
>
> Thanks for the reply Roger
It seems all the versions I have tried are DOS . I tried the winaprs
on the TAPR CD but it tells me the beta test time is up June 1st ,
then stops . Do you know where I could buy a registered version of
winaprs  ?
73 Doug Campbell
Amateur Radio VE3DGC@VA3KS.#EON.ON.CAN.NOAM
Email dgc@renc.igs.net
```

---

157. Re: [APRSSIG:1613] Garmin 45 problem?

From: mark@y100.com
Date: Tue, 4 Jun 1996 21:44:37 -0400
To: aprssig@tapr.org
Message-ID: <199606050144.VAA16200@mail.voicenet.com>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996, Richard Amirault <amirault@laraby.tiac.net> wrote:
>I seem to be having a problem with my Garmin 45 that I don't remember
>being mentioned here on the sig.

>If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without
>POWERING DOWN, THEN POWERING UP.  This, of course, requires operator
>attention (to notice the problem) and operator action (to rectify the
>problem)
>

I've had the same problem -- mine has lost lock when all visible birds should be
in the clear, for instance, while driving the Interstate in Iowa last month with
nothing around but cornfields.  (I'm also using the Trimble patch antenna)  The
unit works fine for hours, then for no apparent reason, shows "Poor GPS
Coverage" and must be "rebooted".

Will try defeating the "power saver" mode, as suggested by KB2TGH, and I'll let
you know if this makes a difference.  I normally use an external 12 V supply --
it would be nice if Garmin modified the design to automatically shut off the
"power saver" when external power is present.

73,

Mark N2CHV
```

---

158. GPS Display, Comments

From: bob <w2g3zfj@unix.asb.com>
Date: Tue, 4 Jun 1996 22:23:13 -0400
To: aprssig@tapr.org
Message-ID: <199606050223.WAA06333@unix.asb.com>
Rendered body type: text/plain

```
Hi Folks

About a week ago there was a note from kd6pbh regarding a kit to display
lat/long etc from your gps board. I was in the middle of developing one
myself at the time but since I saw J's message I took the lazy way out and
ordered one. Just to let everyone know it works very well, excellent service
from J, takes about 30 mins to build, worked first time. The kit consists of
a small pcb with a 20pin 68hc705j1 micro and a backlit 16 character x 2 line
lcd.

Well done J!

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/

PS J's EMail address is j@harper.com
```

---

159. Re: [APRSSIG:1615] Re: Symbols

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 4 Jun 1996 20:59:02 -0500
To: aprssig@tapr.org
Message-ID: <199606050159.UAA24240@tbc2.tbcnet.com>
Rendered body type: text/plain

```
Hook your position you want to change.
Hit "I".
Hit "My Position"
Enter Lat
Enter Long
Hit "Buildings"
Hit "my Qth"
Enter
Enter
Enter
Enter
"Y" for yes
Spacebar to redraw map.

And your wx station is changed to a QTH, and will stay that way...unless you
have a WX station sending reports out as determined by the value in Alt-S,
Pos Rate.

To change your symbol, just get the cursor over yr position, and re-insert
another symbol.

See /readme/help.txt
"INPUTS MENU:  Lets you ADD objects to the map, or input data on your station."

about halfway down in the document.

73

jbl



At 17:30 6/4/96 -0500, you wrote:
>On Tue, 4 Jun 1996, Jim Neely wrote:
>>
>> I was experimenting the other day and used the WX commands.  So far I
haven't been able to find the secret to
>> changing back from the WX symbol to something else.
>>
>> I'm still using 7.5C.  I'm probably overlooking the obvious, but I'd
>> appreciate a bit of your wisdom.
>
>---------------------------------------------------------------
>That's (another) one of those things about APRS that does not seem to be
>anywhere in the docs or help system......
>
>Simple ... you quit and re-start!
>
>Richard Amirault              N1JDU            Boston, Massachusetts USA
```

```
>amirault@tiac.net        "Go Fly A Kite"
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

---

160. Re: [APRSSIG:1621] Re: Garmin 45 problem?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 4 Jun 1996 22:24:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960604221137.5411A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996 ttyamada@CCGATE.HAC.COM wrote:

>      Perhaps it has something to do with the version of firmware you have??
>      I when I have lost lock,(on my gps-45) the gps beeps and gives me a
>      message something like 'poor gps coverage'. When I get back in the
>      open, it regains lock and keeps going.
>

I just checked my unit:

Version 2.43
Normal Mode (NOT battery saver)

I forget to mention something else I noticed that day.

While my sig lines say "Boston" I actually live in a suburb about 10
miles north. Going home from R.I. I had to travel thru the *center* of
the city. Since I had noticed this "problem" in R.I. I was more attentive
to the GPS screen on the trip home, particularly the singnal strength screen.

I had reasonable sat coverage all the way from R.I. with coverage
ragnging from 4 to 7 sats. But when I approached downtown Boston I
noticed that both the number of sats and the signal strength got less and
less until I was down to *zip* (still "outside", not under any
obstructions, bridges, tunnels, etc)

Since Boston (like many/most metropolitan areas) is awash with RF, I'm
tempted to think that this is some sort of intermod, or overload situation.
Once past the downtown area, I powered down, then up and re-aquired lock.

GPS was powerd by external 12v 15 amp hr gel cell
antenna was the QST "patch" antenna on the front dashboard

Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

161. Re: [APRSSIG:1625] Re: HELP

From: Roger Sellers <rsellers@misha.net>
Date: Tue, 04 Jun 1996 23:31:31 -0500
To: aprssig@tapr.org
Message-ID: <31B50DA3.7E53@misha.net>
Rendered body type: text/plain

```
Doug Campbell wrote:
>
> > Date:          Tue, 4 Jun 1996 08:34:53 -0500 (CDT)
> > Reply-to:      aprssig@tapr.org
> > From:          rsellers@misha.net (Roger Sellers)
> > To:            aprssig@tapr.org
> > Subject:       [APRSSIG:1599] Re: HELP
>
> > >Hello
> > >I wonder if anyone could help me . I have tried to install and run
> > >APRS in my computer and all I get is APRS in large letters and a
> > >bunch of gibberish , Then the computer starts beeping and locks up .
> > >I am using a NEC 7022 (pentium 75) with windows95 as the OS.
> > >I have installed the same zipped programs at work on the 486 66 and
> > >it works just fine . I also waited until I received the CD from TAPR
> > >to see if that program would work but I had the same results . I have
> > >tried all the versions of the program I could get my hands on without
> > >any joy .  This is the first program that I have had this problem on
> > >so I have to wonder what it is .
> > >Thanks in advance  Doug Campbell VE3DGC
> > >
> >   You didn't mention whether you were working with the DOS or Windows
> > version of APRS software. On my Desktop Pentium, for some reason I'm having
> > a similar problem with the DOS version. I've all but entirely given up
> > running DOS APRS on my pentium. I have no logic or explaination for it. Mine
> > locks the entire PC at the point the screen says INITIALIZING TNC. The only
> > way to recover is shut the PC off.
> >   But I have no problem with the Windows version on my Pentium. Both
> > versions run fine on both laptops (a 286 and 486 model).
> >
> > 73,
> >
> > Roger Sellers
> > Amateur Radio: KB9LBU
> > E-Mail Home: rsellers@misha.net
> > E-Mail Work: rsellers@snds.com
> >
> > Thanks for the reply Roger
> It seems all the versions I have tried are DOS . I tried the winaprs
> on the TAPR CD but it tells me the beta test time is up June 1st ,
> then stops . Do you know where I could buy a registered version of
> winaprs  ?
> 73 Doug Campbell

If you check the documentation for WinAPRS you should find the address
to register it or Contact the Sproul Brothers here. In a just previous
message I got Mark Sproul's e-mail address. Contact him for registering
a copy.

Contact Mark via e-mailat:    dgc@renc.igs.net
or his homepage is :http://msproul.rutgers.edu/

Hope this helps, 73,

Roger Sellers
rsellers@misha.net
```

---

162. Re: [APRSSIG:1620] Garmin GPS-31 and Plots Screen

From: Carl Taylor <carlt@icanect.net>
Date: Wed, 5 Jun 1996 08:30:17 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606051230.IAA16324@foo.icanect.net>
Rendered body type: text/plain

```
At 06:48 PM 6/4/96 -0500, mark.endicott@nashville.com wrote:
>          I have just received a new Garmin GPS-31 TracPak all in one
>          receiver and antenna, but no display.  It is about the size
>          of a mouse and has some nice features.  Two serial output
>          lines, most all of the common NEMA strings, low power
>          consumption and a 999 Knot limit.  This brings up a little
>          problem though.  Now when I am streaking down the highway at
>          70 mph it only shows me at 60.  Does anyone know of a
>          undocumented command to change it to mph?  I am currently
>          installing the nitrous kit on the Jeep to see if i can crack
>          the speed limit of the 31.  If you see a red streak but
>          don't hear anything go by, it's just me.  Boom to follow.
>
>          I should also report to Bob (APR) that the GPS PLOTS works
>          great with the 31 and is real handy, thanks.  Would it be
>          possible to convert Knots to MPH (as a set up option) within
>          APRS? And then show speed, Lat-Lon, and a compass heading in
>          a box on the PLOTS screen?
>
>
>
>    If Found, Please Return To:
>   ____________________________
>  |                              \
>  |         Mark Endicott          \
>  |        P.O. Box 148242           \
>  |   Nashville, Tennessee 37214      >
>  |             WB0NOO              /
>  |  mark.endicott@nashville.com   /
>  |______________________________/
>
>you are in knots insted of statute miles per hour....!
carl

>
```

```
Johann O Jokulsson     |  http://www.iti.is
System Administrator |
Technological Institute of Iceland      tel: +354 - 587 - 7000
Keldnaholti, IS-112 Reykjavik   fax: +354 - 587 -  7409
```

163. Re: [APRSSIG:1613] Garmin 45 problem?

From: Dennis Mobley <dmobley@encore.com>
Date: Wed, 05 Jun 1996 08:36:50 -0400
To: aprssig@tapr.org
Message-ID: <31B57F62.41C6@encore.com>
Rendered body type: text/plain

```
Richard Amirault wrote:
>
> I seem to be having a problem with my Garmin 45 that I don't remember
> being mentioned here on the sig.
>
> I had suspected it before, but after this past weekend I'm sure.
>
> If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without
> POWERING DOWN, THEN POWERING UP.
> Has anyone else noticed this?
>
<<SNIP>>
> Richard Amirault              N1JDU            Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"

Yep, mine has done the same thing out on the Atlantic Ocean.
This "feature" does not happen often, and the only warning
is the beep beep "poor coverage" message.
Power cycle the beast and all is well.

Anyone have a casue and/or solution to this problem?
--
Dennis H Mobley                         Encore Computer Corporation
Principal Application Specialist        6901 W Sunrise Blvd (MS 708)
Real Time Technical Support             Fl. Lauderdale, Fl. 33313-4499
dmobley@encore.com Email                954.797.5771   Office/Vmail
www.encore.com                          954.797.5410   Fax
```

164. MacAPRS 2.5.x

From: stanzepa@usa.nai.net (stan horzepa)
Date: Wed, 5 Jun 1996 08:39:27 -0400
To: aprssig@tapr.org
Message-ID: <v01530500addb300d3bd7@[206.98.48.203]>
Rendered body type: text/plain

```
Anybody know where to get a copy of MacAPRS 2.5.x? T'was released at
Dayton, but has yet to show up at the TAPR or Rutgers APRS ftp sites yet.

Thank you for your help.

Stan, WA1LOU
```

165. Re: [APRSSIG:1629] Re: Garmin 45 problem?

From: schiers@ames.net
Date: Wed, 05 Jun 96 07:48:54 -0600
To: aprssig@tapr.org
Message-ID: <199606051249.HAA25449@tapr.org>
Rendered body type: text/plain

```
Could someone explain to me the "real" difference between battery saver
mode and normal mode in the Garmin 45? The manual is very vague about it.
73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

166. Re: [APRSSIG:1610] Re: APRS WX stuff

From: schiers@ames.net
Date: Wed, 05 Jun 96 07:56:00 -0600
To: aprssig@tapr.org
Message-ID: <199606051256.HAA25585@tapr.org>
Rendered body type: text/plain

In <703458@bbs.ames.net>, on 06/04/96 at 06:06 PM,
   aprssig@tapr.org said:

>I give up. Here is what I have learned so far:

>> N0AN reports that the "official" rain reporting standard is:
>> 1. For 24 hour period precip is reported at 1200 UTC...no change for
>> daylight or standard, so the reporting period fluctuates 6:00 a.m
>> winter, 7:00 > a.m. summer (DST) here in Iowa.
>> 2. For 60 minutes, it is ON THE HOUR.....no sliding. Hope this helps.

>APRS users like it on the sliding scale teh way I have done it.

>THe NWS at Monterey calif say there are only two reports:
>1) one per day (taken every 6 hours) but zeroed every day at 0000 UTC
>   called the synoptic measurement
>2) One per "proper day" zeroed every night at midnight LOCAL TIME. * He
>knows of NO mechanism for taking readings at 1200 UTC.

>In Calif, they take spotter reports based on 1600 LOCAL (0000 z) so that
>everyone can dump their rain gages before going home from work.

>It appears that In IOWA, they must do it a 6 r 7 am (1200 z) before
>everyone goes to work....

>It appears that these spotter times match the synoptic 6 hour periods,
>but are zeroed more for human convenience (who have to reset the gages)
>than for getting in sync with other time zones...

>He recommends to use the "proper day" zeroed at midnight local time for
>the best local use value.

>Although I would prefer to adopt one standard, and remove my sliding
>scale, I can go either way, but you SKYWARN guys must determine what is
>RIGHT for your area apparently it is a local NWS option????

>I suppose I could make it a local OPTION in APRS too...

>For N0AN, could you confirm from your NWS source what this 1200 z value
>is?

Bob, I am meeting with them tomorrow afternoon and will take this message,
printed out with me and ask them to resolve this ....if it is resolvable!
Thanks for the info. 73,

hasan schiers, N0AN--
----
schiers@ames.net
----

167. Re: [APRSSIG:1613] Garmin 45 problem?

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 05 Jun 1996 08:00:06 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960605130006.007214ec@144.188.134.33>
Rendered body type: text/plain

Yes I have noticed this, and have talked to Garmin about it. It was present
on my original Garmin 45 with a s/w version I don't remember, and it is
present to a somewhat lesser degree on my replacement 45 with a s/w version
I could look up it you wish. Garmin claims it is the unit going into the
long 7 minute search the entire sky mode (there is a proper term for that).
But I find that it will lock in 7 minutes sometimes, and sometimes never
lock. I will say this, I have had it side by side with a Magellan. They both
will loose lock under the tree or too close to the building, but the
Magellan will re-aquire lock MUCH faster than the Garmin. Frankly, I think
it is either a bug in Garmin s/w, or just poor design of the s/w. The fellow
at Garmin did admit one thing to me, and that is that on the 45 they are
flat out of memory for increased code.

My solution, use a good antenna and don't loose lock. If you find a better
solution, please let us know!

At 05:08 PM 6/4/96 -0500, you wrote:
>I seem to be having a problem with my Garmin 45 that I don't remember
>being mentioned here on the sig.
>

```
>I had suspected it before, but after this past weekend I'm sure.
>
>If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without
>POWERING DOWN, THEN POWERING UP.  This, of course, requires operator
>attention (to notice the problem) and operator action (to rectify the
>problem)
>
lock' and it took less than one minute!
>
>Has anyone else noticed this?
>
>Richard Amirault              N1JDU           Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>
>
>
Paul, WD9ABE
```

168. Re: [APRSSIG:1626] Re: Garmin 45 problem?

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Wed, 5 Jun 1996 09:20:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.93.960605091712.2982A-100000@garc.gsfc.nasa.gov>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996 mark@y100.com wrote:

> Will try defeating the "power saver" mode, as suggested by KB2TGH, and I'll let
> you know if this makes a difference.  I normally use an external 12 V supply --
> it would be nice if Garmin modified the design to automatically shut off the
> "power saver" when external power is present.

The Garmin 45 still looks at the battery level even when external power is
supplied and will shut down if the batteries are weak.  This may only be
true for some versions of the 45.

--
Randy Hammock KC6HUR      | E-Mail: kc6hur@garc.gsfc.nasa.gov
8951 Tamar Drive, Apt 101 |  Voice: +1-410-964-5503
Columbia, MD 21045        |
```

169. Re: [APRSSIG:1625] Re: HELP

From: Mark Sproul <sproul@ap.org>
Date: Wed, 5 Jun 1996 09:43:17 -0400
To: aprssig@tapr.org
Message-ID: <v03006f04addb3f5df43f@[165.1.27.20]>
Rendered body type: text/plain

```
>It seems all the versions I have tried are DOS . I tried the winaprs
>on the TAPR CD but it tells me the beta test time is up June 1st ,
>then stops . Do you know where I could buy a registered version of
>winaprs  ?
>73 Doug Campbell
>Amateur Radio VE3DGC@VA3KS.#EON.ON.CAN.NOAM
>Email dgc@renc.igs.net



Its on TAPR and on aprs.rutgers.edu

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

170. Re: [APRSSIG:1637] Re: Garmin 45 problem?

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 04 Jun 1996 22:27:40 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960605022740.00738d74@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 08:30 AM 6/5/96 -0500, you wrote:

>
```

```
>The Garmin 45 still looks at the battery level even when external power is
>supplied and will shut down if the batteries are weak.  This may only be
>true for some versions of the 45.
>
Not any more, at least for mine, ver 2-43. Works without batteries (before
you ask: with external power supply,:-).

Just out of curiosity, was the original problematic unit (N1JDU I think) in
battery save mode?

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

171. Re: [APRSSIG:1637] Re: Garmin 45 problem?

From: W2HOB@aol.com
Date: Wed, 5 Jun 1996 11:04:54 -0400
To: aprssig@tapr.org
Message-ID: <960605110451_549808523@emout13.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-05 10:00:06 EDT,KC6HUN wrote:

>The Garmin 45 still looks at the battery level even when external power is
>supplied and will shut down if the batteries are weak.  This may only be
>true for some versions of the 45.


This is not true with my Garmin GPS-45 Version 2.32.
When using external power, it never shuts down.
Hope this helps.
73 de Boyd w2hob@aol.com
```

172. Re: [APRSSIG:1615] Re: Symbols

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 5 Jun 1996 11:52:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960605115059.29939A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996, Richard Amirault wrote:

> > I was experimenting the other day and used the WX commands.  So far I
> > haven't found how to change back from the WX symbol to something else.

> --------------------------------------------------------------
> That's (another) one of those things about APRS that does not seem to be
> anywhere in the docs or help system......

APRSdos REPLY COMMENT:  Use the INPUT-MY comand.  THe command you ALWAYS
USE to change anything about your station posit...

de wb4apr@amsat.org
```

173. Re: [APRSSIG:1640] Re: Garmin 45 problem?

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 05 Jun 1996 12:12:04 -0700
To: aprssig@tapr.org
Message-ID: <31B5DC04.215A@concentric.net>
Rendered body type: text/plain

```
W2HOB@aol.com wrote:
>
> In a message dated 96-06-05 10:00:06 EDT,KC6HUN wrote:
>
> >The Garmin 45 still looks at the battery level even when external power is
> >supplied and will shut down if the batteries are weak.  This may only be
> >true for some versions of the 45.
>
> This is not true with my Garmin GPS-45 Version 2.32.
> When using external power, it never shuts down.
> Hope this helps.
> 73 de Boyd w2hob@aol.com

Ditto!
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

174. Re: [APRSSIG:1623] df Jr. and Agrello Engineering

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Wed, 5 Jun 96 09:12:27 PDT
To: aprssig@tapr.org
Message-ID: <9606051612.AA29792@eng.adaptec.com>
Rendered body type: text/plain

Well, I believe that I am the cause of all the RS232 questions... so I'm going to relate my ENTIRE experience getting the DFjr to work and let you all judge for yourself.

I ordered the unit on the first day they were taking orders and received it about a week after it's original promise date...all things considered, that ain't bad for a new product.

Construction of the unit was fairly straight-forward even though the manual is "terse." The manual did an adequate job of explaining what had to go to where. My only real criticism is that the drawings that illustrate this were at the very back of the manual and I didn't know that till after I was already done. (A mention of the drawings in the text would be a "good thing." ;-)

The "addenda" had been published about two days BEFORE I received my unit...and I knew the shipping date, so I knew I had to make some mods. I did try the unit without the antenna mods, and got the results I expected...they need the mod! Being the impatient type, I canibalized another mag-mount doppler system I had, and used the magnets on the DFjr system.

I took the unit out for a test spin and it worked fairly well on strong signals...(repeaters being the only thing I really could find in abundance at 8pm..) This isn't to say that the unit doesn't work with weak signals...I just haven't had a chance to use it that way yet.

Saturday rolled around and there was a special event happening that evening. A friend of mine was hosting his last hunt as the "fox-master" and I had a special invite to attend. I wanted all the tricks up my sleeve possible so a couple buddies and I started working on the APRS mods(a good use of my newly arrived Garmin 45..) We dutifully reversed one of the modular connectors on the RS232 cable, and removed the solder jump as described in the addenda.

We plugged everything together and took it out...no joy. So, back to the barn. I pulled my scope out to the car and started looking at the RS232 interface. The documentation has a pin-out of the RS232 modular jack. I saw transitions of 0-5V coming on pin 4 of the modular jack. We plugged the the computer in, and these serial data transitions went away. I looked at the data coming out of the computers' serial port and saw 24V transitions like I'd expect on it's transmit line. The computer saw nothing from the DFjr? After trying different combinations for about an hour I disappointedly put everything away and started concentrating on getting ready for the hunt. Needless to say, I was a bit hot under the collar about the whole situation.

Someone posted a request for info on the DFjr that I replied too on Sunday morning....thus causing the whole string of posts about whether the DFjr has true RS232 or not. I saw all this stuff when I came into work on Monday morning. I took the DFjr to the lab here at work and popped the lid. Sure enough, contrary to what I expected, there was a Max232 there...this chip generates real RS232 levels off of a single 5V supply(I've used em myself previously.) At this point it seemed that my unit probably had a defective Max232 circuit. I dropped another note the the gentleman I had originally replied too updating him on the fact that there really WAS a true RS232 chip in the DFjr, and that something was apparently wrong with my single unit.

Coincidently, I got a call Monday morning from Agrelo Engineering asking about how they should ship me the antenna update. They had tried to reach me Friday, and hadn't suceeded. We got that business straightened out and I took this opportunity to finally make them aware of the problems I was having. I spoke to Joe directly. We agreed that there probably was a cap in backwards or some such, the Joe was distressed that their testing procedures hadn't caught them...he described these to me in detail, and the procedures SHOULD have caught the problem...they literally plug the unit into a PC and see it send data on the test bench. He also immediately offered to ship me a new control unit! I'm stubborn and wanted to track the culprit down myself...so at lunch time I went home and popped the lid again. I took an ohm meter to each of the caps around the Max232 to determine how they were wired up...and all of the polarities looked right? Next I put power to the unit, and fed an audio signal at it's scan rate into the unit. This should cause RS232 signals...sure enough, there were true RS232 levels now at the unit's RS232 connector. Humm.. at this point my best guess was some sort of cold solder joint. I reheated all of the caps and closed the unit up. I hooked the adapter T back up and plugged in a computer...I still didn't see anything coming out on the computer? Well, there must also be some sort of problem in the cabling or someplace else still. Lunch time was over and I had to get back to work. I dropped another line to Joe telling what I'd found so far and went back to work.

(At this point I was also feeling ALOT chagrined cause I hadn't seen my infamous 5V signal anyplace on the unit. I really didn't like the "cold solder joint" theory much...)

That evening after dinner, I went out to my bench at home and attacked the problem again. I plugged everything together and started looking at the adapter with my scope. The first thing I saw was my 5V ghost signal right on pin 4 of the adapters' modular connector. I went back over to the DFjr and looked at pin 4 there and there was a strong 24V transition? I looked at the pin-out again...pin 3 was a N/C? Humm...well, it turns out that the RS232 cable that was shipped DIDN'T need to be swapped per the addenda! What I was seeing was 5V worth of mutual inductance! When you have a 24V AC signal and another un-terminated line next too it for several feet in the cable...you can see things like that...thus the cause for my wild goose chase. Moral of the story...don't RTFM ;-)

I put the cable back to it's original condition, i.e. un-swapped and everything is working just fine.

There are a couple things I want to say in this post besides the above story. Saturday I was pretty hot under the collar. Sunday wasn't alot better, and the post I sent to the other gentleman complained about paying alot of money for gear that didn't meet spec. That was untrue, though I wasn't aware of it at the time. Agrelo engineering hadn't been given a chance to correct the problem either, it was the weekend. Agrelo engineering did everything reasonable, and then some, to try and take care of my complaints once they were aware of them.

Those are the fact...you guys can judge for yourselves.

73 de Steve KA6S

---

175. test msg

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 05 Jun 96 13:28:57 -0700
To: aprssig@tapr.org
Message-ID: <199606051732.MAA06153@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

this is a test msg. I havn't got all this poop figured yet!

---

176. Garmin 45 BatterySave mode

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 5 Jun 1996 14:33:31 -0500
To: aprssig@tapr.org
Message-ID: <v02130500addb9090729b@[199.1.11.111]>
Rendered body type: text/plain

>Could someone explain to me the "real" difference between battery saver
>mode and normal mode in the Garmin 45? The manual is very vague about it.

```
>From the Garmin45 FAQ
---------------------------------
-How does BatterySave mode work?

According to Garmin's Tech Support Department- These are a couple of  the
things the saver does:
1. Stops the unit from trying to re-lock if it loses the birds.
2. Cycles the receiver off and on periodically if you are motionless. (update
   time)
Ralph Fowler (rwf@mindspring.com)

However, most people feel that the BatterySave mode offers only a modest
battery life improvement in general use.  If you have a strong signal, it
probably does not hurt to leave it in Battery Saver mode.  If you
change modes, then the unit loses all satellites and must reacquire them
(although it happens quickly).  Also, as is mentioned in the manual, when you
have trouble getting the receiver to lock on the satellites, if you turn the
unit off and then on again it often performs better.
[Lane A. Holdcroft]

The RF circuitry draws considerable power.  In normal mode it is on
continuously.  In battery saver mode, after a lock is established and
the necessary data downloaded from the required number of satellites,
the RF circuitry is turned off for short periods, then back on.  If the
user's velocity vector is constant during the off period, then when it
comes back on, the satellite signals will be right where the receiver
expects them to be (in time).  When the receiver verifies that, it can
go back to sleep again for another short period, saving the batteries.
If the signals are not where expected, if the velocity change is small,
the receiver can quickly find them by searching either side of the
expected time delay.  Obviously no change in velocity can be detected
while the RF circuitry is off.
|
The conclusion is:  If you are going at a nearly steady velocity under
a clear sky, use battery saver mode.  If you are under trees with
marginal signals, or want the fastest possible response to velocity and
direction change, use normal mode.
|
Larry James (lwjames@csn.net)
|

Here is another person's explanation:

The battery saver mode cycles the receiver portion of the GPS on for one
second and off for two (then repeats) to conserve power.  The CPU portion of
the GPS is on continuously and interpolates speed/position during the off
cycle.  If the GPS has a hard time keeping up with speed/heading changes
(i.e. a "high dynamics" situation) then Battery Save will automatically be
overriden in favor of Normal mode operation.  It will revert back to Battery
Save operation (again automatically) once speed/heading readings stabilize.

Battery Save mode will not affect the units ability to lock onto satellites
or its ability to re-lock if it loses satellites.

-----------------------------------------------------------
I always use normal mode and have not seem these problems,
but have seen high RF turn on the Garmin-45 when I had it off.
-Bob-


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

177. USGS CDROMs

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Wed, 5 Jun 1996 15:41:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960605153917.17305B@outland.dtcc.edu>
Rendered body type: text/plain

```
Just a note to anyone intending to order a CDROM from Map Express.  The
Region 2 CD's are out of stock.  They were not sure when they will get
them.  Also, the CD's are now $52 each (up from $38 in the APRS
documentation).  Anyone have a Region 2 CD for sale?
```

Sam K3BY

PS: I am looking for a 1:2M CD for the same region (opt version of course).

178. Ultimeter 500

From: Steve Sable <ssable@ic.net>
Date: Wed, 05 Jun 1996 15:54:14 -0400
To: aprssig@tapr.org
Message-ID: <m0uROfH-003Fe6C@ic.net>
Rendered body type: text/plain

```
A word of thanks to Peet Bros for helping with interfacing my Ultimeter 500
to my computer. I have had the 500 since January but could not get the data
to the computer. Many people offered suggestion's and Peet Bros replaced
almost every piece of equiptment to no avail.
Finally at Dayton I had a chance to talk to them and found out they just
developed a new data cable from the wx keypad to the computer. Seem's some
newer computer's have some different voltage's or something. AT any rate it
all works now.
                                  \\\\
                                  (o^o)
    =========================OOo== (_) ==oOO================
    | It doesn't get any better than this! (ssable@ic.net) |
    |                 http://ic.net/~ssable                |
    ========================================================
```

179. Re: [APRSSIG:1619] Re aprs with old tandy laptop?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 5 Jun 1996 15:26:18 +0000
To: aprssig@tapr.org
Message-ID: <199606051937.PAA13739@hemisphere.neocomm.net>
Rendered body type: text/plain

Just thought I would mention, I run APRS74 on a PCjr with 640 base memory. I disconnected the internal 360 floppy and outboarded a 720k floppy drive. Using dos 3.3, I was able to make a boot disk that includeds enough of APRS and one map to work just fine. This alows for automatic reboot in power outages.

Of course with a seperate boot disk and aprs disk it would be possible to add support for other APRS features and more maps.

A mobile running on floppy (s) could easily have different floppys made up to insert to cover maps for a long journey.

However I have not been able to run APRS on my HP-95, I guess I need more memory.

Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

180. Re: [APRSSIG:1637] Re: Garmin 45 problem?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 5 Jun 1996 19:36:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960605193418.11560C-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 5 Jun 1996, Randy Hammock wrote:

>
> The Garmin 45 still looks at the battery level even when external power is
> supplied and will shut down if the batteries are weak. This may only be
> true for some versions of the 45.
>

When I run my 45 from external power there is *no* battery condition indicator on the left side of the screen (as is shown when under internal power), but I have seen other 45s that *do* show the battery level with external power.   (didn't check the version numbers....darn)

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

181. Re: [APRSSIG:1639] Re: Garmin 45 problem?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 5 Jun 1996 19:38:58 -0400 (EDT)
To: aprssig@tapr.org
Cc: seront@seism1.ess.sunysb.edu
Message-ID: <Pine.BSF.3.91.960605193755.11560D-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 5 Jun 1996, Bernard Seront wrote:
>
> Just out of curiosity, was the original problematic unit (N1JDU I think) in
> battery save mode?

Nope! I checked! It was in *normal* mode.

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

182. Re: [APRSSIG:1641] Re: Symbols

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 5 Jun 1996 19:49:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960605194208.11560E-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 5 Jun 1996, Bob Bruninga wrote:

> > ---
> > That's (another) one of those things about APRS that does not seem to be
> > anywhere in the docs or help system......
>
> APRSdos REPLY COMMENT: Use the INPUT-MY comand. THe command you ALWAYS
> USE to change anything about your station posit...

Well, I've said it before... Bob, you have a *heck* of a good program! I
run *two* 24hr APRS stations, plus my occasional tracker. I'm not a 'new
user' but there are things I still can't figure out, and apparently I'm
not the only one.

The 'on line' help system is minimal, and could stand gobs of inprovement.
(and I don't count the ability to read the "readme" files withing APRS as
'on line' help)

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

183. Re: [APRSSIG:1649] Re: Garmin 45 problem?

From: rwf <rwf@mindspring.com>
Date: Wed, 5 Jun 1996 21:34:35 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960605115139.2feff9e2@mindspring.com>
Rendered body type: text/plain

Richard said:

>When I run my 45 from external power there is *no* battery condition
>indicator on the left side of the screen (as is shown when under internal
>power), but I have seen other 45s that *do* show the battery level with
>external power.   (didn't check the version numbers....darn)

Yes, it was changed in a recent version (2.43, I think). Users had no way
to know that external power was good or bad (unless it was bad and they
finally ran the batteries down). So Garmin made the bar graph go away when
external power was present.
I was glad to see it.

None of my Garmin 45s (I have had 2) stopped working when the inside
batteries died (unless the external power was not good)

Ralph

PS-   FT Lauderdale, FL APRS Dinner Bunch tomorrow (Thurs) at Pollo Tropical
on US 1 just South of 17th ST and just North of the Airport. 7:30 PM.
Questions? call during day Thrsday at my Hollywood Office (954) 986-3183.

>
>Richard Amirault   N1JDU   Boston, Massachusetts USA

```
>amirault@tiac.net        "Go Fly A Kite"
>
>
```

---

184. [APRSSIG:1581] Re: APRS WX stuff

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Wed, 05 Jun 1996 21:59:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I5KCNWSZAQ8Y793O@delphi.com>
Rendered body type: text/plain

```
On  3-JUN-1996 21:57:21.2 aprssig said to JKHAM
   >> >    hasan schiers, N0AN <schiers@ames.net> wrote:
   >>
   >> >> They just called me (NWS). Here is their "official" reporting
   >standard: > >>
   >> >>1. For 24 hour period precip is reported at 1200 UTC...no change

   >This seems to meet > both  criteria: ease of programming and agreement
   >with NWS. >
   >>  If that really is the question, then I would
   >> like APRS to stick to NWS definitions, so we can compare what is
   >reported > by the NWS to our own experience. 73,
   >> hasan schiers, N0AN--
   >> -------------------------------------------------------------
   >> schiers@ames.net
   >> -------------------------------------------------------------
   >I agree, I also would like for us to stick to the NWS definitions.
   >Don
   Just my two cents worth.  I agree we should use the NWS standard as
   it will enhance acceptance of APRS within the emergency response
   community and improve intelligibility of the output data.

John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@IX.NETCOM.COM>


`[1;33;45mRainbow V 1.19.2 for Delphi - Test Drive
```

---

185. Garmin 45 strange antics

From: "Jim Neely" <jneely@eden.com>
Date: Wed, 05 Jun 96 21:11:30 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199606060214.VAA11807@matrix.eden.com>
Rendered body type: text/plain

```
My Garmin 45 is back at Garmin for the second time in the last 2 months.  It quit acquiring lock.
Powering down had no
affect on the problem.  Battery save mode had no affect on the problem.  It runs on external power 99%
of the time.

When the problem occurs, the GPS 45 will shut itself down after about 15-20 minutes and no satelites
acquired.  There is no
indication at all on the S-meter display when it is having a bad time.  I have tried for a couple of
days at a time before
sending it back to Garmin.

I bought the GPS 45 last summer and used it continually on the dash of my truck or my wife's minivan.
It worked fine on a
trip through NM, AZ & CO.

Garmin had the unit back to me in 2 weeks, and it worked fine for a couple of months.  They gave me no
explanation of what
was done to fix it.  I'll ask this time.

73...jn


Jim Neely
jneely@eden.com WA5LHS@tapr.org
```

---

186. Internet <--> Packet

From: Bob Wilkins n6fri <rwilkins@ccnet.com>
Date: Thu, 6 Jun 1996 03:46:27 -0700 (PDT)
To: Aprs <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960606033723.29985B-100000@ccnet3>
Rendered body type: text/plain

```
I found an interesting software program that uses internet phone

http://www.onramp.net/swta/rptrlink/

this is a way to talk on remote repeaters and use remote packet stations.

Someone here might have some fun trying to link to a distant 145.01 radio

Hey Bill  I haven't tried it yet, see what you can do with it!

       Bob Wilkins                    home    n6fri@uhf.org
 Berkeley Hills, California           work    bob@cave.org
         CM87uv                       play    n6fri@n0ary.#nocal.ca.usa.noam
```

---

187. Re: [APRSSIG:1655] Internet <--> Packet

From: William Nolle <wnolle@ix.netcom.com>
Date: Thu, 06 Jun 1996 08:13:40 -0700
To: aprssig@tapr.org
Message-ID: <31B6F5A4.11FE@ix.netcom.com>
Rendered body type: text/plain

```
Bob Wilkins n6fri wrote:
>
> I found an interesting software program that uses internet phone
>
> http://www.onramp.net/swta/rptrlink/
>
> this is a way to talk on remote repeaters and use remote packet stations.
>
> Someone here might have some fun trying to link to a distant 145.01 radio
>
> Hey Bill  I haven't tried it yet, see what you can do with it!
>
>        Bob Wilkins                    home    n6fri@uhf.org
>  Berkeley Hills, California           work    bob@cave.org
>          CM87uv                       play    n6fri@n0ary.#nocal.ca.usa.noam
>
> Well this looks realy promising, i have used Iphone on several occasions
to talk on several repeaters> I do have the hardware setup to do this and
looks like this may very well be useable for remote APRS. Thnaks for the
web site info.

Bill KE4EER
wnolle@ix.netcom
http://www.netcom.com/~wnolle
```

---

188. gps20/mim Power requirements.

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Thu, 6 Jun 1996 09:02:52 -0700
To: wb4apr@amsat.org
Cc: aprssig@tapr.org
Message-ID: <199606061602.JAA07590@poseidon>
Rendered body type: text/plain

```
Hi Bob,
   Reading tech specs on your GPS20 Sensor Board handout, under 1.3.3
Electrical Characteristics:
   1. Input voltage: +5VDC +/- 5% regulated, 50mVp-p ripple.
   2. Draws less than 180mA @5 VDC. ........etc

Will the GPS20 take 5V to 40DC like the GPS45 or 5V DC to 12Vdc, and similar
to the MIM module.
   To take required 5VDC from MIM for the G20, MIM uses 15mA leaving 85mV at
+5V, which not enough for the G20 if it uses 180mA..
   Can the MIM power also run the G20, or is a seperate regulated 5V supply
at from 5V-40V required for the G20. ???
   Want to package the two together for nice small unit, but concerned about
appropriate power supply, or does GPS20 have its own 5-40 regulated 5VD ??,
and just not mentioned on the spec sheet. .
   Thanks for clearing up my puzzlement. Have both on order and have also
received the KD6PBH GPS display kit for the Magnovox 4200 and this unit. Place
Dispaly on cars dash board, to insure unit putting out good data and visual
info right in front view while driving. Easier than lookin at a Laptop on seat.
  Thanks much 73's & Enjoy, Bill/WB6LPG
NNNN


WBB/WB6LPG
```

189. APRS76b.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 6 Jun 1996 12:17:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960606121439.2606B-100000@arctic>
Rendered body type: text/plain

```
I just uploaded 76b to tapr.org in tapr/SIG/aprssig/files/upload
When I log off here, I will prepare the 76to76b.zip file and upload that
this evening...

NEWNOTES.TXT     * * * *  NEW STUFF ADDED IN EACH NEW VERSION  * * * *

Ver 76b: MAPFIX25 now uses a BUS MOUSE and has 10 times faster FIND cmd
* Fixed DFjr interface so that GPS and DF unit work together.  See DF.txt
* Added main menu to bottom of most APRS screens.

Ver 76a: Mapfix24 has 10 times faster TASK-TRIM and has a new command
  called EDIT-SPLIT for splitting a long feature in two.
* New program CKMAPLST.bas will compare your MAPLIST to all the files
  in a given directory and list missing files or missing entries!
* FIxed problem with WX stations fading to gray after 2 hrs
* Fixed DAVIS WX reports with bad baro if no baro present
* Fixed MPH display
* Fixed it so FLUX Compass displays heading even if speed is zero
* Fixed it so that alt-S-GPS-NO-GPS will NOT cause you to fade to gray
* Mic Encoders will now trip ALARM if message 6 or 7

Ver 76: Dayton 96 version  (4k larger than 75c)
* Added Davis Weather Monitor
* You must twiddle your alt-S-OTHER-AvgGndLevel to get the proper
  conversion of your barometer reading for the Davis.
* Added Agrelo DF Junior interfaces
* Now displays your course and speed if GPS connected...
* Added ACARS.bk to show how APRSair.exe tracks the Airlines on 131.55 MHz
```

---

190. GPR-20 and the connector from Hell

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Thu, 6 Jun 1996 13:24:45 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00addcd121df89@[204.251.33.4]>
Rendered body type: text/plain

Lay off coffee for a week, buy a soldering iron half the size of your
smallest one, get .001 solder and proceed SLOWLY.

Use the minimum solder possible being careful not to wick up to the front
of the insert clip. Trim off the excess crimp tabs (I didn't have a crimper
to fit). The rear of the clip MUST be narrow. Make sure you are inserting
the clip into the correct slot.

I had no UNRECOVERABLE disasters. I'd have paid big bucke to get that
connector pre-assembled.

Ron W5RKN

also:
rparsons@bga.com

---

191. Round 2 of Garmin GPS-20

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 6 Jun 1996 14:40:00 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199606061940.OAA02352@tapr.org>
Rendered body type: text/plain

```
TAPR offers group GPS purchase (round 2)             6/6/96
-------------------------------------------------------------

TAPR will be making another group purchase on the Garmin 20 GPS units.

For full details on the purchase as well as information regarding the unit,
please see the following web page http://www.tapr.org/gps

The price will be:
   $169.00 US for members of TAPR
       or
   $179.00 US for non-members
```

This kit will include:

- Garmin GPS-20 (MultiTrac8 sensor) engine (1.83" x 2.74" x .45")
  The Garmin GPS-20 is similar to the Garmin GPS-45

- RF pig tail with connector for unit
  (one end is the MCX male connector
  and the other end will be non-connected - see below)

- power/data cable with connector shell and pins
  (The connector is a subminiature PCB edge connector
  and will need to be built - see below)

- Documentation

TAPR will be taking orders for 75 units, which is the minimum purchase this round. Once 75 units have been purchased, TAPR will order the Garmin units.

TAPR will deposit money when the units are ordered from Garmin and ship when all components have been gathered. Unlike the first order, we do not know how long it will take to fill the 75 orders, although orders continue to be made from the last batch.

We had a number of people asking for the altitude option to be set for higher usage and we will check with Garmin on that on this batch of orders -- but no promises :-)

Please note: This is not an enclosed/sealed unit. It is assumed that the purchasers will be installing the unit in another enclosure for normal and experimental operations.

No 10% Discount for TAPR Members. Due to the nature of the purchase, the $169 purchase price for TAPR members represents the membership discount.

If you would like to order one of these units, you can
e-mail tapr@tapr.org,
phone (817) 383-0000, or
fax (817) 566-2544.

Office Hours: Tuesday - Friday 9am - 12pm, 3pm - 5pm Central Time

Payment method is required upon placement of order (Visa/MC, check, MO, etc).

These units will be useful with current APRS software and the upcoming TAC (Totally Accurate Clock) kit that Tom Clark, W3IWI, has begun discussing with TAPR to do as a kit in the future. For more on the TAC project check: ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/

Questions concerning the unit and details on the buy will be handled on the TAPR APRS Special Interest Group list. To subscribe,
send e-mail to:
listserv@tapr.org.
In the message type
subscribe aprssig YourFirstName YourLastName.

The server will then send you a message back. Announcements on the status of the shipment will be made to the TAPR APRS SIG and TAPR-BB lists.

Shipping and Handling

- Shipping and Handling within the US will be $7.00 US
  by UPS Ground unless otherwise requested by purchaser.

- International Shipping will need to contact the TAPR office and get a quote on the shipping to your country. TAPR uses International Express Mail, unless the purchaser requires something else.

General Information

All Garmin engines come complete with DGPS input capability (see note below), PPS timing output and lithium 3V battery on board.

MultiTrac8: Tracks and uses up to 8 satellites for accurate, reliable

GPS data at an incredibly low 1 watt power consumption. Unit has and a real time clock, PPS timing and nonvolatile memory right on the board.

Footprint (1.83" x 2.74" x .45")

Architecture	Patented MultiTrac8
Time to first fix	
reacquisition	< 2 sec
warm	20 sec
cold	2 min
sky search	15 min
update rate	1 sec continuous
Dynamics	
velocity	999 knots
acceleration	3 g
jerk	20 m/s^3
Datums	102 predefined, 1 user defined
Electrical	
input voltage	5.0V DC +- 5% regulated (a suitable regulator should be used)
power consumption	0.8 watts
backup	on board 3V lithium (10 year lifetime)
sensitivity	-166 dBW
Connector	
antenna	50 ohm MCX female connector for active (5V DC @ 15ma) or passive antenna
power/data	single row, right angle 12 pin male
Physical	
configuration	1 integrated board engine
size	1.83"W X 2.75"L X 0.45"H
weight	1.1 oz
op temp	-30 deg C - 80 deg C (remove Li battery for extended usage above 80 deg C)
storage temp	-40 deg C - 85 deg C
Interface	
compatibility	2 RS-232 serial ports
data rate	User selectable baud rate 1200/2400(tx only)/4800/9600
format	NMEA 0183 v.2.0, ASCII
inputs	Initial position, date and time (not required), 2D/3D & earth datum command, RTCM-104 v.2.0 differential
outputs	Position, velocity & time, receiver and satellite stautus, geometry and error estimates
timing output	Timing output with +- 1 microsecond accuracy

Frequently Asked Questions

----

* Any altitude limitations?
  The GPS engines will deactivate themselves above 50,000 feet.

* The Garmins only send out final solutions (NMEA sentences).
  There is no other data available from them (including preprocessing data).

* The Multitrak8 has only one channel, but is multiplexed.

* The Multitrak8 can accept DGPS signals (see note below).

* Antenna options (which can be purchased directly from Garmin if required) include:
    - mag mount
    - flange mount (bolt to a car)
    - trunk clip
    - suction cup mounted

* The unit has true time clocks, PPS timing, and nonvolatile memory on board.

* The interface is NMEA 0183 (TTL levels) and RS232 (+ and - 15 volts)

* The unit can be powered by AA batteries.
  Batteries or external supplies will require a suitable power regulator.

* The unit only gives NMEA sentences as output, no extraction
  of RTCM-104 data.

* There's no problem with the antenna being close to the boards.
  All sensitive components are shielded.

* The unit has a LNAs and you can use passive antennas.
  You need to keep the antenna runs short however.

* The antenna is attached with a MCX connector, which is a friction
  lock connector. A male MCX connector with short RF cable is included
  in the kit purchase.

* There's a header for connecting the data cables.
  A connector and cable will be included in the kit (it will need
  to be soldered). The connector is a subminiature PCB edge connector.
  This is not the same connector as used with many hand-held units.

* You cannot adjust the intervals that the boards outputs data.
  However, you can adjust their baud rate. At 4800 the boards repeat
  data every 2 seconds. At 9600 baud, data is repeated every 1 second.

* The boards do adjust for leap seconds (via the satellites).

* For DGPS, since these are just the boards, you can't use the Garmin DGPS
  receivers. The Garmin units get tuning instructions from the GPS keyboard

  (which are not on the boards). To receive DGPS signals, you'll need a
  tunable beacon receiver. Correction signals are sent in through the
  data in cable (just like the handhelds).

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
----
e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: http://www.tapr.org
----

192. NE Florida?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 6 Jun 1996 17:44:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960606174341.22555D-100000@arctic>
Rendered body type: text/plain

---------- Forwarded message ----------
From: BordingK@aol.com
To: bruninga@nadn.navy.mil

I saw something on the SIG by someone reference APRS and the Baldwin,(FL?)
ARC. Are you aware of any NE FL ARPS, 'cause I keep a scanner on 145.79 and
it's never gone off once!

Ken Bording KF4COH

193. Field Day

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 06 Jun 1996 18:51:45
To: APRSSIG@tapr.org
Message-ID: <199606062251.SAA08406@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

As co-chairperson of my club's Field Day committee, I'll
be setting up APRS at our Field Day site in Putnam County NY
as a WIDE. As many of you in the New York-New Jersey-Connecti-
cuit area already know, there is (what I refer to as) a APRS-
Black Hole there. I've distributed MANY copies of APRS to club
members in the past but it's a hilly area with few stations on
APRS (YET!) I'll be informing them of this fact and, since the
Field Day site is also the club's repeater site (it's the
145.130 machine) I hope to do fairly well.

```
     The "new" 286 laptop I picked up at the Rochester Hamfest
will be put into service for the first "serious" time and, if
all works out as hoped, a new geographic area for APRS will be
connected to the rest of the network (at least during Field
Day) for the first time.  Since I'm a "no-code" and since the
guy who was in charge of packet contacts last year came out
bust, I'm looking forward to getting a few *ACK*s and convin-
cing the club to (puh-leeeeeeeeeease!) put up a WIDE digi at
that site on a full-time basis.  Wish me luck.  73 de


Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Target those coordinates and fire quantum torpedoes.....
```

194. Re: [APRSSIG:1661] NE Florida?

From: n2czf@gate.net
Date: Thu, 6 Jun 1996 20:27:06 -0400
To: aprssig@tapr.org
Message-ID: <199606070027.UAA21900@osceola.gate.net>
Rendered body type: text/plain

```
Just this morning I saw some ducting from the NW FL area in West Palm Beach
which is quite a haul! 3 Digi's were spotted and there are users as far as I
know. There is also a digi in the Jacksonville FL area, KA4TAR-7.

On Thu, 6 Jun 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>
>---------- Forwarded message ----------
>From: BordingK@aol.com
>To: bruninga@nadn.navy.mil
>
>   I saw something on the SIG by someone reference APRS and the Baldwin,(FL?)
>ARC.  Are you aware of any NE FL ARPS, 'cause I keep a scanner on 145.79 and
>it's never gone off once!
>
>Ken Bording  KF4COH
>
>
>
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

195. DOA PicoPacket

From: Kent V Hufford <khufford@erols.com>
Date: Fri, 07 Jun 1996 01:45:30 -0400
To: aprssig@tapr.org
Message-ID: <199606070145.VAA02102@smtp2.erols.com>
Rendered body type: text/plain

```
Hi, all. Just got a PacComm PicoPacket w/second serial port in the mail.

Seems to be Dead on Arrival (DOA). Maybe someone out here can help.

When I put 12dc to the power connector (I checked polarity first) , then
turn on the on/off switch, all I get is the CON lite. No LED blinking or any
other lites.

The manual says in that case to check with a "good oscilloscope" p93 of U1.
I did not buy a "good Oscilloscope".

So, on to the next help. I checked pin32 of U6 for 4.7 volts, it has 4.9.

It also says that U6 is the 128K RAM. The current advertising says the
PicoPacket w/second serial port comes with 128k ram. A slip of paper in my
box that the TNC came said "Ram greater than 32k is not yet supported". So,
there is NO 128k chip in the TNC.  But it does have a U6 header..

Any ideas, other than back to PACCOM?

thanks in advance.

Kent
```

KQ4KK

---

196. Bug i think

From: William Nolle <wnolle@ix.netcom.com>
Date: Thu, 06 Jun 1996 21:15:58 -0700
To: aprssig@tapr.org
Message-ID: <31B7ACFE.3172@ix.netcom.com>
Rendered body type: text/plain

Bob just installed version 76b and i found that when i place an object on
the map with a speed lets say of 35 mph it doesn't move on my map, but it
does on the other fellow i was testing with. He was running a Mac.
Now i attempted this several times with weather objects and like i said
they NEVER move on my own map.

Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle

---

197. Re: [APRSSIG:1613] Garmin 45 problem?

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 6 Jun 1996 22:22:04 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606062237.A19073-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

That happened on my Garmin 75 a couple of times over the last two years.

John W. Wilson
z004391b@bcfreenet.seflin.lib.fl.us

On Tue, 4 Jun 1996, Richard Amirault wrote:

> I seem to be having a problem with my Garmin 45 that I don't remember
> being mentioned here on the sig.
>
> I had suspected it before, but after this past weekend I'm sure.
>
> If my 45 looses 'lock' it seems to be unable to re-aquire 'lock' without
> POWERING DOWN, THEN POWERING UP. This, of course, requires operator
> attention (to notice the problem) and operator action (to rectify the
> problem)
>
> I would say that *most* folks don't have the specific problem that city
> dwellers have of driving thru long tunnels, and on the lower 'deck' of a
> 2 deck bridge (or raised roadway)
>
> I drove from Boston, down to R.I. last weekend with my tracker up and
> running. I didn't notice anything wrong (I was paying attention to
> driving more than reading my GPS screen) untill late in the afternoon
> after I had been parked for hours. There was a notice to check the
> message screen. When I did, it told me something to the effect of "Unit
> is unuseable. Power down then power up"
>
> When I did that, I waited for 'lock' and it took less than one minute!
>
> Has anyone else noticed this?
>
> Richard Amirault   N1JDU   Boston, Massachusetts USA
> amirault@tiac.net   "Go Fly A Kite"
>

---

198. Bug Update

From: William Nolle <wnolle@ix.netcom.com>
Date: Thu, 06 Jun 1996 21:32:12 -0700
To: aprssig@tapr.org
Message-ID: <31B7B0CC.3EFB@ix.netcom.com>
Rendered body type: text/plain

Bob i went back and entered an object on the map using version 76 and it
works just fine, so it's something that went haywire in version 76b
only.

Bill KE4EER

wnolle@ix.netcom.com
ke4eer@amsat.org
http://www/netcom.com/~wnolle

199. NORFOLK Va?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 6 Jun 1996 23:42:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960606233942.26834A-100000@arctic>
Rendered body type: text/plain

Band was open to Norfolk, saw 2 stations. I began building some street
maps of Va BEach area. Who was that that was making VAMAPSxx.zip?

de wb4apr@amsat.org

200. APRS76b bugs?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 6 Jun 1996 23:58:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960606235630.26834E-100000@arctic>
Rendered body type: text/plain

KG0DW reports that in 76b, the wind speeed barbs are acting funny.
KE4EER reports the Dead Reckoning function for OBJECTS is not working.
I will log off here and do some testing, but If you havent gotten 76b
yet, then you might wait. hi hi

de wb4apr@amsat.org

201. APRS76b no bugs?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 7 Jun 1996 00:12:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960607000508.27287A-100000@arctic>
Rendered body type: text/plain

I just checked, and the DR of OBJECTS works fine and all the WX symbols
in my area have WIND leaders and they dont go away, so I guess those two
reports need more watching to see what is going on.

Bill, an object wont move unless the following conditions are met:
1) OBJ has a course and speed
2) You have UPLINK enabled
3) You have DR enabled

THen it will move, but ONLY each time it is transmitted...
AND
at least one minute must have gone by

Lemme know what you figure out...

de wb4apr@amsat.org

202. Re: [APRSSIG:1663] Re: NE Florida?

From: Kt4ll@aol.com
Date: Fri, 7 Jun 1996 01:30:12 -0400
To: aprssig@tapr.org
Message-ID: <960607013008_320951969@emout16.mail.aol.com>
Rendered body type: text/plain

I have seen the jacksonville digi a few times here in Central FL. Also, over
the last few days I have seen one up in the panhandle, as well as one in
Alabama. No users, just the digis.

73 de kt4ll

203. Re: [APRSSIG:1470] Field Day

From: Ron Malinowski <weather@xnet.com>
Date: Fri, 7 Jun 1996 01:45:20 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606070645.BAA06035@flood.xnet.com>
Rendered body type: text/plain

Bruce and group,

We, Mallard Lake Wouff Hong Society, will be running APRS at Frield day in

```
Boone County also, on VHF only as far as I am aware.
Ron
```

204. Re: [APRSSIG:1629] Re: Garmin 45 problem?

From: Chip <quarry@q.continuum.net>
Date: Fri, 7 Jun 1996 03:48:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960607034511.24486A-100000@q.continuum.net>
Rendered body type: text/plain

```
On Tue, 4 Jun 1996, Richard Amirault wrote:

> Normal Mode (NOT battery saver)

I exclusively use the Batt Saver mode since I don't have an external
power cable.

> I had reasonable sat coverage all the way from R.I. with coverage
> ragnging from 4 to 7 sats. But when I approached downtown Boston I
> noticed that both the number of sats and the signal strength got less and
> less until I was down to *zip* (still "outside", not under any
> obstructions, bridges, tunnels, etc)

That isn't the way I experienced it.  I had fairly good coverage most of
the time in Boston (except when it could be explained by obstructions).
(By the way, did you see on the track that I went right by your house on
the return trip?  I was within a mile by GPS readings!)

> Since Boston (like many/most metropolitan areas) is awash with RF, I'm
> tempted to think that this is some sort of intermod, or overload situation.
> Once past the downtown area, I powered down, then up and re-aquired lock.

That's a possibility, although my results were a little different.

> Richard Amirault              N1JDU           Boston, Massachusetts USA
                                                ^^^^^^^^^^^^
                                                Or close to it   :)

Perhaps Revere would be closer ...

Chip Griffin - SysOp of the Quarry (203-889-6427)
President of Thames River Apple Users Group
     - quarry@q.continuum.net
     - griffge@gwsmtp.nu.com

http://q.continuum.net/~quarry/
```

205. Re: [APRSSIG:1632] Re: Garmin 45 problem?

From: Chip <quarry@q.continuum.net>
Date: Fri, 7 Jun 1996 03:50:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960607034913.24486C-100000@q.continuum.net>
Rendered body type: text/plain

```
On Wed, 5 Jun 1996, Dennis Mobley wrote:

> Yep, mine has done the same thing out on the Atlantic Ocean.
> This "feature" does not happen often, and the only warning
> is the beep beep "poor coverage" message.
> Power cycle the beast and all is well.
>
> Anyone have a casue and/or solution to this problem?

Has anyone noticed that it doesn't seem to require the power down/up if
you acknowledge the "poor coverage" message?  I haven't had this lockup
as long as I ack the message.

Chip Griffin - SysOp of the Quarry (203-889-6427)
President of Thames River Apple Users Group
     - quarry@q.continuum.net
     - griffge@gwsmtp.nu.com

http://q.continuum.net/~quarry/
```

206. Call back the dogs.

From: William Nolle <wnolle@ix.netcom.com>
Date: Fri, 07 Jun 1996 03:19:41 -0700
To: aprssig@tapr.org

Message-ID: <31B8023D.60E4@ix.netcom.com>
Rendered body type: text/plain

```
Well Bob your right i went back into version 76b and the DR was not
enabled. Now i never had to set this before. Was it a default prior to 76b.
In any case i'm calling the Dogs back Hi. Works great so far Bob.

Bill KE4EER
```

---

207. Re: [APRSSIG:1661] NE Florida?

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Fri, 7 Jun 1996 13:05:26 GMT
To: aprssig@tapr.org
Message-ID: <199606071305.NAA25839@mailhost.worldnet.att.net>
Rendered body type: text/plain

```
At 09:59 PM 6/6/96 +0000, you wrote:
>
>---------- Forwarded message ----------
>From: BordingK@aol.com
>To: bruninga@nadn.navy.mil
>
>   I saw something on the SIG by someone reference APRS and the Baldwin,(FL?)
>ARC.  Are you aware of any NE FL ARPS, 'cause I keep a scanner on 145.79 and
>it's never gone off once!
>
>Ken Bording  KF4COH
>
On 6/6/96 the following stations from the NW were visible in the Orlando area:

        W2GFF-7  via 2nd wide
        W4nn-1   via wide
        KA4TAR-7 via 3ed wide

These were visible in the AM and That evening there were a few more which I
didn't write down.  Again this morning I am seeing Jax via 3ed wide.  I
imagine its just some GOOD conditions but it would be nice if we could get a
link up to the north.   Anybody in Ocala or GAinsvill listening???

Bud (WB4LTF)
```

---

208. Re: [APRSSIG:1664] DOA PicoPacket

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Fri, 7 Jun 96 06:16:45 PDT
To: aprssig@tapr.org
Message-ID: <9606071316.AA22481@eng.adaptec.com>
Rendered body type: text/plain

```
The only thing I would point out is that if you have
4.9V(that is equal to 5V) and there IS power to the
unit...so that isn't your problem.

Steve Wilson
```

---

209. [Q] APRS on 7 or 14 MHz

From: rhiii@pop.erols.com (Richard H)
Date: Fri, 07 Jun 1996 13:33:18 GMT
To: aprssig@tapr.org
Message-ID: <31b82c6a.86090104@smtp.erols.com>
Rendered body type: text/plain

```
Is there any APRS testing  presently underway on 7085, 14100 or
14105 ?   And what about 6m FM or fsk.

Thanks,

-- Richard/NT2Z
```

---

210. Precision Mapping 2.0

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 07 Jun 96 08:42:02 -0700
To: aprssig@tapr.org
Message-ID: <199606071246.HAA28365@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Has anyone written or currently writing a program to make APRS maps from
the Precision Mapping 2.0 CD?

Short msg, Long reply?
```

KC5JGV

211. Re: [APRSSIG:1679] Precision Mapping 2.0

From: Mark Sproul <sproul@ap.org>
Date: Fri, 7 Jun 1996 10:31:07 -0400
To: aprssig@tapr.org
Message-ID: <v03006f00addded8b89df@[165.1.27.20]>
Rendered body type: text/plain

```
>Has anyone written or currently writing a program to make APRS maps from
>the Precision Mapping 2.0 CD?
>
>Short msg, Long reply?
>
>KC5JGV

Short reply, YES,

Mark

___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

212. Re: [APRSSIG:1678] [Q] APRS on 7 or 14 MHz

From: steve <steve@muskoka.com>
Date: Fri, 07 Jun 1996 10:33:50 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960607153350.006644a8@muskoka.com>
Rendered body type: text/plain

```
At 08:41 6/7/96 -0500, you wrote:
>Is there any APRS testing  presently underway on 7085, 14100 or
>14105 ?   And what about 6m FM or fsk.
>
>Thanks,
>
>-- Richard/NT2Z
>
>


Greetings Richard,
I hail from FN05 country and have a 6mtr station up and running at present.
I am running 90 wts of pwr on a 2 elm quad at 65 ft. At present we are
facing South.
Just wanted to let you know that there is activity. I am also looking in the
near future at putting up a 6mtr digi. I need to know if there is a dual vhf
tnc that has gate capabilites.

Take care.....de Steve VA3HOI
Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS on 2 & 6 mtr's
```

213. Field Day

From: dwetzel@uswest.com (Doug Wetzel)
Date: Fri, 7 Jun 1996 08:34:45 -0500
To: aprssig@tapr.org
Message-ID: <1b8210d0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
I'm planning to have APRS up on 14.100 LSB on field day.  The KB7DD 10.1515 GATE
should also be up here in Yootaw.  Anybody want to suggest 17 and 10 m freqs for
that day?  There are at least two others interested, and we'd love to spread out
over the bands.

73

Doug
KC7CO
Radio Free Utah
```

214. NWS Wx (rain) Reporting Conventions

From: schiers@ames.net
Date: Fri, 07 Jun 96 09:21:28 -0500
To: aprssig@tapr.org
Message-ID: <199606071442.JAA16001@tapr.org>
Rendered body type: text/plain

I met with the people at the NOAA (NWS) service yesterday. What fun! I never saw so many large hi-res computer monitors with doppler radar on them in my life. I felt like a kid in a candy store.

I took a printout of the messages that came up in this sig regarding how the rainfall should be reported and we adjourned to a rather nice conference room with several of the NWS employees sitting around the table to discuss the issue. They haven't changed their position, but they did clarify what the California office said, and how that could be misinterpreted.

For the purposes of INTERNAL reporting, the NWS office cuts off data at midnight. They maintained that this was for their internal purposes only and ALL interfaces with the public are based on the 1200 UTC cutoff. The reports they receive from reporting stations, and those they release to the public are based on the 1200 UTC cutoff. Apparently they have a very large number of people from the public who are "semi-official" rainfall reporters and they make use of this material. They want it, they use it, they redistribute it and it is all based on the 1200 UTC cutoff.

When I asked them why the disparity between their "internal" cutoff of midnight and the "external" cutoff of 1200 UTC, they said, "How many reporters are going to get up at midnight to read/reset their rain gauges?" They want the information from "reliable external sources" and to maximize the availability of data, the time agreed upon was 1200 UTC. I further asked if this was idiosyncratic to Iowa or typical of the nation as a whole and they indicated that the 1200 UTC cutoff was typical as far as they knew.

I again went into the 60 minute sliding period versus "cardinal" or on the hour rain reports. They were unequivocal, ON THE HOUR, no sliding periods.

So where does that leave us?

The best solution from my point of view, if we cannot have agreement on a standard that makes sense and can be compared to what NWS is reporting is to allow the USER to determine the reporting period cutoff. It should not be a terribly difficult job of coding to let the user specify the "day ending" cutoff hour for rain (precip). Then everyone can tailor their cutoff to local/state convention.

I see no reason to use a sliding 60 minute period for definition of rainfall in the last hour. The last hour should be current accumulated rain since the top of the hour.

If I understand how APRS would use the R and P fields it would work like this:

The r field is RAIN, The p field is PRECIP

rRAIN = accumulated rain since the top of the hour (no sliding 60 minute period)

pRAIN = accumulated rain in the last 24 hours (with the cutoff hour being user defined)

This is all I can contribute to the topic. Hope it helps the authors come to some conclusions. Please....I am not looking for an arguement. I am reporting what the NWS guys told me and making a suggestion about how to build flexibility into the programs so each USER can do what he/she prefers. 73,

hasan schiers, N0AN--
----
schiers@ames.net
----

215. Sentence Help

From: gustavoc@pinos.com
Date: 7 Jun 1996 12:02:04 EDT
To: aprssig@tapr.org
Message-ID: <199606071502.KAA16794@tapr.org>

Rendered body type: text/plain

Hello!

I connect my Trimble SVee OEM gps board to my laptop serial port.
The only think that appear on my screen is the following sentence:

```
$GPGGA,,,,,,0,0,,,,,,,*56
```

Can somebody help me to understand this and to find the mistake in the gps
board.

TIA.

Gustavo, LW2DTZ

---

216. WX disp bug in 76b...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 7 Jun 1996 11:05:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960607110127.20202A-100000@arctic>
Rendered body type: text/plain

Yep, I found the missing WX wind speeds. It got messed up when I added
the MAGNETIC COMPASS interface!   The OWN-STATION heading
must be non-zero or APRS76b will not display ANY winds or mobile leaders...

You can force a heading with the INPUT-HEADING command.

Although this necessitates a new release, please keep using 76b if you
have it and report any additional bugs?

de wb4apr@amsat.org

---

217. Re: Field Day

From: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Date: Fri, 7 Jun 1996 11:53:34 -0400
To: aprssig@tapr.org
Message-ID: <199606071553.AA18624@tigger.jvnc.net>
Rendered body type: text/plain

At 05:55 PM 6/6/96 -0500, Arte Booten wrote:
>Hi All,
>
>   As co-chairperson of my club's Field Day committee, I'll
>be setting up APRS at our Field Day site in Putnam County NY
>as a WIDE. As many of you in the New York-New Jersey-Connecti-
>cuit area already know, there is (what I refer to as) a APRS-
>Black Hole there. I've distributed MANY copies of APRS to club
>members in the past but it's a hilly area with few stations on
>APRS (YET!) I'll be informing them of this fact and, since the
>Field Day site is also the club's repeater site (it's the
>145.130 machine) I hope to do fairly well.
>

Look for The Waterbury (CT) Amateur Radio Club on APRS as well,
145.79 MHz. We arent sure of the location yet (I know, dont
get me started). Not too sure yet of the callsign either.

>   The "new" 286 laptop I picked up at the Rochester Hamfest
>will be put into service for the first "serious" time and, if
>all works out as hoped, a new geographic area for APRS will be
>connected to the rest of the network (at least during Field
>Day) for the first time.

Also a 286 with a MONOCHROME display (great isnt it?) But it
has 2 large harddrives, oh well, thats what happens when you have
a pile of parts and too much time on your hands :)

```
--
************************************************************************
** Ronald C. Barnes  KA1KJZ      Engineering Tech, Group W Satellite **
** 1591 W. Broad Street          ARRL CT Section Technical Coord.    **
** Stratford, CT  06497          Member, Soc. Broadcast Engineers    **
**                                                                   **
** The preceding are my opinions, mine, mine, mine!                  **
** Any attempt to say otherwise will result in a hearty laugh        **
***********************************************************************
```

218. Documentation

From: William Nolle <wnolle@ix.netcom.com>
Date: Fri, 07 Jun 1996 11:14:47 -0700
To: aprssig@tapr.org
Message-ID: <31B87197.66D7@ix.netcom.com>
Rendered body type: text/plain

I think this was asked before but i never seen an answer to the question. Is there any information avalable (Maybe from Bob hi) that would explain how to setup APRS and it's many different ways to run it. Sure would be great to have a manual available. Like what are all the keystrokes, and what do they do!. Also how does a person setup for mobile operations using a laptop (With ot without GPS, Doppler, How is a weather station setup etc etc. APRS is getting to a point where i have even seen Bob answer a message with (I will have to check that). I have read trough all the txt files and there realy isn't anything concrete. I wouldn't mind making up some maunuals, and making them available to those that feel a need for them, (LIKE ME)!. But of course i need the info first. This came to mind a while ago trying to setup for running GPS with my laptop, there realy is no step by step of anything in the readme directory. Bob do you have a list off all commands and their functions???.

Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle

219. Re: [APRSSIG:1664] DOA PicoPacket

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 7 Jun 1996 11:22:20 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606071622.LAA01510@solar.cs.tamu.edu>
Rendered body type: text/plain

Last I checked, and this might have changed since MY Pico is pre-release, the many blinkies that we grew to love on the older TNCs are not there. Does it talk to your computer? That's a better test than a bunch of LEDs in some cryptic pattern...

73, gerry
ps: I'll ask Gwyn at Hamcomm this weekend.

220. Re: [APRSSIG:1679] Precision Mapping 2.0

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 7 Jun 1996 11:31:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606071631.LAA01646@solar.cs.tamu.edu>
Rendered body type: text/plain

J. Scott Ratchford sez:
>
> Has anyone written or currently writing a program to make APRS maps from
> the Precision Mapping 2.0 CD?
>
> Short msg, Long reply?

No, but I'm working on a GPS interface for PM2.0.4

gerry

221. Re: [APRSSIG:1684] Sentence Help

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 7 Jun 1996 11:38:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606071638.LAA01727@solar.cs.tamu.edu>
Rendered body type: text/plain

gustavoc@pinos.com sez:
>
> I connect my Trimble SVee OEM gps board to my laptop serial port.
> The only think that appear on my screen is the following sentence:
>
> $GPGGA,,,,,,0,0,,,,,,,*56

It's searching for satellites. If you have a good antenna connected, it should find them.

IF you have the development kit, use CFGPS.exe, TSIPCHAT.exe, thence CFGPS.exe
to go to TSIP mode, tell the GPS presumptively where it is and the current
date/time, and maybe that it's a land application, then go back to NMEA mode.

> Can somebody help me to understand this and to find the mistake in the gps
> board.

Doesn't sound like a board problem. Sounds like a satellite acquisition
problem.

73, gerry

222. Re: [APRSSIG:1683] NWS Wx (rain) Reporting Conventions

From: ku0g@sprynet.com
Date: Fri, 7 Jun 1996 09:46:02 -0700
To: aprssig@tapr.org
Message-ID: <199606071646.JAA16680@m1.sprynet.com>
Rendered body type: text/plain

What path is that new NWS station going to use? It would be nice to see it down
here and would help my cause with our site, too!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

223. Re: [APRSSIG:1681] Re: [Q] APRS on 7 or 14 MHz

From: rhiii@pop.erols.com (Richard H)
Date: Fri, 07 Jun 1996 16:54:30 GMT
To: aprssig@tapr.org
Message-ID: <31b85def.4334076@smtp.erols.com>
Rendered body type: text/plain

Great Steve.   But, you didnt give me the 6m freq that yoursta is
on.

Can't help with the dual port tnc.
-- Richard

On Fri, 7 Jun 1996 09:46:25 -0500 (CDT), you wrote:

>At 08:41 6/7/96 -0500, you wrote:
>>Is there any APRS testing presently underway on 7085, 14100 or
>>14105 ?   And what about 6m FM or fsk.
>>
>>Thanks,
>>
>>-- Richard/NT2Z
>>
>>
>
>Greetings Richard,
>I hail from FN05 country and have a 6mtr station up and running at present.
>I am running 90 wts of pwr on a 2 elm quad at 65 ft. At present we are
>facing South.
>Just wanted to let you know that there is activity. I am also looking in the
>near future at putting up a 6mtr digi. I need to know if there is a dual vhf
>tnc that has gate capabilites.
>
>Take care.....de Steve VA3HOI
>Steve Dubois VA3HOI
>CANWARN SPOTTER
>APARS & WINAPRS on 2 & 6 mtr's
>
>

224. Re: [APRSSIG:1679] Precision Mapping 2.0

From: rhiii@pop.erols.com (Richard H)
Date: Fri, 07 Jun 1996 16:54:13 GMT
To: aprssig@tapr.org
Message-ID: <31b85bed.3820912@smtp.erols.com>
Rendered body type: text/plain

Not directly regarding Precision Mapping but about a year ago I was
in a computer store in Charleston SC and saw that a new (then) NEC
laptop was selling with a bundled mapping program. This software

was RS-232 ready to accept & display NMEA strings as map overlay
icons.

Can't recall the name or mfgr of the software. Is anyone familiar
with this package ?
-- Richard/NT2Z

On Fri, 7 Jun 1996 09:03:47 -0500 (CDT), you wrote:

>Has anyone written or currently writing a program to make APRS maps from
>the Precision Mapping 2.0 CD?
>
>Short msg, Long reply?
>
>KC5JGV
>
>
>
>

225. Re: [APRSSIG:1682] Field Day

From: rhiii@pop.erols.com (Richard H)
Date: Fri, 07 Jun 1996 16:54:22 GMT
To: aprssig@tapr.org
Message-ID: <31b85d56.4181275@smtp.erols.com>
Rendered body type: text/plain

Is 28110 acceptable ?

-- Richard/NT2Z

On Fri, 7 Jun 1996 09:48:43 -0500 (CDT), you wrote:

>I'm planning to have APRS up on 14.100 LSB on field day. The KB7DD 10.1515 GATE
>should also be up here in Yootaw. Anybody want to suggest 17 and 10 m freqs for
>that day? There are at least two others interested, and we'd love to spread out
>over the bands.
>
>73
>
>Doug
>KC7CO
>Radio Free Utah
>
>

226. NE PA a go for FD

From: "Al Zelna, N3KAE" <ldajz@epix.net>
Date: Fri, 07 Jun 1996 13:34:26 -0700
To: aprssig@tapr.org
Message-ID: <31B89252.744@epix.net>
Rendered body type: text/plain

Members of the Scranton Pocono Amateur Radio Klub (SPARK), K3CSG, will
be participating once again for this year's FD. We will be doing either
a 3A or 4A effort for the weekend, and plan to utilize VHF APRS and
keyboard Packet.

A vertical antenna will be replacing the 5 element beam at K3CSG-5 before
FD weekend, and this should provide adequate coverage for most of NE PA.
I am unaware of any other local club who will be on in this area.

I will post a message to this SIG when the new antenna goes up.

73 de N3KAE

227. Re: [APRSSIG:1683] NWS Wx (rain) Reporting Conventions

From: Les Blalock <lcb911@apex2000.net>
Date: Fri, 7 Jun 1996 14:04:36 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960607140311.291f745c@apex2000.net>
Rendered body type: text/plain

...
>So where does that leave us?
>
>The best solution from my point of view, if we cannot have
agreement on a

>standard that makes sense and can be compared to what NWS is
reporting is
>to allow the USER to determine the reporting period cutoff. It
should not
>be a terribly difficult job of coding to let the user specify the "day
>ending" cutoff hour for rain (precip). Then everyone can tailor their
>cutoff to local/state convention.
>
>I see no reason to use a sliding 60 minute period for definition of
>rainfall in the last hour. The last hour should be current accumulated
>rain since the top of the hour.
...
>hasan schiers, N0AN--
>--
>schiers@ames.net
>--
>

Here's another 2-cents worth... Top-of-the-hour rain amounts are
easy to program for but often accurately indicate the most recent
activity - 2 inches of rain from 1:30 - 1:55 may indicate /R000 at
2:05 - that's alot of recent activity to be showing /R000.

In considering the 24-hour rain amount, I prefer midnight resets
because (1) the Ultimeter 2000 automatically resets daily rain
amounts at midnite (as pointed out in the WX.TXT docs) and (2) it
seems more logical when referring to "today's rainfall amount".

Although the NWS certainly likes to see local rainfall amounts from
different sites, the amounts can vary so much over short distances
I'm still not sure what the importance of the remote readings really
are. (Here in West Texas, rainfall amounts are purely hypothetical
anyway.)

What's important is to make a decision and stick to it. Right now
AutoWx beacons APRS-format using "top-of-the-hour" for /R000 and
since midnite Local time for /P000. As Bob pointed out, the code is
simpler this way, but AutoWx will be changed, if necessary, to
follow whatever APRS does.

BTW Hasan... Your 59 F last evening while we were 96 F (at about
9:00 pm) sure looked cool.

Now all we need is Bob to include the code for logging wx values
every five minutes in APRS. Right Bob? hi

Les/N5KOA
lcb911@apex2000.net
Les/N5KOA
lcb911@apex2000.net
When Seconds Count

228. Re: [APRSSIG:1691] Re: NWS Wx (rain) Reporting Convent

From: schiers@ames.net
Date: Fri, 07 Jun 96 15:06:00 -0500
To: aprssig@tapr.org
Message-ID: <199606072006.PAA29959@tapr.org>
Rendered body type: text/plain

In <706134@bbs.ames.net>, on 06/07/96 at 02:40 PM,
   aprssig@tapr.org said:

>What path is that new NWS station going to use? It would be nice to see
>it down here and would help my cause with our site, too!!!

It is currently sent out:

N0INX,WIDE,WIDE

Which will get it from N0INX TO N0BKB TO N0GGU

Keep in mind they don't have a wx station connected to it at this point. I
don't know what their plans are in that respect. What is your local going
to do? 73,

hasan schiers, N0AN--
----
schiers@ames.net
----

229. Re: [APRSSIG:1660] APRSSIG digest 563

From: Dave Borland <borland@idirect.com>
Date: Fri, 7 Jun 1996 16:03:20 -0400
To: aprssig@tapr.org
Message-ID: <199606072003.QAA20686@lucid.idirect.com>
Rendered body type: text/plain

```
Ok here is one of those newbie questions you all love to see here.

Having expermented with HF APRS on 20 & 40 mtrs (as well as paket) I find
that qsb
affect the tnc's ability to decode the packets.

So has there be anyone using another mode such as Pactor or AMTOR ?

David J. Borland
borland@idirect.com
VE3HTB@va3bbs
Compuserve 72335,1462
```

---

230. Re: [APRSSIG:1668] NORFOLK Va?

From: Daniel Velez <dvelez@infi.net>
Date: Fri, 07 Jun 1996 16:42:53 -0400
To: aprssig@tapr.org
Message-ID: <31B8944D.6DD4@infi.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Band was open to Norfolk, saw 2 stations.  I began building some street
> maps of Va BEach area. Who was that that was making VAMAPSxx.zip?
>
> de wb4apr@amsat.org

Well, Bob, you probably saw myself (N4WZR) and Mike (KE4BZN).  I have a
Virginia Beach map about 75% complete built from GPS track
histories...should I send you a copy???

73 de Dan

|||||||||||||||||||||||||||||||||||||
Daniel Velez            Aoooga!
dvelez@infi.net           Aoooga!
N4WZR@WD4MIZ.VA             Aoooga!
|||||||||||||||||||||||||||||||||||||
```

---

231. GPS-20 up and running

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Fri, 7 Jun 1996 15:55:23 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00adde45af9e32@[204.251.33.86]>
Rendered body type: text/plain

```
Got the TAPR GPS-20 board connected to the external world and working.

Used Trimble antenna. 7805 regulator on 13V supply for the 5V. The
dissipation is just on the edge of free air wattage of a 7805 so definitely
recommend a small heatsink.

Watch out for that 12 pin connector from Hell. Work carefully.

Came up with clock off by about 10 minutes (slow). In about 15 minutes, the
clock corrected and in about a minute more, got a 7 sat fix.

Data looks good on terminal emulator.


Ron W5RKN

also:
rparsons@bga.com
```

---

232. Re: [APRSSIG:1682] Field Day

From: Steve Lewis <aj054@dayton.wright.edu>
Date: Fri, 07 Jun 1996 17:06:50 -0400
To: aprssig@tapr.org
Message-ID: <9606072106.AA18773@dayton.wright.edu>

Rendered body type: text/plain

```
Hi there:
Remember that you can't use 12,17, and 30 meters for FD operations.
Gud luck.  -73- de Steve, N8TFD

University of Cincinnati ARC - W8YX
```

---

233. trip to San Antonio

From: Ron Reeves <reeves@christenson.com>
Date: Fri, 7 Jun 96 14:39 PDT
To: aprssig@tapr.org
Message-ID: <m0uS9Fh-0010d8C@vista.hevanet.com>
Rendered body type: text/plain

```
I will be taking a trip to San Antonio from June 16th - June 22nd.  Is
there any APRS activity in that area?  If so I would appreciate any
information the locals might feel inclined to share with me about freq's,
uproto, etc.  Please send it to me direct so as to not waste bandwidth on
the sig.
        I will have a portable setup complete with my new Garmin 45 (which the sig
helped me to choose, thanks again guys.)


Thanks Ron N7QXO

reeves@christenson.com
If you have the wrong answer, change the question.
```

---

234. Re: [APRSSIG:1688] Re: DOA PicoPacket

From: Kent V Hufford <khufford@erols.com>
Date: Fri, 07 Jun 1996 23:27:04 -0400
To: aprssig@tapr.org
Message-ID: <199606072326.TAA18120@smtp1.erols.com>
Rendered body type: text/plain

```
At 11:32 AM 6/7/96 -0500, you wrote:
>Last I checked, and this might have changed since MY Pico is pre-release, the
>many blinkies that we grew to love on the older TNCs are not there.  Does it
>talk to your computer?  That's a better test than a bunch of LEDs in some
>cryptic pattern...
>
>73, gerry
>ps: I'll ask Gwyn at Hamcomm this weekend.
>

I talked to Bill at Paccom today. He says what is wrong they sent me a 32k
chip instead of the 128k. He says that would cause only the CON lite to
lite. They put a new chip in the mail today...

thanks for the reply.

Kent
```

---

235. SMB to BNC adaptor for Trimble Ant

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Fri, 7 Jun 1996 20:00:58 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960607194910.39e741f4@popd.ix.netcom.com>
Rendered body type: text/plain

```
Pasternack has the necessary adaptor (SMB MALE on one side and BNC male on
other) to allow the trimble GPS antenna that PACCOMM sales to hook directly
to a Garmin 45.

The problem is that Pasternack requires a min order of $100.00.  Would
anyone be interested in going together for a group purchase?

The cost of the adaptor is $25.95 each plus shipping.

If anyone is interested or if anyone knows another source with a better deal
let me
know.

73,

Steve Hall - KK4PM
```

P.S. I don't want to cut of the SMB!

---

236. Re: [APRSSIG:1687] Documentation

From: lbush@eramp.net (Larry Bush)
Date: Fri, 7 Jun 1996 19:38:57 -0500
To: aprssig@tapr.org
Message-ID: <v02130500adde7a3d1cd5@[206.149.42.103]>
Rendered body type: text/plain

>I think this was asked before but i never seen an answer to the question. Is
>there any information avalable (Maybe from Bob hi) that would explain how to
>setup APRS and it's many different ways to run it. Sure would be great to
>have a
>manual available. Like what are all the keystrokes, and what do they do!.
>Also
>how does a person setup for mobile operations using a laptop (With ot without
>GPS, Doppler, How is a weather station setup etc etc. APRS is getting to a
>point
>where i have even seen Bob answer a message with (I will have to check
>that). I
>have read trough all the txt files and there realy isn't anything concrete. I
>wouldn't mind making up some maunuals, and making them available to those that
>feel a need for them, (LIKE ME)!. But of course i need the info first.
>This came
>to mind a while ago trying to setup for running GPS with my laptop, there
>realy
>is no step by step of anything in the readme directory. Bob do you have a list
>off all commands and their functions???.
>
>Bill KE4EER
>wnolle@ix.netcom.com
>ke4eer@amsat.org
>http://www.netcom.com/~wnolle

I second this idea. Had APRS for a week and havent figured it out. Put my
name on top of list to purchase this manual.

Larry W5NCD

---

237. Re: [APRSSIG:1681] Re: [Q] APRS on 7 or 14 MHz

From: n2czf@gate.net
Date: Fri, 7 Jun 1996 20:46:51 -0400
To: aprssig@tapr.org
Message-ID: <199606080046.UAA33738@osceola.gate.net>
Rendered body type: text/plain

On Fri, 7 Jun 1996, steve <steve@muskoka.com> wrote:
>near future at putting up a 6mtr digi. I need to know if there is a dual vhf
>tnc that has gate capabilites.
>
>Take care.....de Steve VA3HOI
>Steve Dubois VA3HOI
>CANWARN SPOTTER
>APARS & WINAPRS on 2 & 6 mtr's
>
Yes there is the Kantronics KPC-4 and MAYBE the old out of production KPC-2 TNC.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

238. Re: [APRSSIG:1704] SMB to BNC adaptor for Trimble Ant

From: Joe DeVille <jwdstu@westga.edu>
Date: Fri, 07 Jun 1996 20:49:51 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960608004951.0066d9f4@160.10.4.2>
Rendered body type: text/plain

At 07:15 PM 6/7/96 -0500, you wrote:
>
>
>
>Pasternack has the necessary adaptor (SMB MALE on one side and BNC male on
>other) to allow the trimble GPS antenna that PACCOMM sales to hook directly

```
>to a Garmin 45.
>
>The problem is that Pasternack requires a min order of $100.00.  Would
>anyone be interested in going together for a group purchase?
>
>The cost of the adaptor is $25.95 each plus shipping.
>
>If anyone is interested or if anyone knows another source with a better deal
>let me
>know.

I bought mine from Nemal Electronics for $26.25 plus shipping (about $4).
They got it to me here in GA in 2 days.  I don't have the number here, but
they are in 1-800 directory.

-----------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
West Georgia College         Secondary address:  bm160@freenet.carleton.ca
Carrollton, GA USA      Memberships/Affiliations: American Radio Relay League
                           Amateur Radio Emergency Service, Red Cross
                             Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

239. Re: [APRSSIG:1689] Re: Precision Mapping 2.0

From: Dale Seaburg <dseaburg@web-access.net>
Date: Fri, 07 Jun 1996 19:57:51 -0500
To: aprssig@tapr.org
Message-ID: <31B8D00F.40A3@web-access.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> J. Scott Ratchford sez:
> >
> > Has anyone written or currently writing a program to make APRS maps from
> > the Precision Mapping 2.0 CD?
> >
> > Short msg, Long reply?
>
> No, but I'm working on a GPS interface for PM2.0.4
>
> gerry

I was looking several days ago for a gps to PM i/f and stumbled
across this web-site:  http://www.justsoftworks.com/  check it
out for a beta copy of a GPS to PM 2.0 interface.

Dale.  KG5LT
```

240. APRS76c.zip now posted

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 7 Jun 1996 22:32:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960607222845.15429A-100000@arctic>
Rendered body type: text/plain

```
ALso 76to76c.zip is posted.  It fixes the WX wind bug I introduced since
version 76.

THere is also a 32 mile map of Stockton Calif.  My Wmaps is full so I
cannot ad it there.  WOuld someone please add CASTCKTN.map to the CAmaps
distribution... THanks.


ALso there is a NYwest that is centered on Rochester...

de wb4apr@amsat.org
```

241. Re: [APRSSIG:1687] Documentation

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 7 Jun 1996 22:41:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960607223428.15429B-100000@arctic>
Rendered body type: text/plain

```
On Fri, 7 Jun 1996, William Nolle wrote:
```

```
> Sure would be great to have a  manual available.
> Like what are all the keystrokes, and  what do they do!.
***  See HELP.txt  It completely defines every keystroke on every APRS screen

> how does a person setup for mobile operations using a laptop?
***  See MOBILE.txt and OPS.txt

> with GPS?          *** See GPS.txt
> with DOppler DF?   *** See DF.txt

> How is a weather station setup?  ***  See WX.txt

> Bob do you have a list  off all commands and their functions???.

APRSdos REPLY COMMENT:  Absolutely.  It is HELP.txt

If you have a question about APRS, simply do a DIR README.  That will
make a list of all the README files.  Just view the file with the name of
the subject you are interested in...

de wb4apr@amsat.org
```

---

242. Symbols on maps?

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 7 Jun 1996 22:36:41 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9606072241.A20895-a100000@acme>
Rendered body type: text/plain

```
Are any other map makers using symbols to "locate" permanent objects
(Weather stations, airports, town centers, etc) by making them labels?
I've been doing it for about a year, and haven't really had a chance to
look at other map maker's works. (BTW Bob, thanks for changing the "Z" from
a plain box to a "window".....I now have a macro set up in my word
processing program to change "$Z6 to $/6" for town centers.. big grin....)
         Any suggestions for color & symbol type standards for objects
(So that they don't get confused with object place on by users)?

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address:  39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
```

---

243. Re: [APRSSIG:1695] NE PA a go for FD

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 7 Jun 1996 22:47:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960607224440.15429D@arctic>
Rendered body type: text/plain

```
On Fri, 7 Jun 1996, Al Zelna, N3KAE wrote:

> Members of the XXXX radio club will
> be participating once again for this year's FD.  We will be doing either
> a 3A or 4A effort for the weekend, and plan to utilize VHF APRS and
> keyboard Packet.

APRSdos REPLY COMMENT:  I say again, we need a volunteer on this SIG to
collect and SUMMARIZE special event announcements.  Any volunteers?
(actually since everyone is doing FD, this is not needed for FD, but
we do need a SKED KEEPER on this SIG, hi hi

de wb4apr@amsat.org
```

---

244. DOCUMENTATION

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Fri, 7 Jun 1996 19:48:33 -0700
To: ke4eer@amsat.org
Cc: aprssig@tapr.org
Message-ID: <199606080248.TAA04171@poseidon>
Rendered body type: text/plain

```
Hi Bill,
    Your sig msg on DOCUMENTATION 6/7/96 ...

A recient Packet BBS message, 16-APR 03:21 from N2ZRC titled "How to set up
APRS" appeared and addressed APRS@ALLUS on the Packet system.
Art Booten/N2ZRC is here on this net.

  Tom Griffin/N7ZKL sent out a long APRS Overview dated 8/5/95 on the Packet
```

```
BBS system also, QSO with him for a copy.

   The APRS program README.DIR and it HELP.TXT file and all the others give you
ample info to operate the program.

   The Phoenix LLBBS N7QVU @ 602-938-7528 has a Dedicated APRS files and
numerous individual HELP files origianted by George/W8FWF on how to operate
APRS.

   If you get on Packet BBS system send me your HOME BBS and I can send
you these files, I have them on disk, but cannot get over to this system
and they are too long to type individually.

      Hope this helps you out. 73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.
NOAM (wbliss@coastside.net)
NNNN
WBB/WB6LPG
```

---

245. Re: [APRSSIG:1705] Re: Documentation

From: ku0g@sprynet.com
Date: Fri, 7 Jun 1996 20:39:31 -0700
To: aprssig@tapr.org
Message-ID: <199606080339.UAA09377@m1.sprynet.com>
Rendered body type: text/plain

```
Just for the record, all of the APRS README documents are in the process of
being converted over to web pages.  I am also following the process with a
hyper-text document, but that is probably six weeks away from completion.  If
everybody can be patient, I'll make it available ASAP....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

246. Re: [APRSSIG:1689] Re: Precision Mapping 2.0

From: rsellers@misha.net (Roger Sellers)
Date: Sat, 8 Jun 1996 00:14:08 -0500
To: aprssig@tapr.org
Message-ID: <199606080514.AAA07691@misha.net>
Rendered body type: text/plain

```
>J. Scott Ratchford sez:
>>
>> Has anyone written or currently writing a program to make APRS maps from
>> the Precision Mapping 2.0 CD?
>>
>> Short msg, Long reply?
>
>No, but I'm working on a GPS interface for PM2.0.4
>
>gerry
>
Supposedly JustSoftworks just released a BETA GPS interface program. I
downloaded it and it does appear to run at least. Since I dont have a CD-Rom
on my laptop I cant get the software to run on my laptop yet. I put an
inquiry to them to see if I can run the Precision Mapping somehow without a
cd. If I can get it to work, I'll let you know.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

247. Re: [APRSSIG:1704] SMB to BNC adaptor for Trimble Ant

From: rsellers@misha.net (Roger Sellers)
Date: Sat, 8 Jun 1996 00:14:34 -0500
To: aprssig@tapr.org
Message-ID: <199606080514.AAA07693@misha.net>
Rendered body type: text/plain

```
>Pasternack has the necessary adaptor (SMB MALE on one side and BNC male on
>other) to allow the trimble GPS antenna that PACCOMM sales to hook directly
>to a Garmin 45.
>
>The problem is that Pasternack requires a min order of $100.00.  Would
>anyone be interested in going together for a group purchase?
```

```
>
>The cost of the adaptor is $25.95 each plus shipping.
>
>If anyone is interested or if anyone knows another source with a better deal
>let me
>know.

I posted this about a month ago, I bought a SMB-SMA adaptor and SMA-BNC
adaptor at a hamfest in Sandwich, Il. I got it from a guy and he said he
has/could get more. He wanted about $10 for them. Here's his info if you
want to check him out.
Ron Weiser
Telesciences Transmission Systems
171 N. Covington Drive
Bloomingdale, Ill. 60108-3113
(708)307-5900
     307-6062 FAX
     307-3815 Direct Line

Hope he still has some. I was able to check them and they worked fine.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

248. Re: [APRSSIG:1689] Re: Precision Mapping 2.0

From: Fred Quarles <fredq@bihs.net>
Date: Sat, 08 Jun 1996 00:26:45 -0500
To: aprssig@tapr.org
Message-ID: <31B90F15.BEB@bihs.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> J. Scott Ratchford sez:
> >
> > Has anyone written or currently writing a program to make APRS maps from
> > the Precision Mapping 2.0 CD?
> >
> > Short msg, Long reply?
>
> No, but I'm working on a GPS interface for PM2.0.4
>
> gerryHi Gerry, checkout the GPS beta version for Percision Mapping 2.0.4 if
you have not seen it yet at:

http://www.justsoftworks.com/pmgps.html#beta

See you later...Fred, KC5HHN
```

---

249. Map Credits

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 08 Jun 1996 00:34:27 -0700
To: aprssig@tapr.org
Message-ID: <31B92D03.1FB@ix.netcom.com>
Rendered body type: text/plain

```
After downloading a mapfile called BSRGMAPS.ZIP from Mindspring.com i found
a readme file included that i found rather in poor taste. Within this file
are many of my detailed maps for Huntsville Alabama yet the credit for
making these maps was changed from one callsign to another. In fact the
text that was in the file was actually written by me except for the KE4ROC
call that was changed, it states as follows.

"Many people have worked HARD on these maps. Some of them are N4QEA, N4NEQ,
and KE4ROC."
    ^^^^^^ was changed

KE4ROC is a very good friend of mine and has made only one map in his whole
life, and that map was not even in the distribution. In other words KE4EER
was changed to KE4ROC. Guys i have made over 800 maps. I worked hard and
many hours to create these maps, i have also made maps for many users for
just the asking, i cannot believe someone (And i know who it is) would
stoop so low as to change someones callsign within a text file giving
another person credit for the maps someone else made. I guess i will be not
be making many maprs anymore.
```

Bill KE4EER
wnolle@ix.netcom.com
http://www.netcom.com/~wnolle

---

250. Re: [APRSSIG:1714] Re: Documentation

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 08 Jun 1996 00:39:50 -0700
To: aprssig@tapr.org
Message-ID: <31B92E46.6347@ix.netcom.com>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Just for the record, all of the APRS README documents are in the process of
> being converted over to web pages. I am also following the process with a
> hyper-text document, but that is probably six weeks away from completion. If
> everybody can be patient, I'll make it available ASAP....
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com---------------------

Hi Jim, yes i have looked at these on your webpage and i have to say they look
GREAT. Does this mean that after you change them they are downloadable in tetx
format?. I'm not to up on internet lingo (What does the Hyper-text do).
Keep up the good work.

Bill KE4EER

---

251. Balloon Launch

From: Miami Network <0004818186@mcimail.com>
Date: Fri, 7 Jun 96 20:13 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <52960608011325/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

I have posted on my calendar a Balloon launch schedule for tomorrow
that is supposed to be equipped with TNC & GPS? Can someone confirm?

73, Seymour, KC4NMY
Miami, FL
miaminet@mcimail.com

---

252. Re: [APRSSIG:1716] Re: SMB to BNC adaptor for Trimble Ant

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sat, 8 Jun 1996 04:40:28 -0500
To: aprssig@tapr.org
Message-ID: <199606080940.EAA14146@tbc2.tbcnet.com>
Rendered body type: text/plain

Hey Roger,
Do you know that you and Paul aren;t showing up on the screen anymore?
Haven't been for a couple of weeks.

73 barry

At 00:22 6/8/96 -0500, you wrote:

>I posted this about a month ago, I bought a SMB-SMA adaptor and SMA-BNC
>adaptor at a hamfest in Sandwich, Il. I got it from a guy and he said he
>has/could get more. He wanted about $10 for them. Here's his info if you
>want to check him out.
>Ron Weiser
>Telesciences Transmission Systems
>171 N. Covington Drive
>Bloomingdale, Ill. 60108-3113
>(708)307-5900
>   307-6062 FAX
>   307-3815 Direct Line
>
>Hope he still has some. I was able to check them and they worked fine.
>
>73,
>

```
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@misha.net
>E-Mail Work: rsellers@snds.com
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

253. Re: [APRSSIG:1720] Balloon Launch

From: melliott@ocslink.com
Date: Sat, 8 Jun 1996 05:17:47 -0500
To: aprssig@tapr.org
Message-ID: <199606081017.FAA06930@ocslink.com>
Rendered body type: text/plain

```
On Sat, 8 Jun 1996, Miami Network <0004818186@mcimail.com> wrote:

>I have posted on my calendar a Balloon launch schedule for tomorrow
>that is supposed to be equipped with TNC & GPS? Can someone confirm?
>
>
>73, Seymour, KC4NMY
>Miami, FL
>miaminet@mcimail.com
>
>
>
          Confirmed!  TODAY.....June 8th

CIBA Flt. 4  Launch Time: 08:00 CDT from Washington, Il.
Site Coord. 4043.048 N   08922.580 W
Freq.  GPS Data on (APRS) 145.79 Mhz  N9WST-11
       ATV color video  427.000 Mhz (cable ch. 58) N9XHJ/AM
       Beacon (Natl. Fox freq) 146.565 Mhz  WB9NKP
       Special Event Station 7.250 Mhz  AA9MK

Please let us know if you see us!>


       _   ________________________________________________   _
      / ) |                                                | ( \
     / /  |    Mark L. Elliott, N9WST                      |  \ \
   _( (_  | _  e-mail: melliott@ocslink.com              _ |  _) )_
  (((\ \> |/ ) Peoria, Illinois                         ( \| </ /)))
  (\\\\ \_/ /  Central Illinois Balloon Association      \ \_/ ////)
   \       /   WWW: http://www.ocslink.com/~melliott      \       /
    \    _/                                                \_    /
    /   / |________________________________________________| \   \
   /   /                                                      \   \
```

254. of interest ICOM 706 owners

From: KD4EMI@aol.com
Date: Sat, 8 Jun 1996 09:48:48 -0400
To: aprssig@tapr.org
Message-ID: <960608094847_322021514@emout08.mail.aol.com>
Rendered body type: text/plain

I have finally completed my latest stamp trick... Posted here FYI

If you have a ICOM 706 and want to operate aprs on HF and VHF it can be a problem. You have to manually change bands before the radio xmits.

My basic stamp now can control your 706 (or any radio with rs2332).
All it really does is switch the bands or freq on your radio. Another application is if your running an HF rig mobile with an autotuner, It can switch from 30 meters to 20 meters to 40 meters for you automatically.

Just program your tnc to xmit at a certain interval and tell the stamp when to change freqs. I am working on a way for the stamp to read the output of the tnc (KAM) and automatically change the band depending on if the kam xmits hf or vhf, having some difficulty with that though.

So anyhow, should you want to operate your 706 and not have radios everywhere, the basic stamp should work.
OR
if you want to operate on several freqs and dont want to manually change the freq, the stamp will work there also.

Any basic stamp ideas are welcome..Im getting bored again.

Oh, also, I didnt notice but is there a MAN icon in aprs..? I made a
"MANPACK" unit and thought it might be neat to have a little man icon and
also a horse icon. (demo for the police dept mounted patrol ...)
Not critical, perhaps on a later version..

Later...
Mike KD4EMI@AOL.COM

---

255. Re: [APRSSIG:1711] Symbols on maps?

From: rwf <rwf@mindspring.com>
Date: Sat, 08 Jun 1996 09:52:44 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960608135244.00747548@mindspring.com>
Rendered body type: text/plain

John,

I added some local (repeater site) mountains to my maps and couldn't figure
out what symbol to use.
I ended up using the blue dot so that it would be less obtrusive.

Ralph

John Baum wrote:
>   Are any other map makers using symbols to "locate" permanent objects
>(Weather stations, airports, town centers, etc) by making them labels?
>I've been doing it for about a year, and haven't really had a chance to
>look at other map maker's works.

---

256. Re: [APRSSIG:1687] Documentation

From: Miami Network <0004818186@mcimail.com>
Date: Sat, 8 Jun 96 05:39 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <15960608103951/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

I had very good success using Word Perfect and importing the
doc files. I called each chapter the name of the file in the
README.TXT Example Chapter #10 was called Symbols.

There is a program utility in word perfect that allows you to put
in key words, example TNC, TAPR, HSP, WX, etc. etc. etc. etc.
I had a very large key word index by just going thru all of the
.TXT files and entering them.

Word Perfect then allows you to SORT this file alphabetically and
it will read thru the entire README and produce a rather elegant
Table of Contents and INDEX and cross reference the key word
to the page # in the document.

This utility is rather industry standard and I guess can be found
in most word processing programs.

73, Seymour, KC4NMY

---

257. Re: [APRSSIG:1717] Re: Precision Mapping 2.0

From: n2czf@gate.net
Date: Sat, 8 Jun 1996 09:30:53 -0400
To: aprssig@tapr.org
Message-ID: <199606081330.JAA40338@osceola.gate.net>
Rendered body type: text/plain

Ok People, what is the catch. CD-ROM Mapping and a GPS interface for free (beta)
at what is it $39 ?? Plus a free CD with either the WHite Pages or Yellow
pages...

Many have seen the DeLorem stuff, what is the difference in data quality if any?
As far as I know most if not all of the data is the same since it comes from the
same source. This sounds too good to be true since MapExpert comes out to be
about $300 once you get the GPS Add On shipped to you and you buy the actual
MapExpert CD.

If it is as good as it sounds it seems to be that DeLorem will be suffering from
a short life span!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

258. Re: [APRSSIG:1704] SMB to BNC adaptor for Trimble Ant

From: n2czf@gate.net
Date: Sat, 8 Jun 1996 09:03:30 -0400
To: aprssig@tapr.org
Message-ID: <199606081303.JAA21558@osceola.gate.net>
Rendered body type: text/plain

I have received several of their catalogs in the past and they do have a lot of stuff! BE AWARE I think that their prices are very high, I may be wrong since I have never priced this particular adapter but I would suggest to look a little closer before purchasing.

Call up some 2-way radio shops and see if you can find one that use connectors from RF Industries, they are common. Their connectors are of good quality and they have always had everything that I need. I know that their are several users on the sig that work at 2-way shops and they may be able to get them for you. I work at one but I am not in the position to purchase large quantities of these without a markup and I really do not want to charge sig members a markup so I am going to need to pass on any offer.

BTW just look at the RG-58/U jumpers that Pastranack sells, I think a 10ft jumper with "N" connectors is $30 or more.. Let's get real here!

On Fri, 7 Jun 1996, Steve Hall <steve.hall@lerc.nasa.gov> wrote:
>
>
>
>Pasternack has the necessary adaptor (SMB MALE on one side and BNC male on
>other) to allow the trimble GPS antenna that PACCOMM sales to hook directly
>to a Garmin 45.
>
>The problem is that Pasternack requires a min order of $100.00. Would
>anyone be interested in going together for a group purchase?
>
>The cost of the adaptor is $25.95 each plus shipping.
>
>If anyone is interested or if anyone knows another source with a better deal
>let me
>know.
>
>73,
>
>Steve Hall - KK4PM
>
>
>P.S. I don't want to cut of the SMB!
>
>
>
>

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

259. TNC for APRS

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Sat, 08 Jun 1996 09:39:00 -0500
To: aprssig@tapr.org
Message-ID: <199606081441.JAA06278@sparc.isl.net>
Rendered body type: text/plain

Just received my GPS20. Eventually, I suspect I'll want to buy one of the newer TNCs that directly support APRS frames. What's the "list's" opinion on the various models. Probably will go with something simple, like the PK12, KPC3, or Pico. What's the Pico run with the extra RS232? (Nice to see their web pages have more information now.)

Thanks and 73.
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

260. M-P-H

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 08 Jun 1996 10:01:59 -0700
To: aprssig@tapr.org
Message-ID: <31B9B207.40EF@ix.netcom.com>
Rendered body type: text/plain

Bob, (or anybody that knows Hi). Did something change in 76c where the range rings don't work like they did before with the M-P-H. Right now when i do a M-P it comes up with a menu bar, but when i pick P for PHG all it shows is the range ring around my own station, the other stations don't have a range ring untill they beacon the next time.

Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle

261. Re: [APRSSIG:1711] Symbols on maps?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 8 Jun 1996 11:39:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960608113635.19772A@arctic>
Rendered body type: text/plain

On Fri, 7 Jun 1996, John Baum wrote:

> Are any other map makers using symbols to put permanent objects on maps?
> Any suggestions for color & symbol type standards for objects

APRSdos REPLY COMMENT: I would not use color 13 violet, since all objects put on the map by uplinking will be violet.

Even if they are the same color, tho, SYMBOLS on maps are labeled to the left and OBJ's uplinked to the map are lableled to the right...

de wb4apr@amsat.org

262. Re: [APRSSIG:1718] Map Credits

From: rwf <rwf@mindspring.com>
Date: Sat, 08 Jun 1996 11:40:47 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960608154047.00768748@mindspring.com>
Rendered body type: text/plain

<SPOILER>

If you are tired of following William Nolle's (KE4EER) hate campaigns , please Hit your Delete or Next button now. Otherwide read on for my response.

My Eudora Pro filters all messages from this individual to the trash, but someone else recently forwarded me a copy of another libelous message by William Nolle, KE4EER. In it, he alleges that a map distribution contains a README file written by him and not attributed as such. This person has attacked me in public before and I chose not to respond in public, thereby lowering myself to his level. This time, though, it is a subject that is near and dear to our hearts: APRS.

Authorship of my readme files is not and "claimed" by anyone, including myself, with the exception of APR's and probably the Sproul's files included in their distribution. I have written my readme files and choose to include whomever I wish in my "thank yous". In some cases, I include WB4APR's little "getting started" file so folks know how to unzip the program. Recently, I have even changed that. This is because by the time someone unzips an FTP'd copy of APRS, it is too late to keep from having zillions of files added to the wrong directory. My readme file tells how to unzip the APRS program and maps, which I have encrypted with a password found by reading the readme file. One HAS to read the readme to get the password to unzip the APRS ZIP file. (Bob- this suggestion may help you,too)

If someone gets his feelings hurt because I left their little "thank you" off, then I'm sorry. Maybe you should not venture out into the real world! It is a jungle out here. I have NEVER gotten a thank you for my contributions, nor do I want one. This is my HOBBY! I have registered over 45 copies of APRS for Bob. I think this shows my support.

As to maps:

Many people have been creating maps from USGS CD data using one of several simple conversion programs. As I understand it, the data are provided by the USGS and they probably claim rights to it. I do not believe anyone else can claim rights to a map derived from this source..

There is a designated space in APRS maps for comments. If an Author/Convertor of a map wishes to place comments there, including a copyright notice (for original works), then I strongly suggest that they do so. KE4ROC has done this in his maps of Alabama.

As a person with commercial software on the market, I will give you a little background on copyrights:

I'm not a lawyer and this is not intended to be legal advice.

All original work is "born" with a copyright. It is inherent and exists until the author fails to "protect" his copyright.
If you plan to take credit for something, then you have best include a copyright notice in your work. It should include the date and your name. You should also place the phrase "All Rights Reserved" alongside your copyright notice. This helps reinforce your claim in certain circumstances (mostly internationally). These are several ways to "protect" your copyright.

Once you have done this, you must vigorously protect your copright by making sure that all appearances of your work continue to contain this information.

Note that I am not referring to "trade marks", which may be registered. And have nothing to do with copyrights. Nor am I referring to Patents, which must be issued and registered by the Government.

I have never seen an APRS map that has had any of these steps taken to protect it. As I said before, I think that any map from USGS data affords no claim to the person who used a conversion program to convert it. (other than a nice "thank you" if folks want to do it.)

Original maps *should* have a statement in the comments area indicating the author's wishes. If a person writes a document, the same guidelines apply. Once a file has been released by its author unprotected, to a public forum, then the genie is out of the bottle. You can't undo it. You have failed to "protect" your copyright. Too Bad.

As far as my distribution of APRS maps goes, It will remain as it stands. I am free to mention or thank anyone I wish and will continue to do so. Nothing in it has a protected copyright and I will not distribute anything that does. The APRS program is also available at my site and is intact as Bob released it. By the way, I do thank Bob and the other authors who write the toys we play with.

Now, let's go play with APRS and all of the pretty maps!

Ralph

---

263. Precision Mapping GPS WORKS!

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 08 Jun 1996 15:41:30 -0400
To: aprssig@tapr.org
Message-ID: <199606081541.LAA06307@smtp2.erols.com>
Rendered body type: text/plain

>From a lead here on the sig, I downloaded the Precision Mapping GPS beta 1.03 from their web site at www.justsoftworks.com. I bought their Precision Mapping 2.0 for $19 a couple of months ago. That is a good program. IT has zoom from the whole US view DOWN to YOUR street level. Move around on your street, it moves with you, compass and all. Good windows interface and too.

NOW, the GPS beta is even better. Just plug in your NEMA 183 GPS in the serial port and it puts you where you are. Has smooth zoom, gives the sat views and levels just like dosAPRS does, but more graphicly.

If you have a laptop with a cd-rom drive this works great. They spent some time writting this program properly. Has good doc's, online. You can set many of the parameters. Yea, if you run a 640k dos laptop or even a windows laptop without a cd, this is not for you. ..But in the future we ALL will have to have a laptop with a cd, if for no other reason than to load new software (I too started in 1985 with LAPLINK).

This program shows what CAN be done with WINDOWS (not windoze).

Now, just wish the Spriol brothers and Precision Mapping would join forces. Seems PM has worked out the windows issues. The brothers have spent many hours working on their WINAPRS versioN. (I'm still waiting for a version AFTER 1.000)

Maybe Bob could team up with PM.....naw...

Kent

KQ4KK

---

264. Stamp Project KD4EMI

From: Miami Network <0004818186@mcimail.com>
Date: Sat, 8 Jun 96 10:50 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <61960608155016/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

Congrats in order Mike for a very innovative accomplishment with the stamp!

Regarding your current application to detect a Xmit on HF or VHF merely watch the PTT line on each radio and designated two PINS on the PORT of the Stamp as HF and VHF when it sees a signal present it will now that the PTT has been pushed.

I don't know how fast the Stamp responds but depending on what you are trying to do there may be a work around!

73, Seymour, KC4NMY

---

265. Re: [APRSSIG:1726] Re: Precision Mapping 2.0

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 08 Jun 1996 16:12:27 -0400
To: aprssig@tapr.org
Message-ID: <199606081612.MAA14236@smtp1.erols.com>
Rendered body type: text/plain

It works. I bought PM 2.0 for $19 at a computer show. It is great.

The beta works great WITH a GPS. However, the beta is good till the end of JUL 96.

But since these guys sold their 2.0 for $19... their GPS version cannot be

```
$100ss?

Kent

KQ4KK




At 09:30 AM 6/8/96 -0500, you wrote:
>Ok People, what is the catch. CD-ROM Mapping and a GPS interface for free
(beta)
>at what is it $39 ?? Plus a free CD with either the WHite Pages or Yellow
>pages...
>
>Many have seen the DeLorem stuff, what is the difference in data quality if
any?
>As far as I know most if not all of the data is the same since it comes
from the
>same source. This sounds too good to be true since MapExpert comes out to be
>about $300 once you get the GPS Add On shipped to you and you buy the actual
>MapExpert CD.
>
>If it is as good as it sounds it seems to be that DeLorem will be suffering
from
>a short life span!
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>Right now I'm having amnesia and deja vu at the same time. I think I've
>forgotten this before.                  Steven Wright
>
>
>
>
>
```

266. Re: [APRSSIG:1724] Re: Symbols on maps?

From: Carl Taylor <carlt@icanect.net>
Date: Sat, 8 Jun 1996 13:11:24 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606081711.NAA10839@foo.icanect.net>
Rendered body type: text/plain

```
At 09:09 AM 6/8/96 -0500, rwf wrote:
>John,
>
>I added some local (repeater site) mountains to my maps and couldn't figure

>out what symbol to use.
>I ended up using the blue dot so that it would be less obtrusive.
>
>Ralph
>
>Since when have you been unobtrusive???????????????     ==CARL==
>
> John Baum wrote:
>>          Are any other map makers using symbols to "locate" permanent objects
>>(Weather stations, airports, town centers, etc) by making them labels?
>>I've been doing it for about a year, and haven't really had a chance to
>>look at other map maker's works.
>
>
>
Johann O Jokulsson     |  http://www.iti.is
System Administrator |
Technological Institute of Iceland      tel: +354 - 587 - 7000
Keldnaholti, IS-112 Reykjavik   fax: +354 - 587 -  7409
```

267. Re: [APRSSIG:1725] Re: Documentation

From: Carl Taylor <carlt@icanect.net>
Date: Sat, 8 Jun 1996 13:12:52 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606081712.NAA10955@foo.icanect.net>

Rendered body type: text/plain

```
At 09:09 AM 6/8/96 -0500, Miami Network wrote:
>I had very good success using Word Perfect and importing the
>doc files.  I called each chapter the name of the file in the
>README.TXT Example Chapter #10 was called Symbols.
>
>There is a program utility in word perfect that allows you to put
>in key words, example TNC, TAPR, HSP, WX, etc. etc. etc. etc.
>I had a very large  key word index by just going thru all of the
>.TXT files and entering them.
>
>Word Perfect then allows you to SORT this file alphabetically and
>it will read thru the entire README and produce a rather elegant
>Table of Contents and INDEX and cross reference the key word
>to the page # in the document.
>
>This utility is rather industry standard and I guess can be found
>in most word processing programs.
>
>
>73, Seymour, KC4NMY
>
>
>Who cares??????????
>
>
Johann O Jokulsson     |  http://www.iti.is
System Administrator |
Technological Institute of Iceland      tel: +354 - 587 - 7000
Keldnaholti, IS-112 Reykjavik   fax: +354 - 587 -  7409
```

---

268. Re: [APRSSIG:1719] Re: Documentation

From: ku0g@sprynet.com
Date: Sat, 8 Jun 1996 11:01:34 -0700
To: aprssig@tapr.org
Message-ID: <199606081801.LAA13129@m1.sprynet.com>
Rendered body type: text/plain

```
Hypertext Markup Language is the standard for webpages.  It also refers to the
kind of help files you find in Windows where you can click on a highlighted word
and it jumps you to that section...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

269. APRS Quick-Ref

From: Les Blalock <lcb911@apex2000.net>
Date: Sat, 8 Jun 1996 14:25:19 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960608142514.13275236@apex2000.net>
Rendered body type: text/plain

```
I have an ASCII text file that can be printed out for a 2 1/2 page APRS
QuickReference guide.  It's about 8K text/2K zipped.  Should I post it as a
message here on the SIG, attach it to a post or just offer via direct e-mail
to individuals?

Most command functions/commands are listed alphabetically and show the
keystroke/menu sequence to accomplish the desired function.  Most entries
also show page numbers referring you to pages in the HELP.TXT for additional
information.  (This assumes you print HELP.TXT with one-inch top/bottom
margins.)

I originally made this quick reference at about version 6.7 but have kept it
pretty much up-to-date through 7.4 or so.  If you want a copy, just ask.
Feel free to update it, add to it, etc. just don't send me complaints - you
get what you pay for.

Les/N5KOA
```

---

270. Re: [APRSSIG:1731] Re: Map Credits

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 08 Jun 1996 14:39:55 -0700
To: aprssig@tapr.org
Message-ID: <31B9F32B.542F@ix.netcom.com>
Rendered body type: text/plain

```
rwf wrote:
>
> There is a designated space in APRS maps for comments. If an
> Author/Convertor of a map wishes to place comments there, including a
> copyright notice (for original works), then I strongly suggest that they do
> so.  KE4ROC has done this in his maps of Alabama.
> Again like i stated in the message KE4ROC has only made one map in his whole
life, and i even added a lot of GPS tracks to that one. And i can assure you it
did not have a stupid copyright on it. But since you posted this message (By
the way your name wasn't mentioned) Again i say my name was erased and replaced
with Ed's KE4ROC's call. Nothing was said about copyright laws just that it's
not right to take someone elses call and replace the original persons call
that made all the maps. You have a new word for it i see (Map converter) if
that's what you call doing this then great i will do that to all yourt maps
also, And by the way your right you don't know anything about copyright laws.

Bill KE4EER
```

---

271. Re: [APRSSIG:1737] Re: Documentation

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Sat, 8 Jun 1996 14:44:20 -0500
To: aprssig@tapr.org
Message-ID: <199606081944.OAA04513@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
At 01:08 PM 6/8/96 -0500, ku0g@sprynet.com wrote:
>Hypertext Markup Language is the standard for webpages.  It also refers to the
>kind of help files you find in Windows where you can click on a highlighted
word
>and it jumps you to that section...

Hmmm, those are hypertext, but they're not HTML.  HTML is optimized for
transfer over the Internet, while the Windows Help File format is optimized
for on-disk usage.  :-)  -rt
```

---

272. (no subject)

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Sat, 8 Jun 1996 11:02:33 -0400
To: <aprssig@tapr.org>
Message-ID: <199606082003.PAA25655@tapr.org>
Rendered body type: text/plain

```
Hi Hi all,
        Newbie question to follow..........

        I'm new to this and been listening very carefully for a couple of weeks,
what I would like to know is, what is the minimum packet setup ness. for
the GPS.  What I mean is I saw a small TNC I think it was the Pico- Pak or
somthing like that...it was only about $50.00...... I'm not very
interested in packet BBS'ing .... but was wondering if 1200 bps is fast
enough or do i need 2400 or 9600?  And if 1200bps is god for APRS GPS
could I also use it for packet mail?

        Thanks..........
--
 __[]_______
{___________}
Rick O'Hearn
rick_o@jericho.com
KF4CDO
36.8N/76.1W
```

---

273. Re: [APRSSIG:1733] Stamp Project KD4EMI

From: KD4EMI@aol.com
Date: Sat, 8 Jun 1996 16:13:31 -0400
To: aprssig@tapr.org
Message-ID: <960608161329_322257219@emout13.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-08 13:18:46 EDT, you write:

>
>Regarding your current application to detect a Xmit on HF or
>VHF merely watch the PTT line on each radio and designated
>two PINS on the PORT of the Stamp as HF and VHF when it
>sees a signal present it will now that the PTT has been
>pushed.
>
```

>I don't know how fast the Stamp responds but depending on
>what you are trying to do there may be a work around!
>
Thanks for the suggestion...Tried it and it chops off some of the
characters...It isnt quite fast enough..Im going to try to play with a super
long txdelay though and see if that will work.. Perhaps with a long delay I
could get it to work. Otherwise, yes, I can wire the stamp to the XMIT LED
and sense which is operating.   Will keep you posted.
MIke
KD4EMI@AOL.COM

---

274. KD4EMI& basic Stamps

From: n2czf@gate.net
Date: Sat, 8 Jun 1996 17:06:54 -0400
To: aprssig@tapr.org
Message-ID: <199606082106.RAA65058@osceola.gate.net>
Rendered body type: text/plain

Now this has some good possibilities for HF APRS! I remember a few years ago
several PACTOR BBS's were programed up to not only move from band to band
depending on the time but also to scan.

Take for instance 40M is good during the morning and so is 80M, 30 meters is
great in the afternoon and early evenings and 80M is good late at night again
barring bad QSB. How about figuring out how to make the stamp keep time and then
having a time table change the rig's band depending on what you feel the best
band is for the time of year.

Another possibility is the scan idea, would be quite crazy and maybe not good
for APRS but how about changing bands at a good rate of speed, and if it notices
a signal have it stop for a predetermined ammount of time. I think that many
rigs will supply S-Meter info on the RS-232 port. If the PTT keys in this time
period then have the scan stop and hold for a longer period of time (in case a
connect is initiated or a ACK is waiting).

On Sat, 8 Jun 1996, KD4EMI@aol.com wrote:
>I have finally completed my latest stamp trick... Posted here FYI
>

>if you want to operate on several freqs and dont want to manually change the
>freq, the stamp will work there also.
>
>Any basic stamp ideas are welcome..Im getting bored again.
>

>Later...
>Mike KD4EMI@AOL.COM
>
>
>
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

275. CIBA Balloon Flight

From: ku0g@sprynet.com
Date: Sat, 8 Jun 1996 15:56:20 -0700
To: aprssig@tapr.org
Message-ID: <199606082256.PAA25013@m1.sprynet.com>
Rendered body type: text/plain

Well, in spite of being deathly ill today (24 hr. flu I guess), when I read the
about the balloon launch today, I went to the 256 mile range and sure enough,
there was N9WST-11 plain as day!!! I'll try replaying the log files from today
and get a report out on altitude when first seen/last seen, time of acquisition,
etc. Right now I'm going back to bed (again)...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

276. Re: [APRSSIG:1743] KD4EMI& basic Stamps

From: KD4EMI@aol.com
Date: Sat, 8 Jun 1996 19:13:09 -0400
To: aprssig@tapr.org
Message-ID: <960608191308_322376783@emout19.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-06-08 18:08:38 EDT, N2CZF writes

>
>Take for instance 40M is good during the morning and so is 80M, 30 meters is great in the afternoon and early evenings and 80M is good late at night again barring bad QSB. How about figuring out how to make the stamp keep time and then having a time table change the rig's band depending on what you feel the best band is for the time of year.
>

This would take 3 lines of code. The newer stamps (which I use) have a battery backed-up real time clock. Not a problem.

>Another possibility is the scan idea, would be quite crazy and maybe not good for APRS but how about changing bands at a good rate of speed, and if it notices a signal have it stop for a predetermined ammount of time. I think that many
>rigs will supply S-Meter info on the RS-232 port. If the PTT keys in this
>time
>period then have the scan stop and hold for a longer period of time (in case
>a
>connect is initiated or a ACK is waiting).

Im having a great deal of trouble reading the tnc code...I suspect this can be done, I just am still working on it.   It'll hit eventually. Im gonna have to figure out a way to make the stamp look at the code and switch freqs...Thats really rough..Will talk to the stamp geeks and see whats up with that. It would be very easy to just switch freqs every few hours. If you use an autotuner, you could go anywhere you can tune your antenna. Perhaps this would be much easier to code on a home computer...
I recieved a few private mails with ideas for the stamp. I'll list them and see what you guys think...

#1 Have the stamp alert you when someone connects to your tnc...
(not a problem) more code...can be done in an hour...

#2 Automatically sends acks to the aprs 1 liners that people can send you, and store the msgs in memory.

Again, reading the tnc output..Once I figure that out, I can program the stamp to send the acks, save the msgs and autosend them to the mailbox as a msg.   I think this is possible. Therefore, stand alone trackers add a stamp to their setup You add stamp, and when someone send you a one liner, they get an ack and all one liners get sent to your mailbox as a msg. Should be possible.

#3 Listen to the radio, deciede when no one is hearing you (like aprs tells you "check your path, no digipeat heard") and alerts you.
Again...Im not sure...I may need to go to the single board computer for this. There is a 8088 (I think its the old V chip) single board computer thats about 6"X6". Can look into that and see what it can do.

FYI stamp chip, daughterboard, and accesories have run me about $300.00 But most of this can be trimmed down.   I think the "END USER" system should be around $125.00.

That adds quite a bit of cash to a tnc !   IF we go with a board that really has brains, price goes up even more.
What I want to see is a small screen output of pertanent info, and a small aprs display on my dash.   This is what all this play is leading to...

The UTLIMATE set up is : (for me)

APRS running on a small display like the SONY GPS system that tells you how to get from point a to point b.
OR
APRS running on a display like my fishfinder has.. Dedicated butons for XMIT POSITION, XMIT BEACON, LIST HEARD, ZOOM IN/OUT
etc......
Like the song goes "To dream the impossible dream"
Mike
KD4EMI@AOL.COM

277. CIBA Balloon Flight, pt. 2...

From: ku0g@sprynet.com
Date: Sat, 8 Jun 1996 16:14:25 -0700
To: aprssig@tapr.org
Message-ID: <199606082314.QAA27577@m1.sprynet.com>
Rendered body type: text/plain

```
Just play my track files from today....Here's the result..

N9WST-11 first seen here at 0940 CDT, Altitude 55455 at
4108.56N x 8926.53W.

Tracked to maximum altitude of 82226 at 1040 CDT.  Last seen at 4106.62N x
8941.35W.  Assuming that balloon burst at this point and descended rapidly as no
other posits were received from then on...

That was neat to watch.  Wish I'd have been awake enough this morning to watch
it live!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

278. Re: [APRSSIG:1738] APRS Quick-Ref

From: rhiii@pop.erols.com (Richard H)
Date: Sat, 08 Jun 1996 23:34:51 GMT
To: aprssig@tapr.org
Message-ID: <31b9feb0.7061158@smtp.erols.com>
Rendered body type: text/plain

```
Please send Quick Reference guide.

Thanks you.
-- Richard/nt2z
```

---

279. Re: [APRSSIG:1738] APRS Quick-Ref

From: Carl Taylor <carlt@icanect.net>
Date: Sat, 8 Jun 1996 20:06:33 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606090006.UAA16484@foo.icanect.net>
Rendered body type: text/plain

```
At 02:29 PM 6/8/96 -0500, Les Blalock wrote:
>
>I have an ASCII text file that can be printed out for a 2 1/2 page APRS
>QuickReference guide.  It's about 8K text/2K zipped.  Should I post it as a
>message here on the SIG, attach it to a post or just offer via direct e-mail
>to individuals?
>
>Most command functions/commands are listed alphabetically and show the
>keystroke/menu sequence to accomplish the desired function.  Most entries
>also show page numbers referring you to pages in the HELP.TXT for additional
>information.  (This assumes you print HELP.TXT with one-inch top/bottom
>margins.)
>
>I originally made this quick reference at about version 6.7 but have kept it
>pretty much up-to-date through 7.4 or so.  If you want a copy, just ask.
>Feel free to update it, add to it, etc. just don't send me complaints - you
>get what you pay for.
>
>Les/N5KOA
>
i would realy like a copy of it.. i am trying to get some people on aprs and
need all the help i can get...

thanks in advance...

==carl==
>
>
Johann O Jokulsson     |  http://www.iti.is
System Administrator |
Technological Institute of Iceland      tel: +354 - 587 - 7000
Keldnaholti, IS-112 Reykjavik   fax: +354 - 587 -  7409
```

---

280. Bug in 76c. Stop distro

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 8 Jun 1996 20:28:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960608202657.22681A-100000@arctic>
Rendered body type: text/plain

```
I havent gotten to the bottom of this, but Bill reports taht the
MAP-PLOTS_POWER doesnt work.  I just found out that the MAPS=PLOTS-DF is
broke too...  SO until I figure this one out, dont get 76c....

Dinner guests tonight.  WIll figure out later...

de wb4apr@amsat.org
```

---

281. Illegal Function Call

From: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Date: Sat, 8 Jun 1996 22:59:37 -0400
To: aprssig@tapr.org
Message-ID: <199606090259.AA03543@tigger.jvnc.net>
Rendered body type: text/plain

```
I get the following message when trying to run APRS76

        Illegal Function Call In Line 0 of APRS76W at address 1D49:53BF


What is it?


Ron :(
--
**********************************************************************
** Ronald C. Barnes  KA1KJZ      Engineering Tech, Group W Satellite **
** 1591 W. Broad Street          ARRL CT Section Technical Coord.    **
** Stratford, CT  06497          Member, Soc. Broadcast Engineers    **
**                                                                   **
** The preceding are my opinions, mine, mine, mine!                  **
** Any attempt to say otherwise will result in a hearty laugh        **
**********************************************************************
```

---

282. APRS.REF attached

From: Les Blalock <lcb911@apex2000.net>
Date: Sat, 8 Jun 1996 22:11:35 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960608201123.10c78bc6@apex2000.net>
Rendered body type: text/plain

```
Hope this is appropriate.  I've attached the APRS.REF quick reference file
for APRS.  It's only two and a half pages printed.

I've had so many requests for it already I thought I might get it out more
efficiently this way.  I'll still send it individually to anyone who needs
it in the form of a message.

73 de Les/N5KOA
```

[Attachment: APRS.REF; text/plain; 8,323 bytes]

---

283. Re: GPS Time

From: Paul Sadowski <sadowski@cris.com>
Date: Sun, 9 Jun 1996 00:26:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199606090426.AAA29569@darius.cris.com>
Rendered body type: text/plain

```
Anyone ever had several GPS's together and noticed different times
on the different GPS units?  I'm paying with some stuff that relies
on GPS time as the sync for all the stations.... think there might
be a time skew for some reason...

ALOHA

AH6LS  Allan
```

---

284. Re: [APRSSIG:1750] Illegal Function Call

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 9 Jun 1996 02:44:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960609024319.24067B@arctic>
Rendered body type: text/plain

```
On Sat, 8 Jun 1996, Ronald C. Barnes wrote:

> I get the following message when trying to run APRS76
>
>         Illegal Function Call In Line 0 of APRS76W at address 1D49:53BF

APRSdos REPLY COMMENT:  Could be anything.  TEll me more.  Like exactly
WHEN does this occur.  How are you configuring APRS.  What keystrke or
screen activity immediately preceeds this eror?

de wb4apr@amsat.org
```

285. Yes, 76c bug confirmed

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 9 Jun 1996 02:54:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960609024908.24067D-100000@arctic>
Rendered body type: text/plain
```

```
Argh, dinner guests left at 0130!

FOund bug.  WIth all the testing of APRS76a and b and c, at the last
compile, I couldnt resist the temptation to change a little innocous "i"
to a "P" for POSIT in a deep subroutine...  Well, sure enuff, that
conflicted pages later with the "P" in the POWER calculations for the
Power-Height-Gain display.  Ergo, if you do a MAPS-PLOTS-POWER or
MAPS-PLOTS-DF, you will get unpredictable results, OFTEN and endless loop
lockup...

I will release 76d Sunday to fix it.  IF YOU HAVE ANY more comments about
76 a,b, or c, Lemme know ASAP.  SOrry for the trouble...

de wb4apr@amsat.org
```

286. Pasternack Enterprises

```
From: Carl Kimball <ckimball@ets.mv.com>
Date: Sun, 9 Jun 1996 10:59:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199606091459.KAA22409@bort.mv.net>
Rendered body type: text/plain
```

```
Steve --
I just received the latest Pasternack catalog, which is a "Special
Sale" catalog good through August 31. On the back cover, which is
also the order form, line 5 states that the minimum order is $25.
Additionally, for this sale take 5% off and free shipping on all
catalog items except coax, but must use the special order form.

Depending on length and cable type, prices vary from $16.61 to
$17.71 (RG174A/U, 12 inches to 72 inches). Catalog number for the
RG174 stuff is PE3672-length, where length = 12,24,36,48,60,72.

These are their "normal" prices. Take 5% off that.

They have 7 types of coax to choose from. RG188,RG174,RG316,RG58,
RG142,RG223,RG316. The last 3 are double-shielded.

Ring their bell at 714-261-1920.

Doesn't do me much good -- I've got a Garmin 38 with no ant jack.
Great software built-in, though.
=========================================================================
Your original message --
>Pasternack has the necessary adaptor (SMB MALE on one side and BNC male on
>other) to allow the trimble GPS antenna that PACCOMM sales to hook directly
>to a Garmin 45.
>The problem is that Pasternack requires a min order of $100.00.  Would
>anyone be interested in going together for a group purchase?
>The cost of the adaptor is $25.95 each plus shipping.
>If anyone is interested or if anyone knows another source with a better
>deal let me know.
>Steve Hall - KK4PM
>P.S.  I don't want to cut of the SMB!
=========================================================

*************************************************************
*  Carl Kimball     TEL: 603-669-2836    FAX: 603-669-4124  *
* ======================================================== *
* Eastern Technical Sales : Factory & Laboratory Automation *
*    99 Falcon Crest Way    Manchester  NH  USA  03104      *
*    email:  ckimball@ets.mv.com                            *
*    home page URL:  http://www.mv.com/ipusers/ets          *
*    Amateur Radio Callsign: N1JKT                          *
*************************************************************
```

---

287. Re: [APRSSIG:1687] Documentation

From: llbaker@erinet.com (larry baker)
Date: Sun, 9 Jun 1996 12:15:21 -0400
To: aprssig@tapr.org
Message-ID: <199606091615.MAA12897@in-mail.erinet.com>
Rendered body type: text/plain

>I think this was asked before but i never seen an answer to the question. Is
>there any information avalable (Maybe from Bob hi) that would explain how to
>setup APRS and it's many different ways to run it. Sure would be great to
have a
>manual available. Like what are all the keystrokes, and what do they do!.
Also
>how does a person setup for mobile operations using a laptop (With ot without
>GPS, Doppler, How is a weather station setup etc etc. APRS is getting to a
point
>where i have even seen Bob answer a message with (I will have to check
that). I
>have read trough all the txt files and there realy isn't anything concrete. I
>wouldn't mind making up some maunuals, and making them available to those that
>feel a need for them, (LIKE ME)!. But of course i need the info first. This
came
>to mind a while ago trying to setup for running GPS with my laptop, there
realy
>is no step by step of anything in the readme directory. Bob do you have a list
>off all commands and their functions???.
>
>Bill KE4EER
>wnolle@ix.netcom.com
>ke4eer@amsat.org
>http://www.netcom.com/~wnolle
>
>
>
Bill while I have been using APRS for a couple of years I to would like
a HOW to do it Manual.
Larry Baker KB8EMD

---

288. Re: [APRSSIG:657] Re: HSP bug and next APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 9 Jun 1996 13:43:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960609134207.26404C@arctic>
Rendered body type: text/plain

I finally did it in MAPFIX25 distributed in APRS76b and c. If you dont
have it, wait for 76d due to bugs in APR....

I took out the POOR-MANS-MOUSE-DIGITIZER... You werent useing that were you?

On Tue, 7 May 1996, Barbara Fehner wrote:

> Please import the mouse driver from APRS into Mapfix so that those of us
> with Win95 or a bus mouse can use the mouse with Mapfix.
>
> Thanks,
>
> Barbara KK6IB
> E-Mail: fehner@cts.com
>
> ____
> At 12:25 PM 5/6/96 -0500, you wrote:
>
> >So I will be releasing APRS75d very soon with the following fixes:
> >* fixes HSP as noted above
> >* adds 18 wheeler to MOBILES-VEHICLE selection
> >* removes PAR 0 from INITTAPR.TNC file
> >* removes KILL function by making it a sub-prompt when you DELETE an obj
> >* stand-alone-trackers will now start with / instead of @ so you can tell
> > that they are NOT APRS equipped for messages.
> >
> >(Note to rwf, alt-S-MODES-SPECIAL worked here...)

> >
> >IS THERE ANYTHING ELSE I SAID I WOULD FIX?
> >
>
>

APRSdos REPLY COMMENT:

de wb4apr@amsat.org

---

289. Re: [APRSSIG:1745] Re: KD4EMI& basic Stamps

From: n2czf@gate.net
Date: Sun, 9 Jun 1996 15:29:05 -0400
To: aprssig@tapr.org
Message-ID: <199606091929.PAA10000@osceola.gate.net>
Rendered body type: text/plain

On Sat, 8 Jun 1996, KD4EMI@aol.com wrote:

>I recieved a few private mails with ideas for the stamp. I'll list them and
>see what you guys think...
>
>#1 Have the stamp alert you when someone connects to your tnc...
>(not a problem) more code...can be done in an hour...
>
Good idea but do not make it "A La Motorola" (Over Engineer!) All you need for
that is a 2N2222 and a piezo buzzer connected to the CON LED. Whenever the CON
LED lights that will gignal the transistor to turn on the piezo. Simple cheap
and QUICK!

Ahhh Summer in Florida storm took out power now gotta run....

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

290. Re: [APRSSIG:1757] Re: HSP bug and next APRS

From: Barbara Fehner <fehner@cts.com>
Date: Sun, 09 Jun 1996 13:12:26 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960609201226.006b66c8@mail.cts.com>
Rendered body type: text/plain

Thank you, thank you, thank you Bob. No, I have never used the Mouse Digitizer.

On another subject, I checked several maps that I have converted to WGS84 at
the corner points and the center. The correction is consistent as I surmised
so changing the map origin is a valid method. It put my average GPS position
right on top of my house as opposed to the previous position 175 yards west.
I have also documented through the USGS database that the 100K and 2M data
are from maps that were drawn using the NAD27 datum as expected. I also
concluded that it is not worth changing the datum on maps made from the 2M
data so I am only going to change my maps that were generated from the 100K
data. I would suggest that any maps that are changed be documented as such
in the remarks area of the map file.

Barbara KK6IB
E-Mail: fehner@cts.com

____
At 12:48 PM 6/9/96 -0500, you wrote:
>I finally did it in MAPFIX25 distributed in APRS76b and c. If you dont
>have it, wait for 76d due to bugs in APR....
>
>I took out the POOR-MANS-MOUSE-DIGITIZER... You werent useing that were you?
>
>
>On Tue, 7 May 1996, Barbara Fehner wrote:
>
>> Please import the mouse driver from APRS into Mapfix so that those of us
>> with Win95 or a bus mouse can use the mouse with Mapfix.
>>
>> Thanks,
>>
>> Barbara KK6IB
>> E-Mail: fehner@cts.com

>>

---

291. Florida Statewide APRS Meeting

From: n2czf@gate.net
Date: Sun, 9 Jun 1996 17:21:02 -0400
To: aprssig@tapr.org
Message-ID: <199606092121.RAA37450@osceola.gate.net>
Rendered body type: text/plain

I will like to see a show of hands as to who is interested in a APRS meeting for the state. We have enough user groups in the state now to suggest a special meeting and I have already been approached by several about some possibilities.

The feeling so far is to have 1-2 users from each area attend. These users should be the ones who are ACTIVE and COMPETENT with APRS in their area and are willing to spend some time working before and much more after the meeting.

The reason for 1-2 users and not a whole clan is not to limit activity but to make a location much easier to find to have this at right now. The aim of the meeting will be to talk about where APRS is going to go in FL, if it will go anywhere at all, and if it does how are we going to accomplish this. Time will be limited to rag chew and teach beginner's since most everyone will need to drive quite a distance so that is the reason for only 1-2 people. We have all played with APRS long enough now and with the exception of 1 or 2 areas nothing constructive has been done yet.

Those attending will then have the task of taking notes and possibly getting everyone in their area together for a local meeting, filling everyone in and start the wheels turning. If no meeting is held at least get a copy of the notes to everyone or have a net on a local repeater to talk about the subjects.

Once everything starts rolling, if it does, then we can make plans for a more general meeting, possibly at the Tampa or Melbourne Hamfest since they are popular and in the central part of the state.

NOTE: If anyone is interested in Melbourne this September LET ME KNOW ASAP. September is not to far away and I am sure that the closing date for a room request is even closer!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

292. USE CD-ROM MAPS direct

From: "John W.(Bill) Hays" <billh@netins.net>
Date: Sun, 09 Jun 1996 21:23:04 +0000
To: APRS SIG <aprssig@tapr.org>
Message-ID: <31BB40B8.4266@netins.net>
Rendered body type: text/plain

I discovered a way to use the Map files direct from the Sproul Bros. CD-ROM. You thereby save an awful lot of storage space on a hard drive.

This works on a Macintosh IIvx, not sure if an equivalent approach is available for the Windows version of APRS. It is VERY slow loading the program when it gets to the "reading map files" stage. It seems to be quite satisfactory, though admittedly slower than direct from a HD, when loading the map files from within the MacAPRS program from the CD-ROM drive.

Open the Spoul Bros. CD-ROM directory and open succeeding sub-directories down to the file labeled "DCW_USA" (MAPS_01:DCW:DCW_USA) and make the alias called "DCW_USA alias". It will say, "can't do so because
file is locked,do you want to make it on the desk top" or some such statement. Do so and then drag the alias to the map folder in your hard drive where you have all the other maps for MacAPRS.
I also made an alias file, "USA_IAIL alias" from the CD-ROM subdirectory (MAPS_01:PC_MAPS:UNCOMP:USA_IAIL) of the unzipped PC-APRS files.

It is interesting to note you can not use this scheme to make an alias of the CD-ROM itself or of the next lower two or three subdirectories, however you can of the next to last subdirectory.
This approach places a heiroglyphical entry in your map listing of all the files/maps in the lowest directory and allows you to open them into a new map window on MacAPRS.

```
I hope I have not thorughly confused averyone, play with it. I'll bet
you
figure it out in spite of my "DOCS" now I know why software authors
hate writing supporting DOCS!!!!
73,
Bill w0omv email:billh@netins.net
```

---

293. Kenwood Service

From: jaym1@soho.ios.com (Jay Millard)
Date: Sun, 9 Jun 1996 17:59:25 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ade0f929dd2e@[206.20.7.33]>
Rendered body type: text/plain

```
My Kenwood 940S that I use for APRS on HF rolled over and died last night.
In an attempt to locate a reputable service tech for same, I am soliciting
members of the APRSSIG for their knowledge or experience.  Tech or service
center should be located in CT or close to metro New York City area.
Thanks in advance.

Jay Millard
*Amateur Radio Station KD1LY*
Darien, CT  06820
```

---

294. Re: [APRSSIG:1759] Re: HSP bug and next APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 9 Jun 1996 18:50:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960609184813.28472B-100000@arctic>
Rendered body type: text/plain

```
OK, but what is the conversion algorithm? for the single point ORIGIN.
         I  know we discussed all this, but did we get it down to a
single equation...?

de wb4apr@amsat.org
```

---

295. Re: APRS75D.zip download

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sun, 9 Jun 1996 17:07:00 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960609170355.4743B-100000@spork.callamer.com>
Rendered body type: text/plain

```
Once again, I simply can not get through the maze of trying to download
APRS75D.zip mentioned early today.  Where is it?  Under what banner is it
being hidden? and what is the address either FTP or WWW can one get it?
Cliff W6HDO
```

---

296. Re: [APRSSIG:1711] Symbols on maps?

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Sun, 9 Jun 96 21:46:37 EDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <CMM.0.90.4.834371197.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
I amd doing labels with Tiger/LINE data.
/a
```

---

297. Re: [APRSSIG:1713] DOCUMENTATION

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 09 Jun 1996 22:11:58
To: APRSSIG@tapr.org
Message-ID: <199606100212.WAA01567@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
On Fri, 7 Jun 1996 William B. Bliss/WB6LPG wrote:

>A recient Packet BBS message, 16-APR 03:21 from N2ZRC titled
>"How to set up APRS" appeared and addressed APRS@ALLUS on the
>Packet system.  Art Booten/N2ZRC is here on this net.

Jim, KU0G, has posted my "Some Really Simple Basic Instructions
on Getting APRS on the air NOW!" on his KC-APRS Web site and I
think Bob may be including it in future distributions of APRS.
Nonetheless, (and excuse me if some of you think it's too soon
to post this again) I'm attaching it below as plaintext.  I'd
```

appreciate it if someone could either post it on aprssig/files
or tell me how I can do so.

____

~~~~~~

SOME REALLY SIMPLE BASIC INSTRUCTIONS ON GETTING APRS ON THE AIR NOW

Copyright (c) Arthur Booten 1996. All Rights Reserved (*)

NOTE: I have used APRS 7.5 for this example. If the version you are using is something else, substitute that something else for 75 (ie: if you've got version 9.9z, use APRS99z.) Also, if you downloaded APRS (FTP, BBS, etc) or got it from a C-D, substitute "A:" for the appropriate path.

If you don't use Windows, but have PKZIP204g, put the APRS disk into the floppy drive of your choice (I'll call it drive A) then expand the APRS files by using the following commands on the hard drive of choice. Note the use of the "-d" command to create the necessary subdirectories.

```
     Make an appropriate directory     MD APRS
     Change to this directory          CD \APRS
     Switch to the A drive             A:
     Run PKUNZIP with directories      PKUNZIP -d APRS75.zip C:
```

If you use WINZIP, change to drive A and double-click on APRS75.zip, click expand button, tell it where you want it and follow onscreen directions. If the distribution you have is on more than one floppy disc, you'll have to have PKZIP properly installed and it's location known to WINZIP.

***************** VERY IMPORTANT *****************
IF YOU ARE USING A KANTRONICS TNC, OPEN THE FILE "INITTAPR.TNC" (it's in the "SYSTEM" folder) AND, USING ANY TEXT EDITOR, CHANGE THE LINE THAT SAYS "PAR 0" TO "PAR NONE" IF IT'S A KPC-3 OR THE APPROPRIATE FIGURE FOR YOUR MODEL. IF YOU DON'T, YOUR TNC WON'T UNDERSTAND ANYTHING THE PROGRAM WILL TELL IT!!
****

Make sure your TNC is in Terminal or Command mode (whatever it's called by the manufacturer.) Go to the DOS prompt (NOT in a "DOS window",) go to your chosen APRS folder and invoke "APRS75.exe". This brings you to the LOGO screen. Enter your callsign. Tell it what kind of TNC you're using. Answer the other various questions. When you're done, the main map screen will appear.

Now press M(aplist) then C(hange), and tell it you want the appropriate maplist for your area. This will probably be either EAS(t), SE (Southeast), CEN(tral), WES(t) or NW (Northwest.) Use the arrows or mouse to bring the cursor to your approximate location (keep your eye on the upper left part of the screen which shows latitude/longitude of the cursor.) Then press HOME to center the screen on it. Use the PgDN key to zoom in a few screens and tweak the cursor to your EXACT QTH. You may have to zoom in to a very small scale to get the necessary resolution. Once the cursor is at the right spot hit the HOME key again.

Press I(nput) M(y qth) and confirm your lat/long, choose a symbol for yourself (try S(ymbol) - for starters ... it's the little house), type in a brief comment, and verify it. Once you press that "Y" you're essentially ready to go on the air! In it's most basic form, you're configured! Tune the radio to 145.79, hook it up and see what you can see. It might take a few minutes for other stations to appear (assuming there are some) but if you get a little impatient, try pressing O(perations) Q(uery) and give it a radius such as 64 to force position reports from others.
~~~~~~

Look for stations whose symbol is a star. THESE ARE THE WIDE DIGIPEATERS! Is there one fairly close to you? If there is, press the D(igipath) key. If an asterisk (*) appears next to a callsign (hopefully that nearby WIDE) then you're hearing it directly. Make a note of that nearby WIDE station's digipeater path.

Now you're going to set YOUR digipeater path. Press O(perations) D(igipeaters). If you heard that WIDE station directly, enter it's callsign and ssid, if any. Follow this with a comma, then type in "WIDE". For example: "WA2JNF-4,WIDE" would be how I'd enter it here in The Bronx, but the nearest WIDE to YOU is what YOU'RE looking for.

If you're not in range of a WIDE digipeater, look at the path used by the station closest to you, again using D(igipath). Can YOU hear this station? If so, you might try using that call as the first digipeater in your path, followed by whatever they have set for theirs. As a matter of courtesy, try to avoid this as a normal means of operation unless you have that station's permission. Few of us have rigs that can handle much more than a 40 to 50% duty cycle.

Next you want to set your Power-Height-Gain figures. Press I(nput) P(ower) and tell it how many watts you're using, your antenna's height above AVERAGE terrain (look at a topographical map of your area,) the gain in dBd and the antenna's directional pattern in degrees or 0 (zero) for an omnidirectional antenna.

Finally, set your Beacon Text by pressing Alt-B(eacon) and typing in a short comment different than the text you used for your Position Text earlier. At this point, you're about as far as you need to go for now.

APRS has extensive documentation included with every distribution. Most of these will be located in the "README" folder and can be viewed even when the program is running by pressing F1 - F(iles) and typing in the name of the file you want to see. I suggest you carefully read "HELP.TXT," "SCREEN.TXT" and "OPS.TXT" to give you an overview of the most pertinent information.

If you have access to E-mail, there is even a mail reflector you can subscribe to which will keep you up-to-date on the latest information on APRS and to which you can send your many questions. To subscribe, send a message to "listserv@tapr.org" with the subject of "subscribe". The body of the message should read "subscribe aprssig your_name" where your_name is... YOUR name!

I hope to see you all on my screen in the VERY near future. Look for me at cruise missile coordinates:
4052.69N/07354.06W.
73 de Arte / N2ZRC

(*) = But feel free to use it, distribute it, re-post it and enjoy it, as I had no intention to claim exclusive use of it. APRS isn't exactly intuitive in it's installation and setup and any help we can get out to the newbie should be welcomed.

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Target those coordinates and fire quantum torpedoes.....

---

298. aprs for spotters, df'ers

From: Jeffrey Bledsoe <jbledsoe@flash.net>
Date: Sun, 9 Jun 1996 22:39:16 -0500
To: "TAPR APRS Special Interest Group" <aprssig@tapr.org>
Cc: "Mike Heskett" <mheskett@startext.net>
Message-ID: <199606100339.WAA21980@defiant.flash.net>
Rendered body type: text/plain

Hello,

I am thinking of getting into aprs to keep track of storm spotters and df'ers; I'm trying to conceptualize how I can merge aprs with our existing map; any response to the following questions is greatly appreciated.

I ceated a Skywarn map for our county one year ago.   Could an image of my map's grid system, in GIF or some other common format, be merged with aprs maps for the Macintosh?   If so, do the Mac maps have a transparent background so that my grid system could be placed behind the aprs image of our county roads........ and still be (mostly) visible?

To get a feel for my grid & numbering technique, see GIF's of my Skywarn and detailed maps at: http://www.flash.net/~jbledsoe

Thanks,

Jeff Bledsoe / N5YMV

---

299. Re: [APRSSIG:1721] Re: SMB to BNC adaptor for Trimble Ant

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 9 Jun 1996 23:22:14 -0500
To: aprssig@tapr.org
Message-ID: <199606100422.XAA26644@misha.net>
Rendered body type: text/plain

>Hey Roger,
>Do you know that you and Paul aren;t showing up on the screen anymore?
>Haven't been for a couple of weeks.
>
>73 barry

I was told by Henry he could see my messages but couldnt see me. I'm seeing every one in Chicago OK. I havnt changed anything on my main setup so I'm not sure.
Paul hasnt been on since the last big electrical store because his PC took a hit. Not sure as to the extent of damages. We haven't figured out the extent of it yet.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

---

300. Re: [APRSSIG:1726] Re: Precision Mapping 2.0

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 9 Jun 1996 23:31:18 -0500
To: aprssig@tapr.org
Message-ID: <199606100431.XAA26855@misha.net>
Rendered body type: text/plain

>Ok People, what is the catch. CD-ROM Mapping and a GPS interface for free
(beta)
>at what is it $39 ?? Plus a free CD with either the WHite Pages or Yellow
>pages...
>
>Many have seen the DeLorem stuff, what is the difference in data quality if
any?
>As far as I know most if not all of the data is the same since it comes
from the
>same source. This sounds too good to be true since MapExpert comes out to be
>about $300 once you get the GPS Add On shipped to you and you buy the actual
>MapExpert CD.
>
>If it is as good as it sounds it seems to be that DeLorem will be suffering
from
>a short life span!
>

I had to buy the Precision Mapping 2.0 at $39 to get the Beta GPS program to work. It wont work with the Precision Mappint LITE. The mapping program requires the CD-Rom to get any detail level. The GPS program ran on my Desktop PC, but since I don't have a portable CD-Rom drive, I cant test it on my laptop yet. It looks like I'd have to LAPLINK an install to my laptop to make it work there. It seems rather silly to Have a GPS program I can only get to run on my desktop.
In other words, you MUST HAVE Precision Mapping 2.0 on CD in order to get

the GPS program to run it seems at present. There's too my gyrations you have to go thru to run it from on a laptop without the use of a CD-Rom on the laptop. It will currently eat about 5+ megs of space on a HD as well.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

301. Re: [APRSSIG:1764] Re: APRS75D.zip download

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 10 Jun 1996 00:20:15 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ade16043bbde@[199.1.11.136]>
Rendered body type: text/plain

>Once again, I simply can not get through the maze of trying to download
>APRS75D.zip mentioned early today. Where is it?

Same place as always:
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/

But the D version may not be there yet the directory data is June 7.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

302. RE: [APRSSIG:1760] Florida Statewide APRS Meeting

From: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Date: Mon, 10 Jun 1996 07:06:15 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB569B.7A3F29A0@orl-104.ispace.com>
Rendered body type: text/plain

Hi Rich,
We are with you here in Orlando. The suggestion of Melbourne is great and we will follow your progress in setting this up. If you need any help let me know and will try to work from this end.
73's
Jacques KD4TWB

303. WINAPRS 'features'?

From: w2g3zfj@unix.asb.com (bob)
Date: Mon, 10 Jun 1996 08:45:48 -0400
To: aprssig@tapr.org
Message-ID: <199606101251.IAA15874@unix.asb.com>
Rendered body type: text/plain

Hi Folks

I've been running a registered copy of winAPRS for the last 2-3 weeks as a Gateway in Long Island (hf->vhf only) and have noticed a few 'bugettes' which I wonder if anyone else has seen.

-my Gate symbol frequently (3-4 times a day) gets changed back to the default qth symbol. It can be reset by forcing my position to be re-sent.

-when I go tracker mobile, g3zfj-9, on every occassion when I return home several of the position reports will have labels either for other stations or like times e.g. 15:23:34 etc. Last weekend I parked and left the tracker on, when I got home there was kd4uyr sitting in Oakdale! I knew Kevin wouldn't have moved from Fl!

-if I manipulate screens it will crash quite often i.e. open/close a few map windows. If I leave it alone its very stable.

Info:- Kam Plus, 80MHzdx2 clone, 8M Ram, winAPRS v1.0

Any ideas? Any timescales for next revision of winAPRS?

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/

304. Re: [APRSSIG:1760] Florida Statewide APRS Meeting

From: Dennis Mobley <dmobley@encore.com>
Date: Mon, 10 Jun 1996 08:54:56 -0400
To: aprssig@tapr.org
Message-ID: <31BC1B20.4A7B@encore.com>
Rendered body type: text/plain

```
n2czf@gate.net wrote:
>
> I will like to see a show of hands as to who is interested in a APRS meeting for
> the state. We have enough user groups in the state now to suggest a special
> meeting and I have already been approached by several about some possibilities.
>
> The feeling so far is to have 1-2 users from each area attend. These users
> should be the ones who are ACTIVE and COMPETENT with APRS in their area and are
> willing to spend some time working before and much more after the meeting.

And how do you suggest these "1 or 2" folks be picked from the masses?
Also, could you define "areas"...

Lets see, I here by declare myself APRS (Mac of course) of area EL96UD!!!

Rich, I hope you have a smile on your face....
In all seriousness, good idea but you need a better plan.

IMHO, the VHF/UHF digital folks are a bit scared of "closed meetings"
to define a networks policies. We have other "group" here in Florida
that do a good job of irritating folks.

If you want a state "WIDE" meeting fine, but there are a lot better
ways to manage the event.

Might I suggest....
        1. Form a working group to generate a statement of objectives.
           Note, this can be done via email but, I would suggest off the SIG!
        2. Formulate a detailed agenda.
        3. Publish a the statement of objectives and the meeting agenda.
        4. Follow you detailed agenda at the meeting.

If this is just a "bull" session then I would expect your meeting to
turn into pandemonium.

Question, which I expect the working committee to define,
what are we(you) trying to achieve?

Also, who is going to enforce any resulting policies?

Rich, don't take me wrong, I think that a state APRS group meeting would
be great. It is my opinion that great thought and care should be exercised.

***SNIP***

> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida
>

73 de Dennis Mobley KT4FI
Sunrise, FL (EL96UD)
```

---

305. Re: [APRSSIG:1771] RE: Florida Statewide APRS Meeting

From: BordingK@aol.com
Date: Mon, 10 Jun 1996 09:07:11 -0400
To: aprssig@tapr.org
Message-ID: <960610090711_323572681@emout18.mail.aol.com>
Rendered body type: text/plain

```
KF4COH in Jacksonville would like to be included in any FL meeting plans.
```

---

306. Re: [APRSSIG:1763] Re: HSP bug and next APRS

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Sun, 09 Jun 1996 21:35:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960610013516.008b6f94@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 06:15 PM 6/9/96 -0500, you wrote:
>OK, but what is the conversion algorithm? for the single point ORIGIN.
>        I  know we discussed all this, but did we get it down to a
```

>single equation...?
>
>

Don't think something has been discussed here for equations and coordinates transformation methods, but here is a shareware program that seems to do the job quite well:

available on:

http://www.connect.net/jbanta/

SeisSoft Multiple Regression Transform© v 1.0

A new Windows (3.1 & Win95/NT, 16 & 32 - bit versions) Shareware program that converts Lat/Long between various datums.

All constants from the US Defense Mapping Agency Technical Report DMA TR 8350.2 Second Edition.
Important Note: The Multiple Regression Transform is the prefered method for converting between various datums.
Unfortunatly, it is only available for converting between WGS84 and seven other datums:

Australian Geodetic Datum 1966
Australian Geodetic Datum 1984
Campo Inchauspe Datum
Corrego Alegre Datum
European Datum 1950
North American Datum 1927 (Mainland Canada)
North American Datum 1927 (Continental US)
South American Datum 1969

Where multiple regression values have not been computed, use the Molodensky Transform (See below).
...

Didn't check if the math are correct! (I would be in pain to do that anyway,:-) but the guy seems to know what he is speaking about.

The simplest method, not the best in terms of accuracy, is to input the coordinates in you GPS with NAD27 datum, switch to WGS84 and read the converted coordinates. GPS usually use the Molodensky transform method, quite easy to program.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

307. My take on the WRC97 Action

From: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Date: Mon, 10 Jun 1996 09:38:49 -0400
To: aprssig@tapr.org, fccreg@tapr.org, fieldorg-l@netcom.com,
ham-tech@netcom.com, n1hax@aol.com, n1qqv@aol.com, wk1s@aol.com,
johngv@ns.iconn.net, bblewett@straycat.com, ralph.celone@dowut.com,
pqb@uconect.net, sbicycle@connix.com, wa1pyu@aol.com,
ddbb23a@prodigy.com, dkostrey@iconn.net, 0005164217@mcimail.com
Message-ID: <199606101338.AA11452@tigger.jvnc.net>
Rendered body type: text/plain

Well, they are at it again, picking on Ham Radio for spectrum. The recent CONSIDERATION of the WRC97 committee responsible for the LEO satellites has targetted 2 meters and 440 as POSSIBLE areas on which to stick the satellites. But lets take a deep breath and think about this for a moment.

Satellites need to be small, light weight, and power efficient. Now think of the size of tuned circuits, power amplifiers, and most importantly, antennas at 144 MHz. Not very small are they? 440, though a third smaller, is still not an optimum band for a satellite service. I highly doubt they want to REALLY take 2 or 440.

Now take into consideration the MILLIONS of users on these bands worldwide. There is much more on 2 meters alone in the rest of the world than meets the eye. The ham bands are used for business in Africa as the rigs are cheap and readily available. There are legitimate hams all over the world, let alone the USA. The efforts to clean up these bands, and the resulting QRM from the users that havent heard the word will be monumental. Again, I highly doubt they really want 2 and 440.

In my humble opinion, the real intent of the LEO operators is to take a different band, perhaps 1.2 or 2.4 GHz? The attempt to grab 2 and 440 is merely a smoke screen to divert our attention away from that. The higher, almost microwave bands are much more satellite friendly and any satellite manufacturer would never consider 144 or 440 MHz.

You may ask though, why would I want to save "those microwave bands". Those higher bands are the future of ham radio. When 2, 220, 440 get filled to capacity (most will argue they already are) there is nowhere to go but up. Technology these days is such that you can get on these bands with literally ONE CHIP. If ham radio does not keep and utilize these bands, then we are already a dead issue, but thats a topic for another time.

The alterior motive is probably buried in some doccument, in a language or unit of measure not easily recognized. Would you put up a fight against the reallocation of .144 GHz? or how about the reallocation of the 7 decimeter band? Do the math.

My advice? Continue to fight the reallocation of 2 and 440, as if no one does, then they might really end up with it, and not be able to make it work (see the history books about 220 and UPS). But WATCH THEM VERY CAREFULLY!! The real intent to grab one of the higher frequency bands is there somewhere.

Ronald C. Barnes KA1KJZ
ARRL CT Section Technical Coordinator

308. Re: [APRSSIG:1761] USE CD-ROM MAPS direct

From: "John W.(Bill) Hays" <billh@netins.net>
Date: Mon, 10 Jun 1996 13:42:08 +0000
To: aprssig@tapr.org
Message-ID: <31BC2630.2C1F@netins.net>
Rendered body type: text/plain

John W.(Bill) Hays wrote:
>
Much deleted...
> This approach places a heiroglyphical entry in your map listing of
> all the files/maps in the lowest directory and allows you to open them

> 73,
> Bill w0omv email:billh@netins.net

One of my pet peeves is poor spelling and then in my above posting
I really blew it! Not only lousy spelling but a "great" malapropism
and poor grammar!
SRI
73,
Bill

309. Re: [APRSSIG:1762] Kenwood Service

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Mon, 10 Jun 1996 05:51:36 -0400
To: aprssig@tapr.org
Message-ID: <31BBF028.5F3E@dgp.toronto.edu>
Rendered body type: text/plain

Jay Millard wrote:
>
> My Kenwood 940S that I use for APRS on HF rolled over and died last night.
> In an attempt to locate a reputable service tech for same, I am soliciting
> members of the APRSSIG for their knowledge or experience. Tech or service
> center should be located in CT or close to metro New York City area.
> Thanks in advance.

Why don't you send it back to Kenwood?

310. Re: [APRSSIG:1764] Re: APRS75D.zip download

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 10 Jun 1996 10:45:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960610104516.22772A@arctic>
Rendered body type: text/plain

```
On Sun, 9 Jun 1996, Clifford Buttschardt wrote:

> Once again, I simply can not get through the maze of trying to download
> APRS75D.zip mentioned early today.  Where is it?  Under what banner is it
> being hidden? and what is the address either FTP or WWW can one get it?
> Cliff W6HDO

APRSdos REPLY COMMENT:  My appologies, It will be uploaded in about an
hour to tapr/SIG/aprssig/files/upload

de wb4apr@amsat.org
```

311. APRS76 and MFJ1278?

From: roseag@miavx2.ham.muohio.edu
Date: Mon, 10 Jun 1996 11:10:12 EST
To: aprssig@tapr.org
Message-ID: <009A3A45.DB845F1C.12@miavx2.ham.muohio.edu>
Rendered body type: text/plain

```
Does APRS76 work with the MFJ 1278 TNC?  This TNC is not one of the choices.
Can the .TNC file be changed from one of the other .TNC files so that the
MFJ's can be used.
?

Thanks in advance,
73, Alan N1FLD
```

312. Re: Documentation

From: Mark Sproul <sproul@ap.org>
Date: Mon, 10 Jun 1996 11:30:17 -0400
To: aprssig@tapr.org
Message-ID: <v03006f00ade1efc45c3b@[165.1.27.20]>
Rendered body type: text/plain

```
>> Just for the record, all of the APRS README documents are in the process of
>> being converted over to web pages.  I am also following the process with a
>> hyper-text document, but that is probably six weeks away from
>>completion.  If
>> everybody can be patient, I'll make it available ASAP....
>>



We have had the DOS-APRS documentation done in HTML (WEB) format for over a
year and have had it on our web site.  It is also on our CD-ROM.

The URL is


http://msproul.rutgers.edu/APRS/APRSDOC/dosaprs.htm



Mark Sproul

___________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

313. Call For Tapes (Field Day)

From: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Date: Mon, 10 Jun 1996 12:27:02 -0400
To: aprssig@tapr.org, fieldorg-l@netcom.com, ham-tech@netcom.com,
n1hax@aol.com, n1qqv@aol.com, wk1s@aol.com, johngv@ns.iconn.net,
bblewett@straycat.com, ralph.celone@dowut.com, pqb@uconect.net,
sbicycle@connix.com, wa1pyu@aol.com, ddbb23a@prodigy.com,
dkostrey@iconn.net, 0005164217@mcimail.com
Message-ID: <199606101627.AA04391@tigger.jvnc.net>
Rendered body type: text/plain

```
While in the process of preparing for my club's Field Day, I realized
something.  I plan to tape as much as possible of our FD effort and make it
into a few minute long presentation tape.  Why not do a similar tape on a
national scope?
```

```
So here goes, I am looking for a copy of your club's FD raw footage,
preferably this year.  I can accept most any tape standard, broadcast,
professional or consumer.  I would prefer it on one of the broadcast
formats, but I know how likely that is.  Here is what I can take...

        Digital Betacam
        D2
        Betacam SP (preferably BVW w/ ch3&4 audio)
        One Inch
        Hi-8
        Regular 8
        SVHS
        VHS (sp mode only please)

        M-II (if you must, I can find a deck)
        Stills or slides

What I wont take...

        Quadruplex
        Film (any size)
        Consumer Beta


If you have any tape you are willing to let me have, reply via email and I
will send you the shipping particulars.  And please spread this call for
tapes around as much as you can.

Thanks...

Ron KA1KJZ
ARRL CT Section Technical Coordinator

--
**********************************************************************
** Ronald C. Barnes  KA1KJZ      Engineering Tech, Group W Satellite **
** 1591 W. Broad Street          ARRL CT Section Technical Coord.    **
** Stratford, CT  06497          Member, Soc. Broadcast Engineers    **
**                                                                   **
** The preceding are my opinions, mine, mine, mine!                  **
** Any attempt to say otherwise will result in a hearty laugh        **
**********************************************************************
```

314. Re: [APRSSIG:1778] Re: Kenwood Service

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Mon, 10 Jun 1996 12:33:13 -0400
To: aprssig@tapr.org
Message-ID: <31BC4E49.225F2F93@codger.physics.duq.edu>
Rendered body type: text/plain

```
> > My Kenwood 940S that I use for APRS on HF rolled over and died last night.
> > Tech or service center should be located in CT or close to metro New York City
> > area.

> Why don't you send it back to Kenwood?

Maybe he wants it back by Christmas^H^H^H^H^H^H^H^H^H Field Day???

<G>

A few years ago, 73 did a "review" on the service facilities of the major rig
manufacturers.  For Kenwood, turnaround was typically four to six months.

(Icom was less than two weeks.)
```

315. Re: [APRSSIG:1708] Re: Precision Mapping 2.0

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Jun 1996 11:43:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606101643.LAA29303@solar.cs.tamu.edu>
Rendered body type: text/plain

```
I've got that, and have been working on one off-and-on for a month or so.
Their's is the "official" one.  I'm working on one with a slightly different
focus.  I suspect that, over time, they'll incorporate some of what all of us
are doing.

73, gerry
```

316. Re: [APRSSIG:1715] Re: Precision Mapping 2.0

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Jun 1996 12:10:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606101710.MAA29642@solar.cs.tamu.edu>
Rendered body type: text/plain

Indeed, they tell you how to load it to a specific directory. One thing you need is a CD and some form of transfer cable/program: Texas is 48 megabytes!

The GPS interface I'm working on is seperate from theirs, using their DLLs to interface to PM2.0.4

73, gerry

---

317. Re: [APRSSIG:1717] Re: Precision Mapping 2.0

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Jun 1996 12:20:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606101720.MAA29701@solar.cs.tamu.edu>
Rendered body type: text/plain

saw it, snagged it but haven't tested it. I've been a bit busy of late. I'm working on an independent version of the interface to do wome of what I want, as an independent developer.

Thanks for the note.

I'm trying to coordinate a full duplex packet pair on UHF for
1) Differential broadcast
2) local APRS use

I'll let you know where I end up. I'm planning on 1200 to start, but an eventual migration to 9600 for most of the use. DGPS data will probably be sent at both speeds: PacComm has a method using one TNC to do that, according to Gwyn!

73, gerry

---

318. Re: [APRSSIG:1726] Re: Precision Mapping 2.0

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Jun 1996 12:56:20 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606101756.MAA00282@solar.cs.tamu.edu>
Rendered body type: text/plain

I suspect DeLorme should watch over their shoulder. JustSoftworks uses the Tiger maps as a base. So does DeLorme. Where DeLorme wins out is that they are getting more regular updates from some states, upgrading the Tiger files on the fly. They're not reinputting this to the Gov't, as far as I know.

JSI tells me they are looking at starting to do their own map updates, as well, but still want to keep the price down. So, the catch is: The DeLorme maps may be a bit more up-to-date, but the base mapping is still the same.

Oh... did you know that you can move the maps over you your hard disk and tell PM2.0 where they are? And not carry the CDROM drive with you?

gerry

---

319. Re: [APRSSIG:1769] Re: Precision Mapping 2.0

From: Ken Mirabella <kjm@flo-bin.com>
Date: Mon, 10 Jun 1996 11:03:29 -0700
To: aprssig@tapr.org
Message-ID: <31BC6371.38BF@flo-bin.com>
Rendered body type: text/plain

You can get PM 2.0 to run on your laptop if you transfer the state directory over to your HD. California takes up about 30 megs plus the program, but it is worth it to get street detail mapping for a lot less the deLorme. Use laplink, network card, etc. but get it there - it is certainly worth the effort.

My laptop is a 486/100 running win95 and PM 2.0 works great!!!

KM6YH

Roger Sellers wrote:

```
>
> >Ok People, what is the catch. CD-ROM Mapping and a GPS interface for free
> (beta)
> >at what is it $39 ?? Plus a free CD with either the WHite Pages or Yellow
> >pages...
> >
> >Many have seen the DeLorem stuff, what is the difference in data quality if
> any?
> >As far as I know most if not all of the data is the same since it comes
> from the
> >same source. This sounds too good to be true since MapExpert comes out to be
> >about $300 once you get the GPS Add On shipped to you and you buy the actual
> >MapExpert CD.
> >
> >If it is as good as it sounds it seems to be that DeLorem will be suffering
> from
> >a short life span!
> >
>
>   I had to buy the Precision Mapping 2.0 at $39 to get the Beta GPS program
> to work. It wont work with the Precision Mappint LITE. The mapping program
> requires the CD-Rom to get any detail level. The GPS program ran on my
> Desktop PC, but since I don't have a portable CD-Rom drive, I cant test it
> on my laptop yet. It looks like I'd have to LAPLINK an install to my laptop
> to make it work there. It seems rather silly to Have a GPS program I can
> only get to run on my desktop.
>   In other words, you MUST HAVE Precision Mapping 2.0 on CD in order to get
> the GPS program to run it seems at present. There's too my gyrations you
> have to go thru to run it from on a laptop without the use of a CD-Rom on
> the laptop. It will currently eat about 5+ megs of space on a HD as well.
>
> 73,
>
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@misha.net
> E-Mail Work: rsellers@snds.com
```

---

320. Re: [APRSSIG:1752] Re: GPS Time

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Jun 1996 13:07:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606101807.NAA00434@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Paul Sadowski sez:
>
> Anyone ever had several GPS's together and noticed different times
> on the different GPS units?  I'm paying with some stuff that relies
> on GPS time as the sync for all the stations.... think there might
> be a time skew for some reason...

GPS time is reported via seconds from Start of Week (GPS).  Some of the
handheld units (and, apparently, panel mount units) are not quite as sharp in
performing this, relatively simple, calculation as others.

If you really need precise timing, check on aleph.gsfc.nasa.gov for more
information on Tom Clark, W3IWI, and his Totally Accruate Clock.  For another
approach, snag a Trimble receiver and set it to ONE SATELLITE, TIMING mode.
That should provide you, in Trimble's TSIP format, with solid timing data.  If
you need real precision you will be using the precise Pulse Per Second
output...

Hope this helps.

73, gerry
n5jxs@tamu.edu
```

---

321. Re: [APRSSIG:1763] Re: HSP bug and next APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 10 Jun 1996 13:20:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606101820.NAA00674@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Bob Bruninga sez:
>
> OK, but what is the conversion algorithm? for the single point ORIGIN.
>       I  know we discussed all this, but did we get it down to a
> single equation...?

The mechanism Barbara is using is in the program MADTRANS.  It's not one
single delta for the whole country: It's calculated based on location.

Didn't someone post MADTRANS to the FTP site?  If not, let me know and I'll
put it there.  It's a DOS program.

gerry
```

322. Re: [APRSSIG:1776] My take on the WRC97 Action

```
From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Mon, 10 Jun 1996 12:39:02 -0700 (PDT)
To: Brad Wyatt <bwyatt@arrl.org>, Fried Heyn <0002542030@mcimail.com>,
        "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Cc: aprssig@tapr.org, amsat_bb@amsat.org
Message-ID: <Pine.SOL.3.93.960610123105.18145C-100000@spork.callamer.com>
Rendered body type: text/plain
```

```
I patently agree that the real intent of the LEO manufacturers "frequency
grab" is to eventually grab off space in the microwave bands.  What
really annoys me is the effort already underway to do this in th 2300 MHz
band which, really, is equally as well populated considering the satellite
occupancy as well.  In other words fellas, it ain't APPLE computer or
Motorola that wants 3456 or 5.5 GC, but rather an Industrial group that
wants to set a precedent which they have already accomplished!
Cliff Buttschardt  W6HDO/K7RR
```

323. Re: [APRSSIG:1780] APRS76 and MFJ1278?

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 10 Jun 1996 15:56:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960610155419.22241B-100000@arctic>
Rendered body type: text/plain
```

```
On Mon, 10 Jun 1996 roseag@miavx2.ham.muohio.edu wrote:

> Does APRS76 work with the MFJ 1278 TNC?  This TNC is not one of the choices.

APRSdos REPLY COMMENT:  All TNC's are TAPR clones except for AEA, and
Kantronics (there maybe others).  But even the Kantronics TNC's pretty
much maintain the TAPR standard commands.  So select TAPR.

de wb4apr@amsat.org
```

324. Re: [APRSSIG:1770] Re: APRS75D.zip download

```
From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Mon, 10 Jun 1996 13:06:47 -0700 (PDT)
To: Robert Winingham <kc5ejk@onramp.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960610130420.18145F-100000@spork.callamer.com>
Rendered body type: text/plain
```

```
Bob---I can not help but agree that the confusion on the TAPR bbs is so
large that few of us "beginners" could have ever found APRS75D.zip   I do
appreciate the return message indicating where it can be located.   73
Cliff Buttschardt  W6HDO/K7RR
```

325. Re: [APRSSIG:1783] Re: Kenwood Service

```
From: jaym1@soho.ios.com (Jay Millard)
Date: Mon, 10 Jun 1996 17:25:12 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ade242305eb4@[206.20.7.10]>
Rendered body type: text/plain
```

```
>> > My Kenwood 940S that I use for APRS on HF rolled over and died last night.
>> > Tech or service center should be located in CT or close to metro New
>>York City
>> > area.
>
>> Why don't you send it back to Kenwood?
>
>Maybe he wants it back by Christmas^H^H^H^H^H^H^H^H Field Day???
>
><G>
>
>A few years ago, 73 did a "review" on the service facilities of the major rig
>manufacturers.  For Kenwood, turnaround was typically four to six months.
```

>
>(Icom was less than two weeks.)

Thank you's to the two individuals who responded. Others might care to
know that Kenwood's East Coast Service Center in Virginia Beach is
currently working on radios received May 16th. Cost is quoted at $50/hour.
Not sure I have much choice here. One of two choices from QST
advertisements (in a state just north of here) was NOT recommended by one
of the local CT vendors. I'll miss the HF traffic that's not GATEed to me!
Maybe by next Thanksgiving.....
73

Jay Millard
Amateur Radio Station KD1LY
Darien, CT 06820

---

326. Re: [APRSSIG:1674] Re: Garmin 45 problem?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 10 Jun 1996 18:00:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960610175929.8468D-100000@laraby.tiac.net>
Rendered body type: text/plain

On Fri, 7 Jun 1996, Chip wrote:

> On Wed, 5 Jun 1996, Dennis Mobley wrote:
>
> > Yep, mine has done the same thing out on the Atlantic Ocean.
> > This "feature" does not happen often, and the only warning
> > is the beep beep "poor coverage" message.
> > Power cycle the beast and all is well.
> >
> Has anyone noticed that it doesn't seem to require the power down/up if
> you acknowledge the "poor coverage" message? I haven't had this lockup
> as long as I ack the message.

My message was more along the lines of...

"Unit unuseable - power down and re-start" (or words to that effect)

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

327. Re: [APRSSIG:1772] WINAPRS 'features'?

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Mon, 10 Jun 1996 17:09:40 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0uTF9Z-0000CTC@ernest.itg.ti.com>
Rendered body type: text/plain

> -when I go tracker mobile, g3zfj-9, on every occassion when I return home
> several of the position reports will have labels either for other stations
> or like times e.g. 15:23:34 etc. Last weekend I parked and left the tracker
> on, when I got home there was kd4uyr sitting in Oakdale! I knew Kevin
> wouldn't have moved from Fl!

I've seen this in the beta WinAPRS.

> -if I manipulate screens it will crash quite often i.e. open/close a few map
> windows. If I leave it alone its very stable.

It's not oftern for me, but it does crash after many window opens/closes.
It seems like a memory leak in the window close code. I'm not sure it
I'd blame WinAPRS or Windows.

FYI, I'm running it on a 486/33, Windows 3.11, 32MB RAM.

```
--
Alan Edmonds, KB5ZUY                        Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-214-575-6427                      6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                  Plano, TX, USA  75023
```

---

328. Re: [APRSSIG:1792] Re: APRS76 and MFJ1278?

From: n2czf@gate.net
Date: Mon, 10 Jun 1996 20:16:49 -0400
To: aprssig@tapr.org
Message-ID: <199606110016.UAA29220@osceola.gate.net>

Rendered body type: text/plain

DO not be surprised if the MFJ-1278 acts in strange ways with APRS. I have tried to get APRS working with a friends 1278 and it just does not act right, many little problems, that become one BIG annoyance. I have heard this from others that have also tried the 1278 but I have also heard from some that it works fine.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

329. Re: [APRSSIG:1787] Re: Precision Mapping 2.0

From: n2czf@gate.net
Date: Mon, 10 Jun 1996 20:21:36 -0400
To: aprssig@tapr.org
Message-ID: <199606110021.UAA29696@osceola.gate.net>
Rendered body type: text/plain

On Mon, 10 Jun 1996, Gerald J Creager <gerry@cs.tamu.edu> wrote:
*** Snip***
>Oh... did you know that you can move the maps over you your hard disk and tell
>PM2.0 where they are? And not carry the CDROM drive with you?
>
>gerry
That deserves one big WOW! I think this is a big asset to the many laptop users that do not have a portable CR-ROM. I have one but instead of carrying a extra brick (ROM Drive) I would rather copy the needed maps and keep the ROM in a suitcase or the back seat for later use if needed. Those darn interface cables look so cheap I am afraid of using it on the go and breaking it off the card!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

330. Re: [APRSSIG:1783] Re: Kenwood Service

From: n2czf@gate.net
Date: Mon, 10 Jun 1996 20:26:47 -0400
To: aprssig@tapr.org
Message-ID: <199606110026.UAA45704@osceola.gate.net>
Rendered body type: text/plain

That is funny, it took ICOM over 5 months to return my 2M SSB rig, the whole summer! While my TS-850S/AT only took 1 week including shipping time from NJ to VA. I have has 2 opportunities to send stuff to Kenwood and it has never taken more than 2 weeks. The ICOM problem was even more, after 5 months it still did not work and after some yelling I sent it back and finally got it fixed 3 months later!! 8 months for a stupit power supply fix!

Needless to say I have never bought ICOM again.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

---

331. Re: [APRSSIG:1773] Re: Florida Statewide APRS Meeting

From: n2czf@gate.net
Date: Mon, 10 Jun 1996 21:12:43 -0400
To: aprssig@tapr.org
Message-ID: <199606110112.VAA38982@osceola.gate.net>
Rendered body type: text/plain

On Mon, 10 Jun 1996, Dennis Mobley <dmobley@encore.com> wrote:

>And how do you suggest these "1 or 2" folks be picked from the masses?
>Also, could you define "areas"...

Dunno up to the people ??

>In all seriousness, good idea but you need a better plan.

I think it is a great plan! The reason it is so great is because it is the only effort anyone has ever tried.

```
>Might I suggest....
>       1. Form a working group to generate a statement of objectives.
>          Note, this can be done via email but, I would suggest off the SIG!
>       2. Formulate a detailed agenda.
>       3. Publish a the statement of objectives and the meeting agenda.
>       4. Follow you detailed agenda at the meeting.
>
```

This is the idea give or take...

>If this is just a "bull" session then I would expect your meeting to
>turn into pandemonium.

Agreed, this is why I am asking for just a couple of people, any more than this would be pandemonium! It close to happened once before....

>Question, which I expect the working committee to define,
>what are we(you) trying to achieve?

That will be the question of the day. Note that I said to decide where if anywhere is APRS going to go in FL. The question is better stated not as what WE are trying to acheve but what can or will APRS acheve.

>
>Also, who is going to enforce any resulting policies?

I hope that this does not become a question at this moment. Problems if any at this moment will hopefully be resolved in a un-official capacity by parties involved. In all honesty who can enforce policies, no one that I know of. The only way to enforce will be to have anyone that does not agree and cannot resolve withdraw from the "project" when they get fed up. I know that I will not let my $3,000 worth of equipment sit connected 24hrs a day 7 days a week at risk of lignting and surges for a lost cause.

>73 de Dennis Mobley KT4FI
>Sunrise, FL (EL96UD)
>

I would say that we agree on most of the points even if we both look at it from different ends. My end has been from long time APRS users, many of us speak on the LL and internet quite often for long periods, I have the phone bills to prove it. Many including I are wondering where is this going ?? We have spent countless hours learning, teaching and spending $$$ for a stagnent project. Many have already taken their gates and digi's off the air since they were serving no useful purpose. Look at me, I have 3 others in the area that are active and use the GATE, is it worth $3,000 during the summer months to run the risk ?? Now if the NWS actually has a plan and has the brains to pull it off and can use the system, and more users get on and active I have a better reason to run the risk. The Tampa area has already come to this point and 2 digi's were lost and 1 GATE.

Everyone is talk and no action on a statewide basis. Some areas are moving forward while others are dead or almost dead. What we need is to find out what works and what does not and try to get everyone to try a new plan attack.

Again as far as the limit of 1-2 people let's be realistic. How many people are actually going to attend from Hillard County or Key West not to mention the Panhandle. I hope the panhandle attends, they seem to have the most together group out of everyone. As far as areas everyone knows what is a area and what is not. Broward/Dade is obvious most ove you have a active part in both counties so this is a area. Tampa is another group, Orlando is close but completely seperate and the same for Daytona and Melbourne. This is going to cost people $$$ to attend, who is willing to do it ? I tried this 2 years ago and got a bunch of crying "I ain't going here or I ain't going there" it's to far etc. etc. I said forget it, I won't even bother. Now people are telling me we got to do something about a meeting, GREAT, if this is what is wanted I am all for it.

Don't know about you but I am willing to spread the word and take $$ out of my pocket to travel if there is enough interest. I am NOT going to spend $$$ for a meeting place at some hotel somewhere so that no one shows up or so that mass mayhem breaks out. Like I said this will be a "idea session" we need people with expirience so that there are ideas or at least realistic ideas. If we have everyone showing up that will make a meeting place difficult to find and also slow everything down with "my ABC TNC will not work with version SNAFU! why?" Or "what is a UNPROTO" path.

I would like someone to take charge and plan a meeting like that not only locally but for a larger hamfest. A person can only do so much, I really do not want to take that job this time, I have already done it 3 times. SNAFU's are a big problem with any APRS type and need looking into with new users. But how is anyone going to lead a group without having a basic direction down first ? If anyone want's APRS to work we will need a group, I know that many down near you have somewhat of a problem with groups and networking but if this is the case then APRS will NEVER EVER WORK as it was intended to.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've forgotten this before.   Steven Wright

---

332. Re: [APRSSIG:1774] RE: Florida Statewide APRS Meeting

From: n2czf@gate.net
Date: Mon, 10 Jun 1996 21:21:54 -0400
To: aprssig@tapr.org
Message-ID: <199606110121.VAA20814@osceola.gate.net>
Rendered body type: text/plain

I have forwarded WA4MEJ your e-mail address.

His name is John, hope you guys get together and get a strong group going. This is what I try to do for the state and it is tough, connect people who are either active or interested and let them take it from there locally. I got dozens of people in my addres book here on internet and some are not even on internet so I try to get telephone numbers also as a backup. No one person can handle the whole state so I hope to get at least 1 person from each area that is willing to spend time and orginize local users.

wa4mej@aol.com

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've forgotten this before.   Steven Wright

---

333. Weather info

From: KD4EMI@aol.com
Date: Mon, 10 Jun 1996 21:55:30 -0400
To: aprssig@tapr.org
Message-ID: <960610215529_324324819@emout18.mail.aol.com>
Rendered body type: text/plain

Ive been working on the basic stamp thingy for a while and am burnt out on it...I just finished an article that Im submitting to QST called "Build an intellegent TNC controller"

One last idea though that Im gonna try to get on line.

Remember back when I tried to have an APRS alert triggered by a NWS alert...That didnt work because of a legal issue.

Hows this...

As most of you know, Florida has been drowned by as much as 9 inches of rain a day and severe t-storms and lightning. I have a old sensor that shuts off the computer when it detects lightning bursts.. I can basic stamp this to the tnc and vhf users can set their wx alert to say wind speed of 999. Then they will be alerted if this wind speed is sent. I can program the stamp to change the beacon text to a wx text with a wind speed of 999
(or any wx parameter that you choose that would be unlikely). Upon reciept of the lightning monitor beep it changes the wx beacon, thus alerting local APRS stations of incoming lightning...

Might be kinda fun to see if anyone is interested in this.. I once saw in QST or one of Wayne Greens mags (73 ?) about a home brew lightning sensor. Can anyone get a hold of that, I build more and everyone can play along ? Any thoughts ?

Mike

KD4EMI@AOL.COM

---

334. RE: Florida get together...

From: KD4EMI@aol.com
Date: Mon, 10 Jun 1996 21:55:42 -0400
To: aprssig@tapr.org
Message-ID: <960610215542_324324783@emout15.mail.aol.com>
Rendered body type: text/plain

```
Here are my thoughts about a aprs get together...

#1  GREAT IDEA...we should have done this last year !!

#2 MELBOURNE...
Another great idea...good location..(plus I can run APRS HF MOBILE with my
new stamp on VHF and HF  YEAH !!  )

#3
1-2 people from each area...
Hmmph..not so thrilled...

Why not invite all concerned parties to attend, those that want to be a part
of the future system will want to be there.  Those that cant attend can make
their opinions known..Maybe we could have a subsig of just FL stations on the
internet ? Therefore all FL stations can communicate in their own sig and
work together and have a local forum to discuss local ideas and get to know
each other better ?

In any event, I like the Melbourne hamfest so I'd like to attend.  Lets not
be an exclusive club, invite all concerned parties and try to maintain some
order. Everyone can contribute...
Michael
KD4EMI@AOL.COM
```

---

335. Re: [APRSSIG:1772] WINAPRS 'features'?

From: ku0g@sprynet.com
Date: Mon, 10 Jun 1996 19:52:32 -0700
To: aprssig@tapr.org
Message-ID: <199606110252.TAA21843@m1.sprynet.com>
Rendered body type: text/plain

```
On Mon, 10 Jun 1996, w2g3zfj@unix.asb.com (bob) wrote:
>Hi Folks
>
>I've been running a registered copy of winAPRS for the last 2-3 weeks as a
>Gateway in Long Island (hf->vhf only) and have noticed a few 'bugettes'
>which I wonder if anyone else has seen.
>
>-my Gate symbol frequently (3-4 times a day) gets changed back to the
>default qth symbol. It can be reset by forcing my position to be re-sent.

Probably the result of having a old BTEXT permed into your TNC.  Try this:
BTEXT and type in several spaces or one or two characters.  That should clear
out the old BTEXT that DOS APRS probably wrote in on a software shutdown...

>
>-when I go tracker mobile, g3zfj-9, on every occassion when I return home
>several of the position reports will have labels either for other stations
>or like times e.g. 15:23:34 etc. Last weekend I parked and left the tracker
>on, when I got home there was kd4uyr sitting in Oakdale! I knew Kevin
>wouldn't have moved from Fl!

This happens to me too!  I think it's a minor program bug...

>
>-if I manipulate screens it will crash quite often i.e. open/close a few map
>windows. If I leave it alone its very stable.
>
>Info:- Kam Plus, 80MHzdx2 clone, 8M Ram, winAPRS v1.0

8 MB is BARE MINIMUM for running WinAPRS.  I added 1 MB and it runs fine but I
still will get an ocassional lock-up or crash due to having too many things
running at once!  It's simply a matter of having enough memory available.
Remember, WINDOWS IS A MEMORY HOG!!!  The more you have, the more you still
need!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
```

EMail: ku0g@sprynet.com

---

336. APRS Mic-Encoders Kit..

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Mon, 10 Jun 1996 19:53:43 -0700
To: wb4apr@amsat.org
Cc: aprssig@tapr.org
Message-ID: <199606110253.TAA04344@poseidon>
Rendered body type: text/plain

```
Hi Bob,
   Regarding the Mic-ENc kit, any thought to including in the kit of parts
for the Mic/ENC, a small circuit designed mother or small daughter board
already designed and scribed out so all of us older folks with weak eyes, and
unsteady hands, could easyily install the parts to make the circuit.
   All we would have to do is try and solder the parts to the board, and
hopefully make it work. Many of us are not good at designing and a small
already designed printed circuit board would be very usefull and a great help.
   Maybee someone on the sig could design, develope and supply the circuit
already on a board, would help in the kit building process.
   Perhaps Clement Engineering could make it and include with the kit of
parts. ??
    For consideration. Got my kit other day, and scratching my head on
building the Mic-encoder circuit without goofin it up. Hi.. & Thanks

    73's & Enjoy, APRS, TRY IT YOU'LL LIKE IT, AND OUTSTANDING PACKET PROGRAM
                  FOR ALL...........
NNNN

WBB/WB6LPG
```

---

337. TORNADO WARNING IS POSSIBLE

From: KD4EMI@aol.com
Date: Mon, 10 Jun 1996 23:06:43 -0400
To: aprssig@tapr.org
Message-ID: <960610230642_324403809@emout17.mail.aol.com>
Rendered body type: text/plain

ASk and the Gods giveth...

If your on AOL use KEYWORD TORNADO ALLEY and look up the wx store info... I copied this for the others to read. There is a picture in the aol catolog but I cant get it...It looks like a PVC pipe with a coax on one end.

Here is the ad:

This LSU-2001 lightning sensor can detect lightning ground strikes over 200 miles away, yet it is immune to electrical and radio interference. The unit is fully assembled and completely weather-proof . It is encased in hard PVC plastic and the internal solid-state VLF receiver is encased in hard amber-like epoxy plastic. The built-in all-directional 10" long heavy copper detection antenna is unbreakable. The sensor's small cross-section makes a small target for hailstones and debris during severe weather. The unit is input, output and overload protected. Its sensing system uses a patented solid-state wideband very low frequency electrostatic transistor "crystal" radio receiver. This design allows the sensor to draw NO battery power unless lightning is detected.   The output is quasidigital, meaning that the stronger detected signals cause larger output currents. The sensor digitizes the detected lightning signals so computers and pulse counters can readily use it. Each sensor pulse represents a single lightning event or an individual part of a lightning return stroke chain. The sensor can separate lightning discharges and return strokes occurring as fast as 100th of a second apart.

To use this sensor, you must purchase additional parts at a local electronics store, such as Radio Shack. The components are inexpensive. The sensor come with easy-to-follow diagrams of nine different methods of wiring your sensor, each with a complete parts list, such as; making a pop sound as each stroke is sensed; connection to a range meter; connection to a computer; or connection to a siren type of alarm. You should have a basic knowledge of soldering. I made mine portable by using a plastic electrical box for the components and an alligator clip for ground. It makes a clicking sound anytime lightning is near. I had a lot of fun making it...and if I can do it, so can you. This is a great high-quality do-it yourself lightning kit.

The Weather Mall guarantees the unit for one full year. Made in the USA.
 Item #4426

Price: $39.95

Optional Software: Stormwise Lightning Recording System Software for PCs. It turns your computer into a powerful data logging system. It can count, graph, and print data. Recorded data has a date time stamp for each event. Recording rates of 1, 10 or 60 seconds can be selected. An automatic start recording feature can be set to start recording data to disk when a count-per minute threshold is exceeded. The software comes with an infrared serial port interface which links the software and computer to the outside world without wire connections - thus your computer is not physically connected to the lightning sensor. If the system detects a rapid rise in lightning activity common in severe storms, the computer sounds an alarm. A great addition to any home weather station or a fun way to start one.

Price: Sensor & Software $79.95

Johnny, show the folks whats behind door # 2

This next little baby is a HAND HELD !! T-STORM and lightning detector. IT looks very high tech with LED'S etc...

Here is the dope on that...

people will go through life and never see a tornado or experience a hurricane, but everyone will experience lightning. Roughly 200 people are killed by lightning each year. You may have read recently where in Texas, several boys on a high school football team were struck and killed by lightning. What you didn't know was that at nearby Rice University the coaching staff had this SkyScan lightning detector with them as the storm was approaching. The unit warned the coaches and the players were pulled off the field. The storm passed through the area and hit the high school boys.

This hand-held instrument with the electronic sophistication to detect lightning as far away as 40 miles and accurately ranges its approach, by both audible tone and four LED's which are ranged in miles (20-40, 8-20, 3-8, 0-3). This feature tells users if the storm is moving towards, away, or parallel to their position. The unit even has a severe thunderstorm mode that activated a severe storm warning light and special audible tone, alerting the user to take immediate action.

Features: SkyScan is powered by two 9 volt batteries and has a power saver mode. Range select allows the user to choose the range at which the unit will alarm. Automatic false trigger alert occurs whenever the unit detects background noise high enough to interfere with the accurate detection and ranging of lightning. The unit is contained in a rugged weather resistant plastic case with built-in belt clip. 6.5"H, 3.1"W, 1.5" D. Weighs 10.8 oz. without batteries.

I highly recommend this unit to anyone responsible for others during outdoor activities such as golf courses, outdoor sports teams, swimming pools, sailors, construction workers, or kids at a picnic. Also farmers plowing a field, golfers in Florida, and the list goes on. Comes with the makers one year guarantee which is doubled by the Weather Mall to two years. Makes a thoughtful gift.

Price: $199.00

Ok, do you guys think I should go for it ?? I can get one and see if I can interface a stamp to it.. The alert will prgram a parameter in the TNC to change one wx parameter...OR
Bob B...
Can you make a lightning or T storm alert text for aprs ?
If folks are interested in this stuff, let me know and I'll pursue it.
I can forsee a lightning alert station every few 100 miles...?
OR EVEN BETTER...
use the pager function on the new Kantronics tnc and BEEP EVERYONE about incoming bad wx ?
Im so excited I can hardly type !!
Michael
KD4EMI@AOL.COM
Time to lick those stamps...

338. Re: [APRSSIG:1805] APRS Mic-Encoders Kit..

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 11 Jun 1996 00:30:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960611002853.4018H-100000@arctic>
Rendered body type: text/plain

On Mon, 10 Jun 1996, William B. Bliss/WB6LPG wrote:

> Hi Bob,
> Regarding the Mic-ENc kit, any thought to including in the kit of parts
> for the Mic/ENC, a small circuit designed mother or small daughter board
> already designed and scribed out so all of us older folks with weak eyes, and
> unsteady hands, could easyily install the parts to make the circuit.

APRSdos REPLY COMMENT: Certainly. We are working on a complete new layout, but it will be months before it is in production. In the meantime, there is no need to compress the duaghter board as small as I indicated. Levae yourself plenty of room for a nice casual assembly...

de wb4apr@amsat.org

339. Re: [APRSSIG:1780] APRS76 and MFJ1278?

From: Don Murray <james-m@ix.netcom.com>
Date: Mon, 10 Jun 1996 23:05:21 -0400
To: aprssig@tapr.org
Message-ID: <31BCE271.5D7D@ix.netcom.com>
Rendered body type: text/plain

roseag@miavx2.ham.muohio.edu wrote:

>
> Does APRS76 work with the MFJ 1278 TNC? This TNC is not one of the choices.
> Can the .TNC file be changed from one of the other .TNC files so that the
> MFJ's can be used.
> ?
>
> Thanks in advance,
> 73, Alan N1FLD

Alan, I use the 1278B to run aprs here with no problems, just take a

look at the commands that are suggested, and then look and see if you have a similiar command on the 1278B. I can and will send you my config file if you think it would help..
Don

340. 8 More Blackjacks up for Grabs!!!

From: ku0g@sprynet.com
Date: Mon, 10 Jun 1996 21:36:47 -0700
To: aprssig@tapr.org
Message-ID: <199606110436.VAA16543@m1.sprynet.com>
Rendered body type: text/plain

WARNING!!! The following is advertising by direct EMail to the APRS SIG! If you are offended by this, please close this message and delete it now. No offense is taken if you exercise your inalienable right to be left alone!

If you haven't reserved one of the Blackjack GPS Antennas before now and were waiting for more to be available, the time is NOW!!! I have 8 antennas left that the people who made reservations failed to follow up with the order and payment. So, the deal is this:

Send me EMail advising of the mailing of your order and money order ($43.00 to Blackjack Antenna, 13 N.W. Barry Rd., Kansas City, MO 64155) and I'll respond by EMail of the confirmation of YOUR reservation.

COD shipment available ONLY in United States!! Canadians, sorry.....you guys need to send payment up front in U.S. funds.

If the first batch was any indication, these 8 will go FAST!!! I can't produce any more antennas or the other items I'm getting ready to release with moving the rest of these antennas...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

341. Re: [APRSSIG:1802] Weather info

From: ku0g@sprynet.com
Date: Mon, 10 Jun 1996 22:22:36 -0700
To: aprssig@tapr.org
Message-ID: <199606110522.WAA24202@m1.sprynet.com>
Rendered body type: text/plain

Neat idea!!!! Go for it!!! I'd like to see it!!!
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

342. Re: [APRSSIG:1806] TORNADO WARNING IS POSSIBLE

From: John Wasmuth <jwasmuth@iquest.net>
Date: Tue, 11 Jun 1996 00:54:00 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960611055400.006953e4@iquest.net>
Rendered body type: text/plain

At 10:55 PM 6/10/96 -0500, you wrote:
>ASk and the Gods giveth...
>
>If your on AOL use KEYWORD TORNADO ALLEY and look up the wx store info... I
>copied this for the others to read. There is a picture in the aol catolog but
>I cant get it...It looks like a PVC pipe with a coax on one end.
>

>Michael
>KD4EMI@AOL.COM
>Time to lick those stamps...
>
>
>
Do you have an 800 number or mailing address where those of us not on
Prodigy can get more info from this company?

John Wasmuth
Amateur Radio: AA9K(ilo)B(tye)

Email: jwasmuth@iquest.net

```
Voice phone (days): 317-692-7935
        (evenings): 317-845-0562
Data/Fax phone    : 317-845-1277
```

Coordinates: 39' 57.59" N 86' 02.09" W
Weather information available
by connecting to AA9KB-2 on 145.03

---

343. Re: [APRSSIG:1806] TORNADO WARNING IS POSSIBLE

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 11 Jun 1996 02:19:47 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960611021949.2f5f497c@mailhost.primenet.com>
Rendered body type: text/plain

At 10:55 PM 6/10/96 -0500, KD4EMI@aol.com wrote:

>Features: SkyScan is powered by two 9 volt batteries and has a power saver
>mode. Range select allows the user to choose the range at which the unit
>will alarm. Automatic false trigger alert occurs whenever the unit detects
>background noise high enough to interfere with the accurate detection and
>ranging of lightning. The unit is contained in a rugged weather resistant
>plastic case with built-in belt clip. 6.5"H, 3.1"W, 1.5" D. Weighs 10.8 oz.
>without batteries.
>
>Price: $199.00
>

Sounds cool, they used to advertise it in the Edmund Scientific Catalog,
but I havn't seen it in there lately.
I think ES had a lower price, go figure. $200 sounds a little steep. I'd
buy one, if, and only if, it came with a reasonable trial period. I've been
dissapointed by stuff like this in the past.   I bought Radio Shack's pocket
storm-alert weather radio a few years ago, and after trying several units,
couldn't get one to work. Oh sure they received the NWS bulletins, but
never once sounded when the 1060 HZ tone was sent. I bought a slightly
larger MAXON WX-Alert radio and it works fine. In fact, I'm probably going
to buy a new one and give the old one away. Heck, for about $1000 you can
pick up a 3M Storm Scope and see exactly where the lighning is striking!

>Ok, do you guys think I should go for it ??   I can get one and see if I can
>interface a stamp to it.. The alert will prgram a parameter in the TNC to

>change one wx parameter...OR
>Bob B...
>Can you make a lightning or T storm alert text for aprs ?
>If folks are interested in this stuff, let me know and I'll pursue it.
>I can forsee a lightning alert station every few 100 miles...?
>OR EVEN BETTER...
>use the pager function on the new Kantronics tnc and BEEP EVERYONE about
>incoming bad wx ?
>Im so excited I can hardly type !!

I think we covered this before. The FCC frowns on "special event"
triggering of amateur radio transmissions. One person on this sig has fully
researched this in conjuction with using the NWS weather alert to signal
APRS stations automatically the second the alert is received. The FCC says
it's a no-no. BUT one could certainly
include lighning strike information in one's regularly sent beacon.   It may
not be as good a solution, but at least it's something.

How about a lightning strike counter?

73,

Mark Fellhauer - KC7BXS
sparkfel@primenet.com

---

344. Magellan CNS-12

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 11 Jun 1996 02:28:37 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960611022838.2f5fd704@mailhost.primenet.com>
Rendered body type: text/plain

I recently came across an ad for the Magellan CNS-12 GPS/ACARS unit which
will parse GPS location information into an ACARS beacon. It looked pretty
neat, but at $10,000.00, I think I'll stick with my Magellan Trailblazer XL
and KPC-3. (G)

Plus I don't think the CNS-12 will fit in my backpack.

Mark Fellhauer - KC7BXS
sparkfel@primenet.com

---

345. Re: [APRSSIG:1806] TORNADO WARNING IS POSSIBLE

From: William Nolle <wnolle@ix.netcom.com>
Date: Tue, 11 Jun 1996 04:31:11 -0700
To: aprssig@tapr.org
Message-ID: <31BD58FF.17A0@ix.netcom.com>
Rendered body type: text/plain

Sounds great to me Michael. Keep us posted on this, would love to see
something like that interfaced with APRS. I have heard some talk about this a
long time ago (Before the sig i believe) on packet in the early days of aprs.
I just downloaded a demo program from a lightning tracker with a map for
florida, the demo looked great, but this setup cost $499.00 a little much i
think. The map was another $59.00 and was just a map in PCX format. Keep us
posted Michael.

Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.rog
http://www.netcom.com/~wnolle

KD4EMI@aol.com wrote:
>
> If folks are interested in this stuff, let me know and I'll pursue it.
> I can forsee a lightning alert station every few 100 miles...?
> OR EVEN BETTER...
> use the pager function on the new Kantronics tnc and BEEP EVERYONE about
> incoming bad wx ?
> Im so excited I can hardly type !!
> Michael
> KD4EMI@AOL.COM
> Time to lick those stamps...

---

346. Re: [APRSSIG:1812] Re: TORNADO WARNING IS POSSIBLE

From: William Nolle <wnolle@ix.netcom.com>
Date: Tue, 11 Jun 1996 06:39:00 -0700

To: aprssig@tapr.org
Message-ID: <31BD76F4.7ECF@ix.netcom.com>
Rendered body type: text/plain

```
Mark Fellhauer wrote:
>
> At 10:55 PM 6/10/96 -0500, KD4EMI@aol.com wrote:
>
> >use the pager function on the new  Kantronics tnc and BEEP EVERYONE about
> >incoming bad wx ?
> >Im so excited I can hardly type !!
>
> I think we covered this before.  The FCC frowns on "special event"
> triggering of amateur radio transmissions.  One person on this sig has fully
> researched this in conjuction with using the NWS weather alert to signal
> APRS stations automatically the second the alert is received.  The FCC says
> it's a no-no.  BUT one could certainly
> include lighning strike information in one's regularly sent beacon.   It may
> not be as good a solution, but at least it's something.
>
> How about a lightning strike counter?
>
> 73,
>
> Mark Fellhauer - KC7BXS
> sparkfel@primenet.com
>

This is hard to understand because why is it ok to transmit the WX info from a
Davis or peet brothers weather station, but not from a Lightning detector
receiver!. I fail to see the difference myself. Hummmm
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

347. Re: Tornado Warning is possible

From: rwf <rwf@mindspring.com>
Date: Tue, 11 Jun 1996 07:45:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960611074253.3db7b834@mindspring.com>
Rendered body type: text/plain

```
Mike-

 A Ham Vendor was selling those lightning detector sensors (the stick with
the 9 v battery) at the Miami Hamfest.  I think he was in that low ceiling
hallway area at the back.  Maybeyou or one of your local folks picked up the
literature.   I think the 39.00 price was close, but they had a different
model too that you haven't mentioned.

When I get home from this trip (I am in Knoxville, Cookevilie, Rockwood TN
this week)  I'll see if I can dig up the info for you.




                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
      rwf@mindspring.com  or  n4neq@amsat.org
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and
APRS. Ask me how!
```

348. Re: [APRSSIG:1804] Re: WINAPRS 'features'?

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 11 Jun 96 08:32:21 -0400
To: <aprssig@tapr.org>
Message-ID: <199606111229.IAA08830@bridge.net>
Rendered body type: text/plain

```
>>I've been running a registered copy of winAPRS for the last 2-3 weeks as a
>>Gateway in Long Island (hf->vhf only) and have noticed a few 'bugettes'
>>which I wonder if anyone else has seen.
>>
```

```
>>-my Gate symbol frequently (3-4 times a day) gets changed back to the
>>default qth symbol. It can be reset by forcing my position to be re-sent.
>
>Probably the result of having a old BTEXT permed into your TNC.  Try this:
>BTEXT and type in several spaces or one or two characters.  That should
>clear
>out the old BTEXT that DOS APRS probably wrote in on a software shutdown...
>
No...this is a problem that has been in MacAPRS for some time, seems to
occur very rarely, and due to bad data packets that gets sent out
occasionally from a stand-alone tracker. While using the same code as
MacAPRS got WinAPRS running fast, it also means you get to share our
bugs. KT4FI and I have told Keith about it before, seems to be a very
difficult bug to reproduce and remove. When it does happen here in South
Florida, it attracts all stations to the same point at the same
time...the last time it happened here, my Keys house, Miami house, and
KT4FI all went to 'visit' KA4OPZ. If you have a log file, I suspect Keith
would like to see it to track down the problem.

73 de Steve KO4HD
```

---

349. Re: [APRSSIG:1804] Re: WINAPRS 'features'?

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 11 Jun 1996 07:39:58 -0500
To: aprssig@tapr.org
Message-ID: <199606111239.HAA04214@tbc2.tbcnet.com>
Rendered body type: text/plain

```
On the other hand...

My WinAPRS is running on a Win 3.1 (32 bit), 386/387, and FOUR, count 'em,
FOUR meg of ram.  It doesn't run as fast as the Pentium, but I don't need it
too.

I've left it on 24 hr/day, 7 day/wk, and the only time it's studdered was
when I tried to do something to the tnc/serial port setting without shutting
down the port first.

And on my KPC3, when I tried to change BTEXT, a space wouldn't work.  I
think the book sez a "%" will reset the text.

73's
jbl



At 22:00 6/10/96 -0500, you wrote:

>
>8 MB is BARE MINIMUM for running WinAPRS.  I added 1 MB and it runs fine but I
>still will get an ocassional lock-up or crash due to having too many things
>running at once!  It's simply a matter of having enough memory available.
>Remember, WINDOWS IS A MEMORY HOG!!!  The more you have, the more you still
>need!!!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

---

350. APRS/Pentium/Windows 95

From: Farrell Winder <fwinder@one.net>
Date: Tue, 11 Jun 1996 09:22:47 -0400
To: aprssig@tapr.org
Message-ID: <199606111322.JAA27423@mail.one.net>
Rendered body type: text/plain

```
In anticipation of purchasing computer upgrade would appreciate reply from
anyone who might be successfully using APRS 75 or later version with Pentium
and Windows 95. Many thanks,  Farrell Winder W8ZCF Cincinnati, Ohio.
```

---

351. GPS and Lightening/Tornado tracking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 11 Jun 1996 09:31:31 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960611091344.21225A-100000@arctic>
Rendered body type: text/plain

All of this discussion about storm tracking and lightening detection can be combined with the precise time output of the TAPR GPS receivers to plot the positions of lightening strikes over hundreds of miles!

The one microsecond precise time combined with a very simple LF receiver to detect strikes can make it easy to triangulate the location of each strike and plot them in real time on the APRS map. With this timing accuracy, position to about a quarter mile should be possible.

Hardware would consist of a GPS receiver, a couple of transistors for the LF lightening receiver, and a TNC/radio to report the precise time of each strike. Special APRS software would compare the strike reports and plot each one on the map...

This would give not only SKYWARN folks information on approaching storms, but would also give interested HAMS advance warning of approaching sever lightening so that protective measures can be taken for their satellite stations...

Just another application of the precise time output of the TAPR GPS receivers.. (TAPR is putting together another group purchase at $179)

de wb4apr@amsat.org

---

352. Re: [APRSSIG:1804] Re: WINAPRS 'features'?

From: schiers@ames.net
Date: Tue, 11 Jun 96 08:40:55 -0500
To: aprssig@tapr.org
Message-ID: <199606111343.IAA28473@tapr.org>
Rendered body type: text/plain

```
In <708321@bbs.ames.net>, on 06/11/96 at 02:19 AM,
   aprssig@tapr.org said:

>On Mon, 10 Jun 1996, w2g3zfj@unix.asb.com (bob) wrote:
>>Hi Folks
>>
>>I've been running a registered copy of winAPRS for the last 2-3 weeks as
>>Gateway in Long Island (hf->vhf only) and have noticed a few 'bugettes'
>>which I wonder if anyone else has seen.
>>
>>-my Gate symbol frequently (3-4 times a day) gets changed back to the
>>default qth symbol. It can be reset by forcing my position to be re-sent.

>Probably the result of having a old BTEXT permed into your TNC.  Try
>this:   BTEXT and type in several spaces or one or two characters.  That
>should clear  out the old BTEXT that DOS APRS probably wrote in on a
>software shutdown...

>>
>>-when I go tracker mobile, g3zfj-9, on every occassion when I return home
>>several of the position reports will have labels either for other station
>>or like times e.g. 15:23:34 etc. Last weekend I parked and left the track
>>on, when I got home there was kd4uyr sitting in Oakdale! I knew Kevin
>>wouldn't have moved from Fl!

>This happens to me too!  I think it's a minor program bug...

>>
>>-if I manipulate screens it will crash quite often i.e. open/close a few
>>windows. If I leave it alone its very stable.
>>
>>Info:- Kam Plus, 80MHzdx2 clone, 8M Ram, winAPRS v1.0

>8 MB is BARE MINIMUM for running WinAPRS.  I added 1 MB and it runs fine
>but I  still will get an ocassional lock-up or crash due to having too
>many things  running at once!  It's simply a matter of having enough
>memory available.   Remember, WINDOWS IS A MEMORY HOG!!!  The more you
>have, the more you still  need!!!

>Best 73,
>Jim Duncan, KU0G
```

I think there is a lot more to this occasional crashing business. I have
12 mb ram and after the program runs for a few days, a crash seems pretty
likely, even with just two windows open. One thing I have noticed is that
if I have five or six outstanding packets (messages), there is a
significant chance the program will crash when moving to a new window.
So....even with adequate memory and keeping the number of windows small,
the program has bugs ...as is expected. Don't expect increased memory to
ELIMINATE all crashing...the program is definitely not in that state yet.
More memory is certainly better and desirable...but...

73,

hasan schiers, N0AN--
----
schiers@ames.net

---

353. Re: [APRSSIG:1796] Re: WINAPRS 'features'?

From: schiers@ames.net
Date: Tue, 11 Jun 96 08:44:30 -0500
To: aprssig@tapr.org
Message-ID: <199606111344.IAA28502@tapr.org>
Rendered body type: text/plain

In <708100@bbs.ames.net>, on 06/10/96 at 09:22 PM,
   aprssig@tapr.org said:

>> -if I manipulate screens it will crash quite often i.e. open/close a few
>> windows. If I leave it alone its very stable.

>It's not oftern for me, but it does crash after many window opens/closes.
>It seems like a memory leak in the window close code. I'm not sure it
>I'd blame WinAPRS or Windows.

I agree...it tends to happen with opening and closing windows a
lot...which is an important feature of the program. It will get fixed, I
am sure.

73,
hasan schiers, N0AN--
----
schiers@ames.net

---

354. Re: [APRSSIG:1802] Weather info

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 10 Jun 1996 21:55:38 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960611015538.00713f60@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 09:04 PM 6/10/96 -0500, you wrote:

>Might be kinda fun to see if anyone is interested in this.. I once saw in
>QST or one of Wayne Greens mags (73 ?) about a home brew lightning sensor.
> Can anyone get a hold of that, I build more and everyone can play along ?
>Any thoughts ?
>
There's an article in Scientifc American, the amateur scientist column, May
96 about a Low frequency ElectroMagnetic (EM) Wave detector. The detector is
just an antenna, with some op amplification and low pass filtering. The main
purpose of the detector is to study earthquakes precursors (some scientists
reported low frequency EM activity before the Kobe earthquake), but the
antenna is actually very sensitive to lightning, and the system can be use
to monitor thunderstorms activity (look at the article for details).
As far as detecting how far a thunderstorm is, like the kit your were
speaking about, i doubt about the accuracy of the system.
For aprs a "lightning level", or "EM activity level", indicator may be nice.
By plotting this parameter on the map one could easily follow the
thunderstorm path.
Instead of adding one defined parameter to APRS wx reports, it may be better
to allow for the transmission of any user defined parameter. This is already
included in APRS, look at telemtry.txt in the readme directory.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu

```
http://rock.ess.sunysb.edu:8080/
```

---

355. Re: [APRSSIG:1815] Re: TORNADO WARNING IS POSSIBLE

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Tue, 11 Jun 96 07:23:14 PDT
To: aprssig@tapr.org
Message-ID: <9606111423.AA14780@eng.adaptec.com>
Rendered body type: text/plain

```
> From aprssig@tapr.org Tue Jun 11 05:44:40 1996
> > Mark Fellhauer wrote:
> >
> > I think we covered this before.  The FCC frowns on "special event"
> > triggering of amateur radio transmissions.  One person on this sig has fully
> > researched this in conjuction with using the NWS weather alert to signal
> > APRS stations automatically the second the alert is received.  The FCC says
> > it's a no-no.  BUT one could certainly
> > include lighning strike information in one's regularly sent beacon.   It may
> > not be as good a solution, but at least it's something.
> >
> > How about a lightning strike counter?
> >
> > 73,
> >
> > Mark Fellhauer - KC7BXS
> > sparkfel@primenet.com
> >
>
> This is hard to understand because why is it ok to transmit the WX info from a
> Davis or peet brothers weather station, but not from a Lightning detector
> receiver!. I fail to see the difference myself. Hummmm
> --
> Bill KE4EER
> wnolle@ix.netcom.com

This isn't really the appropriate forum...but I'll take a whack at all
the above while wearing my ARRL OO hat.(then suggest it be carried
on in rec.amateur.policy for follow ups..)

There is a subtle difference here...and I'm going to try to explain
my understanding of the rules(and how I'd apply them to write an
appropriate OO card...)  Anyway,  you are probably all aware that
it is a bozo nono to retransmit the NWS radio stations...that is
because they are another radio service and this is forboten! On
the other hand, if a station under automatic control announces it
is 12pm..this is okay(much like announcing that my lightning sensor
went off...duck!)  This isn't a retransmission of data that
originated on another radio service, but rather from a sensor
attached to the stations computer.  This should be okay.  Go
for it.

Another corrolary event that gets brought up in this discussion is
"Why can't I have someone phone by system and have it announce THAT
on the radio..That is just another example of automatic control."
Also commonly called the "ring-back" function on some repeaters.
The league took a look at this about 4 years ago in a QST article
and explained that the cause of the signal on the air could be
a non-licensed person, thus it was also bozo nono.

Sorry for taking up the SIGs time on something that really belongs
on the .policy group..but hopefully it'll shine some light on the
issue.  If you have questions...or want to argue about it with me(which
is what happens in .policy ;-) then send me private email...please
don't polute the SIG with it...

73 de Steve KA6S
stevew@eng.adaptec.com
```

---

356. Re: [APRSSIG:1800] Re: Florida Statewide APRS Meeting

From: Dennis Mobley <dmobley@encore.com>
Date: Tue, 11 Jun 1996 10:39:02 -0400
To: aprssig@tapr.org
Message-ID: <31BD8506.15FB@encore.com>
Rendered body type: text/plain

```
n2czf@gate.net wrote:
>
> >
>
```

> I would say that we agree on most of the points even if we both look at it from
> different ends. My end has been from long time APRS users, many of us speak on
> the LL and internet quite often for long periods, I have the phone bills to
> prove it.
>

SNIP

Rich,
First off thank you for a well written reply.

I do believe that we have the same goals and our only difference is
limitation of attendance of the APRS seminar.

To address issue you have posted...

1. " I am willing to spread the word and take $$ out of my
   pocket to travel if there is enough interest."

   We agree.

2. "..my ABC TNC will not work with version SNAFU! why?"

   Lets plan a training seminar also.

3. "My end has been from long time APRS users..."

   It is my observation that you have put the effort into
   APRS and have earned the right to a position of
   respect and authority within this field.

4. ">Also, who is going to enforce any resulting policies?"

   My point is that if enought folks engage in the
   planning seminar, any resulting "policies" would
   be easyer to enforce by peer pressure rather them
   and iron fisted authority.
   (We all know just how far that would go :-)

5. "I know that many down near you have somewhat of a problem with
   groups and networking but if this is the case then APRS will NEVER
   EVER WORK as it was intended to."

   The only answer is "yep". (the land of the WIDES)

My goals for APRS is two fold...

1. Experimentation.
2. Present another tool for the local ARES/RACES folks.
   This is my primary reason that I excepted the captain
   of the digital team for the local ARES/RACES FD96.

Rich, as I stated in the past, I will support a well thought out plan
with both effort and dollars.

I reconize your position in this endeavor and, if needed, would
be glad to assist.

To the rest of the SIG, thank you for the indulgence and bandwidth.
Rich and I can now move onto direct email.

Thank you & 73
Dennis Mobley
Sunrise, Fl

---

357. Re: GPS and Lightening/Tornado tracking

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 11 Jun 1996 10:46:12 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960611144612.00733dbc@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 08:38 6/11/96 -0500, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>All of this discussion about storm tracking and lightening detection can
>be combined with the precise time output of the TAPR GPS receivers to
>plot the positions of lightening strikes over hundreds of miles!
>
[description of how to do it with an lf rcvr & tnc]
>
>This would give not only SKYWARN folks information on approaching storms,
>but would also give interested HAMS advance warning of approaching sever
>lightening so that protective measures can be taken for their satellite

```
>stations...
>
[...]

I believe there's a satellite or other system that maps cloud to ground
lightning already. Bob Ryan, weatherman of Channel 4 in DC shows it
sometimes. Don't know the coverage or precision of it, though. Anyone
an expert?

Bob Kirk
N3OZB
```

---

358. Re: [APRSSIG:1780] APRS76 and MFJ1278?

From: llbaker@erinet.com (larry baker)
Date: Tue, 11 Jun 1996 12:00:20 -0400
To: aprssig@tapr.org
Message-ID: <199606111600.MAA21151@in-mail.erinet.com>
Rendered body type: text/plain

```
>Does APRS76 work with the MFJ 1278 TNC?  This TNC is not one of the choices.
>Can the .TNC file be changed from one of the other .TNC files so that the
>MFJ's can be used.
>?
>
>Thanks in advance,
>73, Alan N1FLD
>
>
>
Alan I run an MFJ 1278B I just call it a TAPR and everything works fine.
                                       73 Larry KB8EMD
```

---

359. Re: [APRSSIG:1783] Re: Kenwood Service

From: Ken Mirabella <kjm@flo-bin.com>
Date: Tue, 11 Jun 1996 08:36:52 -0700
To: aprssig@tapr.org
Message-ID: <31BD9294.606D@flo-bin.com>
Rendered body type: text/plain

```
I am not a big Kenwood fan but just recently sent my 942 mobile in for
service, it took them 7 working days.  What they don't do is tell you it
is ready.  I finally called after 4 weeks and asked about it.  they sais
(and the paperwork agreed) that it was done weeks before.)

Thats my 2 cents.

KM6YH


Paul Christenson wrote:
>
> > > My Kenwood 940S that I use for APRS on HF rolled over and died last night.
> > > Tech or service center should be located in CT or close to metro New York City
> > > area.
>
> > Why don't you send it back to Kenwood?
>
> Maybe he wants it back by Christmas^H^H^H^H^H^H^H^H Field Day???
>
> <G>
>
> A few years ago, 73 did a "review" on the service facilities of the major rig
> manufacturers.  For Kenwood, turnaround was typically four to six months.
>
> (Icom was less than two weeks.)
```

---

360. Re: [APRSSIG:1785] Re: Precision Mapping 2.0

From: Ken Mirabella <kjm@flo-bin.com>
Date: Tue, 11 Jun 1996 08:42:32 -0700
To: aprssig@tapr.org
Message-ID: <31BD93E7.6B1E@flo-bin.com>
Rendered body type: text/plain

```
Gerry, I can not get their dll.zip to unzip after 5 attemps.  I have
written to them that they may have a problem.  Could you re-zip their
dll's and e-mail them to me. (we also write VB 4.0 code).

I would like to see a toolbar on PMap 2.o GPS that will let you draw
```

vectors (DF lines) from the GPS blip. What would be ideal is a drop
down box that would prompt you for the degrees of heard. (bearing 48
degrees true) maybe even an alt-D shortcut to activate the drop box.

Thanks for your assistance.

KM6YH

Gerald J Creager wrote:
>
> Indeed, they tell you how to load it to a specific directory. One thing you
> need is a CD and some form of transfer cable/program: Texas is 48 megabytes!
>
> The GPS interface I'm working on is seperate from theirs, using their DLLs to
> interface to PM2.0.4
>
> 73, gerry

---

361. GPS-20, Any box ideas?

From: randyh@gvgadg.gvg.tek.com (Randy Hall)
Date: Tue, 11 Jun 1996 08:59:33 -0700
To: aprssig@tapr.org
Message-ID: <9606111559.AA15310@gvgadg.gvg.tek.com>
Rendered body type: text/plain

Hi,

I received my GPS-20 yesterday. I see what the other fellow meant about the
connector, tiny!

I was wondering if anyone has any ideas about a box to put this into? The
box would also need to have some room for the 12V -> 5V reg.

So, if anyone has any good box suggestion, please pass them along.

Randy
WA2AGE

---

362. Re: [APRSSIG:1819] APRS/Pentium/Windows 95

From: Ken Mirabella <kjm@flo-bin.com>
Date: Tue, 11 Jun 1996 09:03:56 -0700
To: aprssig@tapr.org
Message-ID: <31BD98EC.23FD@flo-bin.com>
Rendered body type: text/plain

Farrell Winder wrote:
>
> In anticipation of purchasing computer upgrade would appreciate reply from
> anyone who might be successfully using APRS 75 or later version with Pentium
> and Windows 95. Many thanks, Farrell Winder W8ZCF Cincinnati, Ohio.

Go buy it - as fast a cpu and as much ram as you can afford (32 megs
ideal). Every thing runs great on my 586/100 32 megs ram.

KM6YH

---

363. APRS 76D on a Pentium 120

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 11 Jun 96 12:01:27 -0700
To: aprssig@tapr.org
Message-ID: <199606111608.LAA09874@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

This thingy works just fine on an Aptiva Pentium 120 using Win95.

JSR
KC5JGV

---

364. (Bug in 76 and 76c

From: AD4CR@aol.com
Date: Tue, 11 Jun 1996 13:52:32 -0400
To: aprssig@tapr.org
Message-ID: <960611135232_215106716@emout08.mail.aol.com>
Rendered body type: text/plain

Hi Bob, There seems to be a bug in APRS. Was there in version 76..and also in
76c. I am using a Kam+ and we had the same problem in version 70 I think it

```
was. It happens when someone connects to your mailbox and leaves you  mail it
also shows up on your read screen. Also if you go into O+C+T and talk to your
tnc you get a  "|A" at the beginning of your command line and also may get it
anywhere when your tnc shows the command. Hope that helps
AD4CR @AOL.COM
```

---

365. Garmin 45 WPT bug?

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 11 Jun 1996 15:04:23 -0400 (EDT)
To: aprssig@tapr.org
Cc: bennett@triumf.ca
Message-ID: <Pine.SUN.3.91.960611144526.27121A-100000@arctic>
Rendered body type: text/plain
```

```
I uploaded waypoints into the Garmin 45 and they all
went onto the WAYPOINT list just as expected.

BUT no matter what I did, they would not show up on the map.

After giving up, I turned off the GPS and when I came back later and
powered the GPS back on again, NOW all the waypoints DO show on the map!

Called GARMIN Tech Service, and the guy reluctantly fired up his PC
and got the SAME RESULTS!  He said "well, your right.  You will have to
toggle the power"...

I encouraged him to persue this back to the softwtare engineeers and make
sure that he and I were not just doing something wrong.  Im not sure if
he thinks it is that important.  But it is very important to me.  Maybe
we have to send some kind of "STORE" command after uploading waypoints
that tells the GARMIN to "activate" these new points.

Has anyone else figured this one out?

de wb4apr@amsat.org
```

---

366. Re: [APRSSIG:1819] APRS/Pentium/Windows 95

```
From: Gary Arnold <garnold@naples.net>
Date: Tue, 11 Jun 1996 16:05:13 -0700
To: aprssig@tapr.org
Message-ID: <31BDFBA9.3417@naples.net>
Rendered body type: text/plain
```

```
Farrell Winder wrote:
>
> In anticipation of purchasing computer upgrade would appreciate reply from
> anyone who might be successfully using APRS 75 or later version with Pentium
> and Windows 95. Many thanks,  Farrell Winder W8ZCF Cincinnati, Ohio.

Good luck Farrell...it's my considered opinion that virtually nothing
runs successfully using Windoze 95.  Spent 4 hours the other night
configuring a modem to run under 95, which is billed as
auto-configuring/plug 'n play.  I don't think so!

73,
Gary
___________________________________________
Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I'm writing an unauthorized autobiography."
           -- Steven Wright, perpipheral visionary
```

---

367. Re: [APRSSIG:1783] Re: Kenwood Service

```
From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Tue, 11 Jun 1996 20:23:47 GMT
To: aprssig@tapr.org
Message-ID: <199606112023.UAA01786@mailhost.worldnet.att.net>
Rendered body type: text/plain
```

```
>A few years ago, 73 did a "review" on the service facilities of the major rig
>manufacturers.  For Kenwood, turnaround was typically four to six months.
```

>
>(Icom was less than two weeks.)
I sent a Knewood 701, which was 10 years old, back to the East Coast facility and they did a Factory Mod
FREE and returned the unit postage paid in about two weeks.
For my money, you can't beat that kind of service!!!

Bud (WB4LTF)

---

368. RE: [APRSSIG:1830] GPS-20, Any box ideas?

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 11 Jun 1996 16:44:16 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Cc: "'WB4APR@amsat.org'" <WB4APR@amsat.org>,
"'WD5IVR@tapr.org'"
 <WD5IVR@tapr.org>
Message-ID: <01BB57B5.3CF4E4C0@gwyn.paccomm.com>
Rendered body type: text/plain

On Tuesday, June 11, 1996 7:05 AM, Randy Hall[SMTP:randyh@gvgadg.gvg.tek.com] wrote:
>Hi,
>
>I received my GPS-20 yesterday. I see what the other fellow meant about the
>connector, tiny!
>
>I was wondering if anyone has any ideas about a box to put this into? The
>box would also need to have some room for the 12V -> 5V reg.
>
>So, if anyone has any good box suggestion, please pass them along.
>
>Randy
>WA2AGE
>
>
>

Here is an idea, if you can wait a few weeks.

PacComm is gearing up to produce WB4APR's Mic Encoder (which will likely be available via TAPR). We've decided to add mounting points for the GPS-20 so someone can mount the GPS receiver in the same case if they like.

Fringe benefits: You will also be able to use the Mic Encoder circuit board as a GPS-20 carrier/support board, and mount it in the same case. We'll provide physical support, RS-232 conversion, power regulation, etc. Final case should be about 1.25 x 3 x 4 inches. Rather larger than the GPS-20, but leaves space for the Mic Encoder controls etc. Case is typical PacComm extruded aluminum with stamped end panels.

I really should be running this by TAPR first, but don't you to make your decision without knowing of this alternative.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

```
begin 600 WINMAIL.DAT
M>)\^(A04`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &`+ #```#````# ````,``# %````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````%#0````,``# &````"P`/#@$````"`?\/`0```#\`
M````````@2L?I+ZC$!F=;@#=`0]4`@```0!70C1!4%) 86US870N;W)G`%--
M5% `5T(T05!20&%M<V%T+F]R9P``'@`", $````%````4TU44 `````>``,P
M`0```!$```!70C1!4%) 86US870N;W)G``````,`%0P"`````P#^#P8````>
M``$P`0```!,````G5T(T05!20&%M<V%T+F]R9R<```(!"S !````%@```%--
M5% Z5T(T05!20$%-4T%4+D]21P````,``#D`````"P! .@`````"`?8/`0``
M``0````````&`@'Y#P$````_`````````($K'Z2^HQ 9G6X`W0$/5 (```$`
M5T(T05!20&%M<V%T+F]R9P!33510`%="-$%04D!A;7-A="YO<F<```T````#
M```P!P````L`#PX!`````@'_#P$````]`````````($K'Z2^HQ 9G6X`W0$/
M5 (```$`5T0U25920'1A<'(N;W)G`%--5% `5T0U25920'1A<'(N;W)G````
M`!X``C !````!0```%--5% `````'@`#, $````0````5T0U25920'1A<'(N
M;W)G``,`%0P"`````P#^#P8````>``$P`0```!(````G5T0U25920'1A<'(N
M;W)G)P````(!"S !````%0```%--5% Z5T0U25920%1!4%(N3U)'``````,`
```

```
M`#D`````"P! .@`````"`?8/`0````0`````````'`@'Y#P$````]````````
M`($K'Z2^HQ 9G6X`W0$/5 (```$`5T0U25920'1A<'(N;W)G`%--5% `5T0U
M25920'1A<'(N;W)G`````$*F`0B !P`8````25!-+DUI8W)O<V]F="!-86EL
M+DYO=&4`,0@!!( !`"H```!213H@6T%04E-324<Z,3@S,%T@1U!3+3(P+"!!
M;GD@8F]X(&ED96%S/P"C"P$%@ ,`#@```,P'!@`+`! `+ `0``(`,@$!(( #
M``X```#,!P8`"P8`,0`"`$T!`0F `0`A`````-S0Y-#8T,D0U,$,S0T8Q
M,3@P1#(P,#0P,#4R.4)#1#<`\ 8!`Y &`'@&```2`````"P`C````````#`"8`
M``````L`*0````````P`V```````! `#D`H%W-P=97NP$>`' ``0````"H```!2
M13H@6T%04E-324<Z,3@S,%T@1U!3+3(P+"!!;GD@8F]X(&ED96%S/P````(!
M<0`!````%@````&[5];!JRUDE'7#4!'/@-(`0 4IO-<``!X`'@P!`````!0``
M`%--5% ``````'@`?# $````1````9W=Y;D!P86-;VUM+F-O;0`````#``80
M/1:HM@,`!Q#F`P``'@`($ $```!E````3TY4454531$%9+$I53D4Q,2PQ.3DV
M-SHP-4%-++%)!3D192$%,3%--5% Z4D%.1E$(0$=61T%$1T=61U1%2T-/35=2
M3U1%.DA)+$E214-%259%1$U91U!3+3(P64535$521$%920``````"`0D0`0``
M`.L$``#G! ``@ D``$Q:1G7.!GVD_P`*`0\"%0*H!>L"@P!0`O()`@!C: K
M<V5T,C<&``;#`H,R`\4"``!R0G$1XG-T96T"@S,W`N0'$P*#-!!+,#]]F-5L2
MS!3(-A+'$74P%+9]%PJ ",\)V3L;?S(U-0\"@ J!#;$+8&YG,3"&,Q10"P-L
M:3,V#? S"U47<C$X&N `0"!/!0.@5 I0<V1A>2P`($IU;F4@,3$!(6 Q.3DV
M(#<Z5# U%+!-(6!2``'!D"'D@2 = ;%M331!44#IR(P)H0&= =F=A9&<N)&$N
M"1/0:RX%H&U=('?K`V 3T#H*A#X+1A5B# $7(( ?@26R8P5 2&DL^PJ$'Y\Q
M)F\G>"A?*6\J?P@@22 ;@&-E:78)"8 @;2,P1U!3+7D!T"!Y!Y 3T L@(4 N
M-RZQ$; AL'<1@ 5 =&A/(; EP#& !<!F92-P;_\'X > `' %0 &@"& Q4RN/
MZRR?+:\@!:!N(: G\ 6PY2%@= N >2$S?S2/-9]/-[\XSSG?+K%W800@=^<"
M( 2!"X!G( :0,M W@/\"("&P$8 $(#]1/Q -L#_2*3+S82 &X'@Q8&\@GG S
M$P0`/Q ",&\_(. _,U\[WSSO)_%!(CZ =6S[+U '0'-!<"&@+T%!81& _R\P
M,,- #<"&P`V #<#(`!;$8@+3X@_C5(\!N )+!"OT//1-])OS=*STO?
M!!@O(6 _+R!GAT@0+U!!(G-U9V<P(?YI`B A8 M00&$AL JP!!'_,7%(, =
M`B!)GTW?3N],SW]5/U9/)_$B\U=-%6P]<'_]=+UZO7[]@
MSV'?8N]C_V4&]Q]Q\/(!@*A4@$D"&P0?$#D7= 0E!#/W!U-J #D3Y :9= XC(0
M!^!W">!K<U0U[0J%4 #0"%!M2#!!\5) ,PK /N)U<$%3`V!D=0,O`%XP0C1!
M4%(G@00@36EC($5N!:#9!($@*#$@<2!H)9 #$-L#(&CP:S(@(S!B(;!'<.\+
M< M@`F AL'8',"#@<+'B*3"@5V4G1X$%@4!!/T<3)) O4OA@`C ^XG!O_T(A
M!"!(5B^E1K%'LC^";%(_==-W!B[6!< +@#%C<V'_1]%L4%,14&$Q<2,P<I)M
MG%Y&/M(AL',`(:!F;+!S^#H@66PA<D-&DW,"<Y(]06%U4Q$Q<G$:=0!R8_YU
M;+$&X L1,M _X2^6;%#J<@B"+U(0<'9@`""!)/\A8",!>*5LL7HN=&-R82>A
M]W/0#;!!@&@3L'$@!T!2`?>"\R+1+\$S$> VL7GA`)#_4I,R4#'A27%&4#%
M4H,1P#YC,*!\P N AO%ZXW-HIT9#?L,S`C$N'; @04#Z,XQ1-$(1$7 'D#"@
M(O#[,,<,+8')20$AR`Y%W&"%@WF(S$$5+A+S $(',*L'!1OTA6?_L"(0-@1J")
M]$-Z\YE3<7EPAM-N=F5XD=#F=74B!T!U;0N E+!R,><Q<##0`9!M<"]!"? O
M4/\*L"&@1J!MG"["(V$C,(L8[Y0P-M ^XD'38B,P=!(R`-> P!/ CS1D`B G
M!4!L$O]!80# <K!L`@7 =.*(@I43V3,":VXR4#[B;WM":R+^;#!!BH W8"\P
M;9MMJ@LWHQD"+^%'=WD#H%)&\<$A45<Q0D5,;BMN<7MRL%J29%* $Y43(&W3
M?0&D\ `#`! 0``````,`$1 ``````0 `',&##S_[55[L!0 `(,&##S_[55[L!
6'@`]``$````%````4D4Z( ````#?# `'
`
end
```

---

369. Re: [APRSSIG:1830] GPS-20, Any box ideas?

From: CRWMAC@aol.com
Date: Tue, 11 Jun 1996 16:54:30 -0400
To: aprssig@tapr.org
Cc: rcurry@ramlink.net
Message-ID: <960611165430_132789289@emout19.mail.aol.com>
Rendered body type: text/plain

I put mine in a Rat Shack project box (blue plastic) it just fits w/
standoffs...
also got the M.I.M. in the same box...makes a nice installation mount gps
w/ the ant connector toward the box and there is enough room to drill a hole
for the
mcx connector to pop thru. I'm sending mine in a balloon package Sat 15June
(weather permiting).

APRS on 145.79;cwid on 146.565;35mm camera
Launching from western WV abt 8:00 AM

---

370. Re:[APRSSIG:1812] Re: TORNADO WARNING IS POSSIBLE

From: quarry@q.continuum.net (Chip)
Date: Tue, 11 Jun 1996 17:03:30 -0400
To: aprssig@tapr.org
Message-ID: <v02140b02ade38d212e7c@[199.0.52.85]>
Rendered body type: text/plain

At 5:28 6/11/96, you wrote:

> I think we covered this before. The FCC frowns on "special event"
> triggering of amateur radio transmissions. One person on this sig has fully
> researched this in conjuction with using the NWS weather alert to signal
> APRS stations automatically the second the alert is received. The FCC says

```
> it's a no-no.  BUT one could certainly
> include lighning strike information in one's regularly sent beacon.   It may
> not be as good a solution, but at least it's something.
>
> How about a lightning strike counter?

How about a special symbol for lightning strike.  If there is an
impending lightning strike it would key APRS to change the station symbol
and send out immediate and frequent position reports ... this would show
any stations in range of the digis that there was a storm.  In conjuntion
with this you could have an alarm set based on either the lightning
strike counter or the lightning strike symbol so it beeps up a storm
(pardon the pun) at the receiving stations.


Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

371. Re: [APRSSIG:1802] Weather info TRW Alerts

From: n2czf@gate.net
Date: Tue, 11 Jun 1996 18:07:12 -0400
To: aprssig@tapr.org
Message-ID: <199606112207.SAA60014@osceola.gate.net>
Rendered body type: text/plain

```
This is one of the best practical ideas I have seen in a long time!

On Mon, 10 Jun 1996, KD4EMI@aol.com wrote:
*** snip***
>Hows this...
>
>As most of you know,  Florida has been drowned by as much as 9 inches of rain
>a day and severe t-storms and lightning.  I have a old sensor that shuts off
>the computer when it detects lightning bursts..  I can basic stamp this to
>the tnc and vhf users can set their wx alert to say wind speed of 999.  Then
>they will be alerted if this wind speed is sent.  I can program the stamp to
>change the beacon text to a wx text with a wind speed of 999
>(or any wx parameter that you choose that would be unlikely). Upon reciept of
>the lightning monitor beep it changes the wx beacon, thus alerting local APRS
>stations of incoming lightning...
***snip***

I think this is great, not only from a APRS prespective but also from a station
point of view. A stamp local to the station could control some switching
circuits that can then control a large solenoid or coaxial relays. NOTHING will
prevent damage from a direct hit except for manual disconnects as we know. A
close hit problem can be prevented with the little isolation a relay will
provide. It is not much but every little bit helps.

Maybe if Bob includes a range subroutine in APRS the TRW alerts could be limited
to a certain area. I often see reports from KD4UYR both on HF and VHF and he is
over 100 miles away. I am not very interested in that distance for TRW alerts
but with some work with the stamp and the APRS program we may be able to assign
a interested radius of alert.

BTW you say old sensor, we all have old neat things in our box but how simple
would it be to duplicate your sensor or a likeness that would work. not everyone
will have the parts you do.

Good work Mike!
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

---

372. Re: [APRSSIG:1806] TORNADO WARNING IS POSSIBLE

From: n2czf@gate.net
Date: Tue, 11 Jun 1996 18:13:33 -0400
To: aprssig@tapr.org
Message-ID: <199606112213.SAA03978@osceola.gate.net>
Rendered body type: text/plain

```
On Mon, 10 Jun 1996, KD4EMI@aol.com wrote:
>ASk and the Gods giveth...
```

```
***SNIP***

Boy you are on a roll, neat, high tech, and within reach of most amateurs!
Granted the paging function is a bit too "high tech" but if you want to go for
the limit this is a sooth idea!

***SNIP***
>Ok, do you guys think I should go for it  ??   I can get one and see if I can
>interface a stamp to it.. The alert will prgram a parameter in the TNC to
>change one wx parameter...OR
>Bob B...
>Can you make a lightning or T storm alert text for aprs ?
>If folks are interested in this stuff, let me know and I'll pursue it.
>I can forsee a lightning alert station every few 100 miles...?
>OR EVEN BETTER...
>use the pager function on the new  Kantronics tnc and BEEP EVERYONE about
>incoming bad wx ?
>Im so excited I can hardly type !!
>Michael
>KD4EMI@AOL.COM
>Time to lick those stamps...
>


73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

---

373. Re: [APRSSIG:1821] Re: WINAPRS 'features'?

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Tue, 11 Jun 1996 18:34:14 -0000
To: aprssig@tapr.org
Message-ID: <199606112236.RAA17964@tapr.org>
Rendered body type: text/plain

```
The lockup people talk about . . .  Seems to be related to the fact
that there is no Map Window OPEN.  I close all maps windows and at
the next Packet RX,  I get an Unhandled Execption error.

Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
```

---

374. RE: [APRSSIG:1830] GPS-20, Any box ideas?

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 11 Jun 1996 18:38:52 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB57C5.3E235F60@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Tuesday, June 11, 1996 7:05 AM, Randy Hall[SMTP:randyh@gvgadg.gvg.tek.com] wrote:
>Hi,
>
>I received my GPS-20 yesterday. I see what the other fellow meant about the
>connector, tiny!
>
>I was wondering if anyone has any ideas about a box to put this into? The
>box would also need to have some room for the 12V -> 5V reg.
>
>So, if anyone has any good box suggestion, please pass them along.
>
>Randy
>WA2AGE
>

Here is an idea, if you can wait a few weeks.

PacComm is gearing up to produce WB4APR's Mic Encoder (which will likely be
available via TAPR). We've decided to add mounting points for the GPS-20 so
someone can mount the GPS receiver in the same case if they like.

Fringe benefits: You will also be able to use the Mic Encoder circuit board
as a GPS-20 carrier/support board, and mount it in the same case. We'll
provide physical support, RS-232 conversion, power regulation, etc.  Final
case should be about 1.25 x 3 x 4 inches. Rather larger than the GPS-20,
```

but leaves space for the Mic Encoder controls etc. Case is typical PacComm extruded aluminum with stamped end panels.

I really should be running this by TAPR first, but don't you to make your decision without knowing of this alternative.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

```
begin 600 WINMAIL.DAT
M>)\^(C86`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"``?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P```'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$`````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`*@```%)%.B!;05!24U-)1SHQ.#,P72!'4%,M,C L($%N
M>2!B;W@@:61E87,_`*,+`06 `P`.````S <&``L`$@`F`#0``@!2`0$@@ ,`
M#@```,P'!@`+`!(`)0`/```(`+ $!"8 !`"$````W13DT-C0R1#4P0S-#1C$Q
M.#!$,C P-#! P-3(Y0D-$-$-P`!!P$#D 8`A 8``!(````+`",````````,`)@``
M````"P`I````````#`#8``````$ `.0! .CG$YE>[`1X`< `!`````*@```%)%
M.B!;05!24U-)1SHQ.#,P72!'4%,M,C L($%N>2!B;W@@:61E87,_`````@%Q
M``$`````6`````;M7YL0?+624?\-0$<^ T@! !2F\UP``'@`># $````%````
M4TU44 `````>`!\,`0```!$```!G=WEN0'!A8V-O;6TN8V]]M```````,`!A W
ML1$$`P`'$ X$```>``@0`0```&4```!/3E1515-$05DL2E5.13$Q+#$Y.38W
M.C U04TL4D%.1%E(04Q,4TU44#I204Y$64A!(1U9'041'1U9'5$5+0T]-5U)/
M5$4Z2$DL25)%0T5)5D5$5D5$$35E'4%,M,C!915-415)$$05E)```````(!"1 !````
M^ 0``/0$``"?"0``3%I&=:B&!YS_``H!#P(5`J@%ZP*#`%"\@D"`&-H"L!S
M970R-P8`!L,"@S(#Q0(`<')"<1'B<W1E;0*#,,S<"Y <3`H,T$LP/WV8U6Q+,
M%,@V$L<1=3 4MGT7"H (SPG9.QM_,C4U#P* "H$-L0M@;F<Q,(8S%% +`VQI
M,,S8-\#,+51=R,3@:X ! ($\%`Z!4"E!S9&%Y+ `@2G5N92 Q,0$A8#$Y.38@
M-SI4,#44L$TA8%(`<&0(>2!(!T!L6U--$%10.G(C`FA 9T!V9V%D9RXD82X)
M$]!K+@6@;5T@=^L#8!/0.@J$/@M&%6(,`1<@@!^!);)C!4!(:2S["H0?GS$F
M;R=X*%\I;RI_""!)(!N 8V5I=@D)@"!M(S!'4%,M>0'0(`D`D!/0"R A0"XW
M+K$1L"&P=Q& !4!T:$\AL"7 ,8 %P&9E(W!O_P?@!X `< 5 `: (8#%3*X_K
M+)\MKR %H&XAH"?P!;#E(6!T"X!Y(3-_-(\UGT\WOSC/.=\NL7=A!"!WYP(@
M!($+@&<@!I RT#> _P(@(; 1@ 0@/U$_$ VP/](I,O-A( ;@>#%@;R"><#,3
M! `_$ (P;S\@X#\S7SO?/.\G\4$B/H!U;/LO4 = <T%P(: O04%A$8#_+S P
MT -P(; #8 -P,@`%L0$Q<C$R5B M/B#^-4CP&X DL$*_0\]$WTF_-TK/2]\&
M`&\A8#\O(&>'2! O4$$B<W5G9S A_FD"("%@"U! 82&P"K $$?\Q<4@P!T "
M($F?3=].[TS/?U4_5D\G\2+S5W]8CUF?(,!703)!1T5;#UP?7W0O7J8?#R 8
M"H5(!) AL-]!\0.10$)00S]P=3@:@`Y%=/D!I0.(R$ ?@=PG@:[9S5#4*A5 `
MT A0;4@PST'Q4D *P#[B=7!!4P-@#&1U+P!>,$T05 $4B<$($UI8R!%9FX%
MH 2!("@Q(&K :&\ED ,0`R!BD&LR(",P8G\AL J%1W +< M@`F AL'87!S @
MX&I1*3"@5V4G_T>!!8% 04<3)) O40A@`C#Y/N)P;T(A!"!(5B^E1K'_"H5'
MLC^"9?)OXW$6+M8%P/,+@#%C<V%'T'T67P4Q%08>\Q<2,P;#)G/$8^TB&P;*"%
M((!F9E!S.B!99<'?:^-&DVRA;9-!8753$3%RXVJZ;Q!R8W5F40;@"Q&O;,<_
MX2^69?!R"((O4A#^<'!P`"![I"%@(P%S)691_W2N;G-L`0J%)Z%MX VP08#^
M:!.P:L '0%(!?>,BT2_!_C,1X#Q=&$`D%*3,E QX=])<490,4!2@Q' 8S"@
M=T#/"X""40J%=6-S:$9#>4.I,P(Q+AVP($% ,X@A_C1"$1%P!Y PH"+P,<,+
M8'YR4D!(<@.1<2@A8 J%8N\S$$5+A+S $(',*L&GQ2%;?>GL"(0-@1J"%5$-U
M<U-QG'EP@C-H%@J%97B.$.9U;S('0'5M"X"18&O1YS%P,- !D&UP+T$)\"]0
M_PJP(:!&H&<\+L(C82,PANCOD. VT#[B0=-B(S!N(C(`KWM $\ A8(N29 (@
M)P5 _V6R06$`P&Q09:(%P J%;;O)G@^*1PS,":VXR4#[B;;_MUPF3";#!!> W
M8"\P9SO1"H5'=WD#H%)&\1X%)(%P#&=Q&@0!-(%K>U2_EL;%J+Q+-1Y'"*T6V W
MJ0-?A&@/#2;7RI8%G3O&N4$KY[H;LQ[Z0'K'B>:6?=+4CLPUGRP*N4[P2"RG^G
MOQ@M^)@d.-RQP;%'N+Y]ZDP&5^Z+@AXS:<\")))PH)-@\-%I@/&*%*>$-&
M@PxD2K\JQ3-GD;/;'C#<Hi3d)Y?5)LHmWD*2%ohk'W9V4$.:JAB
A``@P8$<4BN97NP$>`#T``0````4```!213H@6P``!`"!XO```A$``0```1$`C
`
end
```

375. Re: [APRSSIG:1821] Re: WINAPRS 'features'?

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Tue, 11 Jun 1996 18:34:14 -0000
To: aprssig@tapr.org
Message-ID: <199606112244.RAA18042@tapr.org>
Rendered body type: text/plain

The lockup people talk about . . . Seems to be related to the fact that there is no Map Window OPEN. I close all maps windows and at the next Packet RX, I get an Unhandled Execption error.

```
Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
```

---

376. Re: Florida Statewide APRS Meeting

From: n2czf@gate.net
Date: Tue, 11 Jun 1996 18:53:48 -0400
To: aprssig@tapr.org
Message-ID: <199606112253.SAA42758@osceola.gate.net>
Rendered body type: text/plain

```
On Tue, 11 Jun 1996, Dennis Mobley <dmobley@encore.com> wrote:
*** SNIP***

>To the rest of the SIG, thank you for the indulgence and bandwidth.
>Rich and I can now move onto direct email.
>
>Thank you & 73
>Dennis Mobley
>Sunrise, Fl
>
Yep! I messed up (the cleaner words) I am sorry for the long drawn out message.
The previous message I sent was intended as personal mail to Dennis and some
others that I have e-mail addresses for, not to the whole sig! As many know when
you hit reply, thinking that the mail was originally personal but actually went
to the sig it goes back to the sig not the sender! Wish that the server could be
changed to actually send the reply to the sender, not the sig.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

---

377. Re: [APRSSIG:1824] Re: TORNADO WARNING IS POSSIBLE

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Tue, 11 Jun 1996 19:31:40 -0000
To: aprssig@tapr.org
Message-ID: <199606112340.SAA20002@tapr.org>
Rendered body type: text/plain

```
On 11 Jun 96 at 9:55, you wrote:


> There is a subtle difference here...and I'm going to try to explain
> my understanding of the rules(and how I'd apply them to write an
> appropriate OO card...)  Anyway,  you are probably all aware that it
> is a bozo nono to retransmit the NWS radio stations..that is
> because they are another radio service and this is forboten!

See  97.113 (e)   Just so the folks don't get any wrong ideas
 about what is the Rule.  Read it, boil it down and see if this is
what it says.....

97.113 (e)  Says that it is forboten to retransmit the Rolling Stones
or John's Wrecker Service OR the State Police BUT it is okay to
retransmit the NOAA Weather Service  ( Gov't supplied - 162Mhz)
as an incident of normal Amateur Communications.

>On the  other hand, if a station under automatic control announces it is
> 12pm..this is okay(much like announcing that my lightning sensor
> went off...duck!)  This isn't a retransmission of data that
> originated on another radio service, but rather from a sensor
> attached to the stations computer.  This should be okay.  Go for it.

That would be Telemetery. Telemetery is OK per 97.111 (b-7). . .

I am NOT a Lawyer BUT it is pretty black and white.  I got the rules
from http://www.afn.org/~gars/fcc/p97-b.html.

Whats say you try another message to the APRSSIG.   This time tell it
like it is.
```

---

378. MIC-Encoder notes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 11 Jun 1996 19:57:31 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960611130009.7690A-100000@arctic>
Rendered body type: text/plain

```
Here is what we have learend with a months worth of experience since Dayton
about the operation of the APRS Mic-Encoder:

1) It appears that a minimum of about 100 ms is required for many TNC's
to sync up to the very short packets.  Actually about 60 was the minimum,
with a KPC-3, but we are using 100 to be sure.  Let us know your experience?

2) When you use MIC100.exe to program the MIC, you will probably need to
first issue the MODE MIC command.  This software can also configure a
MIM, so be sure it is in MIC mode before you program all the parameters.

3) Occassionally the MIC will loose its configuration.  This is obvious,
since it will power up with the LED ON.  If so, then you will have to
reprogram it.

4) In version 1.00 if you switch AUTO OFF, then not even PTT packets will
be transmitted.  So set your AUTO TIME period to off using MIC100.exe
if you do not want AUTO packets generated...

de wb4apr@amsat.org
```

---

379. Re: [APRSSIG:1815] Re: TORNADO WARNING IS POSSIBLE

From: KD4EMI@aol.com
Date: Tue, 11 Jun 1996 19:59:47 -0400
To: aprssig@tapr.org
Message-ID: <960611195947_325275548@emout17.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-11 08:38:42 EDT, you write:

>
>> I think we covered this before.  The FCC frowns on "special event"
>> triggering of amateur radio transmissions.  One person on this sig has
>fully
>> researched this in conjuction with using the NWS weather alert to signal
>> APRS stations automatically the second the alert is received.  The FCC
says
>> it's a no-no.  BUT one could certainly
>> include lighning strike information in one's regularly sent beacon.   It
>may
>> not be as good a solution, but at least it's something.
>>

This is incorrect...The FCC objected to using NWS alerts to trigger HAM
stations..This is not responding to NWS alert it is responding just like a wx
monitor... THerefore it is totally legal
Mike
```

---

380. RE legality

From: KD4EMI@aol.com
Date: Tue, 11 Jun 1996 19:59:56 -0400
To: aprssig@tapr.org
Message-ID: <960611195955_325275593@emout19.mail.aol.com>
Rendered body type: text/plain

```
Last msg re :legality of lightning reporting

Ive read the discussion for and against.

#1  Reverse autopatch...NONO
Intitated by a non ham...

Not applicable

#2
NWS alert..
Not applicable,
Im not REBROADCASTING anything.. Im not taking a nws alert and changing it.
Im doing a wx alert myself.

It's just as legal to xmit wx data as it is to broadcast lightning data.
Im not rebraodcasting anything..
Therefore work will procede with this device...

I enjoy the discussion that others have written about this project and the
```

response is overwhelming. Further I want to complement everyone for remaining civil about the difference of opnion. Even though I may not agree with everyone I respect a guy that presents his case sanely and without "name calling".

I am most interested in discussion the idea of lightning triangulation but already have started thinking about wiring my roanoke doppler to 4 vlf devices (why I dont know, just thought it would be fun)

I'll do that later...Right now I want to get the device operational and plan on giving several away (please dont ask for one) for testing. I will get these on line and compare notes then will make them available when they are running well...

After I get several more made, and distibuted locally and get the thing to talk to aprs we will procede.

I guess next step is triangulate stuff...But again, thats jumping ahead.
I guestimate that 3 users will have the completed units in a week and we can report the success of the device.

Any other suggestions are appreciated and any references on building a better VLF reciever is also appreciated..
Mike
KD4EMI@AOL.COM

---

381. TAPR GPS-20 help requested

From: stanzepa@usa.nai.net (stan horzepa)
Date: Tue, 11 Jun 1996 20:30:07 -0400
To: aprssig@tapr.org
Message-ID: <v01510101ade3ba8f7940@[206.98.48.249]>
Rendered body type: text/plain

Hello All,

Let me preface this by saying that I am a GPS greenhorn. I've never before had seen one in the flesh until I received my GPS-20 from TAPR yesterday. Problem is that the unit I received appears to be data dead.

I am very confident that the unit is wired properly and I do see +5 volts dc at the center pin of the antenna connector, so I know it is getting power, however, I get no data out of the unit. I did swap power supplies as the documentation suggested, but still no go.

My thought is that the unit is DOA, but before I reach that drastic conclusion, I thought I asked the SIG for any ideas on the matter.

Thanks in advance,

Stan, WA1LOU

stanzepa@nai.net

---

382. Other events

From: KD4EMI@aol.com
Date: Tue, 11 Jun 1996 20:53:41 -0400
To: aprssig@tapr.org
Message-ID: <960611205340_325333344@emout10.mail.aol.com>
Rendered body type: text/plain

I have been thinking again...How about an interface a siesmograph (sp ?) to aprs...Interesting application..? A network of stations ??

Hmmm lightning, weather, siemographs, how about those of you who live near Nuclear
power plants...?   You can buy a gieger counter with rs232 interface for $200.00. Then hook those up to aprs and issue radiation beacons..
(I didnt say alerts for that one)

When that accidental release of steam comes over the house..well..
Could be neat for documentation..

The list is growing and Im groaning...Hmm Will sleep on it again and think up some more applications...Im trying to eliminate the basic stamp now. The little baby costs $100.00   I want cheap, accurate and easy to build..
If I can do it with hardware that would be better...

I also hope to hear from Bob about what would be better, stand alone units with preprogrammed texts or something interfaced to the program and computer.

The detector just flips it on and the beacon, beacon time , and etc are preprogrammed. This would be the cheapest way..

Guys...(and gals)   please keep me posted if you have any good vlf articles about lightning sensors..I did get the SCI AMERICAN article that was mentioned (FROM AOL !) and found it ehh ok...

Im looking for the easy cheap way to build a sensor . I have ordered one though from the weather guys and will take it from there...
(did I say reverse engineer ?)

Michael
KD4EMI@AOL.COM

383. Re: [APRSSIG:1828] Re: Kenwood Service

From: Miami Network <0004818186@mcimail.com>
Date: Tue, 11 Jun 96 20:02 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <93960612010239/0004818186NA2EM@MCIMAIL.COM>
Rendered body type: text/plain

I have sent in to Kenwood over the past 2 years at least 10 radios. The turnaround has been at most 4 weeks. The radios were sent to the Virginia Beach branch called Kenwood Service Center East.

The fastest turnaround was an HT that was shipped out on Friday and returned to me the following Friday!

Have only sent 1 radio to ICOM for repair and that took about 4 weeks as well.

73, Seymour, KC4NMY

384. Re: [APRSSIG:1815] Re: TORNADO WARNING IS POSSIBLE

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 11 Jun 1996 18:12:35 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960611181243.08b702ba@mailhost.primenet.com>
Rendered body type: text/plain

At 06:46 AM 6/11/96 -0500, William Nolle wrote:
>
>This is hard to understand because why is it ok to transmit the WX info from a
>Davis or peet brothers weather station, but not from a Lightning detector
>receiver!. I fail to see the difference myself. Hummmm
>

Yes, it's OK to transmit the info, but I think that there is a difference here. If you want timely information that an electrical storm is approaching, the logical choice is to have the APRS station report automatically as soon as lightning is detected. BUT as we have been told the FCC frowns on this. So the information could be included in regular beacons as long as the event doesn't cause a transmission.   This may lead to an unacceptable delay in notification.

The ad copy for the LSU-2001 states that it can detect lightning 40 miles away. Suppose you're beaconing wx info every 15 minutes. Suppose that lightning strikes right after a beacon, that leaves about 15 minutes before any notification to the APRS net. A storm can travel quite far in 15 minutes.

All-in-all I think it's a great idea. How useful it is remains to be seen. I've wanted a lightning detector ever since I knew one existed. (and that's been a long time)

Although here in Metro Phoenix we get little (if any) rain and our electrical storms are pretty wimpy. Down near Tucson it's another story, though. I wish we'd get SOME rain soon, so they'd open up the National Forests again.

73,

Mark Fellhauer
sparkfel@primenet.com

385. Re: [APRSSIG:1820] GPS and Lightening/Tornado tracking

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 11 Jun 1996 18:29:53 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960611182952.08b7ca9e@mailhost.primenet.com>
Rendered body type: text/plain

At 08:35 AM 6/11/96 -0500, Bob Bruninga wrote:

>The one microsecond precise time combined with a very simple LF receiver
>to detect strikes can make it easy to triangulate the location of each
>strike and plot them in real time on the APRS map. With this timing
>accuracy, position to about a quarter mile should be possible.
>
>

Although, I've chastised others on this sig for promoting commercial products and services, I'm gonna do it myself.

There are reasonably priced commercial lignting monitors out there. In fact, a 3M Storm Scope may be cheaper and more accurate that a home-brewed system. These amazing little contraptions can reliably pinpoint a lightning strike over 100 miles away. I only point this out because we are dealing with people's lives.

Unfortunately, a lot of this information USED to be available on the internet, such as a 15 minute nationwide precipitation map and lightning stike map. They have been removed from the public domain because taxpaying netizens (who paid for the systems) dared actually to use the web sites. Oh sure, you can get them still, but with a suitable (read many hours or days) delay.

73,

Mark Fellhauer

386. last wx installment

From: KD4EMI@aol.com
Date: Tue, 11 Jun 1996 21:34:33 -0400
To: aprssig@tapr.org
Message-ID: <960611213432_325379504@emout09.mail.aol.com>
Rendered body type: text/plain

I wanted to differentiate TORNADO warning systems from
LIGHTNING warning systems..

Lightning systems use VLF recievers to detect same

Tornado systems use sound warning systems

Here is an ad I copied FYI on TORNADO systems..
So far we got rain, wind, temp, baro, lightning, siesmograph and
now TORNADO warning..

Here is the ad...Im getting started, lots to do, when we get them operating
will contact everyone with the results...
Mike
KD4EMI@AOL.COM
-------------------------------------TORNADO SYSTEM------------------
-Many tornado victims never receive a warning. The first notice they get, especially at night, is the view of the sky they see as their roof disappears into the darkness. A sophisticated electronic device now offers life-saving technology. Dr. Henry Bass, Director of The National Center for Physical Acoustics, along with associates at the University of Mississippi, invested more than 16 years in research and development to produce the Tornado Alert System (TAS).

A TAS unit has a remote sensor which mounts to the exterior of the building. The sensor receives and processes data, detecting the sound signature of a tornado. When a certain frequency is matched, the exterior sensor sends a signal to the receiver inside the building. This unit is similar in appearance and size to a smoke detector. A high db alarm will sound and provide up to 90 seconds warning for you to implement your emergency plan. Alert time varies with the size of the tornado. Tornadoes can move very quickly and 90 seconds can mean the difference between life and death or serious injury. This amount of notice will only be effective if you and your family have already planned and rehearsed actions that you would take in the event of a tornado.

The interior unit is mounted inside in a convenient location. It operates on AC power with a battery backup. The exterior sensor is mounted outside and contains the acoustic sensor used to listen for tornadoes. 50 feet of cable is provided to connect the two units.   The unit comes with a test audio tape so that you can be sure it is working effectively.

If you own a home or business, especially a mobile home, or are responsible for group gatherings in tornado country, then you would be wise to invest in this added measure of security.

I am not sure how effective this thing is but maybe someone wants to play with it...
MIke

---

387. Re: [APRSSIG:1824] Re: TORNADO WARNING IS POSSIBLE

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 11 Jun 1996 18:43:50 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960611184351.08b79a94@mailhost.primenet.com>
Rendered body type: text/plain

At 09:55 AM 6/11/96 -0500, Steve Wilson x2388 wrote:
>
>There is a subtle difference here...and I'm going to try to explain
>my understanding of the rules(and how I'd apply them to write an
>appropriate OO card...) Anyway, you are probably all aware that
>it is a bozo nono to retransmit the NWS radio stations...that is
>because they are another radio service and this is forboten! On
>the other hand, if a station under automatic control announces it
>is 12pm..this is okay(much like announcing that my lightning sensor
>went off...duck!) This isn't a retransmission of data that
>originated on another radio service, but rather from a sensor
>attached to the stations computer. This should be okay. Go
>for it.
>
Okay, as it pertains to APRS, we had a user who didn't want to retransmit the NWS bulletins, he only wanted to have the APRS net notified immediately when his WX-alert radio received an alarm. This could be done quite simply. We were also told that automobile trackers set off by burglers are forbidden. In both cases because an unusual event broadcast is triggered by a non-ham. (excuse me for being flippant) I doubt that lightning has a valid ham license.

We were read chapter and verse, that such special event triggering is a bozo-no-no. The information could however be sent in a regularly scheduled beacon or in a polled transmitter.

I could be wrong, but I see no difference in the two.

Is it me, or is there a very short collective memory in this sig?

73,

Mark Fellhauer

---

388. Re: [APRSSIG:1839] Re:Re: TORNADO WARNING IS POSSIBLE

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 11 Jun 1996 18:50:06 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960611185006.097744cc@mailhost.primenet.com>
Rendered body type: text/plain

At 04:22 PM 6/11/96 -0500, Chip wrote:
>
>How about a special symbol for lightning strike. If there is an
>impending lightning strike it would key APRS to change the station symbol
>and send out immediate and frequent position reports ... this would show
>any stations in range of the digis that there was a storm. In conjuntion
>with this you could have an alarm set based on either the lightning
>strike counter or the lightning strike symbol so it beeps up a storm
>(pardon the pun) at the receiving stations.
>

Again, a neat idea, but it could be construed as a special event trigger.

The only other problem I can see with this is that a large and persistant T-storm could easily overwhelm
the entire APRS net if every lighnting strike were noted and transmitted.

73,

Mark Fellhauer
KC7BXS

---

389. (Bug in 76 and 76c

From: AD4CR@aol.com
Date: Tue, 11 Jun 1996 23:19:09 -0400
To: aprssig@tapr.org
Message-ID: <960611231908_554420666@emout07.mail.aol.com>
Rendered body type: text/plain

Hi Bob, There seems to be a bug in APRS. Was there in version 76..and also in 76c. I am using a Kam+ and we had the same problem in version 70 I think it was. It happens when someone connects to your mailbox and leaves you mail it also shows up on your read screen. Also if you go into O+C+T and talk to your tnc you get a "|A" at the beginning of your command line and also may get it anywhere when your tnc shows the command. Hope that helps
AD4CR @AOL.COM

---

390. Re: [APRSSIG:1836] Re: Kenwood Service

From: PCE Enterprises <pce@infobahn.icubed.com>
Date: Wed, 12 Jun 1996 00:32:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960612002734.30031B-100000@infobahn.icubed.com>
Rendered body type: text/plain

On Tue, 11 Jun 1996, B.G. Gotshall wrote:

> >A few years ago, 73 did a "review" on the service facilities of the major rig
> >manufacturers. For Kenwood, turnaround was typically four to six months.

> I sent a Knewood 701, which was 10 years old, back to the East Coast

Remember, this was a few years ago. Certainly (hopefully?) Kenwood has dome something about their horrible turnaround times by now.

---

391. CD-ROM maps to hard drive

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 11 Jun 1996 23:45:29 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ade2c5c0ac50@[199.1.11.130]>
Rendered body type: text/plain

>>Oh... did you know that you can move the maps over you your hard disk and tell
>>PM2.0 where they are? And not carry the CDROM drive with you?

> I think this is a big asset to the many laptop users
>that do not have a portable CR-ROM.

You CAN put the Street Atlas USA maps on a hard drive BUT it is all or nothing and you will need a 3/4 Gig unit.

The new JAZ removable cartridge drives are 1.0 gig.

I decided to just add a Panasonic KXL-D742 4X CD-ROM unit to my Mac 540c. They even supply the correct direct connect SCSI cable.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

392. Re: [APRSSIG:1857] Re:Re: TORNADO WARNING IS POSSIBLE

From: PCE Enterprises <pce@infobahn.icubed.com>
Date: Wed, 12 Jun 1996 00:51:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960612004657.30031C-100000@infobahn.icubed.com>
Rendered body type: text/plain

> Again, a neat idea, but it could be construed as a special event trigger.

My thought... Put all the neat features in; then let those who hold the license decide on whether (!) or not to use them.

Remember, APRS could easily wind up being used on commercial frequencies, where there is no such "frowning upon".

[FWIW - NEVER ask the FCC if something is OK. Do you think a Comissioner will risk his/her pension on what could be considered a judgement call?

```
He says no, then it's the rule.]
```

---

393. Re: [APRSSIG:1838] Re: GPS-20, Any box ideas?

From: rwf <rwf@mindspring.com>
Date: Wed, 12 Jun 1996 01:00:31 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960612005816.2287b742@mindspring.com>
Rendered body type: text/plain

```
Somebody  wrote (about the GPS-20 board):

>I put mine in a Rat Shack project box (blue plastic) it just fits w/
>standoffs...

May want to watch this.  We had lots of trouble with the Motorola Oncore GPS
boards being RF sensitive when left in their plastic box.  The metal encased
ones are great, the plastic seem to die when near other transmitters.  They
come back when taken to a less hostie RF environment.   I realize that the
unit is a different one and that Garmin's GPS is plastic too, but I just
thought I'd relate my experience.




                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
      rwf@mindspring.com  or  n4neq@amsat.org
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and
APRS. Ask me how!
```

---

394. Re: [APRSSIG:1825] Re: Florida Statewide APRS Meeting

From: rwf <rwf@mindspring.com>
Date: Wed, 12 Jun 1996 01:00:28 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960612005814.2287c9cc@mindspring.com>
Rendered body type: text/plain

```
Dennis Mobley wrote:
<snip>

>Rich, as I stated in the past, I will support a well thought out plan
>with both effort and dollars.
>
>I reconize your position in this endeavor and, if needed, would
>be glad to assist.
>
>To the rest of the SIG, thank you for the indulgence and bandwidth.
>Rich and I can now move onto direct email.


With all due respect,  I don't mind this discussion taking place on the SIG.
I think it is important to see how all of us (especially in large Nets) work
out working together to have a harmonious system.  Sure beats some of the
goings on I have witnessed in our area.  Rich/Dennis-  let us know how it
goes...

Ralph
```

---

395. Re: [APRSSIG:1855] last wx installment

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 12 Jun 1996 02:03:37 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960612020344.23efd36c@mailhost.primenet.com>
Rendered body type: text/plain

```
At 08:45 PM 6/11/96 -0500, KD4EMI@aol.com wrote:

>--------------------------------------TORNADO SYSTEM------------------
>-Many tornado victims never receive a warning.  The first notice they get,
>especially at night, is the view of the sky they see as their roof disappears
>into the darkness.  A sophisticated electronic device now offers life-saving
>technology.  Dr. Henry Bass, Director of The National Center for Physical
>Acoustics, along with associates at the University of Mississippi, invested
>more than 16 years in research and development to produce the Tornado Alert
>System (TAS).
```

>
> A TAS unit has a remote sensor which mounts to the exterior of the building. The sensor receives and processes data, detecting the sound signature of a tornado. When a certain frequency is matched, the exterior sensor sends a signal to the receiver inside the building. This unit is similar in appearance and size to a smoke detector. A high db alarm will sound and provide up to 90 seconds warning for you to implement your emergency plan. Alert time varies with the size of the tornado. Tornadoes can move very quickly and 90 seconds can mean the difference between life and death or serious injury. This amount of notice will only be effective if you and your family have already planned and rehearsed actions that you would take in the event of a tornado.
>

Again, this sounds neat, but how effective is it? I'd hate to be the product testor. I grew up in Ohio and spent more than one occasion with my head between my knees in school because of tornado(es). They were readily heard over a mile away, even in large brick buildings and interior rooms. Once we were plunged into darkness when a tornado ripped up the power lines outside our high school and there were no emergency lights in many interior classrooms (a violation of life-safety codes). Tornadoes really do sound like freight trains...really big freight trains. I don't see how this product would give you any more advanced notice than that. Perhaps if you were sleeping or hearing impaired it might be useful. In most places I think a RS or Maxon WX-alert radio is probably the best choice, and at $40 or less a bargain.

Another time I had the pleasure of being on an AMTRAK train bound for Chicago when a tornado ripped-up the tracks outside of Valparaiso, Indiana just ahead of us.

Twice in Arizona I've been caught in microbursts. The 1st time I was in a 12 foot kayak on Lake Pleasant. I thought I was a dead man. If the wind didn't kill me, I thought the lightning would. This microburst destroyed a nearby school!

The 2nd time I was in my convertible LeBaron (with the top down) when a microburst lead by several lightning strikes came right at me. Lightning struck a utility pole at about 51st Ave (Glendale, AZ) just as the wind hit, causing a domino effect, toppling every utility pole on the north side of Northern Ave east to about 43rd Avenue. I had just turned onto Northern when it happened and I watched the high voltage utility poles come down one by one, each making a huge shower of sparks, as they came toward me. There was nothing to do but duck and cover. Fortunately, the utility poles came down AWAY from the street, otherwise I wouldn't be typing this. To make a long story short only one car in my condo complex was crushed by a utility pole, we lost several trees in the complex, it took SRP four days to restore partial power to our neighborhood, and we made the national news. Several people in our condo complex swear it was a tornado, some swore it was a UFO or other paranormal activity (I'm not kidding about that!), but I rode it out. It was a classic microburst. I can see why these things knock aircraft out of the sky. Nothing like a little 100 mph downdraft to ruin your evening.

As a humorous aside, after it happened there were several cars at 47th Ave and Northern that had power lines come down on them. I jumped out of my car to render assistance and to try and stop cars from driving under partially downed power lines! I can not believe how many ignorant people there are out there, as I watched several people deliberately drive their cars under power lines that were at windshield height, despite my warnings. Nothing like the thrill of wondering whether that guy dragging the power line over his roof and antenna will fry himself... Anyway I jumped out of my car with HT in hand and forgetting about the Glock holstered to my hip. I couldn't figure out why so many people, including emergency personnel, thought I was a police officer! (g) I guess a radio, a gun, and a flat-top could be a fooler.

BTW, lighting kills more people in the US every year than tornadoes and hurricanes combined, according to the NWS. I'm told the most destructive weather disturbance is "el nino." I wonder if they make a detector for that? (g)

Anyway, APRS is a useful addition to public safety. CAP uses it here in Arizona, and I'd like to see more weather related APRS stuff here. We did have one auto-wx APRS station run by Jerry Wyatt (I forget his call) who is also in the Civil Air Patrol, but I havn't seen it up lately. I just wish I had a house so I could implement a few of these things. I'm afraid to ask our Condo's Board of Directors for a rooftop antenna and wx station. They may say yes, and then I'd really be in trouble :)

73,

Mark Fellhauer
KC7BXS

---

396. Re: [APRSSIG:1861] Re:Re: TORNADO WARNING IS POSSIBLE

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 12 Jun 1996 02:16:50 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960612021656.23efb20c@mailhost.primenet.com>
Rendered body type: text/plain

```
At 12:04 AM 6/12/96 -0500, PCE Enterprises wrote:
>
>> Again, a neat idea, but it could be construed as a special event trigger.
>
>My thought...  Put all the neat features in; then let those who hold the
>license decide on whether (!) or not to use them.

Agreed.

>
>Remember, APRS could easily wind up being used on commercial frequencies,
>where there is no such "frowning upon".

Agreed.  I have three AR-1200 commercial TNC's.  I wish that just one of the
people who told me they are using them for amateur radio and amateur APRS
would explain to me how to mod them for the correct mark and space tones.
Two people on this SIG who promised me such info have both failed to respond
to my queries since.  And I bought the units based on their assurances.
Thanks a bunch.  Anyway, as an interesting aside, these TNC's were used in a
Burger King in California as part of their drive-thru ordering system.
Anyone want to buy them?


>
>[FWIW - NEVER ask the FCC if something is OK.  Do you think a Comissioner
>will risk his/her pension on what could be considered a judgement call?
>He says no, then it's the rule.]
>

Agreed.  I've heard about people who've learned that lesson the hard way.
Better to ask for forgiveness than permission. (g)

73,

Mark Fellhauer
KC7BXS
```

---

397. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from relay6.UU.NET (relay6.UU.NET [192.48.96.16]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
GAA21132 for <aprssig@tapr.org>; Wed, 12 Jun 1996 06:47:56 -0500 (CDT)
Received: from bridge.net by relay6.UU.NET with ESMTP
        (peer crosschecked as: newworld.bridge.net [204.253.4.4])
        id QQattv08467; Wed, 12 Jun 1996 07:47:48 -0400 (EDT)
Received: from [199.174.149.84] (dd07-084.compuserve.com [199.174.149.84]) by bridge.net (8.7.5/8.7.3)
with SMTP id HAA16327 for <aprssig@tapr.org>; Wed, 12 Jun 1996 07:45:04 -0400 (EDT)
Message-Id: <199606121145.HAA16327@bridge.net>
Subject: Re: [APRSSIG:1830] GPS-20, Any box ideas?
Date: Wed, 12 Jun 96 07:48:57 -0400
From: Steve Dimse <sdimse@bridge.net>
To: <aprssig@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

>I received my GPS-20 yesterday. I see what the other fellow meant about the
>connector, tiny!
>
>I was wondering if anyone has any ideas about a box to put this into? The
>box would also need to have some room for the 12V -> 5V reg.
>
Most people won't have one of these laying around, but if you do, it's
perfect...
```

My first GPS was a Magellan 5000, the built in antenna was not removable. To use an external antenna, you had to buy a $300 system that included the antenna with preamp built in, and a box that amplified the signal further and transmitted it to a mount next to the built in antenna. Unfortunately the high amplification factor resulted in overloading and burnout from 440 MHz signals...there was no low pass filter in the box. So it sat, forlorn, in my junk box...

Now for the cool part...besides having room for the GPS-20, the box includes a 5 volt regulator with heat sink, a power LED, the ciruitry to put 5v on the antenna line and dc isolate the receiver, and a cable for the serial port out! A perfect case for this application.

The ciruitry you would use is pretty obvious. The only complex part senses current drain from the GPS to turn on the rest of the box, I just jumpered this out of the loop. It works great, and I don't have to worry about the current drain of the external antenna killing my GPS-20.

Obviously not worth paying $300 for new, but worth looking around at marine electronic stores for dead ones, maybe even calling Magellan for one...anyone know someone at Magellan?

73 de Steve

---

398. Re: [APRSSIG:1835] Re: APRS/Pentium/Windows 95

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 12 Jun 96 07:50:16 -0400
To: <aprssig@tapr.org>
Message-ID: <199606121146.HAA16371@bridge.net>
Rendered body type: text/plain

>Good luck Farrell...it's my considered opinion that virtually nothing
>runs successfully using Windoze 95. Spent 4 hours the other night
>configuring a modem to run under 95, which is billed as
>auto-configuring/plug 'n play. I don't think so!
>
Shuda bought a Mac!

73 de Steve KO4HD

---

399. Re: [APRSSIG:1846] Re: TORNADO WARNING IS POSSIBLE

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 12 Jun 96 08:03:00 -0400
To: <aprssig@tapr.org>
Message-ID: <199606121159.HAA16903@bridge.net>
Rendered body type: text/plain

>> There is a subtle difference here...and I'm going to try to explain
>> my understanding of the rules(and how I'd apply them to write an
>> appropriate OO card...) Anyway, you are probably all aware that it
>> is a bozo nono to retransmit the NWS radio stations..that is
>> because they are another radio service and this is forboten!
>
>See 97.113 (e)   Just so the folks don't get any wrong ideas
> about what is the Rule. Read it, boil it down and see if this is
>what it says.....
>
>97.113 (e) Says that it is forboten to retransmit the Rolling Stones
>or John's Wrecker Service OR the State Police BUT it is okay to
>retransmit the NOAA Weather Service (Gov't supplied - 162Mhz)
>as an incident of normal Amateur Communications.

But the real bottom line is the FCC doesn't inforce flagrant violations involving jamming, obscenity, and unlicensed operation. Do you really thing they are going to split hairs on a subject like this? If they were to send out a NAL to someone for something as trivial as this, a letter of reply with stating why you thought it would be within the rules, an apology, and a promise never to do it again would get you off the hook. The perfect example is the over-zealous FCC Engineer who sent NAL's to the BBS operators automatically passing a commercial message. Yes, there was some angst involved, but none of them were fined or lost their licenses.

There will always be different interpretations of the rules, that's what we have lawyers for...of course, they write the rules and laws so obtuse as to require their services!

I say do what you feel is within the bounds of the rules, don't allow those self-appointed lawyers among us to slow the development of APRS!

73 de Steve KO4HD

---

400. Re: [APRSSIG:1851] Other events

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Wed, 12 Jun 1996 12:48:15 GMT
To: aprssig@tapr.org
Message-ID: <199606121248.MAA04973@mailhost.worldnet.att.net>
Rendered body type: text/plain

```
At 01:04 AM 6/12/96 +0000, you wrote:
>I have been thinking again...How about an  interface a seismograph (sp ?)
>to aprs...Interesting application..?  A network of stations ??
>
>Hmmm lightning, weather, siemographs, how about those of you who live near
>Nuclear
>power plants...?
_______________________________________snip_________________________________

Neat Ideas!!! Not to sure about Earth quakes and Nuclear destruction, but
since we (you and I)
live on the lightning highway of the world the lightning detector idea
sounds great!!!!!

The store where I work (BOAT/U.S.) sells a device called "SkyScan
Lightning/Storm Detector"
which (as advertised) will warn of strikes in 20-40,8-20,3-8, and 0-3 mile
ranges, each marked by an appropriate LED.  You can program an audible alarm
for the range you want etc.

Though this might be of interest.  I will activate a unit at the store (as a
demo unit) and let you know how it works.

Keep up the GOOD THOUGHTS!!!

Bud (WB4LTF)
```

---

401. Re: [APRSSIG:1866] Re: GPS-20, Any box ideas?

From: William Nolle <wnolle@ix.netcom.com>
Date: Wed, 12 Jun 1996 08:21:51 -0700
To: aprssig@tapr.org
Message-ID: <31BEE08F.5328@ix.netcom.com>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> My first GPS was a Magellan 5000, the built in antenna was not removable.
> To use an external antenna, you had to buy a $300 system that included
> the antenna with preamp built in, and a box that amplified the signal
> further and transmitted it to a mount next to the built in antenna.
> Unfortunately the high amplification factor resulted in overloading and
> burnout from 440 MHz signals...there was no low pass filter in the box.
> So it sat, forlorn, in my junk box...
> Right on Stve Hi, i have a Magellan NAV500DX and the silly looking egg type
external antenna. I now discarded that and am runng the receiver setting on
my pickup dashboard and it works just as good there. Don't expect to much
help from Magellan tough!. When i first installed the Egg antenna and run
the rg58 coax into the cab of my truck i must have pinched and shorted the
coax and burned something up in the preamp box. I called Magellan and they
stated as follows " To repair it will not cost as much as a new one
would". I didn't feel that was to good an answer so i opened the well
sealed box to set out to fix the problem. I found a burned choke and called
Magellan back to asked them for either a schematic (No way) or the value of
the part (No way at first), but after much talking he gave me the part
value, i replaced the 10 cent part and it worked ok after that. So don't
expect to much out of Magellan!!!. By the way mine is in the junk box also
Hi..

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

402. Re: [APRSSIG:1868] Re: TORNADO WARNING IS POSSIBLE

From: William Nolle <wnolle@ix.netcom.com>
Date: Wed, 12 Jun 1996 08:28:54 -0700
To: aprssig@tapr.org
Message-ID: <31BEE236.6885@ix.netcom.com>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> I say do what you feel is within the bounds of the rules, don't allow
> those self-appointed lawyers among us to slow the development of APRS!
>
> 73 de Steve KO4HD

Right Steve, again all those on the sig bringing up all those messages and
trying to figure out if it's according to the rules. Again i say if that would
be ilegal so would be beaconing all the weather station data onto aprs
give it up and let's just go for it.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

403. Re: [APRSSIG:1869] Re: Other events

From: William Nolle <wnolle@ix.netcom.com>
Date: Wed, 12 Jun 1996 09:02:03 -0700
To: aprssig@tapr.org
Message-ID: <31BEE9FB.7918@ix.netcom.com>
Rendered body type: text/plain

```
B.G. Gotshall wrote:
> The store where I work (BOAT/U.S.) sells a device called "SkyScan
> Lightning/Storm Detector"
> which (as advertised) will warn of strikes in 20-40,8-20,3-8, and 0-3 mile
> ranges, each marked by an appropriate LED.  You can program an audible alarm
> for the range you want etc.
>
> Though this might be of interest.  I will activate a unit at the store (as a
> demo unit) and let you know how it works.
>
> Keep up the GOOD THOUGHTS!!!
>
> Bud (WB4LTF)

Yes this is the unit i posted a message about and i also have the demo
software, looks greta but at that price i will pass Hi.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

404. Re: WINAPRS bugs

From: Mark Sproul <sproul@ap.org>
Date: Wed, 12 Jun 1996 09:54:37 -0400
To: aprssig@tapr.org
Message-ID: <v03006f00ade47c678f9b@[165.1.27.20]>
Rendered body type: text/plain

```
>The lockup people talk about . . .  Seems to be related to the fact
>that there is no Map Window OPEN.  I close all maps windows and at
>the next Packet RX,  I get an Unhandled Execption error.
>



This is a CONFIRMED bug and has been fixed.

Until the next release, keep at least one window open.

Mark

_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

405. Re: [APRSSIG:1862] Re: GPS-20, Any box ideas?

From: CRWMAC@aol.com
Date: Wed, 12 Jun 1996 10:46:20 -0400
To: aprssig@tapr.org
Message-ID: <960612104619_325838376@emout13.mail.aol.com>
Rendered body type: text/plain

```
Bob Bruninga said GPS20 was very RF tolerant...I'll find out!! The gps will
be <12"
from a 2watt HT. I'm using lots of shielding on the RF parts, but the gps is
in plastic... it works fine on the bench w/ everything clip-corded together!

Also, if you were at Dayton, Bob had his tracker in the same Radio Shack
enclosure.

73,
Mac WD8OZT
```

---

406. Re: TAPR GPS-20 help requested

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Wed, 12 Jun 1996 10:09:00 -0500
To: stanzepa@usa.nai.net (stan horzepa)
Cc: aprssig@tapr.org
Message-ID: <v02140b01ade48d4279a7@[204.181.160.29]>
Rendered body type: text/plain

```
>Hello All,
>
>Let me preface this by saying that I am a GPS greenhorn. I've never before
>had seen one in the flesh until I received my GPS-20 from TAPR yesterday.
>Problem is that the unit I received appears to be data dead.
>
>I am very confident that the unit is wired properly and I do see +5 volts
>dc at the center pin of the antenna connector, so I know it is getting
>power, however, I get no data out of the unit. I did swap power supplies as
>the documentation suggested, but still no go.
>
>My thought is that the unit is DOA, but before I reach that drastic
>conclusion, I thought I asked the SIG for any ideas on the matter.
>
>Thanks in advance,
>
>Stan, WA1LOU
>
>stanzepa@nai.net
>

You don't say enough to be really helpful, but ...

I assume you have 5V and ground correctly applied to the "connector from Hell".

What pin are you getting data from? How are you looking at the data? What
data speed? What other connections have you made to the 12 pin connector?

You should see data as soon as 5V is applied, even without an antenna.


Ron W5RKN

also:
rparsons@bga.com
```

---

407. Re: TORNADO WARNING IS POSSIBLE

From: Will Flor <willf@rrgroup.com>
Date: Wed, 12 Jun 96 10:11:22 -0700
To: aprssig@tapr.org
Message-ID: <199606121509.KAA22093@inc.net>
Rendered body type: text/plain

```
You wrote:
----------
From:   KD4EMI@aol.com[SMTP:KD4EMI@aol.com]
Sent:   Tuesday, June 11, 1996 7:15PM
To:     aprssig@tapr.org
```

```
Subject:        [APRSSIG:1848] Re: TORNADO WARNING IS POSSIBLE

In a message dated 96-06-11 08:38:42 EDT, you write:

> >
> >> I think we covered this before.  The FCC frowns on "special event"
> >> triggering of amateur radio transmissions.  One person on this sig has
> >fully
> >> researched this in conjuction with using the NWS weather alert to signal
> >> APRS stations automatically the second the alert is received.  The FCC
> says
> >> it's a no-no.  BUT one could certainly
> >> include lighning strike information in one's regularly sent beacon.   It
> >may
> >> not be as good a solution, but at least it's something.
> >>

> This is incorrect...

Maybe.  However...

> The FCC objected to using NWS alerts to trigger HAM
> stations..

Actually, their objection was *much* more general than that.  Details
below.

>This is not responding to NWS alert it is responding just like a wx
> monitor... THerefore it is totally legal

This is *certainly* incorrect, since a wx monitor does not *respond* to
anything,
but rather continuously monitors something and sends out periodic
reports.  The
periodic reports from an APRS wx monitor are the same under blue skies
and in
a hurricane, except for the data they contain. Unlike the system you
proposed,
the transmissions are **not** triggered by severe wx.

A system that continously monitors something and sends out data on its
subject
is a telemetry station, specifically allowed by Part 97 to be under
"automatic control."
A "lightning monitor" would certainly be legal, then - but that's *not*
something
triggered by lightning - it's something that continuously sends out
lightning reports
on a prearranged schedule.

The FCC does not agree that a system that monitors something, sending out
nothing
at all until some specific event (like lightning) happens, then sending
out data on the
triggering event, constitutes "automatic operation" according to their
definition.  I certainly
disagree with the FCC on this matter, but that *is* what their lawyers
have publicly
stated previously; I see no reason to believe that their position has
changed.  The original
intent for this was, I believe, to discourage the use of ham radio for
burglar alarms.

Something that is *triggered* by severe wx, rather than by a ham turning
it on,
is frowned on by the FCC.  It may or may not be legal, but it's very
different
from a wx monitor - this is a wx-triggered transmission, right?
Completely
different.

I think you should *most certainly* keep developing this project, and at
the same
time submit a formal request to the FCC that they issue a ruling
specifically permitting
this use.

73 de KB9JTT
```

408. Re: [APRSSIG:1846] Re: TORNADO WARNING IS POSSIBLE

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Wed, 12 Jun 96 08:30:51 PDT
To: aprssig@tapr.org
Message-ID: <9606121530.AA29296@eng.adaptec.com>
Rendered body type: text/plain

```
> From aprssig@tapr.org Tue Jun 11 21:52:09 1996
> Date: Tue, 11 Jun 1996 18:50:46 -0500 (CDT)
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:1846] Re: TORNADO WARNING IS POSSIBLE
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio  APRS Special Interest Group
> Content-Length: 1379
>
> On 11 Jun 96 at 9:55, you wrote:
>
>
> > There is a subtle difference here...and I'm going to try to explain
> > my understanding of the rules(and how I'd apply them to write an
> > appropriate OO card...)  Anyway,  you are probably all aware that it
> > is a bozo nono to retransmit the NWS radio stations..that is
> > because they are another radio service and this is forboten!
>
> See  97.113 (e)   Just so the folks don't get any wrong ideas
>  about what is the Rule.  Read it, boil it down and see if this is
> what it says.....
>
> 97.113 (e)  Says that it is forboten to retransmit the Rolling Stones
> or John's Wrecker Service OR the State Police BUT it is okay to
> retransmit the NOAA Weather Service  ( Gov't supplied - 162Mhz)
> as an incident of normal Amateur Communications.

Yep... I was taught something new after the above post via private email.
No arguement.  The ONLY fly in the ointment is the previso further down
in 97.113 that says that it can be a regular event, i.e. rebroadcasting
the NWS every Tuesday night on the net, or grabbing the latest weather
via a re-broadcast on the hour.  See...OO's are just other hams, no more
or less...we ain't perfect!

Summary...it is OKAY to rebroadcast NWS specifically in a non-regular
fashion.

>
> >On the  other hand, if a station under automatic control announces it is
> > 12pm..this is okay(much like announcing that my lightning sensor
> > went off...duck!)  This isn't a retransmission of data that
> > originated on another radio service, but rather from a sensor
> > attached to the stations computer.  This should be okay.  Go for it.
>
> That would be Telemetery. Telemetery is OK per 97.111 (b-7). . .
>
> I am NOT a Lawyer BUT it is pretty black and white.  I got the rules
> from http://www.afn.org/~gars/fcc/p97-b.html.
>
> Whats say you try another message to the APRSSIG.   This time tell it
> like it is.

You already did a fine job of that.

My whole point to the post was that I didn't think there was ANY problem
with the sensor causing the transmission of data in the first place...
The NWS aspect was meant for illustration(which I DID screw up...)
The lightning sensor idea should be just fine...calling this sensor
telemetry also makes good sense, and IS allowed.  So now we return
you to your normal discussions of APRS PLEASE!

I REALLY didn't mean for this to tie up the sig so heavily...Sorry
folks.

73 de Steve KA6S
```

---

409. Re: [APRSSIG:1864] Re: last wx installment

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Wed, 12 Jun 1996 08:34:13 -0700 (PDT)
To: Mark Fellhauer <sparkfel@primenet.com>
Cc: Bill Lake <wlake@silcom.com>, aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960612082722.4332B-100000@spork.callamer.com>
Rendered body type: text/plain

Hi Mark and the group. Indeed your stories are real and applicable
regarding tornados and other disasters. In California of course,
the great fear is earthquakes. There appears to be many preliminary
warning methods some of which might be placed on APRS effectively.
Last months Scientific American has a rather detailed construction
article on an electromagnic detector for such phenonmenon. The Mu
metal rods ARE expensive ($70 each!) but do work. Winding 50000
turns of number 38 wire remains a task tho. Since earthquakes have
a finite travel time it looks like some real contribution can be made
by APRS. What do you think? Cliff Buttschardt W6HDO/K7RR

---

410. Re: [APRSSIG:1414] Copy of: KPC-3 HELP

From: Chris & Kathleen <wb8ypo@harborside.com>
Date: Wed, 12 Jun 1996 08:40:20 -0700
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606121540.IAA00435@harborside.com>
Rendered body type: text/plain

```
At 07:44 AM 5/30/96 -0500, Robert  A. WHEELER wrote:
>
>---------- Forwarded Message ----------
>
>From:  Robert  A. WHEELER, 102006,3004
>TO:    APRS SIG, INTERNET:listserv@tapr.org
>DATE:  5/29/96 2:44 PM
>
>RE:    Copy of: KPC-3 HELP
>
>I need help setting up my KPC-3 TNC to use with APRS.  everything I do I get "
>I/O Glitch ", when I do Alt-S  T  and O C T  ineach case I get Hyrogliphics.
>Also if the INITTAPR.TNC file need to be revised I Need to know that.  I
gave up
>tring to get APRS to work on my PK-232 a year ago. Now I decided to try a
simple
>TNC, still no luck.  I am using APRS 7b, and Pacterm with the TNC. I need to be
>walked through the steps if someone would be so kind.  Thanks and 73.   Bob
>WA4OPV  Hartwell, GA
>
>
Can any one tell me why I am getting an extra file in binery code,
I now have a hard drive of files from Microsoft mailers
It seems that it sends out and extra file. here is a sample,
you will find it on your c:\drive where your mailer is.
If you can let me know what this is and how to decode IT!

73 Chris wb8ypo@harborside.com

ps Bob if you see this Msg you are one of there that sent out a file!
```

[Attachment: APRSSIG3; application/octet-stream; 1,286 bytes]

---

411. +++ CABLE +++

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Wed, 12 Jun 96 09:09:30 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org,
alChan%aol.com@w6dnt.ampr.org
Message-ID: <200@w6dnt.ampr.org>
Rendered body type: text/plain

Hi...

The plug, connectors, and wires that came with the GARMIN 20 are so small I
can hardly see them.

Where can I BUY a cable for it?

Where do I get the software to run it with my laptop?

Please advise. Thanks.

```
  -al
  """"""""""""""""""""""""""""""""""""""""""""""
```

Al@w6dnt.ampr.org

---

412. Re: [APRSSIG:1869] Re: Other events

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Wed, 12 Jun 1996 11:40:52 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606121640.LAA14735@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
At 07:50 AM 6/12/96 -0500, B.G. Gotshall wrote:
>Neat Ideas!!! Not to sure about Earth quakes and Nuclear destruction, but
>since we (you and I)
>live on the lightning highway of the world the lightning detector idea
>sounds great!!!!!
>
>The store where I work (BOAT/U.S.) sells a device called "SkyScan
>Lightning/Storm Detector"
>which (as advertised) will warn of strikes in 20-40,8-20,3-8, and 0-3 mile
>ranges, each marked by an appropriate LED.  You can program an audible alarm
>for the range you want etc.

N0PBS the Infinitely Idea-Endowed speaks... ;-)

I thought I'd make this one long message and save some bandwidth.

1) Lightning Detection... it would be nice to have some sort of way of
collaborating time, range, and stroke counts into the standard beacon.  This
would get rid of the clutter of every single lightning strike during a
standard thunderstorm showing up on a map, causing the frequency to saturate
and APRS stations to crash with a lack of memory, and would also keep the
FCC moderately happier.

Ergo, I propose something along the lines of a new parameter doohickey on
the beacon line.  It would look something like:

L000-010-014-029-048-057-082-103

The first one is 0-3 mile range strikes in the last 15 minutes.  The second
is 0-3 mile range strikes in the last 1 hour.  The third is 3-8 mile range
in last 15 min, fourth is 3-8 in last hour, and so forth for 8-20 and 20-40
mile range.

The indicator isn't quite in standard APRS format (adjust it accordingly
please ;-), and it's a bit long, but it could be used.  It also goes along
with the standard beacon, so the FCC should like it.  Maybe Zeus should get
a ham radio license ;-)

2) Internet Wormholing... when I fired up WinAPRS for the first time a week
or two ago (not on-air though -- my external antenna got in a war with a
tree last year and I haven't had time to fix it :-/), the first thing I
thought was... "this would make a kick-bum Winsock application."  :-)  DOS
isn't the right environment for IP networking (trust me, I've tried it), but
Win95 and (believe it or not) the Macintosh are.  I'm willing to work out a
nice networking protocol for APRS data.  Some issues include:

Authentification/Cracking prevention
Flood protection
Ability to gracefully handle losses of network connectivity
Ability to have a central dispersion point for connection information
Ability to handle point-to-point or broadcast-type links

The last 2 are what I think are neat.  There could be a central server
somewhere which would take position reports from Internet gateway stations,
and send them off to other gateways.  Maybe this would be a good time to
register aprs.com and aprs.net with InterNIC?  ;-)

It would be *really* nice to be able to use APRS without the metal roof
getting in the way ;-)

Bob?  Keith?  Mark?  Ideas?  :-)  -rt
```

---

413. Re: TORNADO WARNING IS POSSIBLE

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Wed, 12 Jun 1996 09:25:14 -0400
To: aprssig@tapr.org
Message-ID: <31BEC53A.7B35@dgp.toronto.edu>
Rendered body type: text/plain

Is it not true, that those who want to, can monitor NWS transmissions
and take appropiate cover as they deem necesary?

Why do we want to generate QRM as 300 APRS stations receive the same
NWS warning and commence beaconing identical NWS info?

Certainly those that truly need the NWS info will be receiving it directly?
(such as radio and TV stations)

Won't they also use a more reliable reception method than Amateur Radio?
(such as modem dial up links, internet, or a dedicated NWS receiver)

Do you really believe that a TV station, whose FCC license may mandate a
crawl insertion with NWS bulletin info, will depend on Tom's home ham radio
setup being up, operational, and updated with the NWS bulletin? Not likely!

Please remember this is AMATEUR radio. We are not a self appointed pseudo
government organization. Our traffic can deal with details of an experimantal
nature. We are prohibited from carrying commercial traffic, whether we charge
for it or not. Enjoy ham radio for what it is, not for what it isn't!

Greg, VE3DIB

---

414. Re: [APRSSIG:1874] Re: GPS-20, Any box ideas?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 12 Jun 1996 13:37:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960612133156.21285G-100000@arctic>
Rendered body type: text/plain

On Wed, 12 Jun 1996 CRWMAC@aol.com wrote:

> Bob Bruninga said GPS20 was very RF tolerant...I'll find out!! The gps will
> be <12" from a 2watt HT...

APRSdos REPLY COMMENT: I said that? Hummh....   No, I have no basis one
way or the other. Mine works, but I have no idea how much better it would
work in a metal enclosure, nor whether it is susceptible to RFI. I do know
that the GPS-45 we had on the dashboard next to a 15 year old MFJ TNC and
a 5 year old magellan NEVER got a fix unless we got it more than 4 feet or
more from the dash. The 45 did work in the backseat! (plastic roof).

de wb4apr@amsat.org

---

415. Re: [APRSSIG:1830] GPS-20, Any box ideas?

From: David Rush N0OXH <n0oxh@alikazam.sprintcorp.com>
Date: Wed, 12 Jun 1996 12:55:25 -0500
To: aprssig@tapr.org
Cc: n0oxh@alikazam.sprintcorp.com
Message-ID: <199606121755.MAA28861@alikazam.sprintcorp.com>
Rendered body type: text/plain

Randy:

>I received my GPS-20 yesterday. I see what the other fellow meant about the
>connector, tiny!
>
>I was wondering if anyone has any ideas about a box to put this into? The
>box would also need to have some room for the 12V -> 5V reg.

I used a Rad Shack box for mine. It's one with the black plastic case and
aluminum lid. I chose the one that's a bit bigger than the smallest one.
I used RS's 10mm standoffs to mount the GPS-20 to the alum. lid - widthwise
is a near perfect fit. Lengthwise there's just a little bit of breathing
room for the connector and stuff.

On the plastic box I mounted a DB9 for data in/out and power (and built an
adapter cable that breaks out power and RS232. I mounted the 5V regulator
inside the box, but discovered it gets pretty toasty, so I'll be adding
a heat sink of some sort on the screw that goes through the plastic case
holding the regulator. I also have a power lite (LED) and a 1pps LED on the
case, and a BNC connector.

The depth of the box is sufficient that the coax coming out of the GPS-20
board can make a 90 deg bend without undue trauma to anything. I was able
to solder the cable to the inside of the BNC, then coil the excess cable up
inside the box. That way I've still got plenty of "revision length" on the
cable.

```
Once completed, I can remove the lid w/GPS-20 and unplug the connector, thus
easily freeing the GPS-20/lid from the rest of the box.

David, n0oxh
```

---

416. Re: [APRSSIG:1875] Re: TAPR GPS-20 help requested

From: stanzepa@usa.nai.net (stan horzepa)
Date: Wed, 12 Jun 1996 15:03:37 -0400
To: aprssig@tapr.org
Message-ID: <v01530500ade4c10928f1@[206.98.48.207]>
Rendered body type: text/plain

```
>>Hello All,
>>
>>Let me preface this by saying that I am a GPS greenhorn. I've never before
>>had seen one in the flesh until I received my GPS-20 from TAPR yesterday.
>>Problem is that the unit I received appears to be data dead.
>>
>>I am very confident that the unit is wired properly and I do see +5 volts
>>dc at the center pin of the antenna connector, so I know it is getting
>>power, however, I get no data out of the unit. I did swap power supplies as
>>the documentation suggested, but still no go.
>>
>>My thought is that the unit is DOA, but before I reach that drastic
>>conclusion, I thought I asked the SIG for any ideas on the matter.
>>
>>Thanks in advance,
>>
>>Stan, WA1LOU
>>
>>stanzepa@nai.net
>>
>
>You don't say enough to be really helpful, but ...
>
>I assume you have 5V and ground correctly applied to the "connector from Hell".
>
>What pin are you getting data from?

pin 4

>How are you looking at the data?

with a dumb terminal emulator

>What data speed?

4800

>What other connections have you made to the 12 pin connector?

none

>You should see data as soon as 5V is applied, even without an antenna.

I don't know how I left the following information out of my original
message. I guess I was up too late writing it... anyway when I powered up
the unit for the very first time, I did see data, but then the unit stopped
sending data and I have not seen any since.

>
>
>Ron W5RKN
>
>also:
>rparsons@bga.com
```

---

417. Re: [APRSSIG:1863] Re: Florida Statewide APRS Meeting

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Wed, 12 Jun 1996 15:30:18 -0400
To: aprssig@tapr.org
Message-ID: <31BF1ACA.1349@pobox.com>
Rendered body type: text/plain

```
rwf wrote:
>
> Dennis Mobley wrote:
> <snip>
>
```

> >Rich, as I stated in the past, I will support a well thought out plan
> >with both effort and dollars.
> >
> >I reconize your position in this endeavor and, if needed, would
> >be glad to assist.
> >
> >To the rest of the SIG, thank you for the indulgence and bandwidth.
> >Rich and I can now move onto direct email.
>
> With all due respect, I don't mind this discussion taking place on the SIG.
> I think it is important to see how all of us (especially in large Nets) work
> out working together to have a harmonious system. Sure beats some of the
> goings on I have witnessed in our area. Rich/Dennis- let us know how it
> goes...
>
> Ralph

I agree. Rich/Dennis, let's not close up and restrict this discussion
before it even starts. As long as it's congenial and positive, open
discussion can reap the benefits of input from the broadest base of
users, and I doubt that many users of the sig will mind the bandwidth.

Lew - W7LVW - Fort Myers, Florida

---

418. Tornado Warning is Possible

From: steve <steve@muskoka.com>
Date: Wed, 12 Jun 1996 16:24:21 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960612212421.006642f8@muskoka.com>
Rendered body type: text/plain

Hello All,

I feel that I have to jump on the bandwagon once again. In response to
VE3DIB's statement, I would like to say Ham Radio plays a very important
part in Severe Wx Warning. I am sure Aprs and Winaprs will be a good tool to
help us out.. I am not sure about SKYWARN but I do know that our CANWARN
system would not be at all possible without AMATEUR RADIO. We are the eyes
of the SEVERE WX branch of ENVIRONMENT CANADA.We are the ones that operate
the Canwarn
nets when severe wx approaches. Look at how many repeaters we use. So you
see Amateur Radio plays a very important role in severe wx and I am looking
forward to using Aprs and Winaprs in this very important field.

I am waiting with eagerness to see where aprs and winaprs will take us..
Take care all and 73............

Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS on 2 & 6 mtr's

---

419. Re: [APRSSIG:1885] Re: TAPR GPS-20 help requested

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Wed, 12 Jun 1996 16:03:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0uTx4U-00005XC@ernest.itg.ti.com>
Rendered body type: text/plain

> >What pin are you getting data from?
>
> pin 4
>
> >How are you looking at the data?
>
> with a dumb terminal emulator
>
> >What data speed?
>
> 4800
>
> >What other connections have you made to the 12 pin connector?
>
> none

Make sure you have a ground hooked up. I had problems reading data
from my Garmin 45 with just the serial out hooked up. Make sure you hook
the DC ground to signal ground (pin 1?) on the RS232 cable to the terminal.

```
--
Alan Edmonds, KB5ZUY                           Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-214-575-6427                         6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                     Plano, TX, USA  75023
```

420. Re: [APRSSIG:1595] Re: DFjr

From: Jim Lawyer <jlawyer@mail.airmail.net>
Date: Wed, 12 Jun 1996 16:35:29 -0700
To: aprssig@tapr.org
Cc: chead@exame2.dseg.ti.com, kc5ejk@onramp.net
Message-ID: <31BF5441.1E20@mail.airmail.net>
Rendered body type: text/plain

```
Carl,
Thanks for letting us know you may be coming into Dallas. If you'll let us know
your schedule and where you are staying we'll try to arrange a mutually advantageous
get together and you can share your expertise and experiences with us. We have about
35 folks in APRS and we're always happy to visit with "experts from afar".


Jim Lawyer aa5qx @ 214-205-1510 (office) or
214-423-9106 (home)

Claude Head K5DTN usually coordinates our get togethers. His office number is
214-995-5040 (chead@exame2.dseg.ti.com)

Bob is our "premier APRS rowdy" (kc5ejk@onramp.net)
```

421. Re: [APRSSIG:1886] Re: Florida Statewide APRS Meeting

From: Roger Breckon <n8chb@tir.com>
Date: Wed, 12 Jun 1996 21:51:05 +0100
To: aprssig@tapr.org
Message-ID: <31BF2DB9.36F7@tir.com>
Rendered body type: text/plain

```
Lew Midlam wrote:
>
> rwf wrote:
> >
> > Dennis Mobley wrote:
> > <snip>
> >
> > >Rich, as I stated in the past, I will support a well thought out plan
> > >with both effort and dollars.
> > >
> > >I reconize your position in this endeavor and, if needed, would
> > >be glad to assist.
> > >
> > >To the rest of the SIG, thank you for the indulgence and bandwidth.
> > >Rich and I can now move onto direct email.
> >
> > With all due respect,  I don't mind this discussion taking place on the SIG.
> > I think it is important to see how all of us (especially in large Nets) work
> > out working together to have a harmonious system.  Sure beats some of the
> > goings on I have witnessed in our area.  Rich/Dennis-  let us know how it
> > goes...
> >
> > Ralph
>
> I agree.  Rich/Dennis, let's not close up and restrict this discussion
> before it even starts.  As long as it's congenial and positive, open
> discussion can reap the benefits of input from the broadest base of
> users, and I doubt that many users of the sig will mind the bandwidth.
>
> Lew - W7LVW - Fort Myers, Florida
////////////////////
I mind!

73

N8CHB
```

422. Re: [APRSSIG:1806] TORNADO WARNING IS POSSIBLE

From: ku0g@sprynet.com
Date: Wed, 12 Jun 1996 15:19:40 -0700
To: aprssig@tapr.org

Message-ID: <199606122219.PAA01710@m1.sprynet.com>
Rendered body type: text/plain

Hey! Here's another great idea! Could the 4 LEDs be worked in some manner as to trigger a special alarm/switch on the MIM to force a WX Alarm like we already have written into APRS for the remote WX sites? I can picture having one of these little babies at all of our weather sites here and being able to trigger a lightning alarm for the NWS to pick up on.....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

423. Re: [APRSSIG:1886] Re: Florida Statewide APRS Meeting

From: n2czf@gate.net
Date: Wed, 12 Jun 1996 19:28:27 -0400
To: aprssig@tapr.org
Message-ID: <199606122328.TAA22974@osceola.gate.net>
Rendered body type: text/plain

Rest assured Lew, we will not close the discussion up totally on the sig but I do not want to go overboard either. There has been talk of starting a sig or some other medium like a sig just for Florida users or anyone else interested in our APRS area but it is difficult. We need a provider who would donate the space and services for our effort to keep everyone who is interested in touch. We do not want to limit anyone to join but I also do not want to bombard mailboxes across the world with news of interest to Florida only.

For the time being I will post messages RE:Florida on the sig and request anyone with ideas or comments to reply. Just use good judgement if it should go to the sig or the original sender on a case by case basis. Some of my personal replies will go on for 2-3 pages and I will not subject everyone on the sig to that, I do personal replies and if warrented I will CC: anyone else that may be interested.

REQUEST: Anyone have a contact in Florida in the Internet business that could possibly support us with a little space for a Web page and a sig or newsgroup? Please let me know, I think we could return the favor with some good publicity.

On Wed, 12 Jun 1996, Lew Midlam <Lew.Midlam@pobox.com> wrote:
>rwf wrote:
>>
>> Dennis Mobley wrote:
>> <snip>
>>
>> >Rich, as I stated in the past, I will support a well thought out plan
>> >with both effort and dollars.
>> >
>> >I reconize your position in this endeavor and, if needed, would
>> >be glad to assist.
>> >
>> >To the rest of the SIG, thank you for the indulgence and bandwidth.
>> >Rich and I can now move onto direct email.
>>
>> With all due respect, I don't mind this discussion taking place on the SIG.
>> I think it is important to see how all of us (especially in large Nets) work
>> out working together to have a harmonious system. Sure beats some of the
>> goings on I have witnessed in our area. Rich/Dennis- let us know how it
>> goes...
>>
>> Ralph
>
>
>I agree. Rich/Dennis, let's not close up and restrict this discussion
>before it even starts. As long as it's congenial and positive, open
>discussion can reap the benefits of input from the broadest base of
>users, and I doubt that many users of the sig will mind the bandwidth.
>
>Lew - W7LVW - Fort Myers, Florida
>
>
>
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.   Steven Wright

424. APRS SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 12 Jun 1996 19:29:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960612192549.25766A-100000@arctic>
Rendered body type: text/plain

```
This is a preliminary announcement.  SAREX will be activated for APRtrak
type contacts on the STS-78 mission scheduled to launch on 20 June
(next 10 days!)

I will put out details when I get em done...

This is a 39 degree mission, so northern states should get good passes
too, AND its a long duration mission!

Most passes will be daytime

de wb4apr@amsat.org
```

425. my GPS mobile shows up as a dot?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 12 Jun 1996 20:13:19 +0000
To: aprssig@tapr.org
Message-ID: <199606130017.UAA29230@hemisphere.neocomm.net>
Rendered body type: text/plain

```
I can`t seem to figure out why my -14 mobile shows up as a DOT
instead of a vehicle. I am shure its in them never ending docs, but
every time I read them things I find somthing new and exciting that I
did`nt see before and get side tracked.


cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
```

426. Re: [APRSSIG:1882] Re: TORNADO WARNING IS POSSIBLE

From: William Nolle <wnolle@ix.netcom.com>
Date: Wed, 12 Jun 1996 19:31:12 -0700
To: aprssig@tapr.org
Message-ID: <31BF7D70.1437@ix.netcom.com>
Rendered body type: text/plain

```
Greg Blair wrote:
>
> Please remember this is AMATEUR radio.  We are not a self appointed pseudo
> government organization.  Our traffic can deal with details of an experimantal
> nature.  We are prohibited from carrying commercial traffic, whether we charge
> for it or not.  Enjoy ham radio for what it is, not for what it isn't!
>
> Greg, VE3DIB-------------
I could write a lenghty reply to this message, but i won't except that i'm in a
heavy weather area (Tornado belt) and i have seen it many times that those great
TV stations where knocked off the air by mass power outages. It would be great to
see pull up my APRS screen and see some indication of what's going on, since many
hams including myself do have portable setups in cases such as that.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

427. Wow...

From: KD4EMI@aol.com
Date: Wed, 12 Jun 1996 20:46:56 -0400
To: APRSSIG@tapr.org
Message-ID: <960612204655_326406801@emout08.mail.aol.com>
Rendered body type: text/plain

```
I freaked out when I watched my computer d/l all the messages about
tornado's, earthquakes, radiation and legal issues.. I can't  believe the
interest this has recieved.

I just wanted to thank everyone for their support.  I wanted to say
publically that this effort (lightning and siesmograph) interfacing will
recieve my highest priority.  As the poster at Apple computer stated
```

```
"REAL ARTISTS DELIVER PRODUCT"   or something like that.

I'll get this thing working , and will let everyone know about it.

BTW  the lightning sensor will not be set up to trigger after every strike,
cause this would completely saturate the vhf net.  I will set it up to trip
at a certain level. (What level Im not sure yet..that will be determined)

Once I get the NEW one built and working will start hiting up people to test
them and start hitting up on  BOB B  to help us out on the best way to do
this..


Will keep everyone posted.
Mike
KD4EMI@AOL.COM
```

428. Re: [APRSSIG:1891] Re: TORNADO WARNING IS POSSIBLE

From: KD4EMI@aol.com
Date: Wed, 12 Jun 1996 20:47:11 -0400
To: aprssig@tapr.org
Message-ID: <960612204711_326407044@emout12.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-12 19:36:24 EDT, you write:

>
>Hey!  Here's another great idea!  Could the 4 LEDs be worked in some manner
>as
>to trigger a special alarm/switch on the MIM to force a WX Alarm like we
>already
>have written into APRS for the remote WX sites?  I can picture having one of

>these little babies at all of our weather sites here and being able to
>trigger a
>lightning alarm for the NWS to pick up on.....
>
>

I dont know anything about the MIM...!!

Mike
KD4EMI@AOL.COM
```

429. VHF APRS in WPA,WNY,ENY,NNY

From: "Al Zelna, N3KAE" <ldajz@epix.net>
Date: Wed, 12 Jun 1996 21:14:49 -0700
To: aprssig@tapr.org
Message-ID: <31BF95B9.7758@epix.net>
Rendered body type: text/plain

```
Howdy folks...

I hope everyone is gearing up for FD.  Members of the Scranton Pocono
Amateur Radio Klub will once again participate in FD.  This year we will
be using APRS to compliment our VHF/Packet station.

I am curious if there is anyone reading this message who can confirm
activity in the above mentioned areas ON 145.790 MHz.  Locally, around
Scranton, PA, lives K3CSG-5 who will be receiving a Comet GP-6 to replace
the 4 element beam that is in use. Hams 'round here are able to enjoy
APRS stations from SEPA,NNJ,SNJ,CT,and NLI, but everything else seems
like a black hole.

Please email info back DIRECT and NOT TO THE SIG.

73 de Al, N3KAE
```

430. Re: Call For Tapes (Field Day)

From: Eddie Horton <nshorton@ALPHA.NSULA.EDU>
Date: Wed, 12 Jun 1996 20:26:56 -0600 (CST)
To: "Ronald C. Barnes" <ka1kjz@tigger.jvnc.net>
Cc: aprssig@tapr.org, fieldorg-l@netcom.com, ham-tech@netcom.com,
        n1hax@aol.com, n1qqv@aol.com, wk1s@aol.com, johngv@ns.iconn.net,
        bblewett@straycat.com, ralph.celone@dowut.com, pqb@uconect.net,
        sbicycle@connix.com, wa1pyu@aol.com, ddbb23a@prodigy.com,
        dkostrey@iconn.net, 0005164217@mcimail.com
Message-ID: <Pine.PMDF.3.91.960612202539.162287B-100000@ALPHA.NSULA.EDU>

Rendered body type: text/plain

This is a very good idea. If it is at all possible I would like to get a copy of this to show at our field day. I don't know if we have anything on file or not, but I will look and will send it in.

Thanks,
Eddie Horton, KC5FPK
Vice President, Northwestern State University Amateur Radio Club

On Mon, 10 Jun 1996, Ronald C. Barnes wrote:

> While in the process of preparing for my club's Field Day, I realized
> something. I plan to tape as much as possible of our FD effort and make it
> into a few minute long presentation tape. Why not do a similar tape on a
> national scope?
>
> So here goes, I am looking for a copy of your club's FD raw footage,
> preferably this year. I can accept most any tape standard, broadcast,
> professional or consumer. I would prefer it on one of the broadcast
> formats, but I know how likely that is. Here is what I can take...
>
> Digital Betacam
> D2
> Betacam SP (preferably BVW w/ ch3&4 audio)
> One Inch
> Hi-8
> Regular 8
> SVHS
> VHS (sp mode only please)
>
> M-II (if you must, I can find a deck)
> Stills or slides
>
> What I wont take...
>
> Quadruplex
> Film (any size)
> Consumer Beta
>
>
> If you have any tape you are willing to let me have, reply via email and I
> will send you the shipping particulars. And please spread this call for
> tapes around as much as you can.
>
> Thanks...
>
> Ron KA1KJZ
> ARRL CT Section Technical Coordinator
>
> --
```
> ***********************************************************************
> ** Ronald C. Barnes  KA1KJZ      Engineering Tech, Group W Satellite **
> ** 1591 W. Broad Street                ARRL CT Section Technical Coord.    **
> ** Stratford, CT  06497          Member, Soc. Broadcast Engineers    **
> **                                                                   **
> ** The preceding are my opinions, mine, mine, mine!                  **
> ** Any attempt to say otherwise will result in a hearty laugh        **
> ***********************************************************************
>
>
```

Eddie Horton
Telecommunications Research Projects
Division of Business / Division of Education
Northwestern State University

(318) 357-6579 Office   (318) 356-2056 Pager
(318) 357-5990 Fax   (318) 994-2919 Data/AltFax

Finger NSHORTON for office hours.

Web Page : http://www.nsula.edu/~nshorton

431. Re: [APRSSIG:1763] Re: HSP bug and next APRS

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 12 Jun 1996 18:49:30 -0700

To: aprssig@tapr.org
Message-ID: <2.2.32.19960613014930.0069cd60@mail.cts.com>
Rendered body type: text/plain

At 06:06 PM 6/9/96 -0500, you wrote:

>OK, but what is the conversion algorithm? for the single point ORIGIN.
>   I know we discussed all this, but did we get it down to a
>single equation...?
>
>de wb4apr@amsat.org
>

OK Bob, I spent 3 hours doing a net search today and here is the information. You can walk over to the Academy library and get the DMA TR (technical report) 8350.2 and 8358.2. Its a 40 mile drive to a technical library for me.

ABRIDGED MOLODENSKY FORMULAE
CONVERSION FROM AGD66 OR AGD84 TO WGS84

Reference: "Department of Defense World Geodetic System 1984
---------- Its definition and relationship with local geodetic systems"
            DMA Technical Report 8350.2, 30 September 1987

INTRODUCTION

Limited tests have shown that this method of conversion, when used with the DMA supplied parameters, may give a latitude/longitude result with an accuracy of the order of 5 to 10 metres, and a transformed height with an accuracy of about 10 to 20 metres. The formulae transform the ellipsoidal height - if the ANS N value is neglected, an additional error of the order of 20 metres may be introduced.

More thorough testing is required to verify these accuracy estimates.

DEFINITIONS:

DLAT	correction to AGD latitude to give WGS84 latitude (secs)
DLON	correction to AGD longitude to give WGS84 longitude (secs)
DHT	correction to ANS ellipsoidal height to give WGS84 ellipsoidal height (m)
DX	origin shift along the X axis (m)
DY	origin shift along the Y axis (m)
DZ	origin shift along the Z axis (m)
A	AGD ellipsoid (ANS) semi-major axis (m)
F	AGD ellipsoid (ANS) flattening
DA	Change in ellipsoid semi-major axis (ANS to WGS84) (m)
DF	Change in ellipsoid flattening (ANS to WGS84)

The Australian National Spheroid (ANS) is the best fitting ellipsoid adopted for use with the Australian Geodetic Datum (AGD)

N Value	Is the separation, along the plumb line, between the ellipsoid and the geoid. For the ANS, as used with the AGD, this N value reaches a maximum value of about 20 metres.
E2	AGD ellipsoid (ANS) first eccentricity
RN	Radius of curvature in the prime vertical (m)
RM	Radius of curvature in the meridian (m)
LAT	AGD latitude (south negative)
LON	AGD longitude (east positive)

Symbols

*	multiply
**	raise to the power of (e.g. 3**2 = 3 squared = 9)
/	divide

PARAMETERS (AGD to WGS84):

	AGD66	AGD84
	^^^^^	^^^^^
A	6378160 m	6378160 m
1/F	298.25	298.25

```
DX                  -133                   -134
DY                   -48                    -48
DZ                   148                    149

DA                   -23                    -23
DF                  -0.000000081204        -0.000000081204


FORMULAE:
---------

E2     = 2*F - F*F

RN     = A / (1 -E2 * SIN(LAT)**2)**0.5

RM     = A(1 -E2) / (1 - E2*(SIN(LAT))**2)**1.5

DLAT   = (-DX * SIN(LAT) * COS(LON) - DY * SIN(LAT) * SIN(LON)
          + DZ * COS(LAT) + (A*DF + F*DA) * SIN(2*LAT)) / (RM * SIN(1 SECOND))

DLON   = (-DX * SIN(LON) + DY * COS(LON)) / (RN * COS(LAT) * SIN(1 SECOND))

DHT    = DX * COS(LAT) * COS(LON) + DY * COS(LAT) * SIN(LON)
         + DZ * SIN(LAT) + (A * DF + F * DA) * (SIN(LAT))**2 - DA

LATITUDE (WGS84)  =  LATITUDE(AGD) + DLAT

LONGITUDE (WGS84) = LONGITUDE(AGD) + DLON

ELLIPSOIDAL HEIGHT(ANS) = MSL HT + N VALUE(ANS)

ELLIPSOIDAL HT (WGS84) = ELLIPSOIDAL HEIGHT (ANS) + DHT
```

Substitute the NAD parameters for the AGD parameters.
USE THE MATH COPROCESSOR AND DOUBLE PRECISION!

>From madtran datum.dat: "DoD World Geodetic System 1984, DMA TR 8350.2"
"Second Edition, 1 SEP 91, Updated 30 AUG 93"

Datum,index,delta x,delta y,delta z,remarks,(don't know what these are)

```
"North American 1927",5,-5,135,172,"Alaska (Excluding Aleutian Ids)",5,9,5,47
"North American 1927",5,-2,152,149,"Alaska (Aleutian Ids East of
180øW)",6,8,10,6
"North American 1927",5,2,204,105,"Alaska (Aleutian Ids West of
180øW)",10,10,10,5
"North American 1927",5,-4,154,178,"Bahamas (Except San Salvador Id)",5,3,5,11
"North American 1927",5,1,140,165,"Bahamas (San Salvador Island)",25,25,25,1
"North American 1927",5,-7,162,188,"Canada (Alberta, British Columbia)",8,8,6,25
"North American 1927",5,-9,157,184,"Canada (Manitoba, Ontario)",9,5,5,25
"North American 1927",5,-22,160,190,"Canada (New Brunswick,",6,6,3,37
"North American 1927",5,-22,160,190,"  Newfoundland, Nova Scotia,
Quebec)",6,6,3,37
"North American 1927",5,4,159,188,"Canada (Northwest Territories,",5,5,3,17
"North American 1927",5,4,159,188,"  Saskatchewan)",5,5,3,17
"North American 1927",5,-7,139,181,"Canada (Yukon)",5,8,3,8
"North American 1927",5,0,125,201,"Canal Zone",20,20,20,3
"North American 1927",5,-9,152,178,"Cuba",25,25,25,1
"North American 1927",5,11,114,195,"Greenland (Hayes Peninsula)",25,25,25,2
"North American 1927",5,-3,142,183,"MEAN FOR Antigua, Barbados,",3,9,12,15
"North American 1927",5,-3,142,183,"  Barbuda, Caicos Islands, Cuba,",3,9,12,15
"North American 1927",5,-3,142,183,"  Dominican Republic, Grand
Cayman,",3,9,12,15
"North American 1927",5,-3,142,183,"  Jamaica, Turks Islands",3,9,12,15
"North American 1927",5,0,125,194,"MEAN FOR Belize, Costa Rica,",8,3,5,19
"North American 1927",5,0,125,194,"  El Salvador, Guatemala, Honduras,",8,3,5,19
"North American 1927",5,0,125,194,"  Nicaragua",8,3,5,19
"North American 1927",5,-10,158,187,"MEAN FOR Canada",15,11,6,112
"North American 1927",5,-8,160,176,"MEAN FOR CONUS",5,5,6,405
"North American 1927",5,-9,161,179,"MEAN FOR CONUS (East of
Mississippi",5,5,8,129
"North American 1927",5,-9,161,179,"  River Including Louisiana,",5,5,8,129
"North American 1927",5,-9,161,179,"  Missouri, Minnesota)",5,5,8,129
"North American 1927",5,-8,159,175,"MEAN FOR CONUS (West of
Mississippi",5,3,3,276
"North American 1927",5,-8,159,175,"  River Excluding Louisiana,",5,3,3,276
"North American 1927",5,-8,159,175,"  Minnisota, Missouri)",5,3,3,276
```

"North American 1927",5,-12,130,190,"Mexico",8,6,6,22

Ellipsoid data

ELLIPSOID, INDEX, A, 1/F

Clarke 1866",5,6378206.4,294.9786982
WGS 84",21,6378137,298.257223563

Delta A= A(WGS84)-A(Clarke 1866)=-69.4
Delta F= F(WGS84)-F(Clarke 1866)= -0.37264639

There you go Bob. I can't spend anymore time with this so good luck.

For anyone interested, the following source should help.

ANNOUNCEMENT
============

The following announcement is excerpt from a DMA catalog,
dated October, 1992:

WORLD GEODETIC SYSTEM 1984 (WGS 84)

A revised edition of the DMA Technical Report 8350.2 WGS 84 is now available from DMA. DoD users should refer to the General Information, Ordering Procedures, and Crisis Support Section of this Bulletin for instructions on how to receive this report.

The DoD World Geodetic System 1984 (WGS 84) - Its Definitions and Relationships with Local Geodetic Systems (DMA Technical Report 8350.2), Edition 2, dated 1 September 1991, defines the WGS 84 and is now available. It provides the most accurate geodetic and gravitational data and local datum transformation constants and formulas for transforming different datums into WGS 84. Included with the report is the DMA MApping Datum TRANsformation (MADTRAN) software program for datum transformation and coordinate conversions. Provided on a 5 1/4 inch floppy disc (double density), the MADTRAN program is IBM PC compatible. It allows input from geodetic, Universal Transverse Mercator (UTM), or the Military Grid Reference System (MGRS) coordinates. Over 100 datums are available for transformation to or from WGS 84. Output is automatically presented as geodetic, UTM, and MGRS coordinates. The report is normally used by systems developers and by persons involved in large quantities of datum transformations and coordinate conversions. The public sale price is $30.00 (available from U.S. Geological Survey).

The DMA Stock Number is: DMATR83502WGS84.

HOW TO ORDER
============

This report is available to the public, through the U.S. Geological Survey. (U.S. government procurements should be addressed to the Defense Mapping Agency directly.) Orders must be written and prepaid. To order, write to:

U.S. Geological Survey
Box 25286
Denver Federal Center
Denver, CO 80225

and ask for World Geodetic System 1984,
stock number DMATR83502WGS84
price $30
(no charge for shipping in the U.S.;
outside the U.S. add 25% for first class postage)

For further information, call the U.S. Geological Survey at (303) 236-7477 and ask for customer service.

Barbara KK6IB
E-Mail: fehner@cts.com

432. Position Changing

From: jack swift <jswift@up.net>
Date: Wed, 12 Jun 1996 21:46:23 -0500
To: <aprssig@tapr.org>
Message-ID: <9606130145.AA24729@btc1>
Rendered body type: text/plain

```
I ran into a unique situation and couldn't find the 'easy solution'
in the readme files... maybe someone can point me to the correct file or
tell me that it can't be done....

        i was plotting the position of a helo using manual input of the
audio report data. i attempted to update the position and could not figure
out how to change the position data via the numeric keypad. it seems that
the only way is to carefully maneuver the cursor into the correct position
and 'move' the object to the cursor. am i missing something?
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware            402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

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433. Re: [APRSSIG:1763] Re: HSP bug and next APRS

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 12 Jun 1996 19:10:50 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960613021050.0069c544@mail.cts.com>
Rendered body type: text/plain

Bob, just a short followup to my previous message. At first glance, the Molodensky transform equations look like they can be easily handled by a 3 dimensional rotation matrix in spherical coordinates followed by a translation matrix. If so, that would be the way to go for numerical calculation.

73's

Barbara KK6IB
E-Mail: fehner@cts.com

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434. Re: [APRSSIG:1875] Re: TAPR GPS-20 help requested

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Wed, 12 Jun 1996 20:06:58 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960612200227.11779B-100000@cks>
Rendered body type: text/plain

Ron, I just got my GPS-20 this afternoon and was ready to give up with data out...but alas, it works! I'm using the NMEA output from pin 8 and feeding the KD6PBH GPS display from J Goldberg. It took about two hours for me to finally get useable data out because I didn't have an adequate antenna on the unit to get enough satellites to rebuild the almanac. I finally put a female RCA connector on the coax end, adapted that to a BNC female and hooked up my Garmin mag-mount antenna. I set the unit out in the yard and it took about 25 minutes to update the almanac. Now it will work pretty well with just a short piece of wire in the antenna jack...however not nearly as well as with the Garmin mag-mount antenna. I'll wait for your reply to the last persons questions before I add more to this follow-up.

Frank McJunkins K7RSD fmcjunki@cks.ssd.k12.wa.us FAX: (206) 545-7916

---

435. Second Run of Blackjack Antennas and SPM switches!

From: ku0g@sprynet.com
Date: Wed, 12 Jun 1996 20:23:39 -0700
To: aprssig@tapr.org
Message-ID: <199606130323.UAA13323@m1.sprynet.com>
Rendered body type: text/plain

I am now taking reservations for the second run of Blackjack Antennas! The first 25 are GONE! (If you sent me EMail today or yesterday, YES, you ARE getting one of the first run, panic not!)

Lessons learned from the first run....
I'm not covering my shipping charges with the present $4.00 per antenna...
Holding antennas for reservations for more than ten days is not a good idea...
Shipping COD means that I have to wait for as much as three weeks before UPS

gets the money to me...

So, to that end I am making a few changes to my business policies, to wit:

If you reserve a unit I assume that you have already placed a payment in the mail when you EMail the confirmation to me. If a payment doesn't arrive within 8 days then the reservation will be dropped and a unit will be shipped when available (most cases the next day)...

The pricing on the antennas from this point forward will work like this: 1-4 units for $40.00 each, 5-9 for 37.00 each, 10+ for $35.00 each. Shipping/handling will begin at $5.00 with $1.00 for each additional antenna ordered.

NOW FOR A BIG ANNOUNCEMENT!!!!!!

After much experimenting and testing, I have developed a WEATHER-PROOF VERSION OF THE BLACKJACK! It's called "The Natural" and the price is $49.00 (up to 10 units) and $46.00 for quantities of 11 and up! These units are scheduled for delivery to me the week of June 20th. Send your order now and take a $4.00 ADVANCE RESERVATION DISCOUNT!

I am also ready to take orders for the SinglePortMode switch! The regular price for these units will be $19.00 but the price is $16.00 per unit (no quantity discount!) through the end of June!!! The SPM Switch comes with a three-foot serial cable and velcro attachments to allow remote mounting of the SPM switch in a location that will allow the driver to get a GPS fix without having to take his/her eyes off the road!!! No reservation necessary as these units are available now!!!

Best 73,
Jim Duncan, KU0G
Blackjack Antennas and GPS Accessories
13 N.W. Barry Rd., #141
Kansas City, MO 64155
EMail: ku0g@sprynet.com

436. Re: [APRSSIG:1895] Re: TORNADO WARNING IS POSSIBLE

From: Jeffrey Bledsoe <jbledsoe@flash.net>
Date: Wed, 12 Jun 1996 22:34:19 -0500
To: "TAPR APRS Special Interest Group" <aprssig@tapr.org>,
"TAPR APRS Special Interest Group" <aprssig@tapr.org>
Message-ID: <199606130334.WAA25620@defiant>
Rendered body type: text/plain

Hi fellows,

Has anyone tried to overlay realtime nexrad on (or under ?) aprs? I'm just considering getting into aprs, so I know the answer might be intuitively obvious to aprs users. I'm also trying to figure out if I can place my own homemade grid system below an aprs map.

Thanks,

Jeff, N5YMV

437. Re: [APRSSIG:1894] my GPS mobile shows up as a dot?

From: kc8ux@w8dc.ampr.org
Date: Thu, 13 Jun 96 00:24:04 EDT
To: aprssig@tapr.org
Message-ID: <122145@w8dc.ampr.org>
Rendered body type: text/plain

Check and see what your BText is. If it is Btext {/} you will get a dot after your tnc sends out a beacon. It should show up
on APRS screens as a truck until you get a beacon however.

438. Re: [APRSSIG:1882] Re: TORNADO WARNING IS POSSIBLE

From: n0eop@usa.pipeline.com (David Sloan)
Date: Thu, 13 Jun 1996 04:41:15 GMT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606130441.EAA01279@pipe13.h1.usa.pipeline.com>
Rendered body type: text/plain

On Jun 12, 1996 12:37:13, 'Greg Blair <siggraph@dgp.toronto.edu>' wrote:

>Is it not true, that those who want to, can monitor NWS transmissions
>and take appropriate cover as they deem necessary?
COMMENT: I know that the Pueblo Weather rely on the Skywarn before
generating most of these transmissions.
>
>Why do we want to generate QRM as 300 APRS stations receive the same
>NWS warning and commence beaconing identical NWS info?
COMMENT: I don't think that we have 300 APRS active stations here in
Colorado Springs area. But, I agree that we don't even need the few that we
have beaconing the same report (unless a station has a different coverage).

>
>Certainly those that truly need the NWS info will be receiving it
directly?
>(such as radio and TV stations)
COMMENT: The radio and TV stations take their lead from the NWS and as I
said before the NWS rely on the local Skywarn.
>
>Won't they also use a more reliable reception method than Amateur Radio?
>(such as modems dial up links, internet, or a dedicated NWS receiver)
COMMENT: I use my modems to download weather data so that I can provide a
noon severe weather update for skywarn. That is when I can get through to
the server and when the server isn't having problems. The same goes for the
internet. Their are times that I can't connect to a certain URL because
either the server is busy or is down. Thank goodness that these problems
don't happen to often. But, usually when they do is when I need information
the most.
>
>Do you really believe that a TV station, whose FCC license may mandate a
>crawl insertion with NWS bulletin info, will depend on Tom's home ham
radio
>setup being up, operational, and updated with the NWS bulletin? Not
likely!
>
COMMENT: see the above.
>Please remember this is AMATEUR radio. We are not a self appointed pseudo

>government organization. Our traffic can deal with details of an
experimantal
>
>nature. We are prohibited from carrying commercial traffic, whether we
charge
>for it or not. Enjoy ham radio for what it is, not for what it isn't!
>
COMMENT: FUN!!! and maybe a learning place where we can also help the
general public.

>Greg, VE3DIB
>
Hi Greg,
   I am not trying to start any war or anything. Just that I felt that I
had to put my two cents into this fray.
Dave, n0eop

---

439. WinAPRS Up & Running in Jax,FL

From: BordingK@aol.com
Date: Thu, 13 Jun 1996 01:16:51 -0400
To: aprssig@tapr.org
Message-ID: <960613011650_326689700@emout09.mail.aol.com>
Rendered body type: text/plain

QTH is up WinAPRS and Mobile Tracker to be operational this weekend here in
Jacksonville, FL. Sure is lonely!

'73s KF4COH Ken

---

440. Antenna suggestions ?

From: Ben-Shalom Assi <4x6em@techunix.technion.ac.il>
Date: Thu, 13 Jun 1996 09:25:54 +0300 (IDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960613092214.26128B-100000@techunix.technion.ac.il>
Rendered body type: text/plain

Hi All,
Just recieved my GPS-20 yesterday wired it and fired it up.
To all of you that didnt wire it yet a word of caution, the
12 pin connector is hard to wire, if you use too much solder
it will clog the hole.
Now to my question, I wired a 1/4 Lambda wire like the doc suggested,

and could not get a fix although the gps MNEA stated it had a couple
of satellites in view.
Any suggestions of a good homebrew antenna ?
bye, Assi 4Z7ABA

---

441. Re: [APRSSIG:1905] Re: Nexrad

From: William Nolle <wnolle@ix.netcom.com>
Date: Thu, 13 Jun 1996 01:29:56 -0700
To: aprssig@tapr.org
Message-ID: <31BFD184.5B5C@ix.netcom.com>
Rendered body type: text/plain

Jeffrey Bledsoe wrote:
>
> Hi fellows,
>
> Has anyone tried to overlay realtime nexrad on (or under ?) aprs? I'm
> just considering getting into aprs, so I know the answer might be
> intuitively obvious to aprs users. I'm also trying to figure out if I
> can place my own homemade grid system below an aprs map.
>
> Thanks,
>
> Jeff, N5YMV
>Well Jeff don't think Nexrad would be possible, but grid overlays are. I
just finished doing the county i live in. What i did was made a map and
did an overlay on the map of a gridwork that corresponds to a mapbook
available for our area. Each grid is exactly the size of a page in the
mapbook and are numbered the same as the grid in the book. The reason for
this is that when foxhunting we can tell those people that are not
running APRS (But are using the mapbook) at what page and sector of that
page to look for the fox. I have used this in the past and worked out
just great. By the way most foxhunters here use the mapbook.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

442. [Fwd: SPARK FD 6 of ?]

From: "Al Zelna, N3KAE" <ldajz@epix.net>
Date: Thu, 13 Jun 1996 05:12:08 -0700
To: aprssig@tapr.org
Message-ID: <31C00598.7D1@epix.net>
Rendered body type: text/plain

Al Zelna, N3KAE wrote:
>
> I am sending this message to myself to see if the changes I have made
> worked or not. If you are having trouble seeing the tabs in the columns
> below, set your mail preferences to "Show fixed width font" and not
> variable width.
>
> I am also toning down on the use of capital letters (Equip. / Needed will
> stay as such).
>
> At this time, I would like to know from the committee members who will
> DEFINITELY be on-site for set-up and/or tear-down. I would also like a
> volunteer from the committee to be in charge of this most important
> aspect of our effort.
>
> So far...
> N3KAE   SET-UP   TEAR-DOWN
> N3EHQ   SET-UP   TEAR-DOWN
>
> Other volunteers will be needed to be in charge of "scheduling" operators
> for the event and notification to the TV/papers (for bonus points).
> Anyone else???
>
> > ***There are NO changes in the equipment list***   Just reset the tabs...
>
> ***There are changes in the food section.***
>
> >VARIOUS EQUIPMENT PLEDGES:
> > 2   GP-5 TENTS/NO CHARGE   N3UJY(NAT. GUARD)   WEEKEND
> > 1   SCREEN TENT(FOOD TENT) N3PXP   WEEKEND
> >

```
> > 1       2KW GENERATOR           N3SJB                   WEEKEND
> > 1       5KW GENERATOR           RENTAL/SPARK FUNDS      WEEKEND
> >
> > 3       COMPUTERS 486/386/286   N3KAE,KA3YXM,N3TKI      WEEKEND
> > 1       COMPUTER 8088           N3OKB                   OFFERED
> > X       RS232 COMPUTER CABLES   N3KAE                   WEEKEND
> > X       CT 8.53 LOGGING S-WARE  N3KAE                   WEEKEND
> >
> > 1       TS440S/MIC              N3KAE                   WEEKEND
> > 1       TS440S/MIC              WC3Z                    WEEKEND
> > 1       FT-840/MIC              N3PXP                   WEEKEND
> > 1       TS830S/MIC              N3PXO                   WEEKEND
> > 1       2M ALL-MODE             WM3L                    WEEKEND
> > 1       2M FM RIG               N3KAE                   WEEKEND
> > 1       ASTRON RS35M P/S        N3KAE                   WEEKEND
> > 1       ASTRON RS35M P/S        N3PXP                   WEEKEND
> > 1       KEN. AT230 MAN. TUNER   N3KAE                   WEEKEND
> > 1       MFJ 949 MANUAL TUNER    N3PXP                   WEEKEND
> > 1       DRAKE ANTENNA MATCH     N3PXO                   WEEKEND
> >
> > 1       10M-80M WINDOM          N3KAE                   WEEKEND
> > 1       10-80 LADDERLINE DIPOLE SPARK'S                 WEEKEND
> > 1       40M BALUN FED DIPOLE    KA3IRP                  WEEKEND
> > 3       100 FT. COAX (W/ CONNS) SPARK'S                 WEEKEND
> > 3       50 FT. COAX  (W/ CONNS) SPARK'S                 WEEKEND
> > 1       MFJ 2M 5/8 WAVE VERT.   N3PXP                   WEEKEND
> > 1       MAST/BASE FOR VHF       N3OKB                   WEEKEND
> > 1       VHF ROTOR/BOX/CABLES    N3OKB                   WEEKEND
> >
> > 1       TNC/RS232/PWR CABLE     N3KAE                   WEEKEND
> > 1       PADDLES                 AA3EG                   WEEKEND
> > 1       KEYER/PADDLE            WM3L                    WEEKEND
> > 1       STRAIGHT KEY            N3KAE                   WEEKEND
> > 1       HEIL PROSET/FOOT SW.    N3KAE                   WEEKEND
> > 1       EARPHONE SET            N3PXO                   WEEKEND
> > 1       STRAIGHT KEY            N3PXO                   WEEKEND
> > 1       8' FOLDING TABLE        N3PXO                   WEEKEND
> > ??      CHAIRS                  N3PXO                   WEEKEND
> > 1       105 QT. COOLER          N3PXP                   WEEKEND
> > 1       50 QT.? COOLER          N3KAE                   WEEKEND
> > 1       ABC FIRE EXTINGUISHER   N3KAE                   WEEKEND
> >
> > DESPERATELY NEEDED ITEMS:
> > LONG TABLES (5 - 7 FT LONG)
> > CHAIRS FOR OPERATING
> > DESK LIGHTS
> > GAS CANS FOR THE GENERATOR (2 - 10 GALLON)
> > HEAVY DUTY EXTENSION CORDS (FOR THE GENERATOR(S))
> > POWER STRIPS FOR THE EQUIPMENT
> > COOLERS FOR FOOD
> >
> > FOOD COORDINATION:  Ideas to WC3Z and/or N3LZB
> > MENU... So far:
> > BBQ BAKED BEANS* COLD CUT PLATTER
> * RELISH TRAY
> > BURGERS / DOGS (IF WE GET A GRILL)((CLUB FUNDS))
> > STROMBOLI
> > FRIED CHICKEN
> > CHIPS / PRETZELS ((CLUB FUNDS))
> > SODA ((CLUB FUNDS))
> > ICE  ((CLUB FUNDS))
> >
> > Please look for a change in message number.  ie:  2 of ?  3 of ?
> > !!!! PLEASE DO NOT QUOTE THE ENTIRE MESSAGE WITH YOUR REPLIES !!!
```

---

443. Re: [APRSSIG:1905] Re: TORNADO WARNING IS POSSIBLE

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 13 Jun 96 07:21:21 -0400
To: <aprssig@tapr.org>
Message-ID: <199606131118.HAA23586@bridge.net>
Rendered body type: text/plain

```
>Has anyone tried to overlay realtime nexrad on (or under ?) aprs?  I'm
>just considering getting into aprs, so I know the answer might be
>intuitively obvious to aprs users.  I'm also trying to figure out if I
>can place my own homemade grid system below an aprs map.
>
There was a paper on the display of nextrad data in a stand alone program
at DCC last year. One of the nextrad products is a very compressed data
```

stream, a 2-3K file. The problem is getting access to it. aI is not
available over internet, you have to be at a NWS site and tap into the
serial data stream. If it were more generally available I'm sure it would
be added to the APRS programs.

Steve KO4HD

444. Re: [APRSSIG:1911] [Fwd: SPARK FD 6 of ?]

From: William Nolle <wnolle@ix.netcom.com>
Date: Thu, 13 Jun 1996 06:32:42 -0700
To: aprssig@tapr.org
Message-ID: <31C0187A.4D0E@ix.netcom.com>
Rendered body type: text/plain

```
Al Zelna, N3KAE wrote:
>
> Al Zelna, N3KAE wrote:
> >
> > I am sending this message to myself to see if the changes I have made
> > worked or not.  If you are having trouble seeing the tabs in the columns
> > below, set your mail preferences to "Show fixed width font" and not
> > variable width.
> >No your not, your sending it to everyone!!!!!!
```

445. Re: [APRSSIG:1903] Re: TAPR GPS-20 help requested

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Thu, 13 Jun 1996 09:25:25 -0400
To: aprssig@tapr.org
Message-ID: <199606131325.IAA20102@tapr.org>
Rendered body type: text/plain

```
At 10:19 PM 6/12/96 -0500, you wrote:
>Ron, I just got my GPS-20 this afternoon and was ready to give up with
>data out...but alas, it works!  I'm using the NMEA output from pin 8 and
>feeding the KD6PBH GPS display from J Goldberg.


      Now you have me confused Frank, On what pin are you getting NMEA
  out from your GPS-20?
```

446. WinAPRS Icons Changing

From: Truman Boerkoel <truxenia@erinet.com>
Date: Thu, 13 Jun 1996 09:36:51 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960613133651.00666918@erinet.com>
Rendered body type: text/plain

One of our locals run his GPS as -15 (from DosAPRS) and shows up
on the WinAPRS as a Van. The Icon will change to a House and at
times will switch back to a Van only to change back to a House.
(Strange to see a House running through the streets of Xenia, Ohio).

I switched back to the DosAPRS and the normal Van Icon shows up.
Has anyone else seen this or is it a Bug in the 1.0 release?

de Tru K8JUG
truxenia@erinet.com

447. SAREX and Field Day!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 13 Jun 1996 09:49:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960613094518.23832E@arctic>
Rendered body type: text/plain

```
On Wed, 12 Jun 1996, Al Zelna, N3KAE wrote:

> I hope everyone is gearing up for FD.  Members of the Scranton Pocono
> Amateur Radio Klub will once again participate in FD.  This year we will
> be using APRS to compliment our VHF/Packet station.
> I am curious if there is anyone reading this message who can confirm
> activity in the above mentioned areas ON 145.790 MHz.

APRSdos REPLY COMMENT:  IF WE ARE LUCKY ******  THe Space SHuttle STS-78
will be digipeating APRS packets on the SAREX packet frequency.  THat
sould mean EVERY station EVERYWHERE will see somthing, hi hi....  But
then again, the crew might decide to honor field day with VOICE
operations and then the SAREX digipeater would NOT be available.  We can
```

```
HOPE tho...   If you are going to use APRS or APRtrak for SAREX, PRACTICE
PRACTICE and PRACTICE so you understand the SPACE mode...

de wb4apr@amsat.org
```

---

448. Re: [APRSSIG:1901] Position Changing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 13 Jun 1996 09:54:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960613095023.23832F-100000@arctic>
Rendered body type: text/plain

```
On Wed, 12 Jun 1996, jack swift wrote:

>         I ran into a unique situation and couldn't find the 'easy solution'
>         i was plotting the position of a helo using manual input of the
> audio report data. i attempted to update the position and could not figure
> out how to change the position data via the numeric keypad. it seems that
> the only way is to carefully maneuver the cursor into the correct position
> and 'move' the object to the cursor. am i missing something?

APRSdos REPLY COMMENT:  Good point.  THe INPUT-ADD command allows you to
keyboard in a new LAT/LONG when you add a new object to the screen, but
to HOOK and INSert (move) an existing object, you can only move the cursor
to the location and hit INSert key.

Here is a convoluted way:
  1)  Use INPUT-ADD to re-enter the HELO at the new location
  2)  Hook and DELETE the old position..

de wb4apr@amsat.org
```

---

449. Grid your own maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 13 Jun 1996 10:03:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960613100151.23832L-100000@arctic>
Rendered body type: text/plain

```
On Wed, 12 Jun 1996, Jeffrey Bledsoe wrote:

> Has anyone tried to overlay realtime nexrad on (or under ?) aprs?
***  No, but it would be a fun project...

>  I'm also trying to figure out if I
> can place my own homemade grid system below an aprs map.

APRSdos REPLY COMMENT:  Yes, just use the MAPFIXxx.exe program to add
your lines to any APRS map.

de wb4apr@amsat.org
```

---

450. Re: [APRSSIG:1909] Antenna suggestions ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 13 Jun 1996 10:09:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960613100546.23832M-100000@arctic>
Rendered body type: text/plain

```
On Thu, 13 Jun 1996, Ben-Shalom Assi wrote:

> Now to my question, I wired a 1/4 Lambda wire like the doc suggested,
> and could not get a fix although the gps MNEA stated it had a couple
> of satellites in view.

APRSdos REPLY COMMENT:  Actually my 1/4 wavelength vertical wire stuck in
the antenna jack, assumes a decent groundplane.  For the bare minimum, I
soldered two 1/4 wave radials on the edge of the board neares the connector.

I DO NOT RECOMMEND THIS.  But it did work.  THe better way to use just a
1/4 wave vertical, is to mount the GPS unit on the back of a piece of
ground plane material (copper PC board) and use a piece of 1/8 inch brass
tubing to serve to connect the ground plane to the Antenna connector
SHIELD.  THen insert your 1/4 wave whip through the ground plane into the
tiny antenna jack...

de wb4apr@amsat.org
```

451. Earthquakes ...

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Wed, 12 Jun 1996 22:14:32 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960613021432.0067b2ac@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 10:57 AM 6/12/96 -0500, you wrote:
>Hi Mark and the group.  Indeed your stories are real and applicable
>regarding tornados and other disasters.  In California of course,
>the great fear is earthquakes.  There appears to be many preliminary
>warning methods some of which might be placed on APRS effectively.

I refrained myself to answer this subject for a while, but here I have to
say something. There is nothing personal against anybody  in this answer,
just my point of view, open to discussion.

There is NO (I repeat NO, NONE, NADA, AUCUN) warning method that works with
any degree of confidence to predict an earthquake (I should say: to answer
the questions: when? and where? precisely enough. I can predict that
earthquakes will occur along the US pacific cost in the next 10 millions years).

This doesn't mean we will not find a way in the future, nor that some
precursors do not exist in some cases. Just that there is actually nothing
reliable enough to be widely used.
This is a highly sensible topic, for people living in concerned areas, so,
please, do not start thinking of using some pseudo scientific warnings
spread over radio networks if there is no reasonable scientific basis.

When we send weather data over APRS , we do not send any warning, but raw
data. This is up to the people looking at them to interpret the data. I
think this has to be the same for lightning, radioactivity level, or
anything else: APRS transports the data, but not the warning. Besides, that
should eliminate any concern about FCC rules.

>Last months Scientific American has a rather detailed construction
>article on an electromagnic detector for such phenonmenon.  The Mu
>metal rods ARE expensive ($70 each!) but do work.  Winding 50000
>turns of number 38 wire remains a task tho.  Since earthquakes have
>a finite travel time it looks like some real contribution can be made
>by APRS.  What do you think?

Read carefully the paper, they warn the reader about the credibility amateur
scientist networks need if they want to be recognized. Low frequency
electromagnetic waves can be generated by other phenomenon than earthquakes
(thunderstorms for example). The real contribution is for a lot of people to
build the device, record continuously data for long periods,and send them
for analysis, not to send unverified warnings each time they see something
strange (this would discredit the work of the whole network).
That doesn't restrict us of sending the data over the air, and playing with
the idea of localizing the origin, mapping the path of the phenomenon
creating this activity (and if this a thunderstorm, great). This is where
aprs, and the capability of real time positioning analysis, is unique.

By the way while you look at the pile of Scientific American at the library,
there is another article about a cheap, but good quality, homebrew
seismometer. It uses 3 ADXL05, which are accelerometers in a chip from
analog device (application note available on their web site), cost is less
than 30$ a piece.
You are not going to do any prediction with that however: a seismic wave is
generated as the result of an earthquake.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

---

452. Re: WinAPRS Icons Changing

From: Mark Sproul <sproul@ap.org>
Date: Thu, 13 Jun 1996 10:14:47 -0400
To: aprssig@tapr.org
Cc: ksproul@hardees.rutgers.edu
Message-ID: <v03006f03ade5d2991a20@[165.1.27.20]>
Rendered body type: text/plain

```
>One of our locals run his GPS as -15 (from DosAPRS) and shows up
>on the WinAPRS as a Van. The Icon will change to a House and at
>times will switch back to a Van only to change back to a House.
```

```
>(Strange to see a House running through the streets of Xenia, Ohio).
>
>I switched back to the DosAPRS and the normal Van Icon shows up.
>Has anyone else seen this or is it a Bug in the 1.0 release?


We have been working on this problem (and the problem of real houses
moving).  We have a fair amount of it fixed and it will be out in the next
release.


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

453. Florida APRS Web Page and Sig

From: n2czf@gate.net
Date: Thu, 13 Jun 1996 11:13:33 -0400
To: aprssig@tapr.org
Message-ID: <199606131513.LAA45798@osceola.gate.net>
Rendered body type: text/plain

```
The is to let anyone who is interested know that the Florida APRS Web page is
well on it's way now. MY ADDRESS WILL BE CHANGING TO  n2czf@magg.net

The magg net account has been started and my account under n2czf@gate.net will
close on July 8th with no mail forwarding provided. Cybergate could not even let
me pay for a shell account for a few months so I can forward my mail!

I will start the Web page this weekend and let everyone know what the address is
once it is up. I have also been given the OK to start a FLAPRS Sig from one
person and have a maybe from another. I will wait a while on this so we can
decide which way will be best before we go ahead and do it. Many have said that
they still want to hear about FL activity (while I only got 1 nasty gram) on the
sig but I agree that any long conversations just about FL should not be here on
the APRSig. I know that I will continue as normal on here but anything drawn out
just FL will probably go on that sig so FL users see it and do not miss on the
replies. If anyone else want's to be included they can either sign up on the sig
or let me know and I will forward specific messages privately.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've
forgotten this before.                  Steven Wright
```

454. Re: [APRSSIG:1702] trip to San Antonio

From: George Salinas <saltair@hargray.com>
Date: Thu, 13 Jun 1996 12:18:58 -0400
To: aprssig@tapr.org
Message-ID: <31C03F72.7866@hargray.com>
Rendered body type: text/plain

```
Ron Reeves wrote:
>
>         I will be taking a trip to San Antonio from June 16th - June 22nd.  Is
> there any APRS activity in that area?  If so I would appreciate any
> information the locals might feel inclined to share with me about freq's,
> uproto, etc.  Please send it to me direct so as to not waste bandwidth on
> the sig.
>         I will have a portable setup complete with my new Garmin 45 (which the sig
> helped me to choose, thanks again guys.)
>
> Thanks Ron N7QXO
>
> reeves@christenson.com
> If you have the wrong answer, change the question.


======================================================================
I'll be heading in the same direction in late June. Let us know what
you hear and see.
```

73 George KD4FJ.

---

455. Re: [APRSSIG:1751] APRS.REF attached

From: George Salinas <saltair@hargray.com>
Date: Thu, 13 Jun 1996 12:23:09 -0400
To: aprssig@tapr.org
Message-ID: <31C0406D.1FE5@hargray.com>
Rendered body type: text/plain

Les Blalock wrote:
>
> Hope this is appropriate. I've attached the APRS.REF quick reference file
> for APRS. It's only two and a half pages printed.
>
> I've had so many requests for it already I thought I might get it out more
> efficiently this way. I'll still send it individually to anyone who needs
> it in the form of a message.
>
> 73 de Les/N5KOA
>
>   ---
>
>   Attachment 2   Name: APRS.REF
>   Type: text/plain

==

Hey Les,

Thanks for the APRS ref. I printed it out and placed it on my operating table. No fumbling around now.

73, George KD4FJ.

---

456. Re: [APRSSIG:1882] Re: TORNADO WARNING IS POSSIBLE

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Thu, 13 Jun 1996 12:50:44 -0400
To: aprssig@tapr.org
Message-ID: <31C046E4.644E5942@codger.physics.duq.edu>
Rendered body type: text/plain

Greg Blair wrote:

> Is it not true,

[...]

> Enjoy ham radio for what it is, not for what it isn't!

Comments well noted. However, keep in mind that we are a BACKUP to the "regular" emergency services, which have a tendency of falling apart all too often.

Our strength is in our numbers. If, for example, the HF rig at the Pittsburgh National Red Cross building dies (which happened), they don't have a spare. The call goes out, and they have 3 or 4 replacement rigs there within the hour.

We run SKYWARN to supplement the NWS spotters. If their phones go dead, then WE are the spotters. Period.

Keep in mind that one of the main reasons for the Amateur Radio Service to exist at all is to provide a backup means of communication in the event of emergency.

If you don't want to use a particular feature, then don't use it. That's well within your rights as a license holder.

However, I'm all for adding features, even if they can't be legally used under normal conditions. If I'm running in an emergency situation, I do what I need to get the job done, then answer questions later. That's why I mod all of my radios for out of band coverage.

To the programmers: Please put in all the neat, potentially useful features that you want. Just be sure to give us a way to turn them "off".

457. Re: [APRSSIG:1912] Re: TORNADO WARNING IS POSSIBLE

From: ku0g@sprynet.com
Date: Thu, 13 Jun 1996 10:04:27 -0700
To: aprssig@tapr.org
Message-ID: <199606131704.KAA06282@m1.sprynet.com>
Rendered body type: text/plain

```
The data format Steve is talking about is a Radar Coded Message.  There is a
program that takes these messages and will convert them for display, BUT the
output is only in 5 levels.

We have access to it here in Kansas City from both the Kansas City and Topeka
NEXRAD sites which is distributed via packet bbs by the NWS itself.  So, it's
possible to get it IF you can convince some ham at your local NWS Office to make
it available to you!!!

I would be hesitant to put this type of object out on APRS due to the amount of
data generated, BUT if your NWS office leaves all of the information intact in
the RCM then you WILL get wind speeds, inflow/outflow, rotational vortices and
vertical profiler data which could be a HOOT to have available!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

458. Re: [APRSSIG:1896] Wow...

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Thu, 13 Jun 1996 13:12:01 -0400
To: aprssig@tapr.org
Message-ID: <31C04BE1.4474D5F7@codger.physics.duq.edu>
Rendered body type: text/plain

```
> BTW  the lightning sensor will not be set up to trigger after every strike,
> cause this would completely saturate the vhf net.  I will set it up to trip
> at a certain level. (What level Im not sure yet..that will be determined)

How about making it user-settable?

How about TWO alert levels?  Roughly, "There is a storm coming" and "This storm is
getting NASTY".

Just a thought...
```

---

459. Emergency Alert System

From: "PAUL MANNING" <MANNING_P@wfum.flint.umich.edu>
Date: Thu, 13 Jun 1996 17:04:23 EDT
To: aprssig@tapr.org
Message-ID: <11155DD6028B@WFUM.flint.umich.edu>
Rendered body type: text/plain

```
Hello to the Bob and the group,

I was wandering Bob,what was in the plans for APRS with the new

EAS (Emergency Alert System)around the corner.

Are the two systems compatible?? Would an EAS received message

allow for a watch or warning box to be drawn no the APRS map??



Broadcasters,Civil Defence,Emergency Management,etc..are currently

in the planning process for this new system.


I have not heard much out of the Amateur Community as yet on this

topic.


Paul N8VXD
```

---

460. Re: [APRSSIG:1829] Re: Precision Mapping 2.0

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 13 Jun 1996 17:16:03 -0500 (CDT)

To: aprssig@tapr.org
Message-ID: <199606132216.RAA10373@solar.cs.tamu.edu>
Rendered body type: text/plain

In order to get the Developer's stuff to unzip you need to give them a call and complete a straightforward agreement regarding development. Doesn't make them the owner of anything you develop, especially if developed for non-profit "stuff" but it's something to keep their lawyers' retainers happy, I think.

The folks there (I seem to routinely talk to someone named Steve) are friendly and willing to help, or admit ignorance if they don't know the answer.

Ken, why don't you drop me mail directly (gerry@cs.tamu.edu, n5jxs@tamu.edu, or gerry@rsgis3.tamu.edu) and we can discuss more.

73, gerry

---

461. Davis Instruments Programer's Reference Disk

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Thu, 13 Jun 1996 15:19:42 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960613211942.0067cda4@mailhost.primenet.com>
Rendered body type: text/plain

I have been able to convince Davis Instruments to release their Programmer's Reference Disk at NO CHARGE. The information is available either from their LLBBS (510- 293-3546) or their internet address (http://www.davisnet.com

Davis is now committed to Amateur radio, and is proving it by this FREE OFFER. There is only VERY LIMITED personal support, since they are offering it FREE, so do not expect to get unlimited phone support from them.

I hope that this is helpful to anyone who wants to "tinker" with interfaces. I have been able to put together a complete comparison of the Davis Weather system and the Peet Brothers Ultimeter system. I will try and get it out to the SIG over the weekend, so that an informed decision can be reached, if you are considering the purchase of a weather system.

Hope to see all of you "On the Map".

73, Alan, WC7R
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

462. Re: [APRSSIG:1920] Earthquakes ...

From: KD4EMI@aol.com
Date: Thu, 13 Jun 1996 18:26:18 -0400
To: aprssig@tapr.org
Message-ID: <960613182618_413682783@emout07.mail.aol.com>
Rendered body type: text/plain

>There is NO (I repeat NO, NONE, NADA, AUCUN) warning method that works with
>any degree of confidence to predict an earthquake (I should say: to answer
>the questions: when? and where? precisely enough. I can predict that
>earthquakes will occur along the US pacific cost in the next 10 millions
>years).
---Snip-------------

Let me rephrase that...

The monitor will be able to provide hobby types with that data and it might be of interest thats it..

There is no notion -none---zero-nada----to PREDICT repeat PREDICT these events...

It's just a way to provide data out to the radio group if someone was interested in it.. Just like we can watch the news and get the rainfall, temp or log into the internet and get GEOS maps...

It is not intented to act as anything more than an interesting way for people to play around...

The lighning detector does have some warning applications but again, its all just for the hobby...

MIchael
KD4EMI@AOL.COM

463. Re: [APRSSIG:1900] Re: HSP bug and next APRS

From: Barbara Fehner <fehner@cts.com>
Date: Thu, 13 Jun 1996 15:39:11 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960613223911.006d5dbc@mail.cts.com>
Rendered body type: text/plain

```
There are a couple of corrections to my original post.

1.

I did find an omission in my original post. The correction follows:

_______________________________________________________________________________
>Ellipsoid data
>
>ELLIPSOID, INDEX, A, 1/F
>
>Clarke 1866",5,6378206.4,294.9786982
>WGS 84",21,6378137,298.257223563
>______________________________________________________________________________
>
>Delta A= A(WGS84)-A(Clarke 1866)=-69.4
>Delta F= F(WGS84)-F(Clarke 1866)= -0.37264639
>______________________________________________________________________________

Should be

Delta F= F(WGS84)-F(Clarke 1866)= -0.37264639*10^4


2. I sent a HTML page as part of the message instead of an attachment. The
page is attached this time for viewing in a browser.

Barbara KK6IB
E-Mail: fehner@cts.com

_______________________________________________________________________________
At 08:56 PM 6/12/96 -0500, I wrote:
_______________________________________________________________________________
>                       ABRIDGED MOLODENSKY FORMULAE
>                CONVERSION FROM AGD66 OR AGD84 TO WGS84
>
>Reference: "Department of Defense World Geodetic System 1984
>----------  Its definition and relationship with local geodetic systems"
>            DMA Technical Report 8350.2, 30 September 1987
>
SNIP
```

[Attachment: datum list.html; text/plain; 9,576 bytes]

464. Re: [APRSSIG:1910] Re: Nexrad

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 13 Jun 1996 18:13:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606132313.SAA11162@solar.cs.tamu.edu>
Rendered body type: text/plain

```
William Nolle sez:
>
> Jeffrey Bledsoe wrote:
> >
> > Hi fellows,
> >
> > Has anyone tried to overlay realtime nexrad on (or under ?) aprs?  I'm
> > just considering getting into aprs, so I know the answer might be
> > intuitively obvious to aprs users.  I'm also trying to figure out if I
> > can place my own homemade grid system below an aprs map.
> >
> > Thanks,
> >
> > Jeff, N5YMV
> Well Jeff don't think Nexrad would be possible, but grid overlays are. I

If memory serves, there was a presentation in last years ARRL Digital
Communications Conference concerning a program that receives on-air packet
data with NEXRAD encoded in an ascii format for display...

gerry
```

465. Re: [APRSSIG:1921] Re: WinAPRS Icons Changing

From: dearborn@ccnet.com (Terry Dearborn)
Date: Thu, 13 Jun 1996 16:15:41 -0700
To: aprssig@tapr.org
Message-ID: <v01520d00ade64d89a8fb@[192.215.96.119]>
Rendered body type: text/plain

```
Truman Boerkoel wrote on 6-13

>>One of our locals run his GPS as -15 (from DosAPRS) and shows up
>>on the WinAPRS as a Van. The Icon will change to a House and at
>>times will switch back to a Van only to change back to a House.
>>(Strange to see a House running through the streets of Xenia, Ohio).
>>
>>I switched back to the DosAPRS and the normal Van Icon shows up.
>>Has anyone else seen this or is it a Bug in the 1.0 release?

MARK RESPONDED 6-13-96

>We have been working on this problem (and the problem of real houses
>moving).  We have a fair amount of it fixed and it will be out in the next
>release.
>

Mark: Add to your BUG LIST for MacAPRS 2.4.1:  Some stations appear as an H
inside a grey circle. Sam, KO6JR, who runs MacAPRS appears this way on both
his mobile GPS signals as well as his home station.
WB6HIO (not running MacAPRS), just a few miles from Sam, also appears as an
H. I have also seen Hs in Solano and Santa Cruz Co.  Supposedly Sam wrote
to you about this roughly a month ago.  No one has reported ME with an H
symbol. This problem DID NOT start with the initial use of 2.4.1 suggesting
that it may be caused by some change in the digipeter's function.

Regards from Terry, W6HPC
Central Contra Costa County
Focus of N. Calif. APRS activity (don't tell San Francisco)



Regards from Terry
Lafayette CA
```

466. Re: Emergency Alert System

From: Will Flor <willf@rrgroup.com>
Date: Thu, 13 Jun 1996 20:48:50 -0500
To: aprssig@tapr.org
Cc: willf@rrgroup.com
Message-ID: <31C0C502.6D22@rrgroup.com>
Rendered body type: text/plain

```
You wrote:

----------
From:   PAUL MANNING[SMTP:MANNING_P@wfum.flint.umich.edu]
Sent:   Thursday, June 13, 1996 4:25 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:1928] Emergency Alert System

> Hello to the Bob and the group,

> I was wandering Bob,what was in the plans for APRS with the new

> EAS (Emergency Alert System)around the corner.

I've never heard of EAS - is it the same as SAME - the Specific Area
Message Encoder that NOAA is beginning to install at its weather radio
stations?

There's been a discussion of SAME on the ham-wx mailing list.

73 de KB9JTT
```

467. Re: [APRSSIG:1917] Re: Position Changing

From: jack swift <jswift@up.net>
Date: Fri, 14 Jun 1996 07:17:06 -0500
To: aprssig@tapr.org
Message-ID: <9606141115.AA06704@btc1>
Rendered body type: text/plain

```
i will be using the convoluted way, but not just because of the
speed and accuracy of getting the data into the program, but also because i
can then see the 'track'.
        it's interesting to note that you can have several (well, i tried
only two) objects with the same 'callsign' without crashing the program.
nice bulletproofing, bob!




At 09:09 AM EST 6/13/96 -0500, you wrote:
>On Wed, 12 Jun 1996, jack swift wrote:
>
>>        I ran into a unique situation and couldn't find the 'easy solution'
>>        i was plotting the position of a helo using manual input of the
>> audio report data. i attempted to update the position and could not figure
>> out how to change the position data via the numeric keypad. it seems that
>> the only way is to carefully maneuver the cursor into the correct position
>> and 'move' the object to the cursor. am i missing something?
>
>APRSdos REPLY COMMENT:  Good point.  THe INPUT-ADD command allows you to
>keyboard in a new LAT/LONG when you add a new object to the screen, but
>to HOOK and INSert (move) an existing object, you can only move the cursor
>to the location and hit INSert key.
>
>Here is a convoluted way:
>  1)  Use INPUT-ADD to re-enter the HELO at the new location
>  2)  Hook and DELETE the old position..
>
>de wb4apr@amsat.org
>
>
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

468. RE: [APRSSIG:1933] Re: Nexrad

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 14 Jun 1996 08:26:29 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB59CC.0F964F50@ppp-101.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
----------
From:   Gerald J Creager
Sent:   Thursday, June 13, 1996 6:24 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:1933] Re: Nexrad

William Nolle sez:
Jeffrey Bledsoe wrote:

> Has anyone tried to overlay realtime nexrad on (or under ?) aprs?  I'm
>  just considering getting into aprs, so I know the answer might be
>  intuitively obvious to aprs users.  I'm also trying to figure out if I
>  can place my own homemade grid system below an aprs map.

If memory serves, there was a presentation in last years ARRL Digital
Communications Conference concerning a program that receives on-air packet
data with NEXRAD encoded in an ascii format for display...

gerry

What we're talking about here is NEXRAD RMC data product's. These are ASCII files of about
60K bytes that contain coarse NEXRAD product's. These product's can be any of the NEXRAD
product's like rain, wind, and whatever else NEXRAD can see.
The RMC data product's must be produced by the NWS people and then made available. There is some
software on the ARRL BBS that creates the base maps for your computer for the NWS location
you select, you can then transfer by whatever means the RMC dataset's and display them as overlay's
to the maps the NWS NEXRAD RMC program created on your PC.
```

469. Re: [APRSSIG:1928] Emergency Alert System

From: Gary Arnold <garnold@naples.net>
Date: Fri, 14 Jun 1996 10:27:36 -0700

To: aprssig@tapr.org
Message-ID: <31C1A108.57A@naples.net>
Rendered body type: text/plain

```
PAUL MANNING wrote:
>
> Hello to the Bob and the group,
>
> I was wandering Bob,what was in the plans for APRS with the new
>
> EAS (Emergency Alert System)around the corner.
>
> Are the two systems compatible?? Would an EAS received message
>
> allow for a watch or warning box to be drawn no the APRS map??
>
> Broadcasters,Civil Defence,Emergency Management,etc..are currently
>
> in the planning process for this new system.
>
> I have not heard much out of the Amateur Community as yet on this
>
> topic.
>
> Paul N8VXD

It all depends on how many sources you want dumping the same information
into the network.  EAS will carry the same information as the WX service
bulletins, (which also carry lat/long for watch/warning boxes BTW!).

The key to EAS will be the ability (eventually) to turn on radios and
TV's upon receipt of the message, and the ability to warn areas as small
as individual zip codes, without warning half a state.  Of course you can
alert the entire country if needed, and authorized at the national level.

All cable companies and broadcasters should be on line by mid 1997, but
the planning process is going slowly in many areas.

73,
Gary WB2WPA
___________________________________________
Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
Co-chair, Southwest Florida EAS Planning Committee
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I'm writing an unauthorized autobiography."
           -- Steven Wright, perpipheral visionary
```

470. cool s/w

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 14 Jun 1996 09:49:56 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960614144956.006d8e54@144.188.134.33>
Rendered body type: text/plain

```
I just ran across some cool shareware s/w that may have an aprs application.
It is "HyperSnap" available on many web sites (Tucows and others). What it
can do is to grap a snapshot of all or part of your screen every x seconds
(you define x up to a very large number) and automatically store the picture
with incrementing file names. So... one could arrange it to capture an aprs
screen once or twice per day for later viewing. Beware, in auto capture
mode, HyperSnap dissapears from the screen and does its thing. If you forget
about it and have the settings turned very high, it may fill up your hard drive!

Paul, WD9ABE
```

471. Re: [APRSSIG:1933] Re: Nexrad

From: Gary Arnold <garnold@naples.net>
Date: Fri, 14 Jun 1996 11:05:05 -0700
To: aprssig@tapr.org
Message-ID: <31C1A9D1.249D@naples.net>
Rendered body type: text/plain

Gerald J Creager wrote:
>
> William Nolle sez:
> >
> > Jeffrey Bledsoe wrote:
> > >
> > > Hi fellows,
> > >
> > > Has anyone tried to overlay realtime nexrad on (or under ?) aprs? I'm
> > > just considering getting into aprs, so I know the answer might be
> > > intuitively obvious to aprs users. I'm also trying to figure out if I
> > > can place my own homemade grid system below an aprs map.
> > >
> > > Thanks,
> > >
> > > Jeff, N5YMV
> > Well Jeff don't think Nexrad would be possible, but grid overlays are. I
>
> If memory serves, there was a presentation in last years ARRL Digital
> Communications Conference concerning a program that receives on-air packet
> data with NEXRAD encoded in an ascii format for display...
>
> gerry

The Radar Coded Message product is just that...encoded. There is freeware available to decode and display the image on a PC. The NWS AFOS pill header includes the middle three letters of RCM. For example: MIARCMAMX is the radar coded message for the Miami Doppler. Sadly, the product is NOT available on the NWS "wire" now delivered by GTE via satellite (formerly Contel). We're working with the Miami WSFO to try to get NWS to change that policy. For now, as KU0G indicated the other day, you must make some special arrangement with your local WX office to get the product.

Displaying decoded doppler data on an APRS screen MAY be a serious bandwidth hog, even though the RCM's are only around 2.5-3K generally.
Would be interested in seeing it, if it can be done!

73,
Gary
____
Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I'm writing an unauthorized autobiography."
-- Steven Wright, perpipheral visionary

---

472. Re: [APRSSIG:1820] GPS and Lightening/Tornado tracking

From: schiers@ames.net
Date: Fri, 14 Jun 96 10:46:04 -0500
To: aprssig@tapr.org
Message-ID: <199606141546.KAA20189@tapr.org>
Rendered body type: text/plain

In <708598@bbs.ames.net>, on 06/11/96 at 01:28 PM,
aprssig@tapr.org said:

>This would give not only SKYWARN folks information on approaching storms,
> but would also give interested HAMS advance warning of approaching sever
> lightening so that protective measures can be taken for their satellite
>stations...

This is a GREAT idea. I have always been fascinated by the displays of same on the Wx channel. Even if the timing is not precise, it would be very useful information.

hasan schiers, N0AN--
----
schiers@ames.net
----

473. simultaneous winaprs&JNOS

From: ko6xs@ko6xs.ampr.org
Date: Fri, 14 Jun 96 07:31:07 PDT
To: aprssig@tapr.org
Message-ID: <712@ko6xs.ampr.org>
Rendered body type: text/plain

I was wondering if the following is possible:
I run a 24hr bbs w/ JNOS running under windows on 486sx connected to a
dual port tnc (Kantronics 9612). A Kenwood 733a runs 9600 baud on 440 band
and a Yaes ft5100 runs 1200 baud on 2m. Now, thee's not much traffic on the
2m freq. I an set the Yaesu to switch back and forth between the bbs 2m
freq. and the aprs 2m freq, pausing for any traffic.
$64 question: Is it possible to route the correct information, each to
its own program: aprs info to winaprs, and bbs info to JNOS? Or is it
possible to configure windows so that both programs get both information
and then each recognizes its own??
Thanks for your help.
73s de Jon

```
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□ □□□  TNX     73...de...ko6xs, John       □□□ □
□ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
□ □□□  ax25  ko6xs@wb6ymh.#soca.ca.usa     □□□ □
□ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

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474. RE>[APRSSIG:1937] Re: Nexrad

From: Bill Bard <wtba@eci-esyst.com>
Date: Fri, 14 Jun 1996 11:49:19 -0400
To: aprssig@tapr.org
Message-ID: <31C189FF.5C94@eci-esyst.com>
Rendered body type: text/plain

Regarding displaying the Nexrad data, how can you get the data to begin
with?

Bill Bard
wd4ixi@amsat.org

---

475. [APRSSIG:1925] Re: TORNADO WARNING IS POSSIBLE

From: dwetzel@uswest.com (Doug Wetzel)
Date: Fri, 14 Jun 1996 10:53:42 -0500
To: aprssig@tapr.org
Message-ID: <1C242250.1262@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Lots of stuff from Mr. Christensen removed here -----

Comments well noted. However, keep in mind that we are a BACKUP to the
"regular" emergency services, which have a tendency of falling apart all
too often.

This is absolutely the best discussion and comment of the whole issue I've seen
here - let's all copy, print, and refer to it regularly and move on to getting
it done!

Doug
KC7CO

---

476. Re: [APRSSIG:1937] Re: Nexrad

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 14 Jun 96 13:24:24 -0400
To: <aprssig@tapr.org>
Message-ID: <199606141721.NAA14145@bridge.net>
Rendered body type: text/plain

>What we're talking about here is NEXRAD RMC data product's. These are
>ASCII files of about
>60K bytes that contain coarse NEXRAD product's. These product's can be any
>of the NEXRAD
>product's like rain, wind, and whatever else NEXRAD can see.
>The RMC data product's must be produced by the NWS people and then made
>available. There is some software on the ARRL BBS that creates the base

>maps for your computer for the NWS location
>you select, you can then transfer by whatever means the RMC dataset's and
>display them as overlay's
>to the maps the NWS NEXRAD RMC program created on your PC.

I don't have the DCC proceedings in front of me, but I recall the presentation talked about one of the automatically generated highly compressed formats that was only a couple of K in size. It was automatically injected into the ascii stream coming out from the NWS.

Steve KO4HD

---

477. GPS ant. pre-amp offer.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Fri, 14 Jun 1996 01:27:20 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960614052720.0075faac@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I was looking for a pre-amp ship for my home made GPS antenna for a while, and found something interesting:

The MAR-6 from Mini-Circuits is the perfect candidate for that.

For those who don't know:

It's a monolithic ampl, DC to 2GHz, typ. gain is 16 dB @ 1 GHz, 11 dB @ 2 GHz, min. gain @ 2 GHz is 9 dB over the full temperature range (-20 to 85 °C). Power supply is 3.5 V and it draws 16 mA. RF input and output provide a good 50 ohms match.
The power supply and gain seem to be exactly what Garmin recommends (According to a post in the sat-nav newsgroup: max current 15 mA, max RF gain 12 dB).

The case is either a small signal RF transistor look-alike package with 4 leads, or a SMT (surface mount) package.

The DC power is supplied to the ship through the RF output via a (required) bias resistor. All you need to build the amp is the MAR-6, 2 capa (100pF chip), a resistor (~90-100 ohms) and an optional RF choke or ferrite bead.

The basic circuit for GPS application with 5 V DC supplied through the coax is:

```
MAR-6  1 In, 2 Out        +---R----+
       4,3 to Gnd.        |        |
                     4|  RFC       |
                    |\|   |        |
 (Ant) RF in---C1---| \---+---C2---+-- RF out (to gps)
                   1| /2
                    |/|
                     3|
```

If you don't have 5V on the coax, you connect R to an external power source instead of folding it back to RF out.
There was an article in 73' (Dec 1992) about the MAR series, with a PCB layout (actually, all you need is 50 ohms striplines for RF in and out, i'll make a drawing).

So what: I eventually got an answer from Mini-Circuits, and got a good price on the MAR-6 (here at the university we participate in their Partner Program), but I have to buy 50 of them minimum (min order is 50$).

So here is the deal: if there is enough people interested I make a group purchase and distribute them to everyone interested for cost + shipping + epsilon for my burden.

* Your cost is going to be 2$ a piece, everything included.

Note: I am not doing that as a business, I am not going to do that again.
Bare price (for me) is 1.06$ (+.05 if SMT) each + tax + shipping.
I'll have to buy an envelope and a stamp for each order (I'll send them by first class mail unless there are good reasons not to).
Usual price from Mini-Circuits is ~1.5$ each.
If you think my offer is unfair or, if you want to buy a lot of them, see directly with Mini-circuit.

If you are interested: send me a **personal** e-mail (seront@seism1.ess.sunysb.edu),

!if you just reply to this msg it's not going to be personal!

Please put "MAR-6" somewhere in the subject, for easier sorting.

Indicates the quantity your want, and if you want SMT or not (I can order both types to fill the 50 units requirement).

DO NOT send any money now, if there is enough interest, I'll have to confirm the order and the details with Mini-Circuits first. Note that they quoted 1-3 weeks for delivery. If everything is ok, I'll ask you to send me the money (check, bill in an envelope if you feel comfortable with that, or any other easy way for me, but NO COD) and you got your ships in return.

Disclaimer: If there is any technical discussion needed, we should do that -before- I order. I never tried these amps, I do not -guarantee- they'll work. If you burn your GPS because of the preamp don't come back to me, I won't take any responsibility for that.
FYI: I spoke with a tech at Mini-circuit yesterday, and he recommended the MAR-6 for GPS applications, he said it is often used for that. As far as I can tell there shouldn't be any problem.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

478. Re: [APRSSIG:1940] Re: Nexrad

From: William Nolle <wnolle@ix.netcom.com>
Date: Fri, 14 Jun 1996 12:34:13 -0700
To: aprssig@tapr.org
Message-ID: <31C1BEB5.6B00@ix.netcom.com>
Rendered body type: text/plain

Gary Arnold wrote:
>
> Gerald J Creager wrote:
> >
> > William Nolle sez:
> > >William Nolle didn't SEZ any of this, Gerald somehow got my name in this Nexrad message thing.

479. Re: [APRSSIG:1942] simultaneous winaprs&JNOS

From: Mark Sproul <sproul@ap.org>
Date: Fri, 14 Jun 1996 13:43:40 -0400
To: aprssig@tapr.org
Cc: ko6xs@ko6xs.ampr.org
Message-ID: <v03006f01ade754f7787f@[165.1.27.20]>
Rendered body type: text/plain

>$64 question: Is it possible to route the correct information, each to
>its own program: aprs info to winaprs, and bbs info to JNOS? Or is it
>possible to configure windows so that both programs get both information
>and then each recognizes its own??
>Thanks for your help.
>73s de Jon
>

NO, it is not possible to get 2 programs to both talk to the same port. It is possible to create a virtual com port that does the splitting, you have to be a very good low level driver software person to do this. The answer is the same for Mac and for Windows.

Mark

```
__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

480. Weather Syatem Compairison

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 14 Jun 1996 12:35:10 -0600
To: aprssig@tapr.org

Cc: bruninga@nadn.navy.mil
Message-ID: <2.2.32.19960614183510.0067d35c@mailhost.primenet.com>
Rendered body type: text/plain

I will start out by saying that I have NO proprietary, personal or financial interest in either of the weather systems that I am going to compare. This is an attempt to answer the questions that I have received concerning the Differences between the Davis Instruments Weather Monitor system and the Peet Brother's Ulitmeter system.
What follows is FACT not advertising hype or sales PR. Both systems are good and have their strengths and limitations. I am not interested in return hate mail or being FLAMED for this article, it is only intended to give a point by point comparison of the two (2) systems, which you prefer, or buy is entirely up to you. I DON'T CARE!!! I hope that it will allow the interested end user to make an informed decision before he/she plunks down money for a weather system. Also, both systems interface with APRS\WinAPRS and are fine for Skywarn & NWS applications.

So here we go:

	Davis Weather Monitor II	Peet's Ulitmeter 2000
Display:	4.38" x 1.88"	3.25" x 1.5"
	3 items displayed	1 + 1 items displayed
	1 hr. interval Barometric trend change	3 hr. Barometric trend change
Accuracy:	Both are equal	
Price:		
Console	$395.00	$379.00
Ext. Temp/Hum sensor	125.00	110.00
Inside Hum. sensor	Included	100.00
Rain Collector (0/.01")	75.00	90.00
Data Logger	Included	No*
Data Logger/Software	165.00	69.00
Duplex Cable	n/a	9.00
	________	________
Total Package Price	$760.00	$757.00

Heated Anemometer	no	(upgrade) yes
Weather talker	yes	no
* Requires Dedicated Computer	no	yes
NASA Ambassador Program Approved	yes	no
High/Lows	yes	yes
Accessories	19	11
Phone modem adapter	yes	no
Wireless rain gauge	no	yes

Here you have the basic comparison. A complete, detailed report is available. Just send me a SESE and I'll send it to you. (1431 Haisley Ct. Prescott, Az. 86303-6395)

I hope that this answers many of the questions that you may have concerning the two (2) systems. As stated before both are good, and have strengths and limitation, this "goodie" or "that". I do not think that you can go wrong with either system, it is what your personal preference is...does it do what you want it to do for what you are willing to pay, do you like the looks and feel of it etc.

We need as many Amateurs on the air with APRS\WinAPRS transmitting the current weather conditions. it is not important which system is giving the data, only that it is being given.

Look forward to seeing you all "On The Map"

73, Alan, WC7R
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

481. [APRSSIG:1948] Re: simultaneous winaprs&JNOS

From: Doug_Wetzel_at_MPLSACS1@acs.uswest.com (Doug Wetzel)
Date: Fri, 14 Jun 1996 15:14:59 -0500
To: aprssig@tapr.org
Message-ID: <1c283b20@acmspgw1.mnet.uswest.com>

Rendered body type: text/plain

____
Subject: [APRSSIG:1948] Re: simultaneous winaprs&JNOS
From: Mark Sproul <sproul@ap.org> at Internet-Mail
Date: 6/14/96 13:27

>$64 question: Is it possible to route the correct information, each to
>its own program: aprs info to winaprs, and bbs info to JNOS? Or is it
>possible to configure windows so that both programs get both information
>and then each recognizes its own??
>Thanks for your help.
>73s de Jon
>

NO, it is not possible to get 2 programs to both talk to the same port. It is possible to create a virtual com port that does the splitting, you have to be a very good low level driver software person to do this. The answer is the same for Mac and for Windows.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

_______________>

There is an even more profound difference, as the various flavors of NOS want to see KISS frames from the TNC. The TNC does very little processing of the frames, leaving virtually all of the AX25 protocol handshaking and upper layer (TCP/IP) protocol processing to the NOS software itself. APRS on the other hand, requires that the AX25 protocol processing be done by the TNC and the info passed out the port to APRS as an ascii string from which most of the AX25 control info has been stripped. Not only would you have to have a port splitter, but one of the data paths would require a packet-processing driver that looks like a tnc in convers mode to APRS.

Doug
KC7CO

482. [APRSSIG:1948] Re: simultaneous winaprs&JNOS

From: Doug_Wetzel_at_MPLSACS1@acs.uswest.com (Doug Wetzel)
Date: Fri, 14 Jun 1996 15:25:26 -0500
To: aprssig@tapr.org
Message-ID: <1c284bc0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

____
Subject: [APRSSIG:1948] Re: simultaneous winaprs&JNOS
From: Mark Sproul <sproul@ap.org> at Internet-Mail
Date: 6/14/96 13:27

>$64 question: Is it possible to route the correct information, each to
>its own program: aprs info to winaprs, and bbs info to JNOS? Or is it
>possible to configure windows so that both programs get both information
>and then each recognizes its own??
>Thanks for your help.
>73s de Jon
>

NO, it is not possible to get 2 programs to both talk to the same port. It is possible to create a virtual com port that does the splitting, you have to be a very good low level driver software person to do this. The answer is the same for Mac and for Windows.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/

-------------->

Planning ahead has never been my strong suit - re my last posting on KISS/NOS and APRS, the URL below has a good description of what a tnc in KISS mode really does, and how NOS works with that mode:

http://www.eexi.gr/~sv1rd/kiss.txt

73
Doug
KC7CO

---

483. winAPRS/win95, extra serial ports.

From: w2g3zfj@unix.asb.com (bob)
Date: Fri, 14 Jun 1996 17:45:13 -0400
To: aprssig@tapr.org
Message-ID: <199606142153.RAA01404@unix.asb.com>
Rendered body type: text/plain

Hi There

I want to hook up my Ultimeter II to my PC to work under win95. Now I know that winAPRS can work with any serial port however I'm not sure where I can get an extra serial card to work on com5 etc. I've had a look round the local computer shows but no joy. Anyone got any ideas? Is it possible to modify a standard serial card to work at another address? Do I need a TSR program to run the extra serial cards?

Any help appreciated

BTW any word on an upgrade/bug fix for winAPRS?

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com

---

484. AutoWX Problems?

From: rwf <rwf@mindspring.com>
Date: Fri, 14 Jun 1996 18:07:57 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960614220757.009ab018@mindspring.com>
Rendered body type: text/plain

There's a fella over in Alabama running AutoWX. He is about to drive our net crazy by outputting erroneous info setting off our WX alarms.

When the alarms go off, he is showing 9.99 inches of rain. Is there something he should be doing, or a different version of AutoWX he should be running? I think I remember the Author is here on the SIG. Or is this an APRS problem? Bob can we tell APRS to IGNORE all wx alarms?

I'm sure AutoWX is a versatile program, but unless we can get this guy to cut out the false alarms, we'll have to do something to stop his packets from propogating.

Ralph

---

485. HOW ACCURATE is the clock?

From: AlChan@aol.com
Date: Fri, 14 Jun 1996 18:25:10 -0400
To: aprssig@tapr.org, alchan@ix.netcom.com
Message-ID: <960614182508_328502014@emout15.mail.aol.com>
Rendered body type: text/plain

HOW ACCURATE does the clock on the GPS receiver have to be? I am curious. A "radar mile" is 12.359 microseconds. That means, if the time of the GPS receiver was OFF by only 3 microseconds, the positions would be HALF a mile OFF. Is that true?

How does the GPS receiver set its local TIME?

Wes Jones wrote:

>>>Obviously, time is very critical and the satellites broadcast time ticks >>>so everyone can "synchronize their watches".

IF the GPS receiver's clock were to "synchronize" by the signal from a satellite, wouldn't the observer (at the GPS receiver) have to know how far the satellite was away FIRST, before he could determine the TRANSIT time, and hence the LOCAL time? I can't figure out which should comes first. I can't determine (in my mind) how to find the distance from the satellite without knowing the transit time. And it is impossible to determine the local time; and transit time from the satellite without knowing first the exact distance between the satellite and the GPS receiver because of propagation delay. It takes TIME for the signal to travel.

I understand how DME (distance measure equipment for aviation) can work because the transceiver KNOWS what time the interrogation signal goes out; and what time the reply signal comes in. But the GPS has no interrogation signal. How does it work?

I am new in this. Please enlighten me. Thanks.

  -al
  """
               Alchan@aol.com

486. Re: Weather System Comparison

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 14 Jun 1996 18:55:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960614180706.1547B-100000@arctic>
Rendered body type: text/plain

On Fri, 14 Jun 1996, Alan K. Unangst summarized the two APRS compatible weather instruments. I have added some remarks shown in [brackets]. Primarily, indoor humidity is not a Weather condition and is not needed in APRS. Options not needed in APRS are marked with an asterix (*).

```
>            Davis Weather Monitor II              Peet's Ulitmeter 2000
>
> Console                    $395.00                             $379.00
> Ext. Temp/Hum sensor        125.00                              110.00
> Inside Hum. sensor        Included                              100.00*
> Rain Collector (0/.01")      75.00                               90.00
> Data Logger [serial intfc]  165.00                            included
> Software    [included with logger]                               69.00*
> Duplex Cable                  n/a                                 9.00
>                           --------                            --------
> [Minimum Full APRS sys]    $760.00                             $588.00
>
> Total [w indoor humidity]  $760.00    [& logging software]     $757.00
>
> Heated Anemometer                  no                    (upgrade) yes
> Weather talker                    yes                               no
> Requires Dedicated Computer        no                              yes
>   [for continuous data logging]
> [Requires Dedicated Computer]    [yes]                             [no]
>   [for APRS operation with TNC]
> NASA Ambassador Program Approved  yes                               no
> High/Lows                         yes                              yes
> Accessories                        19                               11
> Phone modem adapter               yes                             [yes]
> Wireless rain gauge                no                              yes
```

APRSdos REPLY COMMENT: I don't know what NASA Ambasador Program Approval means. Nor do I know what the 19 and 11 options are. I changed the modem indicator to [yes] for PEET because his serial interface has 4 modes, packet, logger, modem and verbose. The Peet system will operate stand-alone with any GPS compatible TNC (except MFJ). Hope this is helpful...

de wb4apr@amsat.org

487. Re: [APRSSIG:1952] winAPRS/win95, extra serial ports.

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 14 Jun 1996 15:54:30 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
        "w2g3zfj@unix.asb.com" <w2g3zfj@unix.asb.com> (Return requested)
Message-ID: <010DB31C1EDA6538*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

Win 95 will allow up to COM8 with any available (or otherwise not reserved) IRQ. Mouse Systems manufactures a device called (strangely enough) "COM-5", which has a large, jumperable variety of IRQs and addresses.

     Most of the multi-EIDE cards nowadays have a fair selection of IRQs
     and can be installed without enabling the disk controllers. However,
     they generally don't support beyond the four basic addresses...

     There are several quad-port cards out (one I saw at Fry's here for
     under $100) that have a bunch of addresses and a bunch of IRQs.

     73 - Jon NW6H

     p.s. Now if someone could just come up with a box that had a Tbase10
     jack on one side and a pile of com ports on the other, and software
     that would allow the use of theose com ports as virtual com ports for
     a networked computer, and that it could run on NT, then I'd be set!

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:1952] winAPRS/win95, extra serial ports.
Author: w2g3zfj@unix.asb.com at Internet
Date: 6/14/96 3:29 PM

Hi There

I want to hook up my Ultimeter II to my PC to work under win95. Now I know
that winAPRS can work with any serial port however I'm not sure where I can
get an extra serial card to work on com5 etc. I've had a look round the
local computer shows but no joy. Anyone got any ideas? Is it possible to
modify a standard serial card to work at another address? Do I need a TSR
program to run the extra serial cards?

Any help appreciated

BTW any word on an upgrade/bug fix for winAPRS?

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com

488. Re: [APRSSIG:1946] GPS ant. pre-amp offer.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 14 Jun 1996 19:07:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960614185627.1547C-100000@arctic>
Rendered body type: text/plain

On Fri, 14 Jun 1996, Bernard Seront wrote about some cheap RF amps for
GPS applications and a group purchase. I asked him about the noise
figure and he says it is 3 dB. Does anyone know what the typical noise
figure is for the hand held GPS front ends?

If they are 3dB or worse, then the RF amps will be just fine for remote
antennas to overcome cable loss. If your hand held has a better front
end, however, then the RF amp will allow you to use a long cable, but the
performance can never be quite as good as the antenna in the unit.

BUT lets say that the GPS specs say you have a 3dB noise figure receiver
BUT it is using an internal patch antenna, then your remote RF amplified
antenna could do much better if you use a *full size* GPS antenna. Full
size meaning 1/4 wavelength size in air as opposed to the small patch
antennas that are less effecient because they have a smaller capture area.
Do the MFRs that quote a noise figure for their handhelds included the
inneffeciency of the small patches?

These RF amps sound like a good deal to me... But I dont know what the
typical specs are for the handhelds?

de wb4apr@amsat.org

489. Re: [APRSSIG:1954] HOW ACCURATE is the clock?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 14 Jun 1996 18:05:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960614180235.22804B-100000@solar>
Rendered body type: text/plain

The GPS *should* derive its local time from the GPS time and add
leap-seconds as indicated by the almanac. Since all a good GPS receiver

is, is a very accurate clock, most of them have pretty good local stability for time-keeping, and resync when they acquire GPS time from the birds. Now: Computation of time may vary significantly. The time displayed can be the last second, the time when the last fix was calculated, or the instantaneously decoded time (!) and there's a lag in determinng which is what. If you're really serious about timing, you get the 1 Pulse Per Second option, and look at (as appropriate per manufacturer) the leading or trailing edge for your timing.

Gerry
n5jxs@tamu.edu

---

490. Atlanta Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 14 Jun 1996 19:28:46 -0400 (EDT)
To: aprssig@tapr.org
Cc: rwf <rwf@mindspring.com>
Message-ID: <Pine.SUN.3.91.960614175244.1547A-100000@arctic>
Rendered body type: text/plain

I am busy doing some Atlanta detail maps for the Olympics. This heads up so we dont duplicate efforts. I have modifed almost all of the GA maps in one way or another that were in the APRSBSRG.zip file. So if anyone has added antyhing to those maps since that BSRG file, then you better get the changes to me, or hold off till I post the new ones.

All of the big maps GA-1 through GA-XX, I changed the SIZE from 65 down to the real size of the map of about 36 miles

All of the GAAT-14 thru GAAT-34, I changed from 2.2 down to 1.1 mile maps and changed the scale from 10500 PPD to 21000 PPD to give double the resolution. On GAAT-28 I have drawn in the stadium and 10K race route.

I have built a new GA-ATL4 map that covers the same area as all the GAAT-xx maps. It is a 3.6 mile map.

I have built a GA-ATL1 map which is centered on the four corners of GAAT-21 22,27 and 28.

I am waiting on the detail route information for the Olympic Marathon and then I will try to get Bill and Ralph to help me finish street level maps along that route... It looks like it starts north of twon and goes down Peachtree. I assume it ENDS in the stadium. I know that Mile 15 is at the intersection of Peachtree and Pharr Road. Mile 18 is at Peach Tree and Lakeview Ave.

RALPH, can you use the EXTRACT program to extract the files that cover that area on down to the Stadium? I only like to use one 15x15 grid at a time, and it looks like all of this area is in the grid

```
              34 00
           ------------
           |          |
           |          |
           |          |
           |          |
    84,30  |          | 84,15
           |          |
           |          |
           |          |
           ____________
              33,45
```

Extract only that 15x15 cell, then ZIP up the files and post them on Mindspring.
  Then send me a message telling me the FTP address. THANKS !!!!
Maybe ZIP each file and and then tell me the name of the 4 ZIPPED files.
That way if I get an error, it will take less time to try again...
EXTRACT all feateures...

de wb4apr@amsat.org

---

491. Re: [APRSSIG:1953] AutoWX Problems?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 14 Jun 1996 19:30:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960614192924.2428A-100000@arctic>
Rendered body type: text/plain

On Fri, 14 Jun 1996, rwf wrote:

> There's a fella over in Alabama running AutoWX. He is about to drive our
> net crazy by outputting erroneous info setting off our WX alarms.
> When the alarms go off, he is showing 9.99 inches of rain. Is there

APRSdos REPLY COMMENT: The only way to disable APRS alarms is to set the
values outrageously high. In the case of rain, 9.99 is the maximum
value. SO I cannot turn this off in APRS...

de wb4apr@amsat.org

---

492. Re: [APRSSIG:1955] Re: Weather System Comparison

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 14 Jun 1996 17:36:23 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960614233623.00687ca4@mailhost.primenet.com>
Rendered body type: text/plain

Thanks, Bob. The Ambassador Teacher's Program is a NASA sponsored program,
of some type, I could not find any such approval for the Peet bro's system.
The options are what is available as add ons. Davis has 19 different
"goodies" that can be purchased, Peet has 11. This is for the Weather guru
who wants it all. I am currently doing a side by side comparison of the two
systems, and I can not find much difference in the accuracy....Oh well some
like mashed potatoes some like french fries...to each his own. I hope that
more people will get on the air with Wx, I don't care what they use, a
rectal thermometer, wind sock & compass, and a tin cup are OK by me...If it
is accurate!!!

73, and Thanks for the help!!! Alan

At 06:08 PM 6/14/96 -0500, you wrote:
>On Fri, 14 Jun 1996, Alan K. Unangst summarized the two APRS compatible
>weather instruments. I have added some remarks shown in [brackets].
>Primarily, indoor humidity is not a Weather condition and is not needed
>in APRS. Options not needed in APRS are marked with an asterix (*).
>

```
>>            Davis Weather Monitor II              Peet's Ulitmeter 2000
>>
>> Console                   $395.00                             $379.00
>> Ext. Temp/Hum sensor        125.00                              110.00
>> Inside Hum. sensor        Included                              100.00*
>> Rain Collector (0/.01")      75.00                               90.00
>> Data Logger [serial intfc]  165.00                            included
>> Software    [included with logger]                               69.00*
>> Duplex Cable                  n/a                                 9.00
>>                           --------                            --------
>> [Minimum Full APRS sys]    $760.00                             $588.00
>>
>> Total [w indoor humidity]  $760.00    [& logging software]     $757.00
>>
>> Heated Anemometer                  no                    (upgrade) yes
>> Weather talker                    yes                               no
>> Requires Dedicated Computer        no                              yes
>>   [for continuous data logging]
>> [Requires Dedicated Computer]    [yes]                            [no]
>>   [for APRS operation with TNC]
>> NASA Ambassador Program Approved  yes                               no
>> High/Lows                         yes                              yes
>> Accessories                        19                               11
>> Phone modem adapter               yes                             [yes]
>> Wireless rain gauge                no                              yes
```

>
>APRSdos REPLY COMMENT: I don't know what NASA Ambasador Program Approval
>means. Nor do I know what the 19 and 11 options are. I changed the modem
>indicator to [yes] for PEET because his serial interface has 4 modes,
>packet, logger, modem and verbose. The Peet system will operate stand-alone
>with any GPS compatible TNC (except MFJ). Hope this is helpful...
>
>de wb4apr@amsat.org
>

```
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

493. MIC Encoder COverage Plotting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 14 Jun 1996 20:55:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960614204821.3031B-100000@arctic>
Rendered body type: text/plain

```
A local repeater sysop tonight got excited about putting a TNC at his
repeater since it can be used along with APRS mobiles to plot a perfect
COVERAGE profile of his repeater!

All he does, is collect every Position report ever heard by his
repeater.  Plotting days or weeks or months of these will cover the
map with dots showing where he has GOOD coverage.  Marginal or weak
packet posits will most likely not be plotted.  So the resulting plot
will show the reliable coverage of the voice repeater!

You might say that most of the DOTS will just be along the major
highways...  Well, isnt that where most mobiles will be anyway?
Its usually mobile coverage that most repeaters are interested in anyway...

de wb4apr@amsat.org
```

---

494. Re: [APRSSIG:1954] HOW ACCURATE is the clock?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 14 Jun 1996 21:00:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960614205701.3031C-100000@arctic>
Rendered body type: text/plain

```
On Fri, 14 Jun 1996 AlChan@aol.com wrote:
>
> HOW ACCURATE does the clock on the GPS receiver have to be? I am
> curious. A "radar mile" is 12.359 microseconds. That means, if the
> time of the GPS receiver was OFF by only 3 microseconds, the
> positions would be HALF a mile OFF. Is that true?
>
> How does the GPS receiver set its local TIME?

APRSdos REPLY COMMENT:  THe whole concept of GPS is that the GPS receiver
computes the time of arrival of all signals and therefore can infer what the
precise time is on the satellites.  The GPS-20 board being sold by TAPR
has this precise time output in the form of a 1 pulse per second.  But
the edge of that pulse is accurate worldwide to under 1 microsecond.

de wb4apr@amsat.org
```

---

495. Re: [APRSSIG:1953] AutoWX Problems?

From: Miami Network <0004818186@mcimail.com>
Date: Fri, 14 Jun 96 19:52 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <04960615005240/0004818186NA1EM@MCIMAIL.COM>
Rendered body type: text/plain

```
In case the author does not answer one thing to check real quickly
is the Peet Wx Station.  It must be set to Complete Record Mode!

I don't remember the key sequence but it is in the documentation.

We just installed AutoWx last week at N4PBF and it works just
elegantly!

The National Hurricane Center in Miami just got a demonstration and
they were just overtaken with the ability to query a remote site,
find out the weather and compare it with other locations!

It is a well timed contribution and South Florida will gain
optimal use of this software!


73, Seymour, KC4NMY
```

---

496. RE: Re: Emergency Alert System

From: wmtv.tom.weeden@madison-business.com
Date: Fri, 14 Jun 96 08:43:00 CST
To: APRSSIG@tapr.org
Message-ID: <MAIL.4B369CAB@madison-business.com>
Rendered body type: text/plain

```
---------------------------- <Original Message> ----------------------------
>From:  PAUL MANNING[SMTP:MANNING_P@wfum.flint.umich.edu]
>Sent:  Thursday, June 13, 1996 4:25 PM
>To:    aprssig@tapr.org
>Subject:       [APRSSIG:1928] Emergency Alert System
>
>> Hello to the Bob and the group,
>
>> I was wandering Bob,what was in the plans for APRS with the new
>
>> EAS (Emergency Alert System)around the corner.
>
>I've never heard of EAS - is it the same as SAME - the Specific Area
>Message Encoder that NOAA is beginning to install at its weather radio
>stations?
>
>There's been a discussion of SAME on the ham-wx mailing list.
>
>73 de KB9JTT

--------------------------------------------------------------------------
The Emergency Alert System is the replacement to the Emergency Broadcast
System.  EBS is based on the long two-tone alert which every radio and TV
station tests once a week ("This is a test...").  EAS adds FSK signaling in
a header which encodes the type of emergency, the date/time, who originated
it, etc., followed by the same two-tone alert, then a voice message, then an
EOM packet.  EAS will begin for broadcasters on Jan. 1 1997.  EAS is not the
same as SAME on NOAA weather radio, but they are compatible...in fact, a lot
of broadcast stations will be monitoring wx radio and retransmitting the FSK
headers/voice message since they are compatible.

I'm part of the committee planning the South Wisconsin Operational Area
"local" plan for EAS, and am trying to find out how amateur radio will
interface with the EAS system.  The new EAS rules are found in the new Part
11 in the FCC rulebook.  More info on EAS can be found on the Society of
Broadcast Engineers' web site at   http://www.sbe.org

-73-
Tom Weeden, WJ9H
Chief Engineer, WMTV
Madison WI
```

497. Re: [APRSSIG:1953] AutoWX Problems?

From: Les Blalock <lcb911@apex2000.net>
Date: Fri, 14 Jun 1996 22:37:03 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960614223636.10fffde6@apex2000.net>
Rendered body type: text/plain

```
At 05:27 PM 6/14/96 -0500, you wrote:
>There's a fella over in Alabama running AutoWX.  He is about to drive our
>net crazy by outputting erroneous info setting off our WX alarms.
>
>When the alarms go off, he is showing 9.99 inches of rain.  Is there
>something he should be doing, or a different version of AutoWX he should be
>running?  I think I remember the Author is here on the SIG.  Or is this an
>APRS problem?  Bob can we tell APRS to IGNORE all wx alarms?
>
>I'm sure AutoWX is a versatile program, but unless we can get this guy to
>cut out the false alarms, we'll have to do something to stop his packets
>from propogating.
>
>Ralph
>

He has an older version of AutoWx that used 999 to indicate the program had
received invalid data.  I originally thought that would attract the user's
attention to the problem so he could fix it.  I didn't realize the conflict
with the APRS alarms until Bob pointed it out and then it was changed.

If you can contact the guy, have him download the newer version from the
ARRL BBS.  Or...  if you will furnish his callsign (by personal e-mail to
me) I'll mail him a diskette with a newer version of AutoWx.
```

The problem is the result of an invalid setting or the 999 wouldn't be showing up. However, it was a mistake on my part to use 999 in the first place. (Newer versions use 000)

Les/N5KOA
lcb911@apex2000.net

---

498. Re: [APRSSIG:1957] Re: GPS ant. pre-amp offer.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 14 Jun 1996 22:39:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606150339.WAA25263@solar.cs.tamu.edu>
Rendered body type: text/plain

I can go looking for the data (it's at work, and I'm at home) but a NF of 3 dB is marginal fromw hat I recall. M/A Com uses some 1 dB parts for their preamps. With the gain figures some of the manufacturers claim (Trimble comes to mind) a gain of 40 dB (no kidding!) and a 3 dB noise figure could be painful. Of course, most of the mfgrs plan to have the preamp at the antenna...

gerry

---

499. Mapmaking

From: William Nolle <wnolle@ix.netcom.com>
Date: Fri, 14 Jun 1996 22:45:10 -0700
To: aprssig@tapr.org
Message-ID: <31C24DE6.6848@ix.netcom.com>
Rendered body type: text/plain

Bob do you have Jacks correct e-mail address. I used the one he used to send me the beta version of his latest software but it bounced back.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

500. Re: [APRSSIG:1954] HOW ACCURATE is the clock?

From: clyde edgar <cedgar@pacificnet.net>
Date: Fri, 14 Jun 1996 21:06:34 -0700
To: aprssig@tapr.org
Message-ID: <199606150406.VAA02993@polaris.pacificnet.net>
Rendered body type: text/plain

Wes is quite correct regarding the timing accuracy required by GPS. The receiver clock is corrected with a bias that is computed as part of the GPS navigation solution. The four variables solved for are x,y,z for position and t to correct the receiver time. What makes GPS work are the miniature atomic standards that fly on it, 2 each Rubidium and 2 each Cesium standards. There is a GPS home page on internet that contains a tremendous amount of information on the system, I'll post it later. Clyde- WA6DCM

At 05:31 PM 6/14/96 -0500, you wrote:
>
>HOW ACCURATE does the clock on the GPS receiver have to be? I am
>curious. A "radar mile" is 12.359 microseconds. That means, if the
>time of the GPS receiver was OFF by only 3 microseconds, the
>positions would be HALF a mile OFF. Is that true?
>
>How does the GPS receiver set its local TIME?
>
>Wes Jones wrote:
>
>>>>Obviously, time is very critical and the satellites broadcast
>time ticks >>>so everyone can "synchronize their watches".
>
>IF the GPS receiver's clock were to "synchronize" by the signal from
>a satellite, wouldn't the observer (at the GPS receiver) have to
>know how far the satellite was away FIRST, before he could determine
>the TRANSIT time, and hence the LOCAL time? I can't figure out which
>should comes first. I can't determine (in my mind) how to find the
>distance from the satellite without knowing the transit time. And it
>is impossible to determine the local time; and transit time from the
>satellite without knowing first the exact distance between the

>satellite and the GPS receiver because of propagation delay. It
>takes TIME for the signal to travel.
>
>I understand how DME (distance measure equipment for aviation) can
>work because the transceiver KNOWS what time the interrogation
>signal goes out; and what time the reply signal comes in. But the
>GPS has no interrogation signal. How does it work?
>
>I am new in this. Please enlighten me. Thanks.
>
> -al
> ""
>   Alchan@aol.com
>
>
>
>

---

501. Re: [APRSSIG:1943] RE>Re: Nexrad

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 15 Jun 96 00:34:39 -0400
To: <aprssig@tapr.org>
Message-ID: <199606150431.AAA02675@bridge.net>
Rendered body type: text/plain

>Regarding displaying the Nexrad data, how can you get the data to begin
>with?
>
Easy, just walk into the local NWS office dragging a very long RS-232
cable, and nicely ask permission to tap into their serial weather product
data stream ;-)

---

502. Re: [APRSSIG:1955] Re: Weather System Comparison

From: Ron Malinowski <weather@xnet.com>
Date: Sat, 15 Jun 1996 02:11:37 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606150711.CAA27629@flood.xnet.com>
Rendered body type: text/plain

>On Fri, 14 Jun 1996, Alan K. Unangst summarized the two APRS compatible
>weather instruments. I have added some remarks shown in [brackets].
>Primarily, indoor humidity is not a Weather condition and is not needed
>in APRS. Options not needed in APRS are marked with an asterix (*).
>
>>   Davis Weather Monitor II   Peet's Ulitmeter 2000
>> Weather talker   yes   no

I was wondering are you referring to the ability for it to announce the
information verbally? Peet Bros did have a unit at Dayton that you can
interface with the Ultimeter and it does announce the data in Australian :-)
down under via phone or touch tones.   I am not sure how elaborate the Davis
is, but I thought it would be neat if you can use one weather station and
have it hooked up to APRS, and available to access on a repeater also, dont
know if possible, I guess its a matter if you can splice a data stream and
still maintain the voltage for a readable data to both units.
Ron
N9QGS

---

503. Re: [APRSSIG:1969] Re: HOW ACCURATE is the clock?

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 15 Jun 96 05:40:03 -0400
To: <aprssig@tapr.org>
Message-ID: <199606150937.FAA21976@bridge.net>
Rendered body type: text/plain

>IF the GPS receiver's clock were to "synchronize" by the signal from
>a satellite, wouldn't the observer (at the GPS receiver) have to
>know how far the satellite was away FIRST, before he could determine
>the TRANSIT time, and hence the LOCAL time? I can't figure out which
>should comes first. I can't determine (in my mind) how to find the
>distance from the satellite without knowing the transit time. And it
>is impossible to determine the local time; and transit time from the
>satellite without knowing first the exact distance between the
>satellite and the GPS receiver because of propagation delay. It
>takes TIME for the signal to travel.
>
The mathematics are not simple, but using simultaneous equations it can
be solved, using an extra satellite. That's why it takes 3 sats for a 2d

fix, 4 sats for a 3d fix. If your GPS already new the _exact_ time, only
2 sats would be needed for a 2d fix.

504. Maps

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 15 Jun 1996 08:02:08 -0700
To: aprssig@tapr.org
Message-ID: <31C2D070.1E42@ix.netcom.com>
Rendered body type: text/plain

I don't know if any of the mapbuilders are aware of this program called DLGVIEW. Its a big help i think in looking at the area you want to map and see how dense the data is. I did a view of the complete road file 3.5Meg of Huntsville,AL and it will show every road within that file, showing the heavy populated areas. To bad we can't just save that info to a file Hi. There is a file provided in basic that could be used to rew-rite the software. It was written by a person named Sol Katz and is on one of the USGS sites. I did attempt to do a copy to combine all off the files (Roads, Hydro, etc) but that didn't work because it still only viewed the first file. One thing you do have to do and that is when downloading a file from the CD you will have to add the XXXX(.DLG) file extension to it. If anybody is interested i will try to find the URL for this file since i didn't save it as a bookmark Hi, but i do know where to look.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

505. Re: [APRSSIG:1954] HOW ACCURATE is the clock?

From: n4nr@vulcan.com (N4NR)
Date: Sat, 15 Jun 96 09:01:00 -0600
To: aprssig@tapr.org
Message-ID: <8C2921D.0012001903.uuout@vulcan.com>
Rendered body type: text/plain

-> HOW ACCURATE does the clock on the GPS receiver have to be? I am
-> curious. A "radar mile" is 12.359 microseconds. That means, if the
-> time of the GPS receiver was OFF by only 3 microseconds, the
-> positions would be HALF a mile OFF. Is that true?

Yes...The clock in the GPS rx does not have to be accurate enough to determine exact distance with ONE satellite. Think of it as getting distances from 3 different sats...each referenced to a GPS rx clock that's 3 us "off"...you would get three different locations...now draw a triangle connecting the dots...you are in the center of the triangle. The GPS rx resolves the center of that triangle. (or a three dimensional figure if >3 sats are involved)

This way, only the clocks on the sats themselves need atomic precision.

Does that help?

Dennis - N4NR

506. Re: [APRSSIG:1962] MIC Encoder COverage Plotting

From: n2czf@gate.net
Date: Sat, 15 Jun 1996 10:28:18 -0400
To: aprssig@tapr.org
Message-ID: <199606151428.KAA97930@osceola.gate.net>
Rendered body type: text/plain

I did this the first day that my UHF repeater was up but without the bells and whistles. I just set up a HT on the repeater runing APRS then set off with my handypacket/gps driving. Since the repeater is mine and I would not clog up .79 I just set up the TNC to transmit every 10 seconds. I also had a good idea of how well it was doing since I set up the mobile to digi via the house. Everytime a packet that had a good S/N ratio made it thru the HT would digi it back so I had a immideate conformation even though I was 40 miles away. By the time I got home I already had a good idea of where it covered and confirmed it on the map!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

Right now I'm having amnesia and deja vu at the same time. I think I've

```
forgotten this before.                Steven Wright
```

---

507. Re: [APRSSIG:1972] Re: HOW ACCURATE is the clock?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 15 Jun 1996 10:50:56 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606151550.KAA28566@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Steve Dimse sez:
>
> The mathematics are not simple, but using simultaneous equations it can
> be solved, using an extra satellite. That's why it takes 3 sats for a 2d
> fix, 4 sats for a 3d fix. If your GPS already new the _exact_ time, only
> 2 sats would be needed for a 2d fix.

Er, ah... 'Fraid not.  The solution for a GPS position is a spheroid of
probability.  Knowledge of the pseudorange of a satellite, based on almanac,
ephemeris and clock solutions, yields a probability that you are on the
surface of a sphere around the satellite.  intersection of that sphere with
the earth's surface yields an approximate ellipse of positional probability.
Adding a second satellite to the solution matrix places you within a volume of
probability  defined by the intersection of the spheres associated with
pseudorange solutions for the 2 satellites. Resolution of the solution to a 2D
position requires a third satellite, while resolution of the Z axis component
requires a fourth.  Even with precise time definition, you cannot resolve 2D
fixes with 2 satellites...  Sorry.

Gerry
```

---

508. GPS20 questions

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Sat, 15 Jun 1996 12:02:48 -0500
To: aprssig@tapr.org
Message-ID: <199606151707.MAA07855@sparc.isl.net>
Rendered body type: text/plain

```
I finally had a few minutes to connect up the GPS20 and see how it's
working.  I used a 7805 with a 9v battery which seemed to power it up fine.
Connected it to the computer and used a com program to watch the data.  Sure
enough, I get a burst of messages once a second.

It seems to be finding satellites but will not come up with a fix.  I moved
it outside and have used both the "Blackjack" antenna and one of Bob's
suggested 1.8" wire.  The satellite data seems to be incomplete.  The
documentation for the GPGSV message says the SNR will be null if the
satellite is not being tracked.  Some are this way but others are also
missing the elevation.  Some have SNR but no elevation.  Also, the time
seems to be about 3 minutes slow according to my watch which is usually
within 30 seconds or so of WWV.

Here's a sample of the data:

$PGRME,,,,,,*4D
$GPVTG,,T,,M,,N,,K*4E
$GPRMC,155806,V,,,,,,,150696,,*33
$GPGGA,155806,,,,,0,00,,,M,,M,,*69
$GPGSA,A,1,,,,,,,,,,,,,,,*1E
$GPGSV,2,1,08,04,,090,,05,47,094,,07,,038,44,14,,302,*7C
$GPGSV,2,2,08,15,00,344,40,18,,175,,19,,073,,27,,060,*77

Any suggestions?
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet:   aa0sm@wd0gnk.#semn.mn.usa.na
```

---

509. Re: [APRSSIG:1971] Re: Weather System Comparison

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 15 Jun 1996 10:43:40 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960615164340.00682c30@mailhost.primenet.com>
Rendered body type: text/plain

```
Davis has a very good system, it's called WeatherTalker. It interfaces a
computer to the Wx station and a phone line. It then, when asked, gives you
the Wx information over the phone line, or radio..... Hope that this
helps...Alan
```

```
At 02:11 AM 6/15/96 -0500, you wrote:
>>On Fri, 14 Jun 1996, Alan K. Unangst summarized the two APRS compatible
>>weather instruments.  I have added some remarks shown in [brackets].
>>Primarily, indoor humidity is not a Weather condition and is not needed
>>in APRS.  Options not needed in APRS are marked with an asterix (*).
>>
>>>            Davis Weather Monitor II              Peet's Ulitmeter 2000
>>> Weather talker                    yes                              no
>
>I was wondering are you referring to the ability for it to announce the
>information verbally?  Peet Bros did have a unit at Dayton that you can
>interface with the Ultimeter and it does announce the data in Australian :-)
>down under via phone or touch tones.   I am not sure how elaborate the Davis
>is, but I thought it would be neat if you can use one weather station and
>have it hooked up to APRS, and available to access on a repeater also, dont
>know if possible, I guess its a matter if you can splice a data stream and
>still maintain the voltage for a readable data to both units.
>Ron
>N9QGS
>
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

510. Re: [APRSSIG:1977] GPS20 questions

From: Ben-Shalom Assi <4x6em@techunix.technion.ac.il>
Date: Sat, 15 Jun 1996 20:58:51 +0300 (IDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960615205544.14537A-100000@techunix.technion.ac.il>
Rendered body type: text/plain

```
I had the same problem.
If you dont get a S/N number then the GPS does not see the satellite.
Everything was ok only when I put it outside with a good antenna for a
couple of hours, it take it time to build the initial Almanac.
As to the clock, the time you see is factory set, when you will have
a fix the clock will be reset by the satellites.
When I got mine it was 6 minutes off GMT but after getting a fix
everything was ok.
bye, Assi 4Z7ABA


On Sat, 15 Jun 1996, Tony Drumm wrote:

> I finally had a few minutes to connect up the GPS20 and see how it's
> working.  I used a 7805 with a 9v battery which seemed to power it up fine.
> Connected it to the computer and used a com program to watch the data.  Sure
> enough, I get a burst of messages once a second.
>
> It seems to be finding satellites but will not come up with a fix.  I moved
> it outside and have used both the "Blackjack" antenna and one of Bob's
> suggested 1.8" wire.  The satellite data seems to be incomplete.  The
> documentation for the GPGSV message says the SNR will be null if the
> satellite is not being tracked.  Some are this way but others are also
> missing the elevation.  Some have SNR but no elevation.  Also, the time
> seems to be about 3 minutes slow according to my watch which is usually
> within 30 seconds or so of WWV.
>
> Here's a sample of the data:
>
> $PGRME,,,,,,*4D
> $GPVTG,,T,,M,,N,,K*4E
> $GPRMC,155806,V,,,,,,,150696,,*33
> $GPGGA,155806,,,,,0,00,,,M,,M,,*69
> $GPGSA,A,1,,,,,,,,,,,,,,,,*1E
> $GPGSV,2,1,08,04,,090,,05,47,094,,07,,038,44,14,,302,*7C
> $GPGSV,2,2,08,15,00,344,40,18,,175,,19,,073,,27,,060,*77
>
> Any suggestions?
> Tony Drumm
> Rochester, MN
> internet: tdrumm@isl.net
> Packet:   aa0sm@wd0gnk.#semn.mn.usa.na
>
```

511. WinAPRS and OS/2 Warp

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sat, 15 Jun 96 14:02:19 EDT
To: aprssig@tapr.org
Message-ID: <199606151802.SAA08170@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

I tried WinAPRS with OS/2 Warp and got an
error message: "unexpected DOS error 23"

OS/2 Warp can deal with win32s up to version 1.25.
Does WinAPRS actually require win32s 1.30 to operate
or can it be coerced into running with 1.25?

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

512. Need Help with Stand-Alone Tracker!!!

From: ku0g@sprynet.com
Date: Sat, 15 Jun 1996 11:09:31 -0700
To: aprssig@tapr.org
Message-ID: <199606151809.LAA19643@m1.sprynet.com>
Rendered body type: text/plain

I bought a KPC-3 (v 6.0 firmware) yesterday. Building a stand-alone tracker for
bike ride tomorrow (Sunday). Here's the scoop....

The GPS is sending its data to the TNC but the TNC is not accepting it
(apparently). TNC IS sending its normal beacon and ID OK.

I look at LT and all four buffers have nothing in them.

I followed the Kantronics docs on how to set up for GPS operation. Here's what
I did....

Hardware: GPS-45 yellow (brown) wire to pin 2 on TNC, black (ground) to pin 7
(Frame/Signal ground verified by VOM).

Software: TNC Commands set as such (only ones I did)

```
MYC MED-1
MYR KU0G-15
(I set the p/w but not going to list it here)
GPSHEAD 1 $GPRMC
GPSHEAD 2 $GPGGA
GPSHEAD 3 $GPGLL
(nothing on GPSH 4)

LTP 1 APRS V RELAY,WIDE,WIDE
LTP 2 APRS V RELAY,WIDE,WIDE
LTP 3 APRS V RELAY,WIDE,WIDE

BTEXT {a}KU0G-15 Wheels to Weston Bike Ride 1996

B E 10

INT GPS
```

At this point I shut off TNC and restarted to initiate GPS mode.

What's wrong? I've GOT to make this unit operationaly by midnight tonight!!!!
I'd pay real money (a figure of speech, of course) for some serious expertise!!!

Would prefer a collect call so I can be working with the TNC while we talk!!!

(816) 746-9205 Say who you are and your ham call and I'll accept the
charges....

Thanks for your help, in advance!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator

EMail: ku0g@sprynet.com

---

513. Need Assist HF APRS Baud Rate

From: Farrell Winder <fwinder@one.net>
Date: Sat, 15 Jun 1996 14:25:52 -0400
To: aprssig@tapr.org
Message-ID: <199606151825.OAA14754@mail.one.net>
Rendered body type: text/plain

Appreciate assist in setting in baud rate for HF. Want to set for 300 but apparently have 4800 in system and cannot receive intelligent info. APRS HF seems to be different than VHF where prompt asks for baud rate. What command do I enter to set baud? Is it straightforward from this point? Many thanks. Farrell W8ZCF.

---

514. Re: [APRSSIG:1980] WinAPRS and OS/2 Warp

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sat, 15 Jun 96 15:08:30 EDT
To: aprssig@tapr.org
Message-ID: <199606151908.TAA39200@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Sat, 15 Jun 1996 13:22:06 -0500 (CDT) you wrote:

>I tried WinAPRS with OS/2 Warp and got an
>error message: "unexpected DOS error 23"
>
>OS/2 Warp can deal with win32s up to version 1.25.
>Does WinAPRS actually require win32s 1.30 to operate
>or can it be coerced into running with 1.25?
>

More info...

I screwed up by assuming win32s 1.25 was installed on the computer in the above test of WinAPRS. It wasn't!

I copied WinAPRS to another OS/2 machine which happily runs a couple of other win32s programs. The results were completely different this time: WinAPRS locked up the computer so tight even ctrl-alt-del wouldn't reboot it!

I'm casting my vote for a native OS/2 port of WinAPRS.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

515. Re: [APRSSIG:1977] GPS20 questions

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 15 Jun 1996 14:33:43 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ade8bed79340@[199.1.11.141]>
Rendered body type: text/plain

> I moved
>it outside and have used both the "Blackjack" antenna and one of Bob's
>suggested 1.8" wire. The satellite data seems to be incomplete.

As posted before may take up to 15-20 min to update sat data base.
I waited 30+ min with a Garmin-45 once.

>seems to be about 3 minutes slow according to my watch which is usually
>within 30 seconds or so of WWV.
>

The time may not update from internal clock to GPS time until you get a good GPS fix.

Run the NMEA data stream into bob's sig plot or MAC/Win aprs to see a heads up display.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

516. Re: [APRSSIG:1976] Re: HOW ACCURATE is the clock?

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 15 Jun 96 16:24:44 -0400
To: <aprssig@tapr.org>
Message-ID: <199606152021.QAA06804@bridge.net>
Rendered body type: text/plain

```
>Er, ah... 'Fraid not.  The solution for a GPS position is a spheroid of
>probability.  Knowledge of the pseudorange of a satellite, based on almanac,
>ephemeris and clock solutions, yields a probability that you are on the
>surface of a sphere around the satellite.  intersection of that sphere with
>the earth's surface yields an approximate ellipse of positional probability.
>Adding a second satellite to the solution matrix places you within a
>volume of
>probability  defined by the intersection of the spheres associated with
>pseudorange solutions for the 2 satellites. Resolution of the solution to
>a 2D
>position requires a third satellite, while resolution of the Z axis component
>requires a fourth.  Even with precise time definition, you cannot resolve 2D
>fixes with 2 satellites...  Sorry.

Upon further reflection, I retract my statement, but I do take exception
to one point you make. If the receiving station had an accurate atomic
clock, the fixes would not be pseudoranges, but true ranges. There is no
probability involved. The intersection between the two range spheres
would be a circle, intesecting that with the earth would give two points,
so yes, you would need a third satellite to decide which one.

Steve
```

517. Re: [APRSSIG:1977] GPS20 questions

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 15 Jun 96 16:37:09 -0400
To: <aprssig@tapr.org>
Message-ID: <199606152034.QAA15154@bridge.net>
Rendered body type: text/plain

```
>It seems to be finding satellites but will not come up with a fix.  I moved
>it outside and have used both the "Blackjack" antenna and one of Bob's
>suggested 1.8" wire.  The satellite data seems to be incomplete.  The
>documentation for the GPGSV message says the SNR will be null if the
>satellite is not being tracked.  Some are this way but others are also
>missing the elevation.  Some have SNR but no elevation.  Also, the time
>seems to be about 3 minutes slow according to my watch which is usually
>within 30 seconds or so of WWV.

How long did you wait? It took my units more than ten minutes to get get
the initial fix. Since the unit doesn't know where it is, it doesn't know
which satellites are in view, so it has to search for all of them. Since
it is a single channel unit, it takes a while. Sooner or later it will
find one, and then it will set it's clock with the correct time.

If you hooked up the RS-232 input you can give it an initial position and
time that will speed up the process.

So far I'm not too impressed. These units seem to have a problem when one
satellite it is using is lost from view. Rather than immediately
switching to another satellite, it seems to use a warm start procedure,
takes 15-30 seconds to lock on again. I drove downtown, with frequent
occultations by the buildings, only got data maybe 25% of the time,
verses 100% with my Motorola 6 channel parallel rx.

Another quirk, the unit seems to suffer from 'grade inflation'. When the
SNR drops to 33 on a satellite, it is lost. The Motorola tracks down to
the 10 or 11. Most of the time I get SNRs in the mid 40's when I have a
clear sky view.

Steve KO4HD
```

518. Re: [APRSSIG:1981] Need Help with Stand-Alone Tracker!!!

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 15 Jun 96 16:39:48 -0400

To: <aprssig@tapr.org>
Message-ID: <199606152037.QAA16988@bridge.net>
Rendered body type: text/plain

```
..
>
>At this point I shut off TNC and restarted to initiate GPS mode.
>
>What's wrong?  I've GOT to make this unit operationaly by midnight
>tonight!!!!
>I'd pay real money (a figure of speech, of course) for some serious
>expertise!!!
>

Did you set the GPS beacon frequency?

BLT 1 e 00:02:00
BLT 2 e ....

etc.


Steve
```

---

519. More serial Port help needed!

From: w2g3zfj@unix.asb.com (bob)
Date: Sat, 15 Jun 1996 16:41:20 -0400
To: aprssig@tapr.org
Message-ID: <199606152050.QAA06172@unix.asb.com>
Rendered body type: text/plain

```
Further to my original message. I have an extra I/O card on which I have
disabled the FDC, HDC, Parallel Port and Games Port. I have set Serial 1 to
com3 (3e8, IRQ5) and serial 2 is disabled. The basic system has com1/2 at
the normal addresses and irq's. Win95 finds the port but assigns irq4 to it
and it won't let me edit the IRQ number. As you would expect the system
doesn't work!

If I set the com3 port to irq4 then it does work under Hyperterminal and
Procomm Plus but when I run winAPRS it won't read any data from com3 (and my
Ultimeter II).

My question is why won't com3 work at 3E8 and IRQ 5? Is it to do with IRQ5
normally being used for LPT2? Anyone got any ideas?

Any help appreciated

Thanks again

de bob w2/g3zfj
w2g3zfj@unix.asb.com


>Hi There
>
>I want to hook up my Ultimeter II to my PC to work under win95. Now I know
>that winAPRS can work with any serial port however I'm not sure where I can
>get an extra serial card to work on com5 etc. I've had a look round the
>local computer shows but no joy. Anyone got any ideas? Is it possible to
>modify a standard serial card to work at another address? Do I need a TSR
>program to run the extra serial cards?
>
>Any help appreciated
>
>BTW any word on an upgrade/bug fix for winAPRS?
>
>73 de bob w2/g3zfj
>w2g3zfj@unix.asb.com
>
>
>
```

---

520. Map Builders

From: William Nolle <wnolle@ix.netcom.com>
Date: Sat, 15 Jun 1996 15:57:13 -0700
To: aprssig@tapr.org
Message-ID: <31C33FC9.2740@ix.netcom.com>
Rendered body type: text/plain

For those Map builders on the sig, i just uploaded a file named DLGVIEW it allows you to look at any of your CD files before actually making a map of it. This is great to see how populated the area is that your going to make the maps of. I did some playing with it and took a file for Huntsville,Alabama of 3.5 meg and it didn't have any problem with showing the all the roads in the city. I attempted to chain all the files (Raods,Hydro,etc together using COPY but it didn't like that. There is a text file with the file i uploaded so you can read it first altough the file is not that large. One thing you will have to do is add a .DLG extension to the files you want to look at. Hope it will be of some use to you map builders.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

521. Re: [APRSSIG:1844] Re: WINAPRS 'features'?

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 15 Jun 1996 17:05:37
To: APRSSIG@tapr.org
Message-ID: <199606152105.RAA17847@mail-e2b-service.gnn.com>
Rendered body type: text/plain

On Tue, 11 Jun 1996 Sam Nabkey, WJ8T wrote:

>
>The lockup people talk about . . . Seems to be related to the fact that there is no Map Window OPEN. I close all maps windows and at the next Packet RX, I get an Unhandled Execption error.

to which Keith Sproul replied on Wed, 12 Jun 1996:

>This is a CONFIRMED bug and has been fixed.
>Until the next release, keep at least one window open.

That's what I thought at first. I often left WinAPRS up when I went to work. One day, before leaving the house, I checked the weather and WinAPRS was running fine. I closed the Weather List and it was still OK. The only other thing I did to the computer before leaving the house was to shut off the monitor. I arrived home to an "Unhandled Exception!" I suppose it's possible the cat jumped onto the keyboard while I was out, but he doesn't like my desk (no place to lie down and nothing to eat.)

There are other things about WinAPRS I'm dissatisfied with which I've addressed before. I'll admit it looks VERY nice and has some high-tech features APRSDos (DosAPRS, whatever) lacks, but when it comes down to simple, basic utility and versatility I'm sorry to say I'm going to stick with The Original.

Sorry Mark and Keith but, although it does everything you say it'll do, when it comes down to brass tacks I HAVE to compare Apples and Grapes. IMHO (and please forgive me for this, as I've been supportive of your effort,) while WinAPRS will allow me to get the name and address (via C-D) of a station, show me MANY more stations than Bob's version currently will and has FABULOUS maps, there's no way to tell your program that I want this message to go to that station via anything but my beacon's unproto path, I can't FIND a station by typing in its callsign (or clicking on it from a list) and it can't even let me edit the maps to accomodate some special event (such as a marathon or similar course.)

I've supported Mark and Keith in their BETA efforts since the release of 0.2.0 and have thought the progress and improvements with each new one to be terrific. Since the release of WinAPRS 1.00, however, they have been relatively silent on the SIG about their brainchild. One hopes they are too busy addressing the comments that have been aired here and 1.04, 1.06 etc. will show me to be wrong. As I've never run and only once SEEN MacAPRS I don't know what it's current capabilities are or whether the issues I've raised have long since been solved in that more mature (and, supposedly, more stable) environment.

I LIKE WinAPRS! IT'S REAL PRETTY! As I've said before, I'm sure there'll be MANY more releases. APRS is one of those

programs the authors like to keep tinkering with ... not because it's broken, but because there's something else they'd
like to add to it. Please prove me wrong in my opinion, guys!
73 de

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if
necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"Target those coordinates and fire quantum torpedoes....."

---

522. Re: [APRSSIG:1980] WinAPRS and OS/2 Warp

From: msproul@arn.net (ML Sproul)
Date: Sat, 15 Jun 1996 19:13:12 -0500
To: aprssig@tapr.org
Message-ID: <v01540b00ade900447a21@[207.19.1.70]>
Rendered body type: text/plain

At 1:22 PM 6/15/96, Dale Heatherington wrote:
>I tried WinAPRS with OS/2 Warp and got an
>error message: "unexpected DOS error 23"
>
>OS/2 Warp can deal with win32s up to version 1.25.
>Does WinAPRS actually require win32s 1.30 to operate
>or can it be coerced into running with 1.25?
>

According to all of the test info that I have, WinAPRS requires Win32S 1.3
All testing with 1.25 has proved that it does not work. I have not been
able to find anyone with enough OS/2 experiance that understands the
difference between 1.25 and 1.3 to figure out what is going on with 1.25.

Mark Sproul
(temporally in Texas at my Dad's house)

M. L. "Maury" Sproul |Work 806-477-7254
W5UGQ |Home 806-354-0306
msproul@arn.net
Amarillo, TX

---

523. Re: [APRSSIG:1977] GPS20 questions

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Sat, 15 Jun 1996 15:54:22 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960615155028.26671A-100000@cks>
Rendered body type: text/plain

I agree with Assi's answer to your time/fix problem, having exprienced the
same thing...you have to be patient and wait for the unit to discover
where it is by building an almanac. It took me two hours of playing to
discover that the unit simply has to see enough satellites to acquire the
almanac. Then it'll work great. My problem was I didn't have an adequate
antenna at first.

Frank McJunkins K7RSD fmcjunki@cks.ssd.k12.wa.us FAX: (206) 545-7916

---

524. Re: [APRSSIG:1981] Need Help with Stand-Alone Tracker!!!

From: "Daniel G. Morgan" <kml@conknet.com>
Date: Sat, 15 Jun 1996 19:03:57 +0000
To: aprssig@tapr.org
Message-ID: <31C3091D.3259@conknet.com>
Rendered body type: text/plain

HI Joe, I Think you must also set the BLT for each of the LT's

ie: BLT 1 EVERY 00:01:10
    BLT 2 EVERY 00:05:00   etc
This would set Buffer 1 to beacon every 1 minute 10 seconds and
Buffer 2 every 5 minutes 0 seconds etc.

Check the "Setting Parmeters in the KPC-3" for the info.

73 Dan,W1UR

525. Re: [APRSSIG:1977] GPS20 questions

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 15 Jun 1996 19:35:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606160035.TAA02747@solar.cs.tamu.edu>
Rendered body type: text/plain

```
It's saying it has not found the birds.  How long did you have it up with the
Blackjsck antenna (I remain skeptical of the 1/4-wave for relatively deaf
receivers...)?  I believe it diesn't know where it is, and will have to
acquire its birds via "skysearch" where it looks for up to 30 minutes to find
adequate satellites.

73, gerry
```

---

526. Got 'em working!

From: ku0g@sprynet.com
Date: Sat, 15 Jun 1996 14:51:21 -0700
To: APRSSIG@tapr.org
Message-ID: <199606152151.OAA22609@m1.sprynet.com>
Rendered body type: text/plain

```
Thanks to WJ8T and N4NEQ for the long distance help line!!!
The tracker is now working!!!  To anyone else who is getting ready to call and
offer help, THANKS for your consideration, but I am no longer accepting the
collect calls!!!  Thanks everybody....

BTW:  I'll be posting the track history file of the Bike Ride late Sunday night
or early Monday morning!  Enjoy!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

527. Re: [APRSSIG:1979] Re: GPS20 questions

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 15 Jun 1996 19:40:10 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606160040.TAA02790@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Ben-Shalom Assi sez:
>
> Everything was ok only when I put it outside with a good antenna for a
> couple of hours, it take it time to build the initial Almanac.
> As to the clock, the time you see is factory set, when you will have
> a fix the clock will be reset by the satellites.

After it gets a good lock on a satellite, even one, it should have a complete
almanac in 13 minutes.  It still thinks it's in Kansas, though, so it's
looking for the wrong satellites.  After it figures out that not all PRNs are
available (PRN 12, the last of the Block 1 birds was "healthed out" a couple
of months ago... more's the pity) it still looks for birds based on its last
fix.  After *that* times out, it starts looking through the whole sky for
anything, and builds an idea of where it is from there.

> When I got mine it was 6 minutes off GMT but after getting a fix
> everything was ok.
That's a little excessive, but acceptable for an initial setup, I guess.  I'll
have to look at the Trimble and Motorola receivers and see what their
power-off latency and drift are.

73, gerry
```

---

528. Re: [APRSSIG:1983] Re: WinAPRS and OS/2 Warp

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 15 Jun 1996 19:41:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606160041.TAA02802@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Dale Heatherington sez:
>
> I'm casting my vote for a native OS/2 port of WinAPRS.

Here, hear!  Me too.

gerry
```

529. Re: [APRSSIG:1985] Re: HOW ACCURATE is the clock?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 15 Jun 1996 19:48:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606160048.TAA02854@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Steve Dimse sez:
>
> Upon further reflection, I retract my statement, but I do take exception
> to one point you make. If the receiving station had an accurate atomic
> clock, the fixes would not be pseudoranges, but true ranges. There is no
> probability involved. The intersection between the two range spheres
> would be a circle, intesecting that with the earth would give two points,
> so yes, you would need a third satellite to decide which one.

Nope, they'd still be pseudoranges.  The ephemeris is not precise, but
propagated at the point you receive it, so the data are an estimation.  When
you post-process the data for high-precision/high-accuracy work, one element
is to get the precise ephemeris data from NAVCEN, UNAVCO, GSFC, Scripps, or
Bern and recalculate the data based on where the satellite REALLY was.  Then
you apply the base station corrections to the new, more precise, pseudorange
solutions, and go on.

What you WOULD have would be a better mechanism to resolve integer ambiguity
in determining which precise wavelength of the signal arrived (phase
measurement).  This would provide a more precise solution than one with
remaining integer ambiguity, where the receiver merely guessed at the integer
solution and used it for the next N period of time.

Finally, just as orbits should always be thought of as ellipses, so should the
position solutions be considered as intersections of individual ellipsoids.
It's hard to achieve a perfect circle or sphere!

73, gerry
```

---

530. Re: [APRSSIG:1991] Re: WinAPRS and OS/2 Warp

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 15 Jun 1996 19:53:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606160053.TAA02899@solar.cs.tamu.edu>
Rendered body type: text/plain

```
ML Sproul sez:
>
> According to all of the test info that I have, WinAPRS requires Win32S 1.3
> All testing with 1.25 has proved that it does not work.  I have not been
> able to find anyone with enough OS/2 experiance that understands the
> difference between 1.25 and 1.3 to figure out what is going on with 1.25.

Unfortunately, Microsoft "enhanced" Win32S v1.3 sinificantly, and has not
released all the "enhancements."  What I've been told is that the Merlin beta
release of OS/2 should fix the latest level of induced incompatibility...

73 gerry

ps... interested in an attempt at compiling it on a native OS/2 compiler?

gerry
```

---

531. Re: [APRSSIG:1997] Re: WinAPRS and OS/2 Warp

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sat, 15 Jun 1996 20:19:34 -0500
To: aprssig@tapr.org
Message-ID: <31C36126.690D@web-access.net>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> Dale Heatherington sez:
> >
> > I'm casting my vote for a native OS/2 port of WinAPRS.
>
> Here, hear!  Me too.
>
> gerry

OK, I can't stand it any longer  ;-)
```

```
Let's go for a port to a REAL opsys WinNT.
Been running it for over a year, and I'll
take it over OS/2 any day.  I used Warp 3.0
for a while and finally gave up when trying
to get MSYS 1.15 to run consistently under it.

With NT3.51, MSYS 1.15 runs well, with NO hiccups!

Please no flames...  <g>

Dale.
dseaburg@web-access.net
```

532. Re: [APRSSIG:1993] Re: Need Help with Stand-Alone Tracker!!!

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 15 Jun 1996 22:32:35 -0000
To: aprssig@tapr.org
Message-ID: <199606160232.VAA12531@tapr.org>
Rendered body type: text/plain

```
On 15 Jun 96 at 19:46, Daniel G. Morgan wrote:

> HI Joe, I Think you must also set the BLT for each of the LT's
>
> ie: BLT 1 EVERY 00:01:10
>     BLT 2 EVERY 00:05:00   etc
> This would set Buffer 1 to beacon every  1 minute 10 seconds and
> Buffer 2 every 5 minutes 0 seconds  etc.
>
> Check the "Setting Parmeters in the KPC-3" for the info.
>
> 73 Dan,W1UR
>

He gave a Clue in his message that brought me to the answer.

Jim had forgotten that the $GPGGA and etc. needed to be capitolized.

Even though he didn't mention the BLT stuff,  the clue was he wasn't
saving any Buffers either.  SO those buffers need to be filled to be
sent and they don't get filled unitl the GPSHEAD string is a match.

IF the GPS sent out $gpgga and whatever, then all would have been
well.

REMEMBER: the GPSHEAD strings on a KPC-3 MUST be set to all Caps. or
it won't be accepted into the Buffers for transmit.

73 de Sam
```

533. RE: [APRSSIG:2000] Re: WinAPRS and OS/2 Warp

From: Willson Flor <willf@rrgroup.com>
Date: Sat, 15 Jun 1996 21:56:23 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960616025623Z-1160@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
You wrote:
>----------
>From:  Dale Seaburg[SMTP:dseaburg@web-access.net]
>Sent:  Saturday, June 15, 1996 8:41 PM
>To:    aprssig@tapr.org
>Subject:       [APRSSIG:2000] Re: WinAPRS and OS/2 Warp
>
>
>>Let's go for a port to a REAL opsys WinNT.

No port is necessary - WinAPRS runs quite well under
NT right now and, in fact, is a native NT application and
was developed by the Brothers Sproul on NT.  I use
NT almost exclusively, like OS/2 and the Mac fine, but
detest Windows 95 (not enough to intentionally misspell
it, though)

73 de KB9JTT

>
```

534. U 2000 Hookup

From: WB9WOZ@aol.com
Date: Sat, 15 Jun 1996 23:12:17 -0400
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <960615231214_415053844@emout14.mail.aol.com>
Rendered body type: text/plain

```
Ok all you WX guys out there.
Rich, K9LBO has a U-2000. He has 2 com ports. Mouse on one & tnc on the
other.
How does he hook up the 2000 ? Does he need another com port ?

Please send replies direct to him---  rstahl@thor.pla-net.net

Helping a fellow ham is what its all about !!!
73's
Bruce Tobias
WB9WOZ
```

---

535. Re: [APRSSIG:2002] Re: WinAPRS and OS/2 Warp

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sat, 15 Jun 1996 22:22:42 -0500
To: aprssig@tapr.org
Message-ID: <31C37E02.2835@web-access.net>
Rendered body type: text/plain

```
Willson Flor wrote:
>
> You wrote:
> >----------
> >From:  Dale Seaburg[SMTP:dseaburg@web-access.net]
> >Sent:  Saturday, June 15, 1996 8:41 PM
> >To:    aprssig@tapr.org
> >Subject:       [APRSSIG:2000] Re: WinAPRS and OS/2 Warp
> >
> >
> >>Let's go for a port to a REAL opsys WinNT.
>
> No port is necessary - WinAPRS runs quite well under
> NT right now and, in fact, is a native NT application and
> was developed by the Brothers Sproul on NT.  I use
> NT almost exclusively, like OS/2 and the Mac fine, but
> detest Windows 95 (not enough to intentionally misspell
> it, though)
>
> 73 de KB9JTT
>
> >

I must confess that I have not run WinAPRS as of yet, so forgive
my ignorance.  Nice to know that someone is developing software
on a "real" OS...  Now, I'll have to try it!  :-)

Thanks for the info.

Dale.  KG5LT
```

---

536. Problem receiving Messages with -14 call

From: "David R. Freels" <freelsdr@bright.net>
Date: Sat, 15 Jun 1996 23:25:00 -0400
To: aprssig@tapr.org
Message-ID: <31C37E8C.43D3@bright.net>
Rendered body type: text/plain

```
Hello Name here is David.
        I have been having trouble with sending and receiving ack's from messages.
I run a -14 when running mobile and my wide area digi is -10. If someone tries to
send me a message to either of these call's. It will not ack them. If I drop the
-14 or the -10 on the digi, everything works just fine. The digi's tnc is a
pk232mbx and the mobile is a Kam Plus. I have tried resetting both to factory
default. Then set the sceen length to 0 and all line feeds off. I thought that it
might have been the path but if I drop the -10 or -14 it ack's everytime.
I am not the only one with this problem. Thanks for the help!
freelsdr@bright.net
ka8zge@amsat.org
David Freels
```

---

537. Re: [APRSSIG:1988] More serial Port help needed!

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 16 Jun 1996 00:33:10 -0500
To: aprssig@tapr.org
Message-ID: <199606160533.AAA18084@misha.net>
Rendered body type: text/plain

```
>Further to my original message. I have an extra I/O card on which I have
>disabled the FDC, HDC, Parallel Port and Games Port. I have set Serial 1 to
>com3 (3e8, IRQ5) and serial 2 is disabled. The basic system has com1/2 at
>the normal addresses and irq's. Win95 finds the port but assigns irq4 to it
>and it won't let me edit the IRQ number. As you would expect the system
>doesn't work!
>
>If I set the com3 port to irq4 then it does work under Hyperterminal and
>Procomm Plus but when I run winAPRS it won't read any data from com3 (and my
>Ultimeter II).
>
>My question is why won't com3 work at 3E8 and IRQ 5? Is it to do with IRQ5
>normally being used for LPT2? Anyone got any ideas?
>
You also have to look at and check the INTERUPTS, I have 4 com ports active
and WIN 95 had a fit with it for a time. I found out my motherboard took
control of which interupt the video card had. Then it and Win95 proceeded to
dole out the other interupts etc. When I got to setting the 4th port for my
KPC-3 to use I was having lots of fits. I had to investigate what devices
where using what interupts and compare that to what was available and that I
could move about. USE CAUTION HERE!!!!
  This is not nessecarily a Win95 problem, if anything, I was about
manipulate these a bit till I got it all to work.
  Again    USE CAUTION as you can lock your PC up!!!!

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

538. Re: [APRSSIG:1952] winAPRS/win95, extra serial ports.

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 16 Jun 1996 00:33:12 -0500
To: aprssig@tapr.org
Message-ID: <199606160533.AAA18086@misha.net>
Rendered body type: text/plain

```
>I want to hook up my Ultimeter II to my PC to work under win95. Now I know
>that winAPRS can work with any serial port however I'm not sure where I can
>get an extra serial card to work on com5 etc. I've had a look round the
>local computer shows but no joy. Anyone got any ideas? Is it possible to
>modify a standard serial card to work at another address? Do I need a TSR
>program to run the extra serial cards?

  I dont know that you can go beyond COM 4 with standard serial cards. I do
know that you can buy Multi-Port serial cards with 8 or 16 ports on them.
They are commonly used for BBS's. They use a driver that assigns all the
ports etc. These can be VERY Expensive unless you can find them used someplace.
  I bought my serial card from a Computer City store, it works fine with my
Pentium and Win95.

Hope this info helps, 73

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

539. Re: [APRSSIG:1976] Re: HOW ACCURATE is the clock?

From: Filippidis Charalampos <sv1dkz@hol.gr>
Date: Sun, 16 Jun 1996 11:13:14 -0200 (GMT)
To: aprssig@tapr.org
Message-ID: <199606161313.LAA06113@prometheus.hol.gr>
Rendered body type: text/plain

[Empty message body]

540. Re: [APRSSIG:2000] Re: WinAPRS and OS/2 Warp

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 16 Jun 1996 07:59:31 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606161259.HAA06870@solar.cs.tamu.edu>
Rendered body type: text/plain

Dale Seaburg sez:
>
> OK, I can't stand it any longer ;-)
>
> Let's go for a port to a REAL opsys WinNT.
> Been running it for over a year, and I'll
> take it over OS/2 any day. I used Warp 3.0
> for a while and finally gave up when trying
> to get MSYS 1.15 to run consistently under it.

I've decided that Windoze 9x is not a direction I want to go. We are runing Nt 3.51 at the office as the platform of choice and it does quite nicely. Me? Since I inhereted the runt machine of the litter at the office, I'm running Warp, and it just does everything in 16 MB that the NT boxes are trying to do in 32...

Of course, I didn't have to try to get MSYS up...

gerry

ps... I don't get NEARLY as many GPFs with NT as I got with Win311. Usually about one a day with NT, using NT-specific software. Haven't seen that with Warp yet.

---

541. Re: [APRSSIG:1981] Need Help with Stand-Alone Tracker!!!

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sun, 16 Jun 1996 07:07:42 -0500
To: aprssig@tapr.org, ku0g@sprynet.com
Message-ID: <9606160707.AA42948@oscar.telalink.net>
Rendered body type: text/plain

You did not show the following info in your messege. You have to tell the KPC-3 how often to beacon the buffers. BLT 2 is set up so that BLT1 and 2 are reporting every two minutes with the data but a minute apart.

```
BLT
1 EVERY 00:02:00
2 EVERY 00:02:00 STARTING AT 00:01:00
3 EVERY 00:10:30
```

I hope this helps,

Bruce

> I bought a KPC-3 (v 6.0 firmware) yesterday. Building a
> stand-alone tracker for bike ride tomorrow (Sunday). Here's the
> scoop....
>
> The GPS is sending its data to the TNC but the TNC is not accepting
> it (apparently). TNC IS sending its normal beacon and ID OK.
>
> I look at LT and all four buffers have nothing in them.
>
> I followed the Kantronics docs on how to set up for GPS operation.
> Here's what I did....
>
> Hardware: GPS-45 yellow (brown) wire to pin 2 on TNC, black (ground)
> to pin 7 (Frame/Signal ground verified by VOM).
>
> Software: TNC Commands set as such (only ones I did)
>
> MYC MED-1
> MYR KU0G-15
> (I set the p/w but not going to list it here) GPSHEAD 1 $GPRMC
> GPSHEAD 2 $GPGGA
> GPSHEAD 3 $GPGLL
> (nothing on GPSH 4)
>
> LTP 1 APRS V RELAY,WIDE,WIDE
> LTP 2 APRS V RELAY,WIDE,WIDE
> LTP 3 APRS V RELAY,WIDE,WIDE
>
> BTEXT {a}KU0G-15 Wheels to Weston Bike Ride 1996
>
> B E 10
>
> INT GPS

```
>
> At this point I shut off TNC and restarted to initiate GPS mode.
>
> What's wrong?  I've GOT to make this unit operationaly by midnight
> tonight!!!!
> I'd pay real money (a figure of speech, of course) for some
> serious expertise!!!
>
> Would prefer a collect call so I can be working with the TNC while we
> talk!!!
>
> (816) 746-9205   Say who you are and your ham call and I'll accept
> the charges....
>
>
> Thanks for your help, in advance!
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
>
>



--
***********************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net           *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                           *
* Hermitage TN  37076-2650                                            *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W           *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W              *
* URL:  http://www.telalink.net/~martinbw/home.html                   *
*        ftp://ftp.telalink.net/users/m/martinbw/ftp/incoming/        *
*    I have a 486DX33 to play games and run some HAM programs,        *
*        when I want to do serious work I use a Macintosh.      0-    *
***********************************************************************
```

542. Re: [APRSSIG:2007] Re: winAPRS/win95, extra serial ports.

From: "Edward D. Tune" <autotune@sinfo.net>
Date: Sun, 16 Jun 1996 08:03:45 -0400
To: aprssig@tapr.org
Message-ID: <199606161203.IAA17915@ns.sinfo.net>
Rendered body type: text/plain

```
Will agree that the a large number of comm ports can be expensive. I run the
Digiboard 8ei which give me an additional 8 comm ports (10 total). The Digi's
(they have 4's, 8's and 16's) operate using 1 IRQ and a 64k block of memory.
All data is transfered thru that block. The board has an on-board processor
that further sends it on its way to the proper port. I have been using mine
to run several modems for a land-line BBS. Cost, through BBS Solutions, was
$601. There are additions that can be purchased. You can go to 'RJ' style
connectors or DB-9's or 25's. They are also very nice in creating a small LAN
but I have never used mine in that way. Installation took about 5 minutes for
the card and 2 minutes for the software. Getting ready to add a second one!

73's fm Panama                   Otto, HP1XNE/KV7J
```

543. USGS FILES

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 16 Jun 1996 06:07:49 -0700
To: aprssig@tapr.org
Message-ID: <31C40725.43DB@ix.netcom.com>
Rendered body type: text/plain

```
Question, are the 100k opt data files on USGS still usable since they
changed format a while back?. If so they need to be unblocked, they
reccomend CHOP.ZIP but i haven't been able to make that work for some
reason (Probably giving it the wrong command). I know UNBLOCK.BAS is
listed on tapr but tapr seams to be down and i haven't been able to
access it for a while again.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

544. Re: [APRSSIG:2007] Re: winAPRS/win95, extra serial ports.

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 16 Jun 1996 07:06:10 -0500
To: aprssig@tapr.org
Message-ID: <199606161206.HAA13050@tbc1.tbcnet.com>
Rendered body type: text/plain

```
My 386 has a buss mouse adapter card in it, set for IRQ 5, which freed up
the serial ports for tnc/U-II.  Got the adapter card at a hamfest for 19$.
Now I can run APRSdos/WinAPRS with a U-II, and still have a mouse.

73

Barry

At 00:40 6/16/96 -0500, you wrote:
>>I want to hook up my Ultimeter II to my PC to work under win95. Now I know
>>that winAPRS can work with any serial port however I'm not sure where I can
>>get an extra serial card to work on com5 etc. I've had a look round the
>>local computer shows but no joy. Anyone got any ideas? Is it possible to
>>modify a standard serial card to work at another address? Do I need a TSR
>>program to run the extra serial cards?
>
>  I dont know that you can go beyond COM 4 with standard serial cards. I do
>know that you can buy Multi-Port serial cards with 8 or 16 ports on them.
>They are commonly used for BBS's. They use a driver that assigns all the
>ports etc. These can be VERY Expensive unless you can find them used
someplace.
>  I bought my serial card from a Computer City store, it works fine with my
>Pentium and Win95.
>
>Hope this info helps, 73
>
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@misha.net
>E-Mail Work: rsellers@snds.com
>
-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

545. APRSdos map limits

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 16 Jun 1996 10:04:36 -0400 (EDT)
To: Carolyn Cavanagh <cjcavanagh@msn.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960616095926.16803D-100000@arctic>
Rendered body type: text/plain

```
Jack Cavanagh asked about the exact 3000 limit in APRSdos maps.  Here is
the scoop...

The 2999 limit is the array size.
0,0        *  These two lines are combined into one array location
7,name     *  The 0,0 and 7,name  combine to 0,7 in the array
x,y
x,y

That is why you can have no X values of zero, since it will look like a
new line...

de wb4apr@amsat.org
```

546. (no subject)

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 16 Jun 1996 09:12:47 -0500
To: aprssig@tapr.org
Message-ID: <199606161412.JAA14371@tbc1.tbcnet.com>
Rendered body type: text/plain

```
APRS users in the No IL area may like to go directly to the ftp site at:

ftp.tbcnet.com/pub/jleonard

for APRS76D.ZIP, maps for the area, and some DLG map aids, thx to Bill
Nolle/EER.
```

73 and hope 2 CU on FD

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

---

547. GPS20 questions

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Sun, 16 Jun 1996 09:17:12 -0500
To: aprssig@tapr.org
Message-ID: <199606161422.JAA20766@sparc.isl.net>
Rendered body type: text/plain

Well, I guess I forgot to mention how long I waited since everyone asked me that! I set it outside for a good hour. The blackjack antenna was on it for probably 20 minutes or so. I wanted to give it time. Sounds like it needs even more.

When I first started it, it was cycling through the birds, one at a time. I took that to be "searching the sky". Eventually, it ended up with the two lines of 8 satellites that I put in my earlier note. I interpretted that as having finished the search. I'll set it out for a longer period and see what happens.

73.
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

---

548. Re: [APRSSIG:1998] Re: HOW ACCURATE is the clock?

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 16 Jun 96 08:20:44 -0400
To: <aprssig@tapr.org>
Message-ID: <199606161217.IAA18115@bridge.net>
Rendered body type: text/plain

>Finally, just as orbits should always be thought of as ellipses, so should
>the
>position solutions be considered as intersections of individual ellipsoids.
>It's hard to achieve a perfect circle or sphere!

But if you are talking about ranges or pseudoranges from a satellite, that is a theoretical construct, and therefore easy to make a sphere or circle...unless you are implying that radio signals propagate through the 'ether' at different speeds in different directions. I'm pretty sure Einstein et. al. settled that!

---

549. Re: Bulletins

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 16 Jun 1996 10:25:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960616101522.16803G-100000@arctic>
Rendered body type: text/plain

On Sun, 16 Jun 1996, someone wrote:

> Bob, We have several users in XXXXX that are using Bulletins to advertise
> their mailbox for skywarn info. It's up there week in week out and gets
> anoying after a while, specially since they use Digi,Digi,Wide.

APRSdos REPLY COMMENT: This is a problem. We have several EGO bulletins in our area too. Most of these Bulletins should be BEACONS. APRS was designed with two primary screens, the MAP and the LATEST BEACONS page (more got added later). The map shows posits and the LATEST BEACON page shows you the ONE-LINE status or BEACON from each station. Look at the LATEST BEACON page for a one page summary of what EVERY station is doing.

On the Naval Academy boats, the crews are required to update their BEACONS once every 4 hour watch. Then the duty officer at the Academy can see at a glance the status of all boats on the LATEST BEACON page.

I do not get the feeling that HAMS are using the BEACONS as their ONE-LINE BULLETIN to the WORLD as it should be...

de wb4apr@amsat.org

---

550. Re: [APRSSIG:2004] Re: WinAPRS and OS/2 Warp

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sun, 16 Jun 96 10:35:48 EDT
To: aprssig@tapr.org
Message-ID: <199606161436.OAA08067@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Sat, 15 Jun 1996 22:25:01 -0500 (CDT) you wrote:>> >
>> >>Let's go for a port to a REAL opsys WinNT.
>>
>> No port is necessary - WinAPRS runs quite well under
>> NT right now and, in fact, is a native NT application and
>> was developed by the Brothers Sproul on NT.  I use
>> NT almost exclusively, like OS/2 and the Mac fine, but
>> detest Windows 95 (not enough to intentionally misspell
>> it, though)
>>
>> 73 de KB9JTT
>>
>> >
>
>I must confess that I have not run WinAPRS as of yet, so forgive
>my ignorance.  Nice to know that someone is developing software
>on a "real" OS...  Now, I'll have to try it!  :-)



For information on another "real" operating system
goto:

http://www.austin.ibm.com/pspinfo/os2.html



Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.
```

---

551. DFjr & APRS

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 16 Jun 1996 09:49:25 -0700
To: aprssig@tapr.org
Message-ID: <31C43B15.38D8@ix.netcom.com>
Rendered body type: text/plain

```
Is anyone using the DFjr with APRS and GPS yet. I would think by now some
of the beta testers would have something (Good or Bad) to say about the
system, specially after the antenna problem. I am still waiting for mine
after nearly 5 weeks now. I asked if they where realy truly shipping any,
but never got an answer to that part of my question. Sure would like to
hear some feedback from those that actually used the DFjr rather then
just looking at the Agrelo web site picture Hi. Does it even work?. Guys
i'm not trying to start something here, but when shelling out that much
money for something i haven't heard anybody give any feedback on makes me
rather jittery. Now i know Agrelo will stand behind their equipment
that's not a problem, Just like to hear some real DF stories!, specially
the ones using APRS and GPS with it..
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

552. Re: [APRSSIG:1997] Re: WinAPRS and OS/2 Warp

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 16 Jun 96 08:16:44 -0400
To: <aprssig@tapr.org>
Message-ID: <199606161213.IAA17914@bridge.net>
Rendered body type: text/plain

```
>> I'm casting my vote for a native OS/2 port of WinAPRS.

Brings to mind a T-shirt I saw 6 years ago or so at MacWorld Expo...
```

PS/2...Yesterday's computers today....
OS/2...Today's operating system tomorrow...

I guess tomorrow got here ;-)

---

553. Re: [APRSSIG:1988] More serial Port help needed!

From: rkramer@cdx.net (Ronald Kramer)
Date: Sun, 16 Jun 1996 16:31:43 GMT
To: aprssig@tapr.org
Message-ID: <31c43276.197796875@mail.cdx.net>
Rendered body type: text/plain

```
On Sat, 15 Jun 1996 15:59:31 -0500 (CDT), you wrote:

>
>My question is why won't com3 work at 3E8 and IRQ 5? Is it to do with IRQ5
>normally being used for LPT2? Anyone got any ideas?
>
>Any help appreciated
>
>Thanks again
>
>de bob w2/g3zfj
>w2g3zfj@unix.asb.com
It will except with APRS, which will only recognizes irq 3 and irq 4
for com 3 and com 4.
Your best bet with win 95, seeing as win95 requires a com mouse
to be on com 1 or com 2 and will not recognize it on any other
com port is to put a buss mouse in the win95 machine, that way
you can use com 1 and com 2 for APRS with standard irq's
That is the only way I could get my system to function with
APRS   com 1, tnc,    com 2, U2000 , and bus mouse
hope that this helps you out

Regards, Ron ...                            73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

554. Re: [APRSSIG:2014] APRSdos map limits

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 16 Jun 1996 11:27:12 -0700
To: aprssig@tapr.org
Message-ID: <31C45200.2E2@ix.netcom.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Jack Cavanagh asked about the exact 3000 limit in APRSdos maps.  Here is
> the scoop...
>
> The 2999 limit is the array size.
> 0,0        *  These two lines are combined into one array location
> 7,name     *  The 0,0 and 7,name  combine to 0,7 in the array
> x,y
> x,y
>
> That is why you can have no X values of zero, since it will look like a
> new line...
>
> de wb4apr@amsat.orgI guess the reason jack was asking is because when i run the 100 map grid
about 6 or 8 of the maps showed as being over the 3000 point mark, after
loading them into mapfix most where under the 3000 point mark. He is trying
to fine tune the software.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

555. Re: GPS Home Page

From: clyde edgar <cedgar@pacificnet.net>
Date: Sun, 16 Jun 1996 09:24:36 -0700
To: aprssig@tapr.org
Message-ID: <199606161624.JAA28493@polaris.pacificnet.net>
Rendered body type: text/plain

I meant to forward this as well to the aprssig.
>Date: Sat, 15 Jun 1996 20:01:57
>To: Al Chan <alchan@ix10.ix.netcom.com>
>From: clyde edgar <cedgar@pacificnet.net>
>Subject: Re: GPS Home Page
>
>The GPS home page is maintained by the US Coast Guard. An excellent GPS web
page is maintained by the University of Texas,
(http://www.utexas.edu/depts/grg/gcraft/notes/gps/gps.html). There are links
on this home page to the USCG page. The atomic clocks are continuously
monitored by the US Naval Observatory which publishes the data daily on its
home page(http://tycho.usno.navy.mil/gps_datafiles.html). There is a
considerable amount of information available at the above sites. Good luck-
Clyde WA6DCM
>At 10:27 AM 6/15/96 -0700, you wrote:
>>
>>>>>There is a GPS home page on internet that contains a tremendous
>>amount of information on the system, I'll post it later. Clyde- WA6DCM<<<
>>
>>Clyde:
>>
>>Thanks for the reply and the info about the clock. You mentioned about a GPS
>>home page. I'd appreciate it very much if you'd let me know the www name.
>>
>>Thanks again.
>>
>> -al
>> ""
>>   alchan@ix.netcom.com
>>
>>
>>
>>
>

---

556. USGS Maps

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 16 Jun 1996 11:34:17 -0700
To: aprssig@tapr.org
Message-ID: <31C453A9.2F6E@ix.netcom.com>
Rendered body type: text/plain

Disregard all the bandwidth i took up with a message i posted before on
using the USGS data files, i finall figured out how to go about doing it
now. It has been so long since i downloaded those files that i forgot how
to handle them. I noticed one thing tough that the USGS files are slower
then taking them right from the CD. Bob if you need anymore help with
those Atlanta (City Maps) let me know i have all the data for it now.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

557. PK-12 Tracker Problems

From: BordingK@aol.com
Date: Sun, 16 Jun 1996 14:52:30 -0400
To: aprssig@tapr.org
Message-ID: <960616145229_415311922@emout10.mail.aol.com>
Rendered body type: text/plain

Another General Plea for Assistance:

1. Attempting to build a stand-alone GPS Tracker for the vehicle. Using AEA
PK-12 (with GPS ROM), Radio Shack HTX-202 HT, and Magellan Trailblazer GPS.
Device will not automatically transmit posits at the selected intervals.
 Same cable works with VISTA Moving Map software which reads NMEA data and
displays position.

2. As per the AEA PK-12 GPS instructions entered:
     a. MY KF4COH-9
     b. UN APRS via RELAY
     c. GLOCtx 2 (20 seconds)
     d. GNMEA1 $GPGLL
     e. GNMEA2 $ GPVTG
     f.   Then GPSMode 1

3. Following Troubleshooting and Results:

     a. Hooked same PK-12 and HT up to laptop running WinAPRS and it beacons
and sends Non-GPS posits at selected rate. Keys tranmitter and sends a
packet.

     b. Hooked the GPS up to a laptop running Windows Terminal program and
watched NMEA data flow by.

     c. Put it all n the car and nothing happens!

4. Any suggestions?

'73s
de KF4COH
Ken Bording,
Jacksonville, FL

---

558. Re: [APRSSIG:2001] Re: Need Help with Stand-Alone Tracker!!!

From: rwf <rwf@mindspring.com>
Date: Sun, 16 Jun 1996 15:11:53 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960616150934.22af065a@mindspring.com>
Rendered body type: text/plain

At 09:40 PM 6/15/96 -0500, Sam wrote:
>REMEMBER: the GPSHEAD strings on a KPC-3 MUST be set to all Caps. or
>it won't be accepted into the Buffers for transmit.

....and the GPS has to be set to output NMEA data correctly, too   ;-)

                 Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
      rwf@mindspring.com or n4neq@amsat.org
Atlanta, GA USA
      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and
APRS. Ask me how!

---

559. Re: [APRSSIG:2002] Re: WinAPRS and OS/2 Warp

From: rwf <rwf@mindspring.com>
Date: Sun, 16 Jun 1996 15:11:55 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960616150936.272ff1d0@mindspring.com>
Rendered body type: text/plain

At 10:01 PM 6/15/96 -0500, Wilson wrote:

>No port is necessary - WinAPRS runs quite well under
>NT right now and, in fact, is a native NT application and
>was developed by the Brothers Sproul on NT.

I understood it was developed by the Sprouls on a MACINTOSH and cross
compiled to 95 or NT.
I think they tested it on both platforms, but developed it on neither.
That's what I devived from their speech at Dayton.

                 Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
      rwf@mindspring.com or n4neq@amsat.org
Atlanta, GA USA
      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and
APRS. Ask me how!

---

560. Stamp controller for ICOM available

From: KD4EMI@aol.com
Date: Sun, 16 Jun 1996 16:21:20 -0400

To: aprssig@tapr.org
Message-ID: <960616162119_557460384@emout14.mail.aol.com>
Rendered body type: text/plain

```
Ive finished work on the stamp controller for my IC706.
The stamp will work on all icom radios. I am trying to locate other brand
radios and see if I can make stamps for them as well.

What will it do ?

At present :
The stamp controller will change the freq, mode, and practically any other
computer controlled parameter on the radio automatically. You select the time
you want to change and there it is.

For example, you can operated 1 band in the morning, and have the radio
change freqs in the afternoon and again at night.

Also, you can send instructions to your tnc to change it's parameters as
well.  Operate GTOR in the morning, Packet at night, or whatever makes you
happy.  While mobile, the real beauty of this device is that you can (with an
autotuner) operate APRS on VHF and HF (With a IC706).
When the stamp gets data from a KAM on the VHF side, it switches the radio to
VHF, and the same for HF.

Im still working on the recieve part, but many of us just xmit our positions.
In addition, I'm working on having the stamp  send ack1 , ack2 etc to
stations sending one line messages via aprs. (Ive not yet got it to send it
to the mailbox). IT will store these msgs in a buffer, and you can d/l it
later.

I also hope to have the voice interface on line that uses a separate voice
chip that might be able to read some data aloud...This is in the future
version.

Working knowlege of stamps isnt required but helpfull.  I will not sell these
devices yet, but working out some details to offer them commercially. I
wanted to announce that they will be available soon.

If anyone has an "EMERGENCY" application that really needs one of these, I
can loan one out. (Eg  Special event, emergency, etc)

One APRS user has asked me to see if I can read NMEA data from a gps. Ive
tried everything and have not been able to ..  I hope that if someone has
done this, they could offer me some advice.
(though not sure why Id want to be able to quite yet)
--------------------------------------------------------------------------------
----------------
The lighning monitor has proven a bit more difficult. I can get it to talk to
the computer, but need someone who can write the code (Bob ?)  that will read
the strikes and make the data xmits.
--------------------------------------------------------------------------------
-----------

Michael
KD4EMI@AOL.COM
```

---

561. NMEA Display Board?

From: John Ackermann <jra@ag9v.ampr.org>
Date: Sun, 16 Jun 1996 13:06:55 -0400
To: aprssig@tapr.org
Message-ID: <199606161707.NAA29061@ag9v.ampr.org>
Rendered body type: text/plain

```
I thought I saved the message, but I didn't.  Could someone forward me the
info about the unit that takes NMEA input and outputs to an LCD display?  I
need a couple of those things...

73,
John   AG9V
jra@febo.com
```

---

562. Re: [APRSSIG:2011] Re: winAPRS/win95, extra serial ports.

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Sun, 16 Jun 1996 16:29:34 -0400
To: aprssig@tapr.org
Message-ID: <31C46EAE.2EF3CCC6@codger.physics.duq.edu>
Rendered body type: text/plain

```
Edward D. Tune wrote:
>
> Will agree that the a large number of comm ports can be expensive. I run the
> Digiboard 8ei which give me an additional 8 comm ports (10 total).

> Cost, through BBS Solutions, was $601.

Cyclades has a special promotion going on for sysops, ISPs, and resellers.  Their 8YO
card, which is 8 DB25s on an "octopus cable", is $199.  It's a coprocessed card like the
DigiBoard.

Their historical user base has been Unix systems, so most of their drivers are written
for that.  (Plus, a DOS INT14 driver.)  An OS/2 driver is out, as well.  An NT version
was just released, and a 95 driver is "to be released".

I've been using one under Linux for about a year now, and it works really well.  I hooked
two ports together with a null modem adapter, and transferred several megs via Zmodem at
115K.  Barely noticed a rise in processor utilization; most of that was probably in
Zmodem.

Check them out..  http://www.cyclades.com
```

---

563. Re: [APRSSIG:1999] Re: WinAPRS and OS/2 Warp

From: gphowell@interramp.com
Date: Sun, 16 Jun 96 17:01:28 +0100
To: aprssig@tapr.org
Message-ID: <199606162103.RAA18012@smtp1.interramp.com>
Rendered body type: text/plain

```
An OS2 version would be welcome here too.  Would be interesting to see
what a native OS2 compiler would do with the windows code -- make a deal,
gerry!

Geep WA4RTS

--
------------------------------------------------------------
gphowell@interramp.com
------------------------------------------------------------
```

---

564. Re: HOW ACCURATE is the clock?

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Sun, 16 Jun 96 14:05:30 -08
To: aprssig%tapr.org@w6dnt.ampr.org, al.chan%toadhall.com@w6dnt.ampr.org,
    alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <208@w6dnt.ampr.org>
Rendered body type: text/plain

```
On June 15, 1996 Steve Dimse wrote:

>>But if you are talking about ranges or pseudoranges from a satellite,
>>that is a theoretical construct, and therefore easy to make a sphere or
>>circle...

That is correct. Since the speed of light is absolute; and thus light waves
travel at the same speed in all directions, therefore the propagation of the
light waves from a point source is spherical.


-al chan      w6dnt

 """"""""""""""""""""""""""""""""""""""
              Al@w6dnt.ampr.org
```

---

565. Re:[APRSSIG:2026] PK-12 Tracker Problems

From: mark.endicott@nashville.com
Date: Sun, 16 Jun 96 16:58:56
To: aprssig@tapr.org
Message-ID: <199606162201.RAA00554@tapr.org>
Rendered body type: text/plain

```
Ken:
Make sure that you have GPSA "ON" otherwise the PK12 will power up in the
Command Mode.  It will then look for the NEMA string and start buffering
the data.  Turn the GPS on before you turn the PK12 on so the stream is
present.  Let me know if you have any problems I have a PK12 in my Jeep.


    If Found, Please Return To:
```

```
  _____________________________
 |                             \
 |         Mark Endicott         \
 |        P.O. Box 148242          \
 |   Nashville, Tennessee 37214      >
 |             WB0NOO              /
 |  mark.endicott@nashville.com   /
 |_______________________________/
```

---

566. RE: [APRSSIG:2028] Re: WinAPRS and OS/2 Warp

From: Willson Flor <willf@rrgroup.com>
Date: Sun, 16 Jun 1996 17:51:09 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960616225109Z-1166@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
You wrote:
>----------
>From:  rwf[SMTP:rwf@mindspring.com]
>Sent:  Sunday, June 16, 1996 2:30 PM
>To:    aprssig@tapr.org
>Subject:       [APRSSIG:2028] Re: WinAPRS and OS/2 Warp
>
>>At 10:01 PM 6/15/96 -0500, Wilson wrote:

Who's "Wilson"?  I hope you don't mean me!  Calling Windows
"Windoze" is one thing, but calling anybody named "Willson"
"Wilson" is simply inexcusable.  ;-)

>>
>>>No port is necessary - WinAPRS runs quite well under
>>>NT right now and, in fact, is a native NT application and
>>>was developed by the Brothers Sproul on NT.
>>
>>I understood it was developed by the Sprouls on a MACINTOSH and cross
>>compiled to 95 or NT.

MacAPRS was developed on a Mac, WinAPRS was "cross-compiled" - I assure
you,
as a professional software developer for 17 years, this *is* a
development process -
on WinNT.

>>I think they tested it on both platforms, but developed it on neither.

This is probably a semantic difference between our points of view,
Ralph.  To me, what
they did on NT counts as development, too - they started without
functional software on
NT, and did a bunch of stuff that resulted in having functional software
on NT.  That's
all I meant.

>>That's what I devived from their speech at Dayton.

This info comes to me straight from the Sprouls, unless my memory is
faulty.

73 de KB9JTT
```

---

567. Re: [APRSSIG:2027] Re: Need Help with Stand-Alone Tracker!!!

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sun, 16 Jun 1996 19:06:08 -0000
To: aprssig@tapr.org
Message-ID: <199606162306.SAA04643@tapr.org>
Rendered body type: text/plain

```
On 16 Jun 96 at 14:29, rwf wrote:

> At 09:40 PM 6/15/96 -0500, Sam wrote:
> >REMEMBER: the GPSHEAD strings on a KPC-3 MUST be set to all Caps.
> >or it won't be accepted into the Buffers for transmit.
>
>
> ...and  the GPS  has to be set to output NMEA data correctly, too
> ;-)
>

He had said a NULL modem cable to his computer was  showing proper
```

```
NEMA Data. . .
```

---

568. Re: [APRSSIG:2020] DFjr & APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 16 Jun 1996 19:32:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960616192953.22297A-100000@arctic>
Rendered body type: text/plain

```
On Sun, 16 Jun 1996, William Nolle wrote:

> that's not a problem, Just like to hear some real DF stories!, specially
> the ones using APRS and GPS with it..

APRSdos REPLY COMMENT:  Me too.  No one has everything all hooked up and
running out in the car.  I expect the APRS user interface will need to be
tweked once people start using it...  We are standing by to help.

de wb4apr@amsat.org
```

---

569. Re: [APRSSIG:2028] Re: WinAPRS and OS/2 Warp

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 16 Jun 1996 19:44:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960616194347.22297E-100000@arctic>
Rendered body type: text/plain

```
WHen can you send me that 15x15 grid????
 I need to make those maps ASAP.

Maybe you missed my request to you ... it was embeededed in a long
message from me about ATLANTA maps...

de wb4apr@amsat.org
```

---

570. Re: [APRSSIG:2029] Stamp controller for ICOM available

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sun, 16 Jun 1996 20:13:28 -0400
To: aprssig@tapr.org
Message-ID: <31C4A328.165@pobox.com>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> Ive finished work on the stamp controller for my IC706.
> The stamp will work on all icom radios. I am trying to locate other
> <snip>

Will it work with the ICOM-720A?  I bet not.

-Lew   W7LVW
```

---

571. Re: [APRSSIG:2034] Re:PK-12 Tracker Problems

From: Miami Network <0004818186@mcimail.com>
Date: Sun, 16 Jun 96 19:43 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <20960617004302/0004818186NA1EM@MCIMAIL.COM>
Rendered body type: text/plain

```
PK-12

Can you tell me what version of chip you have in your PK-12?

The one that we have at the National Hurricane Center in Miami
does not have the firmware to read NMEA data?


73, Seymour, KC4NMY
```

---

572. Re: [APRSSIG:2038] Re: WinAPRS and OS/2 Warp

From: William Nolle <wnolle@ix.netcom.com>
Date: Sun, 16 Jun 1996 20:15:56 -0700
To: aprssig@tapr.org
Message-ID: <31C4CDEC.1962@ix.netcom.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
```

> WHen can you send me that 15x15 grid????
> I need to make those maps ASAP.
>
> Maybe you missed my request to you ... it was embeededed in a long
> message from me about ATLANTA maps...
>
> de wb4apr@amsat.org---------------------

Well gosh i didn't see that message i guess. I just got trough making
a grid of 100 Atlanta maps Top left 33,55.68N x 84,33.76W
Bottom right 33,35.42N x 84,01.47W Hope that covers the area your
interested in if not let me know quick. I will tell you one thing
that using the USGS data is about 6 times slower then using the CD
data files. Took 3 hours and 12 minutes to make the 100 maps. When i
made 100 maps from the CD it only took about 40 minutes. Boy i
wouldn't want to try this on a slow machine Hi. By the way every map
made it with less then 3000 points at 1.05 range...
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

573. Re:[APRSSIG:2040] Re:PK-12 Tracker Problems

From: mark.endicott@nashville.com
Date: Sun, 16 Jun 96 21:07:43
To: aprssig@tapr.org
Message-ID: <199606170221.VAA12638@tapr.org>
Rendered body type: text/plain

Seymour:

Actually I have two PK12's the one in the car is version 7.01 and the other
is version 7.0. Come to think of it only v7.01 has the GPSA command. I
guess that it is in the most recent version only. I would call AEA and get
an up-grade if you have the older version.

```
    If Found, Please Return To:
  _____________________________
 |                             \
 |         Mark Endicott         \
 |        P.O. Box 148242          \
 |   Nashville, Tennessee 37214      >
 |             WB0NOO              /
 |  mark.endicott@nashville.com   /
 |_______________________________/
```

---

574. Re: [APRSSIG:2039] Re: Stamp controller for ICOM available

From: KD4EMI@aol.com
Date: Sun, 16 Jun 1996 22:34:28 -0400
To: aprssig@tapr.org
Message-ID: <960616223427_330268150@emout07.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-06-16 20:40:12 EDT, you write:

>
>Will it work with the ICOM-720A? I bet not.
>
>-Lew   W7LVW
>
>
>

I understand that if your icom has a computer interface port it will work.
I dont even know what a 720A is...But if it uses the ICOM computer standard,
yes it will.

If a 720A doesnt have a computer port, then that question is kinda silly.

Mike
KD4EMI@AOL.COM

---

575. Need help

From: KD4EMI@aol.com
Date: Sun, 16 Jun 1996 22:42:29 -0400
To: aprssig@tapr.org

Message-ID: <960616224229_330275491@emout12.mail.aol.com>
Rendered body type: text/plain

Tonight there is a lovely display of heat lightning.

My Lightning monitor is going crazy, indicating strikes every 3 seconds..

The good news is that the amplitude of the pulse it is sending is much
smaller than the big BOLTS that we get here.
AND
I was able to dectect the incoming storm about 200 miles before it hit.
So at least the theory is feasable, that is, detect the storm before it hits.

I would very much like to be able to direct connect this into a computer or
tnc. Using the basic stamp is neat, but adds alot to the cost.

Can any of you programmers come up with a way to count pulses on a rs232
port..? Can a conputer tell the diff in amplitude or will I need a box to
convert this..? Also, code needed to quantify the pulses to indicate that
they are getting closer..

Any help appreciated.
HELLLPPPPP ?????

Mike
KD4EMI@AOL.COM

---

576. More info on -14 problem

From: "David R. Freels" <freelsdr@bright.net>
Date: Sun, 16 Jun 1996 22:43:17 -0400
To: aprssig@tapr.org
Message-ID: <31C4C645.79C2@bright.net>
Rendered body type: text/plain

Had some more info on the ack problem. I am running 76D at the digi.
Version 76 in the truck.
I have tried to send messages to WinAprs with the same problem.
I have no MacAprs users in my area.
I've tried new installs of aprs with no luck.
Thanks if you need any other info please let me know.
73
ka8zge@amsat.org
freelsdr@bright.net

---

577. ADA Wheels to Weston Ride...

From: ku0g@sprynet.com
Date: Sun, 16 Jun 1996 21:38:22 -0700
To: aprssig@tapr.org
Message-ID: <199606170438.VAA13486@m1.sprynet.com>
Rendered body type: text/plain

The American Diabetes Association "Wheels to Weston" Bike Ride went off this
morning despite some severe thunderstorms in the Kansas City area. Generally
speaking the APRS portion of the ride was successful but there were a few minor
problems. We learned a lot today! I'll be posting a complete review along with
a track history sometime Monday...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

578. Re: [APRSSIG:2044] Need help

From: Gerald Green <k4ubr@ix.netcom.com>
Date: Mon, 17 Jun 1996 03:57:01 -0700
To: aprssig@tapr.org
Message-ID: <31C539FD.3172@ix.netcom.com>
Rendered body type: text/plain

KD4EMI@aol.com wrote:
>
> Tonight there is a lovely display of heat lightning.
>
> My Lightning monitor is going crazy, indicating strikes every 3 seconds..
>
> The good news is that the amplitude of the pulse it is sending is much
> smaller than the big BOLTS that we get here.
> AND

```
> I was able to dectect the incoming storm about 200 miles before it hit.
> So at least the theory is feasable, that is, detect the storm before it hits.
>
> I would very much like to be able to direct connect this into a computer or
> tnc.  Using the basic stamp is neat, but adds alot to the cost.
>
> Can any of you programmers come up with a way to count pulses on a rs232
> port..?  Can a conputer tell the diff  in amplitude or will I need a box to
> convert this..?  Also, code needed to quantify the pulses to indicate that
> they are getting closer..
>
> Any help appreciated.
> HELLLPPPPP ?????
>
> Mike
> KD4EMI@AOL.COMHi Mike,
    I am very interested in lightning detection using VLF (2 - 8 Khz)
receivers and associated whistlers chorus etc which is also attributed
to lightning. I have Steve McGreevy's WR3E receiver coming to use in
my recording of induced lightning strikes here at Camp Blanding, Fla
(Starke FL) where Dr Uman of Univ of Fla (Gainesville) is conducting
experiments in lightning affects on underground/buried utilities and
is inducing the lightning by firing rockets with wire back to earth
so that he has, more or less, lightning on demand.  Your application
to detect range and azimuth is used in the commercial aircraft "Ryan
Storm Scope" which was first described in 73 Magazine in 1963 or 64.
I built four basic VLF amps and fed them to the x y plates of a CRT
to determine direction and approximate distance (amplitude) but that
was a very crude affair compared to the systems in use by NOAA to
detect lightning strikes location and frequency. I recommend you look
at Univ of Iowa home Page
```

---

579. Re: [APRSSIG:2044] Need help

From: Gerald Green <k4ubr@ix.netcom.com>
Date: Mon, 17 Jun 1996 04:20:57 -0700
To: aprssig@tapr.org
Message-ID: <31C53F99.77E7@ix.netcom.com>
Rendered body type: text/plain

```
Hi Again,
     Sorry but i hit the wrong key and somehow sent the first
message incomplete. the pages I have located data on are as last
mesage said Univ of Iowa Steve McGreevy which you can locate with
a search engine easily. also Univ of Florida  Dr Uman.
     What type of detector(s) are you using for your system and
are you using an oscilloscope or an AD converter to your Computer?
I use GRAM22 for audio presentation of recorded lightning and all
its associated noises. You will find it on the Steve McGreevy pages
at the Univ of Iowa along with many ZIP files of various lightning
detections etc etc
   I am not too competent at forwarding files and URL etc but I will
try to send it along as an attachment. Hope it works out right..
I am located in Middleburg Florida about 3 Miles North East of Camp
Blanding (25 Miles South west of Jacksonville(Duval County) line.
I would be intersted in hearing from you and exchange results etc!
73 Jerry Green k4ubr@ix.netcom.com   K4UBR@#PLK.FL.USA.NA  Rose 904282
>>>>>
```

[Attachment: GRAM.EXE; application/octet-stream; 65,024 bytes]
[Attachment: GRAM.EXE; application/octet-stream; 65,024 bytes]

---

580. Re: [APRSSIG:2044] Need help

From: Gerald Green <k4ubr@ix.netcom.com>
Date: Mon, 17 Jun 1996 05:49:18 -0700
To: aprssig@tapr.org
Message-ID: <31C5544E.5E9B@ix.netcom.com>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> Tonight there is a lovely display of heat lightning. Hi Again,
     I forgot to comment on your use of the words "heat Lightning"!
Actually what is called  heat lightning, is only reflections from
very distant storms across an atmosphere that has sufficient moisture
or dust particle to reflect light and it is normally ( as I understand)
the higher level (cloud to cloud) lightning that causes the visual
reflections over very wide distances. Recent discoveries of upper
statosphere Red and Blue Spites discharges into the outer space may
be ( my observation ) the cause of some so called Heat lightning that
is seen many miles away from any known storms.
```

again 73 and look forward to hearing from you and of your findings!
Jerry K4UBR Middleburg, Fl 32068
>>>>>

---

581. Re: [APRSSIG:2043] Re: Stamp controller for ICOM available

From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 17 Jun 1996 06:03:05 -0700
To: aprssig@tapr.org
Message-ID: <31C55789.17EE@ix.netcom.com>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> In a message dated 96-06-16 20:40:12 EDT, you write:
>
> >
> >Will it work with the ICOM-720A?  I bet not.
> >
> >-Lew   W7LVW
> >
> If a 720A doesnt have a computer port, then that question is kinda silly.
>
> Mike
> KD4EMI@AOL.COM--------------------------
Depends Mike what you mean by computer port, bot my Icom R71A and my
R7000 are controllable by computer, but they do not have an RS232 port.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

582. Re: [APRSSIG:2020] DFjr & APRS

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Mon, 17 Jun 1996 07:44:35 +0000
To: aprssig@tapr.org
Message-ID: <199606171148.HAA17038@hemisphere.neocomm.net>
Rendered body type: text/plain

```
Please keep sending comments and actual user results on the DFjr
I am enjoying this topic.


chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
```

---

583. Re: [APRSSIG:2017] Re: HOW ACCURATE is the clock?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 17 Jun 1996 07:01:34 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606171201.HAA15317@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Steve Dimse sez:
>
> But if you are talking about ranges or pseudoranges from a satellite,
> that is a theoretical construct, and therefore easy to make a sphere or
> circle...unless you are implying that radio signals propagate through the
> 'ether' at different speeds in different directions. I'm pretty sure
> Einstein et. al. settled that!

Your solution is a reasonable generalization, but, in fact, velocity of
propagation does affect the pseudorange calculation.  A generalized
ionospheric model is incorporate in the GPS receiver, and updated by almanac
data if the sky's really skewed.  for higher precision work, comparisons of L1
and L2 yield an indication of propagation and a fudge factor to be
incorporated in the code-phase solution of pseudorange.

gerry
```

---

584. Re: [APRSSIG:2030] NMEA Display Board?

From: w2g3zfj@unix.asb.com (bob)
Date: Mon, 17 Jun 1996 08:08:10 -0400
To: aprssig@tapr.org

Message-ID: <199606171218.IAA11929@unix.asb.com>
Rendered body type: text/plain

```
Hi

I built one of the kd6pbh gps/lcd kits and it works great. In fact I ordered
4 more for the rest of my Magnavox's!

He can be contacted by EMail:   j@harper.com

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj


>I thought I saved the message, but I didn't.  Could someone forward me the
>info about the unit that takes NMEA input and outputs to an LCD display?  I
>need a couple of those things...
>
>73,
>John   AG9V
>jra@febo.com
>
>
>
>
```

---

585. Re: [APRSSIG:2029] Stamp controller for ICOM available

From: w2g3zfj@unix.asb.com (bob)
Date: Mon, 17 Jun 1996 08:18:04 -0400
To: aprssig@tapr.org
Message-ID: <199606171228.IAA12106@unix.asb.com>
Rendered body type: text/plain

```
Hi Michael

I've been working on a similar project here but have given up on the STAMPS.
They are OK for smaller projects but if you need faster I/O and a fuller
featured BASIC then I can reccomend the DOMINO from Micromint (860 871
6170). This uses an 8052-BASIC with 32K static RAM and 32K EEPROM, 12 I/O
lines, RS232/RS422 interface, 2 interrupts and 3 timers and it costs $79-.
Its a module 1.1"x1.75"x0.4".

One particular project I have is to generate an RMC sentence from separate
GGA and VTG sentences plus adaptive digi'ing for aprs tracker/mobile use.


>
>One APRS user has asked me to see if I can read NMEA data from a gps. Ive
>tried everything and have not been able to ..  I hope that if someone has
>done this, they could offer me some advice.
>(though not sure why Id want to be able to quite yet)
>--------------------------------------------------------------------------
>-

>Michael
>KD4EMI@AOL.COM
>
>
>


73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
```

---

586. DFjr/GPS/APRS

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 17 Jun 96 07:25:00 -0700
To: aprssig@tapr.org
Message-ID: <199606171225.HAA16050@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I am in the testing phase of the DFjr/GPS/APRS Mobile setup.

As a stand alone RDF, you can't beat it. This baby works! I had mine
assembled, stuck to the roof top, and DFing within an hour after I
recieved it. (It took exactly 8 weeks to get here, so have patience)

Putting everything together, the DFjr, GPS, APRS, IS A REAL CHALLENGE!!! I
```

am running a 486 laptop with a single port. The adapter that Agrelo sent works just fine. And Bob has setup a special command just for the DFjr. Just watch out for all the wires! I am working on a way to install this in a nice, neat package.

There are a few 'bugs' in the system as it stands right now. But these are being worked on by myself and Agrelo. Bob has been very helpful as well. These are NOT major bugs! It's the type of thing that can usually be worked out over the phone, and I'm sure will be included in the documentation at a later date.

I'm the guinea pig on this one! It's fun though!

Final Thoughts.......1) have patience, the DFjr will arrive, someday...... 2) the DFjr works very well......by itself, 3) I wasn't kidding about the wires......4) putting it all together is a challenge and a lot of fun.

KC5JGV

---

587. Re: [APRSSIG:1952] winAPRS/win95, extra serial ports.

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 17 Jun 1996 08:26:32 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617132632.0071383c@144.188.134.33>
Rendered body type: text/plain

As soon as you start talking serial ports above 4, the selection of hardware drops from lots to almost none. However, not zero. I use a serial board made by "4-com" which is availble from NECX (look in computer shopper or http://www.necx.com/), among others no doubt. It gives you 4 serial ports, all with indepent address and IRQ settings, all on 1 card, shipped with nice little adapter cables allowing direct plug in of DB-9 connectors. Win95 will support additional serial ports by setting them up in control panel. Send me personal email if you want detailed help.

At 05:00 PM 6/14/96 -0500, you wrote:
>Hi There
>
>I want to hook up my Ultimeter II to my PC to work under win95. Now I know
>that winAPRS can work with any serial port however I'm not sure where I can
>get an extra serial card to work on com5 etc. I've had a look round the
>local computer shows but no joy. Anyone got any ideas? Is it possible to
>modify a standard serial card to work at another address? Do I need a TSR
>program to run the extra serial cards?
>
Paul, WD9ABE

---

588. JAVA APRS

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 17 Jun 96 09:44:21 EDT
To: aprssig@tapr.org
Message-ID: <199606171344.NAA47369@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

Todays half baked idea from WA4DSY:

Perhaps porting APRS to Java might make more sense
than porting to OS/2. The next version of OS/2, code named
Merlin, will have Java built into the OS.
See http://www.austin.ibm.com/pspinfo/os2.html for details.

Java programs and applets will run as if they are native OS/2 code.
Once ported to Java, aprs will run on any Java enabled
platform, which should include just about all of them
within a year or so!

Java enabled aprs web servers could be built which
would allow anyone with internet access and a Java
enabled web browser to see aprs data. Said web servers
could also exist on the tcpip/ax25 radio links (at 9600 bps and higher).

Dale Heatherington, WA4DSY

e-mail - wa4dsy@wa4dsy.radio.org
Web page - www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

589. Re: [APRSSIG:2006] Re: More serial Port help needed!

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 17 Jun 1996 08:53:16 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617135316.007135f0@144.188.134.33>
Rendered body type: text/plain

A word of advise that saved me a lot of trouble .... Video cards that use the "S-3" chip set (many new ones do) will cause address conflicts with com4. This will NOT show up as a conflict in device manager because device manager looks at the first address of the range only. The S-3 chip set uses a couple of addresses in the middle of the com4 range. In summary, if you have an S-3 chip set, com 4 is out of the question.

I found out my motherboard took
>control of which interupt the video card had. Then it and Win95 proceeded to
>dole out the other interupts etc. When I got to setting the 4th port for my
>KPC-3 to use I was having lots of fits. I had to investigate what devices
>where using what interupts and compare that to what was available and that I
>could move about. USE CAUTION HERE!!!!
Paul, WD9ABE

---

590. Re: [APRSSIG:2055] DFjr/GPS/APRS

From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 17 Jun 1996 08:53:25 -0700
To: aprssig@tapr.org
Message-ID: <31C57F75.10B5@ix.netcom.com>
Rendered body type: text/plain

J. Scott Ratchford wrote:
>
> I am in the testing phase of the DFjr/GPS/APRS Mobile setup.
>
> As a stand alone RDF, you can't beat it. This baby works! I had mine
> assembled, stuck to the roof top, and DFing within an hour after I
> recieved it. (It took exactly 8 weeks to get here, so have patience)
>
> Putting everything together, the DFjr, GPS, APRS, IS A REAL CHALLENGE!!! I
> am running a 486 laptop with a single port. The adapter that Agrelo sent
> works just fine. And Bob has setup a special command just for the DFjr.
> Just watch out for all the wires! I am working on a way to install this in
> a nice, neat package.
>
> There are a few 'bugs' in the system as it stands right now. But these are
> being worked on by myself and Agrelo. Bob has been very helpful as well.
> These are NOT major bugs! It's the type of thing that can usually be
> worked out over the phone, and I'm sure will be included in the
> documentation at a later date.
>
> I'm the guinea pig on this one! It's fun though!
>
> Final Thoughts.......1) have patience, the DFjr will arrive, someday......
> 2) the DFjr works very well......by itself, 3) I wasn't kidding about the
> wires......4) putting it all together is a challenge and a lot of fun.
>
> KC5JGV8 weeks wow, well won't have one then because i'm not letting Agrelo use
my money for 8 weeks, They make to many promises and not keeping them...
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

591. Re: [APRSSIG:2020] DFjr & APRS

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Mon, 17 Jun 1996 10:20:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960617101028.26f7410c@popd.ix.netcom.com>
Rendered body type: text/plain

At 10:02 AM 6/16/96 -0500, you wrote:
>Is anyone using the DFjr with APRS and GPS yet. I would think by now some
>of the beta testers would have something (Good or Bad) to say about the

>system, specially after the antenna problem. I am still waiting for mine
>after nearly 5 weeks now. I asked if they where realy truly shipping any,
>but never got an answer to that part of my question. Sure would like to
>hear some feedback from those that actually used the DFjr rather then

I have had really great results with my DFjr. To evaluate the unit I wired the DFjr and a GPS to a laptop. I then stored the coordinates of a couple of repeaters as waypoints in my Garmin 45. To evaluate the performance I wrote a short program that parses the NEMA messages to get the cars heading as well as the GPS bearing to waypoint. I then use this data to correct the DFjrs "relative" bearing (to car) to an actual bearing. I then compare this to the actual and display the results on the screen and save to a file for later analysis. I use a SPDT switch to toggle between NEMA and DF and throw the switch when I have a clear tone from the doppler.

This method is also the BEST way to calibrate the DFjr since you can do this while moving (doppler's work best when in motion).

The results were very good with errors ranging in the +- 5 degrees typical in the clear. There were some wild readings when in areas of high reflection (this is unavoidable with a doppler cause it will lock on the strongest signal which may be a reflection) but when used in motion the unit performed well. I just won a local fox hunt last Sunday (only two teams but doppler worked VERY well).

I will try to gather some numbers from my setup and post them here (maybe next weekend) Overall I am VERY pleased with Agrelo - I had one of the first units that had problems with grounding. Agrelo was quick to determine the problem and promptly shipped the fix (are you listening Bill Gates :))

As far as using the DFjr with APRS - The Dayton release of DOS APRS did not support the DFjr with the GPS interface. The latest release also seems to have problems if you want DF and GPS data coming in on the same port. I tried configuring APRS to use port 1 for both DFjr and GPS and NO TNC but it wouldn't work unless I had a TNC selected and used SPM which resulted in "buffer overflow errors"

My only portable computer is an HP200 palmtop BUT my foxhunting partner just bought a P90 laptop :) :) so maybe I can give you an update on using the DFjr with WinAPRS soon.

73

Steve Hall - KK4PM

---

592. Re: HOW ACCURATE is the clock?

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Mon, 17 Jun 1996 10:20:26 -0400
To: aprssig@tapr.org
Message-ID: <199606171420.KAA12942@pobox.ee.mtu.edu>
Rendered body type: text/plain

>On June 15, 1996 Steve Dimse wrote:
>
>But if you are talking about ranges or pseudoranges from a satellite,
>that is a theoretical construct, and therefore easy to make a sphere or
>circle...
>
>then Al Chan wrote:
>
>That is correct. Since the speed of light is absolute; and thus light waves
>travel at the same speed in all directions, therefore the propagation of the
>light waves from a point source is spherical.
>

Oops! While it is true that the speed of light IN FREE SPACE is a constant, light travels more slowly in any other medium and the velocity varies for different materials. It also becomes frequency-dependent when the medium is not free space (such as the earth's atmosphere). So the wave fronts produced by a point source can easily be nonspherical. It is sufficient simply to have two or more different materials within the volume being considered.

Then there are birefringent materials in which the velocity of light varies with the direction of propagation (they are not isotropic). This produces nonspherical waves from a point source even when the entire space under consideration is homogeneous.

In the case of GPS signals, the atmosphere is a constantly-changing material

with a varying speed for EM waves. The wave fronts will never be truly
spherical.

Doug Brumm   N8OON   Calumet, MI   dbbrumm@mtu.edu

---

593. Re: [APRSSIG:2037] Re: DFjr & APRS

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Mon, 17 Jun 1996 10:47:20 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960617103740.242f54e0@popd.ix.netcom.com>
Rendered body type: text/plain

At 06:36 PM 6/16/96 -0500, you wrote:
>On Sun, 16 Jun 1996, William Nolle wrote:
>
>> that's not a problem, Just like to hear some real DF stories!, specially
>> the ones using APRS and GPS with it..
>
>APRSdos REPLY COMMENT: Me too. No one has everything all hooked up and
>running out in the car. I expect the APRS user interface will need to be
>tweked once people start using it... We are standing by to help.
>
>de wb4apr@amsat.org
>
>
>

Bob:

How do I configure APRS to look for GPS and DF data on the same serial port???

For now I will NOT have a TNC hooked up. Here is my setup.

```
    --------
   |  GPS   | ------------
    --------              | NC
                         ---  MOMENTARY SPDT          ---------
                           --o---------------------- | Laptop  |
                         ---                          ---------
    --------              | NO
   |  DFjr  | ------------
    --------
```

I prefer this over using the GPS input to the DFjr since it allows me to
determine when to take a bearing. Also I feel the cars current heading
needs to be reported at a higher rate than the DF info (especially on curvey
roads).

I tried several different settings in APRS but could ONLY get this to work
if I selected a TNC on PORT 1 and then selected PORT 1 for DFjr - But with
the above setup the continuos GPS data was overflowing the buffers.

Any help would be appreciated!

Thanks and 73,

Steve Hall - KK4PM

---

594. Re: [APRSSIG:2056] Re: winAPRS/win95, extra serial por

From: schiers@ames.net
Date: Mon, 17 Jun 96 09:43:34 -0500
To: aprssig@tapr.org
Message-ID: <199606171445.JAA14872@tapr.org>
Rendered body type: text/plain

In <712598@bbs.ames.net>, on 06/17/96 at 08:34 AM,
   aprssig@tapr.org said:

>I use a serial board made
>by "4-com" which is availble from NECX (look in computer shopper or
>http://www.necx.com/

I use a couple of these cards under OS/2 and they work beautifully. I want
to add them to my WinAPRS machine (Win95), but have been hesitating for
obvious reasons.

I am using IRQ 2/9 for my bus mouse and com1/2 for WinAPRS. What would you use for the 4 additional IRQ settings on this board? I can figure out addresses, but am not familiar with how finicky Win95 is going to be with interrupts. With OS/2 it is a piece of cake, but I am not nearly so confident of what I have seen so far with Win95.

73,

hasan schiers, N0AN--
----
schiers@ames.net
----

595. Re: [APRSSIG:2020] DFjr & APRS

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 17 Jun 1996 11:06:07 -0700
To: aprssig@tapr.org
Message-ID: <31C59E8F.52D0@concentric.net>
Rendered body type: text/plain

William Nolle wrote:

>
> Is anyone using the DFjr with APRS and GPS yet. I would think by now some
> of the beta testers would have something (Good or Bad) to say about the
> system, specially after the antenna problem. I am still waiting for mine
> after nearly 5 weeks now. I asked if they where realy truly shipping any,
> but never got an answer to that part of my question. Sure would like to
> hear some feedback from those that actually used the DFjr rather then
> just looking at the Agrelo web site picture Hi. Does it even work?. Guys
> i'm not trying to start something here, but when shelling out that much
> money for something i haven't heard anybody give any feedback on makes me
> rather jittery. Now i know Agrelo will stand behind their equipment
> that's not a problem, Just like to hear some real DF stories!, specially
> the ones using APRS and GPS with it..
> --
> Bill KE4EER
> wnolle@ix.netcom.com
> ke4eer@amsat.org
> http://www.netcom.com/~wnolle
> Subscribe or Unsubscribe to the APRS SIG from my web page.

Hi Bill,

Sorry that your question wasn't answered accordingly, we weren't ignoring you, we simply must have missed it.

The DFjr's are shipping as scheduled, 6 weeks delivery from order date. Your's is shipping on 6/21/96. We have had many good reports on the DFjr's performance, unfortunatly, no one post these to the SIG, only to me personally. I have asked on several occasions for people to post their experiences with the DFjr with no response, with the exception of the bad reports of coarse, hi.

Anyone that has a question, should either e-mail or call Eric or myself and we will be more than happy to answer your questions.

I just purchased a fully automatic SMD assembly line including a solder screen printer, pick-n-place machine, and 8 zone reflow oven, to help keep up with our orders. Our intension is to have DFjr's available off the shelf for same day shipping in about a month.

I sincerely hope this helps answer some of your questions.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

596. Re: [APRSSIG:2059] Re: DFjr/GPS/APRS

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 17 Jun 1996 11:35:32 -0700
To: aprssig@tapr.org

Message-ID: <31C5A574.33EC@concentric.net>
Rendered body type: text/plain

William Nolle wrote:
>
> J. Scott Ratchford wrote:
> >
> > I am in the testing phase of the DFjr/GPS/APRS Mobile setup.
> >
> > As a stand alone RDF, you can't beat it. This baby works! I had mine
> > assembled, stuck to the roof top, and DFing within an hour after I
> > recieved it. (It took exactly 8 weeks to get here, so have patience)
> >
> > Putting everything together, the DFjr, GPS, APRS, IS A REAL CHALLENGE!!! I
> > am running a 486 laptop with a single port. The adapter that Agrelo sent
> > works just fine. And Bob has setup a special command just for the DFjr.
> > Just watch out for all the wires! I am working on a way to install this in
> > a nice, neat package.
> >
> > There are a few 'bugs' in the system as it stands right now. But these are
> > being worked on by myself and Agrelo. Bob has been very helpful as well.
> > These are NOT major bugs! It's the type of thing that can usually be
> > worked out over the phone, and I'm sure will be included in the
> > documentation at a later date.
> >
> > I'm the guinea pig on this one! It's fun though!
> >
> > Final Thoughts.......1) have patience, the DFjr will arrive, someday......
> > 2) the DFjr works very well......by itself, 3) I wasn't kidding about the
> > wires......4) putting it all together is a challenge and a lot of fun.
> >
> > KC5JGV8 weeks wow, well won't have one then because i'm not letting Agrelo use
> my money for 8 weeks, They make to many promises and not keeping them...
> --
> Bill KE4EER
> wnolle@ix.netcom.com
> ke4eer@amsat.org
> http://www.netcom.com/~wnolle
> Subscribe or Unsubscribe to the APRS SIG from my web page.

I just posted a message to Bill KE4EER/APRSSIG regaring the shipment
of his DFjr, we are on schedule and his unit will be shipped on
6/21/96. Our deliver time is approx. 6 weeks from order date as stated
during the placement of the order.

Here is a clip of my original message.

CLIP--------

Hi Bill,

Sorry that your question wasn't answered accordingly, we weren't ignoring you,
we simply must have missed it.

The DFjr's are shipping as scheduled, 6 weeks delivery from order date. Your's
is shipping on 6/21/96. We have had many good reports on the DFjr's performance,
unfortunatly, no one post these to the SIG, only to me personally. I have asked
on several occasions for people to post their experiences with the DFjr with no
response, with the exception of the bad reports of coarse, hi.

Anyone that has a question, should either e-mail or call Eric or myself and we will
be more than happy to answer your questions.

I just purchased a fully automatic SMD assembly line including a solder screen printer,
pick-n-place machine, and 8 zone reflow oven, to help keep up with our orders.
Our intension is to have DFjr's available off the shelf for same day shipping in about
a month.

I sincerely hope this helps answer some of your questions.

END CLIP--------

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm

```
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

597. Re: [APRSSIG:1956] Re: winAPRS/win95, extra serial ports.

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Mon, 17 Jun 1996 08:30:36 -0600 (MDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960617082742.3681A-100000@willow>
Rendered body type: text/plain

```
On Fri, 14 Jun 1996, Jon T Adams wrote:

>       p.s.  Now if someone could just come up with a box that had a Tbase10
>       jack on one side and a pile of com ports on the other, and software
>       that would allow the use of theose com ports as virtual com ports for
>       a networked computer, and that it could run on NT, then I'd be set!

This is called a terminal server.  I have an older 3com CS210 (ethernet
to 16 port RS232) that I plan on using with my Sun workstation as soon as
the Sproul brothers release XAprs...If you scrounge around some of the
older terminal servers like this one can be found.

Chris, AA7WD
```

---

598. Re: [APRSSIG:2060] Re: DFjr & APRS

From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 17 Jun 1996 10:48:57 -0700
To: aprssig@tapr.org
Message-ID: <31C59A89.2C5C@ix.netcom.com>
Rendered body type: text/plain

```
Steve Hall wrote:
>
> At 10:02 AM 6/16/96 -0500, you wrote:
> >Is anyone using the DFjr with APRS and GPS yet. I would think by now some
> >of the beta testers would have something (Good or Bad) to say about the
> >system, specially after the antenna problem. I am still waiting for mine
> >after nearly 5 weeks now. I asked if they where realy truly shipping any,
> >but never got an answer to that part of my question. Sure would like to
> >hear some feedback from those that actually used the DFjr rather then
>
> I have had really great results with my DFjr.  To evaluate the unit I wired
> the DFjr and a GPS to a laptop.  I then stored the coordinates of a couple
> of repeaters as waypoints in my Garmin 45.  To evaluate the performance I
> wrote a short program that parses the NEMA messages to get the cars heading
> as well as the GPS bearing to waypoint.  I then use this data to correct the
> DFjrs "relative" bearing (to car) to an actual bearing.  I then compare this
> to the actual and display the results on the screen and save to a file for
> later analysis.  I use a SPDT switch to toggle between NEMA and DF and throw
> the switch when I have a clear tone from the doppler.
>
> This method is also the BEST way to calibrate the DFjr since you can do this
> while moving (doppler's work best when in motion).
>
> The results were very good with errors ranging in the +- 5 degrees typical
> in the clear. There were some wild readings when in areas of high reflection
> (this is unavoidable with a doppler cause it will lock on the strongest
> signal which may be a reflection) but when used in motion the unit performed
> well.  I just won a local fox hunt last Sunday (only two teams but doppler
> worked VERY well).
>
> I will try to gather some numbers from my setup and post them here (maybe
> next weekend)  Overall I am VERY pleased with Agrelo - I had one of the
> first units that had problems with grounding.  Agrelo was quick to determine
> the problem and promptly shipped the fix (are you listening Bill Gates :) )
>
> As far as using the DFjr with APRS - The Dayton release of DOS APRS did not
> support the DFjr with the GPS interface.  The latest release also seems to
> have problems if you want DF and GPS data coming in on the same port.  I
> tried configuring APRS to use port 1 for both DFjr and GPS and NO TNC but it
> wouldn't work unless I had a TNC selected and used SPM which resulted in
> "buffer overflow errors"
>
> My only portable computer is an HP200 palmtop BUT my foxhunting partner just
> bought a P90 laptop :) :)  so maybe I can give you an update on using the
> DFjr with WinAPRS soon.
>
```

> 73
>
> Steve Hall - KK4PM
> Great Steve and thanks for the information, and i hope you will keep us informed as to the progress of your tests. I wonder what version of APRS you where talking about since Bob did do some fixing in 76d. Mine is suppse to be shipped the 21st of this month so hopefully i will also post some feedback to the sig since it will be a big part of APRS. Thanks again Steve. I used this bandwidth by posting the whole message and the reply because i'm sure many users are intersted in this.

--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

599. MAR-6 purchase.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Sun, 16 Jun 1996 23:52:54 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617035254.006fe614@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I got a few people interested in the MAR-6 (if you missed it look at message 1946 and the following thread).
We need a couple more to reach the 50 units, so I can order. If you are interested, please answer before tomorrow (Tuesday) night, and i'll work on that Wednesday.

Regarding the noise figure parameter, I overlooked the importance of it. I don't know either what the noise figure of a typical handheld GPS is, but a 3dB noise figure for the preamp looks just right for me. If someone has exact numbers about the rcvr noise figure for handhelds, or what amp ship is used in commercial active antennas, let us know.
Don't forget that the purpose of this pre-amp is to get better results with an external antenna (typically the QST patch) and the usual handheld (or GPS20) we are using in a car. If this can be done with a 2$ MMIC and a couple of extra parts, that would be great.

What I know is that a couple of people claimed good results with the MAR-1 amp (limited to 1GHz!, NF is 5.5 dB)and the MAR-3 (2 GHz and 6dB NF, but 5V power supply, I don't know how to get that from a handheld with the required bias resistor), and that the MAR-6 is definitively better than that.

Problem here seems to be the 5 V power supply, there is not that much low noise amps that can work with 5V or less. Actually, I don't know of any other one.
If you can supply 15V @ 70 mA, then there are alternatives from Mini-Circuit with 1.5 dB NF, but I bet it's not going to be the same price.

One detail about the MAR-6: standard case and SMT are actually the same size and shape: cylindrical 0.008"diameter with four leads going out of the side at right angle. Difference is that the std has .256" straight leads, SMT has bent and somehow shorter leads. SMT may be easier to work with (easier to solder on a stripline).

```
          __           __
         |  |         |  |
     ----|__|----   _/|__|\_

          std          SMT
```

As I said, I don't know how well the MAR-6 is going to work for GPS, but how can we really decide without trying?

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

---

600. Re: [APRSSIG:2044] Need help

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 17 Jun 1996 00:01:53 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617040153.007446a4@seism1.ess.sunysb.edu>

Rendered body type: text/plain

```
At 10:05 PM 6/16/96 -0500, you wrote:
>Tonight there is a lovely display of heat lightning.
>
>My Lightning monitor is going crazy, indicating strikes every 3 seconds..
>
>The good news is that the amplitude of the pulse it is sending is much
>smaller than the big BOLTS that we get here.
>AND
>I was able to dectect the incoming storm about 200 miles before it hit.
>So at least the theory is feasable, that is, detect the storm before it hits.
>
>

Do you have any idea how the box determines the distance? Is it only based
on the amplitude of the pulse? Any idea of the frequencies detected, or is
there any bandpass filter?

>I would very much like to be able to direct connect this into a computer or
>tnc.  Using the basic stamp is neat, but adds alot to the cost.
>

As for the stamp: yes it's kinda expensive, especially for "production".
One answer is to use a PIC 16c84 instead. It has 1 K word of program memory
in EEPROM. A minimal programmer can be built for less than 10$, a serious
programmer in kit is ~40$. All the software tools: compilers, programmers
app and the docs are free on the web (besides that's the same for the
stamps, everything is available free on the web). A pic16c84 10 MHz is 10$.
There is a third party basic compiler available for 99.$
Last news is that parallax itself just came out with a compiler, that let
you burn your Pbasic program directly in a 16C58. You do need their 109$
programmer for that, as I understand.

>Can any of you programmers come up with a way to count pulses on a rs232
>port..?  Can a conputer tell the diff  in amplitude or will I need a box to
>convert this..?  Also, code needed to quantify the pulses to indicate that
>they are getting closer..
>

You can detect CTS, usually used by the computer to know if the terminal is
ready. That can be done with parallel port too: there are a couple of input
lines so the printer can indicates it's busy. No way to determine the
amplitude though.

Bernard, KB2TGH

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

601. Re: [APRSSIG:2062] Re: DFjr & APRS

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 17 Jun 1996 12:04:23 -0700
To: aprssig@tapr.org
Message-ID: <31C5AC37.5B95@concentric.net>
Rendered body type: text/plain

```
Steve Hall wrote:
>
> At 06:36 PM 6/16/96 -0500, you wrote:
> >On Sun, 16 Jun 1996, William Nolle wrote:
> >
> >> that's not a problem, Just like to hear some real DF stories!, specially
> >> the ones using APRS and GPS with it..
> >
> >APRSdos REPLY COMMENT:  Me too.  No one has everything all hooked up and
> >running out in the car.  I expect the APRS user interface will need to be
> >tweked once people start using it...  We are standing by to help.
> >
> >de wb4apr@amsat.org
> >
> >
> >
>
> Bob:
>
> How do I configure APRS to look for GPS and DF data on the same serial port???
>
> For now I will NOT have a TNC hooked up.  Here is my setup.
```

```
>
>     --------
>    |  GPS   | ------------
>     --------             | NC
>                         ---  MOMENTARY SPDT          ---------
>                           --o---------------------- | Laptop  |
>                         ---                          ---------
>     --------             | NO
>    |  DFjr  | ------------
>     --------
>
```

> I prefer this over using the GPS input to the DFjr since it allows me to
> determine when to take a bearing. Also I feel the cars current heading
> needs to be reported at a higher rate than the DF info (especially on curvey
> roads).

Steve,

If you use the Multi-Port Adapter (MPA) you can set everything as follows,
and use the force DF bearing update feature, this overides all port settings-

1)Turn DF port off.
2)Turn GPS port on.
3)Set desired POSIT rate for GPS.
4)When you like the bearing, press MENU then ENTER.

When step 4 is executed, the DFjr will send a GPS POSIT then
the bearing and quality factor i.e.

```
$GPRMC,194616,A,4306.37,N,07448.67,W,000.0,360.0,010396,013.9,W*73
%279/8
```

> I tried several different settings in APRS but could ONLY get this to work
> if I selected a TNC on PORT 1 and then selected PORT 1 for DFjr - But with
> the above setup the continuos GPS data was overflowing the buffers.
>
> Any help would be appreciated!
>
> Thanks and 73,
>
> Steve Hall - KK4PM

Hope this helps.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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602. Re: [APRSSIG:2058] Re: More serial Port help needed!

From: Ken Mirabella <kjm@flo-bin.com>
Date: Mon, 17 Jun 1996 09:17:41 -0700
To: aprssig@tapr.org
Message-ID: <31C58525.6936@flo-bin.com>
Rendered body type: text/plain

The ATI Mach 64 readme file memtions this. But it was on the driver
disk along with a lot of other stuff I didn't think was important.
After about a gazillion hours I read the documentation. Ergo no com4.

What I wound up with was com 1 - all my radio stuff on a switcher, com2
- the mouse, com3 - fax/modem.   It is not easy getting your mouse on
com2 either in win95. You have to disconnect everything else and let
win95 look for it on com2. then you can insert your fax card and hook
up your other stuff.

Hope you had better luck.

KM6YH

Paul Moller wrote:

>
> A word of advise that saved me a lot of trouble .... Video cards that use
> the "S-3" chip set (many new ones do) will cause address conflicts with
> com4. This will NOT show up as a conflict in device manager because device
> manager looks at the first address of the range only. The S-3 chip set uses
> a couple of addresses in the middle of the com4 range. In summary, if you
> have an S-3 chip set, com 4 is out of the question.
>
> I found out my motherboard took
> >control of which interupt the video card had. Then it and Win95 proceeded to
> >dole out the other interupts etc. When I got to setting the 4th port for my
> >KPC-3 to use I was having lots of fits. I had to investigate what devices
> >where using what interupts and compare that to what was available and that I
> >could move about. USE CAUTION HERE!!!!
> Paul, WD9ABE

603. RE: [APRSSIG:2012] USGS FILES

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Mon, 17 Jun 1996 10:58:45 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB5C41.0E32F1F0@ppp-102.crpl.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

From: William Nolle
Sent: Sunday, June 16, 1996 8:38 AM
To: aprssig@tapr.org
Subject: [APRSSIG:2012] USGS FILES

Question, are the 100k opt data files on USGS still usable since they
changed format a while back?. If so they need to be unblocked, they
recommend CHOP.ZIP but i haven't been able to make that work for some
reason (Probably giving it the wrong command). I know UNBLOCK.BAS is
listed on tapr but tapr seams to be down and i haven't been able to
access it for a while again.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

Bill,
        I never was able to get chop.zip to work. With APRS are some basic programs that will unblock
the datasets like chop was supposed to

604. Re: HOW ACCURATE is the clock?

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Mon, 17 Jun 96 09:43:00 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org,
        al.chan%toadhall.com@w6dnt.ampr.org
Message-ID: <210@w6dnt.ampr.org>
Rendered body type: text/plain

On June 17, 1996 Doug Brumm wrote:

>>In the case of GPS signals, the atmosphere is a constantly-changing
>>material with a varying speed for EM waves. The wave fronts will never be
>>truly spherical.

Good point! I now understand that the Almanac is updated to reflect on
changes of atmospheric conditions that may affect the speed of propagation
of lights or EM.

How is that done? Wouldn't they have to have monitoring stations all over
the place to measure the propagation delay, and update the Almanac?

Also, Einstein says GRAVITY has something to do with the propagation. I
wonder if the gravity of the Moon has any adverse effect on it?

-al chan   w6dnt

 ""
              Al@w6dnt.ampr.org

605. Re: [APRSSIG:2057] JAVA APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 17 Jun 1996 12:27:02 -0500 (CDT)

To: aprssig@tapr.org
Message-ID: <199606171727.MAA18508@solar.cs.tamu.edu>
Rendered body type: text/plain

Going to Java makes sense, and will make for some snappy APRS-esque web sites.
I'd still like to see a port to OS/2, but I don't suppoes it's going to
happen...

gerry
(Not sour grapes, just realistic)

---

606. GPS Antenna Preamp

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 17 Jun 96 13:31:28 EDT
To: <aprssig@tapr.org>
Message-ID: <960617173127_71301.3106_FHJ77-3@CompuServe.COM>
Rendered body type: text/plain

Bernard, KB2TGH, writes:

>I was looking for a pre-amp chip for my home made GPS antenna for a while,
>and found something interesting:
>
>The MAR-6 from Mini-Circuits is the perfect candidate for that.

Yes it is. I've worked with the MAR series for five years and have to agree.

Bernard has the schematic right. While the application notes call for a choke on the power lead this is one of the situations that is an exception (i.e., a choke doesn't accomplish anything!). The capacitor values are noncritical; they're just there for decoupling. I usually use 10pF.

A few tips for somebody inclined to fool with this:

1) Depending on the GPS, you might need to fool with the resistor value. The GPS itself may have already assumed a certain amount of current limiting and it is too easy to limit them below their operating threshold.

2) The operating threshold *is* important. MAR's (and other MMIC's) become noise generators if undersupplied.

3) Construction is critical with the MAR-6's. They have a lot of gain (20dB nominal, probably 15dB at 1500 MHz), and even though the device itself is inherently stable, sloppy construction can result in a feedback loop and then you've got yourself a broadband oscillator. Aside from stripline style, I strongly recommend that the entire amplifier be constructed in SMD.

4) I'd find a way to put the MMIC in the antenna itself, which is how the store-bought antennas are constructed. Doing the preamp as a separate box just multiplies the potential problem points.

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.4.5 on a PB 170 and PowerMacs 7200 & 8100
Operating APRS 7.6d on an HP200LX palmtop

---

607. MIC-E & Voice Repeaters

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 17 Jun 96 13:31:43 EDT
To: <aprssig@tapr.org>
Message-ID: <960617173143_71301.3106_FHJ77-5@CompuServe.COM>
Rendered body type: text/plain

I've been following the discussion about the integration of the MIC-E into "normal" FM repeater operation, and have a couple of comments.

As seems to be S.O.P. for some of the technical tricks around here, the MIC-E assumes perfect operation and full-quieting signals. That's not real world. I take it

---

608. Re: [APRSSIG:2058] Re: More serial Port help needed!

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Mon, 17 Jun 1996 12:17:28 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606171717.MAA06644@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
Hmmm... do you have a list of conflicting addresses?  I have an S3 video
card in my mail server, and use all 4 com ports easily.  It might be video
card specific -- what kind of video card do you have?  (mine is a Diamond
Stealth 64, i think.)  -rt

At 09:15 AM 6/17/96 -0500, Paul Moller wrote:
>A word of advise that saved me a lot of trouble .... Video cards that use
>the "S-3" chip set (many new ones do) will cause address conflicts with
>com4. This will NOT show up as a conflict in device manager because device
>manager looks at the first address of the range only. The S-3 chip set uses
>a couple of addresses in the middle of the com4 range. In summary, if you
>have an S-3 chip set, com 4 is out of the question.
>
> I found out my motherboard took
>>control of which interupt the video card had. Then it and Win95 proceeded to
>>dole out the other interupts etc. When I got to setting the 4th port for my
>>KPC-3 to use I was having lots of fits. I had to investigate what devices
>>where using what interupts and compare that to what was available and that I
>>could move about. USE CAUTION HERE!!!!
>Paul, WD9ABE
>
>

--
#!/bin/sh
# Ryan Tucker <rtucker@ttgcitn.com>
# President, TTGCITN Communications
lynx http://www.ttgcitn.com
```

---

609. Re: [APRSSIG:2057] JAVA APRS

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Mon, 17 Jun 1996 12:17:23 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606171717.MAA06639@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
At 08:53 AM 6/17/96 -0500, Dale Heatherington wrote:
>Perhaps porting APRS to Java might make more sense
>than porting to OS/2.  The next version of OS/2, code named
>Merlin, will have Java built into the OS.
>See http://www.austin.ibm.com/pspinfo/os2.html for details.

Would cover Linux, too :-)

Linux has support for Java binaries, starting (in stable form) in 2.0.
However, you have to install the Java Development Kit.  I haven't looked
much into it, but...

The major problem with Java would probably be the "unprivledged" nature of
Java.  I'm assuming that Java blocks access to the com ports, et al, since
it could be used for malicious purposes.  So, it would probably not float.

However, it would be nice to have a modular approach.  Have a main "backend"
that is extremely portable between OS's and just does the grungy operations,
and then write OS-specific things on top of it that the backend hooks to.
It would make code maintenance a *LOT* easier.  I'm assuming that Mark/Keith
are already using it for WinAPRS/MacAPRS in some form, since they're pretty
much the same.  -rt

--
#!/bin/sh
# Ryan Tucker <rtucker@ttgcitn.com>
# President, TTGCITN Communications
lynx http://www.ttgcitn.com
```

---

610. Might I suggest...

From: Dennis Mobley <dmobley@encore.com>
Date: Mon, 17 Jun 1996 13:37:31 -0400
To: aprssig <aprssig@tapr.org>
Message-ID: <31C597DB.6231@encore.com>
Rendered body type: text/plain

```
Folks,

While I enjoy the on going discussions on the APRS SIG,
it might be time for moving the SIG to a USENET news group.

My mail box fills quickly with the numerous postings.
```

Thank you & 73 de Dennis KT4FI

---

611. GPS Antenna Preamp

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 17 Jun 96 13:54:28 EDT
To: <aprssig@tapr.org>
Message-ID: <960617175428_71301.3106_FHJ46-1@CompuServe.COM>
Rendered body type: text/plain

Oh - I left some crucial information out of my posting about MAR-6's!

It is not necessary to go through all the trouble of a group purchase for MAR-6's, as there are at least two retailers who will sell them to individuals on a one-each basis. I do, however, recommend that you always buy four or five if it's your first exposure to MMIC's - you need ample spares to sacrifice to the soldering-iron gods!

MAR-6's may be purchased from:

Down-East Microwave (I forget their number; check the ham magazines).

Gateway Electronics, 1-800-669-5810.

Down-East sells 'em for $2 each if memory serves right, Gateway around $1.50 or so.

...mike/N0QBF

---

612. Re: [APRSSIG:2067] Re: DFjr & APRS

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Mon, 17 Jun 1996 14:22:04 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960617141226.2557731a@popd.ix.netcom.com>
Rendered body type: text/plain

At 11:05 AM 6/17/96 -0500, Bill KE4EER wrote:
>> Steve Hall - KK4PM
>> Great Steve and thanks for the information, and i hope you will keep us
>informed as to the progress of your tests. I wonder what version of APRS you
>where talking about since Bob did do some fixing in 76d. Mine is suppse to be
>shipped the 21st of this month so hopefully i will also post some feedback to
>the sig since it will be a big part of APRS. Thanks again Steve. I used this
>bandwidth by posting the whole message and the reply because i'm sure many
>users are intersted in this.
>--

I first tried version 75F (which was the same as the Dayton release) which didn't recognize the GPS data. I then tried 76b which would work IF you told it you had a TNC (which would choke on all the NEMA data flooding in from the GPS)
I will check TAPR today for a new version. I'll let you know what I find.

73, de Steve Hall - KK4PM

---

613. MIC-E & Voice Repeaters

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 17 Jun 96 13:31:40 EDT
To: <aprssig@tapr.org>
Rendered body type: text/plain

Message-ID: <960617173139_71301.3106_FHJ77-4@CompuServe.COM>

As an owner and/or maintenance and/or control op on a number of repeaters, I've been following the MIC-E developments with interest.

My experience with packet and FM repeaters begs the question: will users willingly put-up with MIC-E operators who have less than perfect signals? I know that *I* wouldn't!

IOW, I think it's a really bad idea to rely on DCD to mute the repeater. The threshold for detection of valid data on most TNC's requires a signal that is practically full-quieting. That's not real-world.

There needs to be more work done on the MIC-E/voice repeater piggyback concept before it's ready for "prime time". I have three suggestions for development paths:

1) 9600 baud. The brief data burst would just sound like a long squelch tail. [Disadvantage - major implementation challenge on all but a handful of transceivers.]

2) A separate purpose-built DSP module instead of using DCD for detection of data content. It's not important that the data be decoded for muting purposes, just that the presence of data tones is recognized. DSP would reliably pull the tones out of the hash.

3) Separate transceiver for MIC-E. IOW, a "data channel", something we've already developed. If there was a big push here to implement MIC-E quickly, that's how I'd do it.

You'll notice that on #3 I said "transceiver", and that includes a full TNC with a means to hold transmit if the channel is busy. I'm not happy with the suggestions I've seen about blind transmitters; this is very poor Amateur practice and would earn an Official Observer notification if I caught it in use.

There are a lot of great ideas circulating in the SIG, but we need to be much more mindful of how things are going to work when operating conditions (or operators!) are less than optimum. We're not the only ones on the bands.

...mike musick/N0QBF

[PS - apologies if a bogus message with the same header appears on the sig. My e-mail program has indigestion and claims that it's going to send a poorly-worded message that was deleted from the queue. Oops.]

---

614. Re: HOW ACCURATE is the clock?

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Mon, 17 Jun 96 10:53:01 -08
To: aprssig%tapr.org@w6dnt.ampr.org, al.chan%toadhall.com@w6dnt.ampr.org,
        alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <212@w6dnt.ampr.org>
Rendered body type: text/plain

> curious. A "radar mile" is 12.359 microseconds. That means, if the
> time of the GPS receiver was OFF by only 3 microseconds, the
> positions would be HALF a mile OFF. Is that true?

WHO NEEDS A CLOCK?

Question: Wonder why the clock in the GPS receiver isn't dispense with all together?

Since we know the locations of the satellites; and we know they are broadcasting UTC time super-accurately, why not use the LORAN theory. The RATIO of the time difference (of arrival of the signals) from two satellites should give us a good hyperbola. And a third satellite will solve the ambiguity.

WHY NOT? Is there any reason why not have LORAN in the sky?

Furthermore, since only the RATIO is used, then we won't have to worry about birefrigence; double refraction; or any atmospheric condition that would adversely affect the speed of propagation of electro-magnetic waves. Si?

-al chan   w6dnt

 """"""""""""""""""""""""""""""""""""""
              Al@w6dnt.ampr.org

---

615. Re: MAR-6 and QST patch ant

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Mon, 17 Jun 96 13:32:00 CDT
To: aprssig <aprssig@tapr.org>
Message-ID: <31C5A453@rsvl_gw.rsvl.unisys.com>
Rendered body type: text/plain

I have used a MAR-6 with the QST patch antenna, and the amplifier does improve the reception somewhat. Even with the amplifier, it is not as good as the Trimble patch... but it is a LOT cheaper. I have both; the Trimble is more or less permanently mounted on the back of my mini-van, but I still keep the QST patch and MAR-6 handy.

The MAR-6 is SPEC'd at 3 (or 3.2) dB noise figure... but by the time you get it onto a substrate, with connector, input capacator, solder, etc., you're actually around 4 or 4.5 dB. This is NOT that bad. It's not good, but it's not that bad. (A word of caution... You really do need to isolate the antenna from the device: the input pin is DC coupled to the circuit. If you should accidently ground the plate of the patch antenna, the device will no longer work, and it is possible that it will self-destruct ! The input C should be maybe 20 to 50pf, and it SHOULD be a chip type. A disk ceramic or silver mica will work, but these will also increase the NF.)

There are some other devices, such as the HP 86576, GaAsFET MMICs that are specifically made for this market place. They are somewhat more expensive (DownEast Microwave carries them for $12 ea), and are spec'd at ~ 2dB NF. BUT, they are NOT unconditionally stable if the substrate is more than 0.040" thick. I don't think they are worth the extra hassel for not that much better a NF. If they ran 1 dB, well....

Bernard, I'd strongly recommend that you go with the standard packages, and NOT the surface mount ones. The SM packages are much more difficult to solder unless you have exactly the correct soldering iron, tools, etc. With the standard packages, you can drill a "tight-fit" hole, say, 0.082" (I *think* thats a #43 drill... don't know, as I'm at work, and don't have a drill table here), and drop the pill into it and then solder. Also, this places NO stress on the leads. They DO break.

Donn
WA2VOI

---

616. Re: [APRSSIG:2057] JAVA APRS

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 17 Jun 96 15:27:41 -0400
To: <aprssig@tapr.org>
Message-ID: <199606171924.PAA10396@bridge.net>
Rendered body type: text/plain

>Perhaps porting APRS to Java might make more sense
>than porting to OS/2. The next version of OS/2, code named
>Merlin, will have Java built into the OS.
>See http://www.austin.ibm.com/pspinfo/os2.html for details.
>
>Java programs and applets will run as if they are native OS/2 code.
>Once ported to Java, aprs will run on any Java enabled
>platform, which should include just about all of them
>within a year or so!
>
>Java enabled aprs web servers could be built which
>would allow anyone with internet access and a Java
>enabled web browser to see aprs data. Said web servers
>could also exist on the tcpip/ax25 radio links (at 9600 bps and higher).
>

Alright, since someone mentioned it, I will admit it, this is exactly my plan. Check out

<http://www.bridge.net/~sdimse/javAPRS.html>

There are a few problems with running a full-blown version of APRS this way, mostly speed. For now, Java is an interpreted language, so things run slowly. Eventually the Java interpreters will support "just in time" compilation, which will improve things. I do not intend to produce a fully functional version of APRS that competes with dos/win/MacAPRS, rather a set of applets designed for specific needs.

So far, my program displays dosAPRS maps, and can plot positions. It also can read a stream of incoming GPS data and parse out the position data. I've only had the development environment for a couple of weeks, so javAPRS is still in its infancy. Stay tuned for further details...

73 de Steve KO4HD

---

617. Re: [APRSSIG:2075] GPS Antenna Preamp

From: "Jon T Adams" <Jon.T.Adams@jpl.nasa.gov>
Date: 17 Jun 1996 12:44:06 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested),
"71301.3106@compuserve.com" <71301.3106@compuserve.com> (Return requested)
Message-ID: <0707331C5B5860A2*/c=us/admd=telemail/prmd=nasa/o=jpl/ou=ccmail/s=Adams/g=Jon/i=T/@MHS>
Rendered body type: text/plain

If you're gonna go to the effort to build a preamp for your GPS
antenna, please avoid multiple problems (or complete loss of utility)

down the road and fit a good bandpass filter in front of the amp. Those little amps are very wide band, and your 2m or 440 or HF rig in the vehicle with you is gonna swamp the darned thing every time. I face this right now with my amp'd Garmin antenna and others know exactly what I'm speaking of...

73 - Jon NW6H

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:2075] GPS Antenna Preamp
Author: 71301.3106@compuserve.com at Internet
Date: 6/17/96 12:06 PM

Bernard, KB2TGH, writes:

>I was looking for a pre-amp chip for my home made GPS antenna for a while,
>and found something interesting:
>
>The MAR-6 from Mini-Circuits is the perfect candidate for that.

Yes it is. I've worked with the MAR series for five years and have to agree.

Bernard has the schematic right. While the application notes call for a choke on the power lead this is one of the situations that is an exception (i.e., a choke doesn't accomplish anything!). The capacitor values are noncritical; they're just there for decoupling. I usually use 10pF.

A few tips for somebody inclined to fool with this:

1) Depending on the GPS, you might need to fool with the resistor value. The GPS itself may have already assumed a certain amount of current limiting and it is too easy to limit them below their operating threshold.

2) The operating threshold *is* important. MAR's (and other MMIC's) become noise generators if undersupplied.

3) Construction is critical with the MAR-6's. They have a lot of gain (20dB nominal, probably 15dB at 1500 MHz), and even though the device itself is inherently stable, sloppy construction can result in a feedback loop and then you've got yourself a broadband oscillator. Aside from stripline style, I strongly recommend that the entire amplifier be constructed in SMD.

4) I'd find a way to put the MMIC in the antenna itself, which is how the store-bought antennas are constructed. Doing the preamp as a separate box just multiplies the potential problem points.

...mike musick/N0QBF

71301.3106@compuserve.com
Operating MacAPRS 2.4.5 on a PB 170 and PowerMacs 7200 & 8100
Operating APRS 7.6d on an HP200LX palmtop

---

618. Re: [APRSSIG:2079] Might I suggest...

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 17 Jun 1996 15:07:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606172007.PAA20889@solar.cs.tamu.edu>
Rendered body type: text/plain

Dennis Mobley sez:
>
> Folks,
>
> While I enjoy the on going discussions on the APRS SIG,
> it might be time for moving the SIG to a USENET news group.

Nope. I disagree. I do *NOT* have time do sift thru the USENET drivel, nor the inclination to beat back yet another Krazy Kevin magazine attack. We've discussed this before, and I still think this is a bad idea.

> My mail box fills quickly with the numerous postings.

Mine does, too. This group is sometimes half of the mail there, then again, sometimes the IP Security Working Group occupies most of the spool space.

73, gerry

---

619. Re: [APRSSIG:2083] Re: HOW ACCURATE is the clock?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 17 Jun 1996 15:23:18 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606172023.PAA21222@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Al Chan - W6DNT sez:
>
>
> > curious. A "radar mile" is 12.359 microseconds. That means, if the
> > time of the GPS receiver was OFF by only 3 microseconds, the
> > positions would be HALF a mile OFF. Is that true?
>
>
> WHO NEEDS A CLOCK?
>
> Question: Wonder why the clock in the GPS receiver isn't dispense with all
> together?

Because all a GPS receiver really is, is a very accurate clock (short term)
that can be sync'd with the GPS time for timing recovery.

> Since we know the locations of the satellites; and we know they are
> broadcasting UTC time super-accurately, why not use the LORAN theory. The
> RATIO of the time difference (of arrival of the signals) from two satellites
> should give us a good hyperbola. And a third satellite will solve the
> ambiguity.

Wrong, and wrong.  We have an idea from the broadcast ephemeris where the
satellites are, within 20 or so meters.  That's not precise.  We are concerned
with which integer wavelength of the GPS signal (OK, really which chip from
the SS signal, but for our purposes it's the same) we are receiving.  Not just
getting atime hack.  And finally, the GPS NAV timing signal is broadcast in Z
code, which is based in seconds since start of week.  You then have to do
significant table lookups and logic trails to make sure you know how many leap
seconds, and when, to add 'em in.

> WHY NOT? Is there any reason why not have LORAN in the sky?

Wavelength is too long?  LORAN is reasonably precise for local areas without
LF/MF multipath and fading, say, within 100 km of the chain.  LORAN in the sky
might just improve that somewhat, but maintaining the absolute and timing
relationships of the stations (satellites would be interesting.

> Furthermore, since only the RATIO is used, then we won't have to worry about
> birefrigence; double refraction; or any atmospheric condition that would
> adversely affect the speed of propagation of electro-magnetic waves. Si?

Nope.  The RATIO is nice, but absolute differences are used after the integer
ambiguity is resolved, either by measurement, algorithm or guess.

Propagation remains a real issue.

73, gerry
```

---

620. Commercial use of APRS? How much, where?

From: Ed Troy <etroy@aeroconsult.com>
Date: Mon, 17 Jun 1996 16:33:55 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617203355.0068a2bc@popmail.voicenet.com>
Rendered body type: text/plain

```
What provisions are made for commercial use, and or modification of APRS
technology, and also the assocaited maps?  Where would I go to get detailed
information on that.  Probably for windows/win95 platform, although possibly
UNIX, although I suspect the software does not exist for that.

Ed
************************************************************
Ed Troy
Aerospace Consulting
http://www.aeroconsult.com

RF, Microwave, Wireless, and Analog Design, Development, and
Consulting. Also, circuit board layout using PCAD, software
development, and GPS applications
```

****

621. Re: [APRSSIG:2078] Re: JAVA APRS

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 17 Jun 96 16:35:48 EDT
To: aprssig@tapr.org
Message-ID: <199606172035.UAA27351@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Mon, 17 Jun 1996 13:03:59 -0500 (CDT) you wrote:

>At 08:53 AM 6/17/96 -0500, Dale Heatherington wrote:
>>Perhaps porting APRS to Java might make more sense
>>than porting to OS/2.  The next version of OS/2, code named
>>Merlin, will have Java built into the OS.
>>See http://www.austin.ibm.com/pspinfo/os2.html for details.
>
>Would cover Linux, too :-)
>
>Linux has support for Java binaries, starting (in stable form) in 2.0.
>However, you have to install the Java Development Kit.  I haven't looked
>much into it, but...
>
>The major problem with Java would probably be the "unprivledged" nature of
>Java.  I'm assuming that Java blocks access to the com ports, et al, since
>it could be used for malicious purposes.  So, it would probably not float.
>
>However, it would be nice to have a modular approach.  Have a main "backend"
>that is extremely portable between OS's and just does the grungy operations,
>and then write OS-specific things on top of it that the backend hooks to.
>It would make code maintenance a *LOT* easier.  I'm assuming that Mark/Keith
>are already using it for WinAPRS/MacAPRS in some form, since they're pretty
>much the same.  -rt
>


I went the comp.lang.java news group and found the following thread
about serial ports and Java.  Platform specfic code will be needed
if a TNC needs to be accessed with the serial port.  It could be a
DLL or a small program which acts as a gateway between some
tcpip socket and the serial port.  For those who access
aprs position data only from internet won't need serial
port access.


[Begin included text]
------------------------------
Grant Gainey wrote:
>
> James Cassidy wrote:
> >
> > Is there any way to access the serial port from java applications?  I have some
> > interesting applications that require communication with serial instruments from
> > java on Macs and PC's running win96/nt.
>
> Write your native serial-port-access methods, and use the Java native-access
> hooks to call them.  This will, of course, make your Java code machine
> specific.
>
> Of course, even if you _could_ figure out a way to achieve serial-port
> access completely within Java, it wouldn't work very well on my Solaris
> box.  Sometimes, portability is _not_ an issue...
>
> Grant

Yes, this method will work perfectly. Portability is not a problem
since a serial port is NOT a portable device.

But how to transform this java application into an applet application?
A problem arises : an applet cannot use native functions to access
specific CLIENT-side device such as its serial port !

Is anybody aware of that?
--------------------------------------------
[end included text]
```

```
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.
```

---

622. Re: JAVA APRS

From: Will Flor <willf@rrgroup.com>
Date: Mon, 17 Jun 1996 16:06:36 -0500
To: aprssig@tapr.org
Cc: willf@rrgroup.com
Message-ID: <31C5C8DC.4D52@rrgroup.com>
Rendered body type: text/plain

```
You wrote:
----------
From:   Ryan Tucker[SMTP:rtucker@moocow1.ttgcitn.com]
Sent:   Monday, June 17, 1996 1:03 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:2078] Re: JAVA APRS

>At 08:53 AM 6/17/96 -0500, Dale Heatherington wrote:
>>Perhaps porting APRS to Java might make more sense
>>than porting to OS/2.  The next version of OS/2, code named
>>Merlin, will have Java built into the OS.
>>See http://www.austin.ibm.com/pspinfo/os2.html for details.

>Would cover Linux, too :-)

>Linux has support for Java binaries, starting (in stable form) in 2.0.
>However, you have to install the Java Development Kit.  I haven't looked
>much into it, but...

>The major problem with Java would probably be the "unprivledged" nature of
>Java.  I'm assuming that Java blocks access to the com ports, et al, since
>it could be used for malicious purposes.  So, it would probably not float.

Java doesn't block access to anything AFAIK; the blocking is the
responsiblity of the container application (web browser, etc.)  I'm
not sure about the serial ports, but most Java containers I'm aware
of, like Netscape 2.0, certainly do block file I/O to one degree or
another, as well as spawning external processes, connecting to other
machines, etc.  With Netscape 2.0, for example, not only is writing
to a file prohibited, the poor Java applet can't even *read* a file!
Another problem is that excellent reverse-engineering tools are
available from Sun, so everybody can simply and easily open your code
up and look at its internals.  Another problem is speed - Java is
quite slow for "serious" work; I'm not sure if this would really be a
problem with APRS, though, since we seem to do OK with 6 MHz 8088s.

73 de KB9JTT
Professional software developer for 17 years and counting
```

---

623. Re: [APRSSIG:2087] Re: Might I suggest... [USENET Group]

From: Joe DeVille <jwdstu@westga.edu>
Date: Mon, 17 Jun 1996 17:16:33 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960617211633.00686f2c@160.10.4.2>
Rendered body type: text/plain

```
At 03:30 PM 6/17/96 -0500, you wrote:
>Dennis Mobley sez:
>>
>> Folks,
>>
>> While I enjoy the on going discussions on the APRS SIG,
>> it might be time for moving the SIG to a USENET news group.

I also disagree.  The discussions here have been INSTRUMENTAL in my
involvement in APRS. Since my internet access comes through my educational
institution, I am limited to the newsgroups they subscribe to, which do not
include any of the REC groups.

I wonder how many others are affected by similar problems.
```

```
-----------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

624. DFjr

From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 17 Jun 1996 16:21:01 -0700
To: aprssig@tapr.org
Message-ID: <31C5E85D.663C@ix.netcom.com>
Rendered body type: text/plain

Well guys it looks like i will be doing some Agrelo DFjr testing very soon now since mine will be shipped on the 21st of this month. Joe Agrelo has been very helpfull. I have been in contact with Joe and he assured me that in fact they are shipping daily but with as many orders as they are getting things tend to bottle neck here and their as it would with any new product . I suggested that he update his web page so as to keep people informed as to what is happening with the DFjr. Personally i can't wait to give it a try, i'm hoping it will work ok with the latest version of APRS because i'm planning to use it with my TNC,GPS,DFjr and APRS on my laptop. Of course i will keep the sig informed as to my tests hi. Let Joe know if you need information about the DFjr or any of it's aspects (I did and he has settled my nerves hi).
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

625. Re:GPS Antenna Preamp

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 17 Jun 1996 06:02:52 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617100252.00724a5c@seism1.ess.sunysb.edu>
Rendered body type: text/plain

>While the application notes call for a choke
>on the power lead this is one of the situations that is an exception (i.e., a
>choke doesn't accomplish anything!). The capacitor values are noncritical;
>they're just there for decoupling. I usually use 10pF.
>

Isn't the shoke a low pass filter?
In the GPS application the bias resistor fold back to the antenna coax, ie the resistor is in parallel with the blocking cap, we may want to avoid high frequency signal to find a path trough this resistor?

>3) Construction is critical with the MAR-6's. They have a lot of gain (20dB
>nominal, probably 15dB at 1500 MHz), and even though the device itself is
>inherently stable, sloppy construction can result in a feedback loop and then
>you've got yourself a broadband oscillator. Aside from stripline style, I
>strongly recommend that the entire amplifier be constructed in SMD.
>

If the gain versus frequency is linear as suggested in the data sheet, that gives 13.5 dB at 1.5 GHz. I first thought of limiting it by limiting the power supply current (bias resistor larger than required), as we may need only 8-10 dB, and this is good for the batteries (if used). Maybe not such a good idea because of the operating treshold?

Yes construction is quite critical, but as the amp is made of a MAR-6, two caps, and a resistor (+ shoke?), the PCB is quite straightforward. One needs to be precise with the width of the strip line though. The design in 73' (Dec 92) looks fine. I'll make and upload (on the ftp server) a drawing.
SMT version of the MAR-6 is the same as standard one, the leads are just pre-bent to shape. Capa NEED to be SMT ship. For the resistor I don't think it matters(?).

>4) I'd find a way to put the MMIC in the antenna itself, which is how the
>store-bought antennas are constructed. Doing the preamp as a separate box just
>multiplies the potential problem points.
>

My idea is to build the amp directly on the ground plane of the QST patch antenna. One replaces the aluminum ground plane by a PC board and etch (or just grind) the striplines right on that.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

626. Re: [APRSSIG:2080] GPS Antenna Preamp

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 17 Jun 1996 06:19:22 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617101922.00a9eed0@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 01:39 PM 6/17/96 -0500, you wrote:

>MAR-6's may be purchased from:
>
> Down-East Microwave (I forget their number; check the ham magazines).
>
> Gateway Electronics, 1-800-669-5810.
>
>Down-East sells 'em for $2 each if memory serves right, Gateway around $1.50 or
>so.
>
If there is another and easier way than direct purchase that's perfect.
But as a dozen people already answer me and I have enough interest to buy 50
of them I'm going to do it anyway (unless everybody drop me an e-mail saying
no I don't want them anymore :-).
My interest in that is to have more than one guy trying it in various
configurations so we may have an improvement of the QST patch antenna.
It may also be just what is needed with a remote garmin 45 helix to overcome
coax loss.

So if you want one or a couple of MAR-6, let me know before Tuesday night, i
can order more than 50

Bernard, KB2TGH

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

627. Re: [APRSSIG:2086] Re: GPS Antenna Preamp

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 17 Jun 1996 06:21:57 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617102157.0071ae34@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 03:08 PM 6/17/96 -0500, you wrote:
>
>   If you're gonna go to the effort to build a preamp for your GPS
>   antenna, please avoid multiple problems (or complete loss of utility)
>   down the road and fit a good bandpass filter in front of the amp.
>   Those little amps are very wide band, and your 2m or 440 or HF rig in
>   the vehicle with you is gonna swamp the darned thing every time. I
>   face this right now with my amp'd Garmin antenna and others know
>   exactly what I'm speaking of...
>

Anyone with a design?

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

628. Re: GPS Antenna Preamp

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 17 Jun 96 18:21:49 EDT
To: <aprssig@tapr.org>

Message-ID: <960617222148_71301.3106_FHJ58-2@CompuServe.COM>
Rendered body type: text/plain

Jon, NW6H, opined:

<<[preamp...overload...] I face this right now with my amp'd Garmin antenna and others know exactly what I'm speaking of...>>

One of the funny things about life is that we hear about problems with Situation X, but then rarely hear from those who *don't* have the problem.

I have the Garmin amplified "black mouse" adapted for permanent mount, and run five bands (6m thru 1.2GHz, skipping 900). I've paid a lot of attention to a clean mobile installation, and have never noticed a problem with the GPS losing lock as would be inferred by what you describe. On the other hand, I listen a lot more than talk, which could also be a factor. I don't know your (or the others') particular situation; I will, however, suggest that reliance on mag-mounts is asking for RF in places you don't want it.

Anyway, adding bandpass is a sound idea, but the extra effort entailed should not be requisite to experimentation with the concept. If my plate wasn't already full I'd take the extra moment or so to whip-up some PC artwork with a stripline filter fore and aft of the amplifier for good measure, but that'll have to wait for another day.

...mm/N0QBF

629. Re: [APRSSIG:2082] MIC-E & Voice Repeaters

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 17 Jun 1996 18:25:14 -0000
To: aprssig@tapr.org
Message-ID: <199606172225.RAA06242@tapr.org>
Rendered body type: text/plain

On 17 Jun 96 at 13:43, Mike Musick wrote:

> As an owner and/or maintenance and/or control op on a number of repeaters, I've been following the MIC-E developments with interest.

Me too.

> My experience with packet and FM repeaters begs the question: will users willingly put-up with MIC-E operators who have less than perfect signals? I know that *I* wouldn't!

Do you or your users now "put up with" folks who's signals are less than perfect? From what I have seen at Dayton, the burst from a MIC-E is very short.. Shorter than your average packet because the TXD is gone.

> IOW, I think it's a really bad idea to rely on DCD to mute the repeater. The threshold for detection of valid data on most TNC's requires a signal that is practically full-quieting. That's not real-world.

Wonder if you have heard the signal from a MIC-E module. The burst is not as offensive as 1/2 of the "courtesy" tones I hear on Repeaters already. PLUS my TNC's regularly decode signals in the range of strength in the "comfort zone". I don't plan on muting the Signal at all to start.. This will get people asking questions on what the Burst is.

> There needs to be more work done on the MIC-E/voice repeater piggyback concept before it's ready for "prime time". I have three suggestions for development paths:
>
> 1) 9600 baud. The brief data burst would just sound like a long squelch tail. [Disadvantage - major implementation challenge on all but a handful of transceivers.]

Plus, the Signal quality needs to be better than at 1200Baud. The comfort zone will have to be the easy-chair zone.

> 2) A separate purpose-built DSP module instead of using DCD for detection of data content. It's not important that the data be decoded for muting purposes, just that the presence of data tones is recognized. DSP would reliably pull the tones out of the hash.
>

I think the hash won't be as bad as you think.

> 3) Separate transceiver for MIC-E. IOW, a "data channel", something
> we've already developed. If there was a big push here to implement
> MIC-E quickly, that's how I'd do it.

Isn't a seprate Data Channel the same as a stand alone tracker on
145.790 Mhz??

> You'll notice that on #3 I said "transceiver", and that includes a
> full TNC with a means to hold transmit if the channel is busy. I'm
> not happy with the suggestions I've seen about blind transmitters;
> this is very poor Amateur practice and would earn an Official
> Observer notification if I caught it in use.

The MIC-E is NOT blind.. It has simple busy channel monitoring
capabilities that would work wonderfully on a Voice Channel.

> There are a lot of great ideas circulating in the SIG, but we need
> to be much more mindful of how things are going to work when
> operating conditions (or operators!) are less than optimum. We're
> not the only ones on the bands.
>
>   ...mike musick/N0QBF
>
> [PS - apologies if a bogus message with the same header appears on
> the sig. My e-mail program has indigestion and claims that it's
> going to send a poorly-worded message that was deleted from the
> queue. Oops.]
>

---

630. Re: [APRSSIG:2084] Re: MAR-6 and QST patch ant

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 17 Jun 1996 06:33:37 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617103337.00a81fec@seism1.ess.sunysb.edu>
Rendered body type: text/plain

>
>Bernard, I'd strongly recommend that you go with the standard packages, and
>NOT the surface mount ones. The SM packages are much more difficult to
>solder unless you have exactly the correct soldering iron, tools, etc. With
>the standard packages, you can drill a "tight-fit" hole, say, 0.082" (I
>*think* thats a #43 drill... don't know, as I'm at work, and don't have a
>drill table here), and drop the pill into it and then solder. Also, this
>places NO stress on the leads. They DO break.
>

That's an excellent idea. I first thought the SMT would be easier to solder
because you don't even have to bend the leads, but the hole for the MAR body
makes me change my mind. Will simplify the layout too: you just need to
insulate a stripline on the ground plane.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

---

631. WinPac Help

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 17 Jun 1996 15:35:59 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960617213559.0068a5f8@mailhost.primenet.com>
Rendered body type: text/plain

I know that this is an APRS SIG, however we are all hams and part of the
anachronism is packet... at any rate i am getting a GPF when I try to load
WinPac. It tell me that packet is causing a GPF in module WPSCR.DRV. I have
re loaded it , wiped it out started from scratch and no luck, so I am
turning my friends on this SIG. I hope that someone can help, it is a great
program, when I can get it to run...

In advance, Thanks & 73.....Alan, WC7R
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

632. Re: BNC connector

From: melliott@ocslink.com
Date: Mon, 17 Jun 1996 18:07:41 -0500
To: aprssig@tapr.org
Message-ID: <199606172307.SAA15272@ocslink.com>
Rendered body type: text/plain

Think I forgot to mention....put new connector on and everything is
FINE!

73,

```
       _   ________________________________________________   _
      / ) |                                                | ( \
     / /  |    Mark L. Elliott, N9WST                      |  \ \
   _( (_  | _  e-mail: melliott@ocslink.com              _ |  _) )_
  (((\ \> |/ ) Peoria, Illinois                         ( \| </ /)))
  (\\\\ \_/ /  Central Illinois Balloon Association      \ \_/ ////)
   \       /   WWW: http://www.ocslink.com/~melliott      \       /
    \    _/                                                \_    /
    /   / |________________________________________________| \   \
   /   /                                                      \   \
```

---

633. Encoded messages

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Mon, 17 Jun 1996 16:10:37 -0700
To: aprssig@tapr.org
Cc: tuck@pacbell.net
Message-ID: <199606172310.QAA10156@CATI.CSUFresno.EDU>
Rendered body type: text/plain

Once again, I plead to the SIG NOT to send these long long attached encoded
files! Last time I was flamed into oblivion by the 1 or 2 people who actually
wanted these files. Attached files to E-Mail , especially long ones like that
GRAN.EXE are only good to those who can decode them. I do not have any way
to do this as I have an E-Mail only account that offers no extras. Also, I
have to download all the messages at once with no pickychoosy of ones I prefer

not to read. Its all or none! Luckily I didn't print it out! Where do people
get the decoders for these strange files?? I have no FTP services so I can't
download it unless it is on a local BBS. Downloading 165 messages today ran
up close to a Megabyte of text because of that GRAN.EXE file! So, save your
Flamethrowers, just don't waste my and most everyone elses disk space with
un-decodeable files. Put them in the TAPR FTP section or on a BBS, but PLEASE
NO MORE ATTACHED E-MAIL FILES! Thank You
Pat Bunsold WA6MHZ
PS The rest of the SIG data is great and is extremely helpful for APRS addicts
like myself! Keep sending out those hints and kinks!

---

634. Re: [APRSSIG:2079] Might I suggest...

From: William Nolle <wnolle@ix.netcom.com>
Date: Mon, 17 Jun 1996 18:36:31 -0700
To: aprssig@tapr.org
Message-ID: <31C6081F.14E1@ix.netcom.com>
Rendered body type: text/plain

Dennis Mobley wrote:
>
> Folks,
>
> While I enjoy the on going discussions on the APRS SIG,
> it might be time for moving the SIG to a USENET news group.
>
> My mail box fills quickly with the numerous postings.
>
> Thank you & 73 de Dennis KT4FI------------------
Dennis that discussion went on and on about 4 month's or so ago and nobody
wanted to move so it's just my opinion your wating your time Hi.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.

---

635. Re: [APRSSIG:2092] Re: Might I suggest... [USENET Group]

From: rwf <rwf@mindspring.com>
Date: Mon, 17 Jun 1996 20:22:38 -0400
To: aprssig@tapr.org

Message-ID: <2.2.32.19960618002238.009b3a00@mindspring.com>
Rendered body type: text/plain

```
>>Dennis Mobley wrote:
>>>
>>> Folks,
>>>
>>> While I enjoy the on going discussions on the APRS SIG,
>>> it might be time for moving the SIG to a USENET news group.


Has it been that long already?
This one seems to come up 'bout every 6 months.

Please do not move this SIG to a news group!  The SPAM there is horrible,
and many folks do not have news group access (as Joe D  says).  More and
more people are at least getting email service, which is all we need for this.

Plus, now if I REALLY want to overload things, I can forward my Email
address to the one that my Alpha pager has. Then I could be paged with every
SIG message as it is posted.  Wouldn't that make me productive at work!
Ralph's beeper: BEEP  BEEP BEEP .
Ralph's Boss:  What was that?
Ralph:     Nothing, just the latest word on Satellite GPS clocks, Cruise
Missles, HSP questions, or Mac vs PC vs whatever.    hehe

Can't do that with a Usenet Group.

And the best plus of all, some mail readers now have filters that allow you
to automatically redirect messages that meet certain criteria (like this
one) right into a special mailbox (APRSSIG for me)  or to the *trash* (for
certain people).  My mail is easy to read, with everything sorted into its
own little place.  Only thing that is in the "in" box is are the personal
messages.








                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
```

636. Re:[APRSSIG:2079] Might I suggest...

From: quarry@q.continuum.net (Chip)
Date: Mon, 17 Jun 1996 20:53:06 -0400
To: aprssig@tapr.org
Message-ID: <v02140b01adebacbffd71@[199.0.52.50]>
Rendered body type: text/plain

```
At 14:05 6/17/96, you wrote:

> While I enjoy the on going discussions on the APRS SIG,
> it might be time for moving the SIG to a USENET news group.

I think we covered this once before.  I for one am extremely against
this.  In the case of email it is active, I just sit and the mail comes
to me when I check.  With a newsgroup it is passive, I have to do the
work of checking and is less friendly with checking from remote locations
via dumb terminals (although not impossible).

> My mail box fills quickly with the numerous postings.

As far as I know there is no limit on how much mail you can recieve.
With several hundred (~700) messages in my mailbox it was still less then
a Meg, my web stuff is ~1.5MB, I am allowed around 8, so that leaves me
room for ~4500 messages (on average).  Since I generally get 100-150 per
day (lets say 200 for conservativism like any good nuke), 4500 / 200 ~
22.  I could go 22 days without reading my mail ... might make for a long
time to read, but it would be better then coming to find out the news
server only carried 14 days worth ...
```

```
Lets lay this baby to rest, if you would like an APRS newsgroup feel free
to start one, in the meantime I would prefer to have Bob/Mark/Keith (not
to mention Joe A.) stay right here and continue to amaze me with their
wit and wisdom!

In short (don't take it personally), feel free to leave if you choose ...

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net  (alternate: emmet2@aol.com)

                "The ultimate measure of a man is not
                where he stands in moments of comfort
                and convenience but where he stands at
                times of challenge and controversey"
                                -- Martin Luther King Jr.
```

---

637. Re: [APRSSIG:2087] Re: Might I suggest...

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 17 Jun 1996 21:17:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960617211542.3652F-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 17 Jun 1996, Gerald J Creager wrote:
> >
> > While I enjoy the on going discussions on the APRS SIG,
> > it might be time for moving the SIG to a USENET news group.
>
> Nope. I disagree.  I do *NOT* have time do sift thru the USENET drivel, nor
> the inclination to beat back yet another Krazy Kevin magazine attack.  We've
> discussed this before, and I still think this is a bad idea.

How does putting *this* sig on Usenet make it drivel?

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

638. Re: [APRSSIG:2074] Re: JAVA APRS

From: Greg Blair <siggraph@dgp.toronto.edu>
Date: Mon, 17 Jun 1996 17:54:59 -0400
To: aprssig@tapr.org
Message-ID: <31C5D433.6653@dgp.toronto.edu>
Rendered body type: text/plain

```
Gerald J Creager wrote:
>
> Going to Java makes sense, and will make for some snappy APRS-esque web sites.
> I'd still like to see a port to OS/2, but I don't suppoes it's going to


OK, who is the JAVA hacker out there?

How do you open serial ports in JAVA on 95 and MAC?
```

---

639. I suggest F R E E e-mail instead

From: w4wwq@juno.com (Peter J Lascell)
Date: Mon, 17 Jun 1996 22:20:12 PST
To: aprssig@tapr.org
Message-ID: <19960617.223545.13727.3.W4WWQ@juno.com>
Rendered body type: text/plain

```
I also DISAGREE with the move to a USENET.

 I don't have access to the news groups and the rest of Internet, but I
do have FREE e-mail access to the world via JUNO.COM.

If anyone is interested in FREE e-mail, with 1-800 access also FREE, look
at :

              http://www.juno.com

I don't have their 1-800 # for free software, but understand it is on
their WEB page.
Or you can send a message to "signup@juno.com",  subject: "Give Juno To A
Friend" and in the text enter the name and (snail) mail address where to
send the software.
```

```
As far as the quanity and quality of the APRSSIG messages, I find the
delete key works very well.  I put faith in the SUBJECT line being
correct.  If it doesn't interest me it probably won't get read.

Pete W4WWQ

================================================================
>At 03:30 PM 6/17/96 -0500, you wrote:
>>Dennis Mobley sez:
>>>
>>> Folks,
>>>
>>> While I enjoy the on going discussions on the APRS SIG,
>>> it might be time for moving the SIG to a USENET news group.
```

640. FL APRS Web Page is up

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 17 Jun 1996 23:37:07 -0400
To: aprssig@tapr.org
Message-ID: <199606180337.XAA04691@grumpy.magg.net>
Rendered body type: text/plain

```
The Florida APRS  Web Page is finally up and in operation. Nothing special
yet, I had a lot to learn in 4 days but it is a start. Any suggestions
please e-mail me and I will do my best possible. BTW let me know if you can
click on and send me mail from the page. Every time I try I get nowhere but
I think it is my browser that has a problem.
Now PART TWO!! off to get the FLSIG in operation!

URL ADDRESS:

http://www.magg.net/~n2czf/aprs.html
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96
```

641. Re: [APRSSIG:2086] Re: GPS Antenna Preamp

From: ku0g@sprynet.com
Date: Mon, 17 Jun 1996 20:58:04 -0700
To: aprssig@tapr.org
Message-ID: <199606180358.UAA11187@m1.sprynet.com>
Rendered body type: text/plain

```
Just a follow-up on the posting about 2 meter and 440 rigs swamping the GPS
receivers...I spoke with Garmin and their recommendation is to simply move the
GPS antenna to provide a better degree of separation!

I was having this same problem and moved the antenna SIX INCHES and totally
cured the swamping effect!  I haven't experienced the swamp effect using teh
Blackjack antenna and won't say that swamping is not a problem with it.

I WOULD appreciate any/all reports from users of the Blackjack on any swamping
that occurs in using this antenna!  I am very serious about making the Blackjack
a very reliable unit and want to include as much operational information and
tips in the documents that we send out with each unit!

Thanks for the input!!!  Please reply via PRIVATE MAIL...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

642. Re: [APRSSIG:2079] Might I suggest...

From: N5RKN@aol.com
Date: Tue, 18 Jun 1996 00:38:57 -0400
To: aprssig@tapr.org
Message-ID: <960618003856_558482697@emout12.mail.aol.com>
Rendered body type: text/plain

```
Here...here...    I'm in full agreement with the move to a USNet.  Though
I'm
appreciative of the forwarded e-mail, I too am tired of dozens of msgs
filling my
mailbox with each connect.  Let's move this to a better forum.
  Robert  N5RKN
```

643. Re: [APRSSIG:1930] Davis Instruments Programer's Reference Disk

From: Bruce Rahn <brahn@erinet.com>
Date: Tue, 18 Jun 1996 01:08:23 EDT
To: aprssig@tapr.org
Message-ID: <199606180510.BAA09411@in-mail.erinet.com>
Rendered body type: text/plain

Forwarding note from: aprssig@tapr.org Thu, 13 Jun 1996 17:25:51 -0500 (CDT)

I have been able to convince Davis Instruments to release their Programmer's Reference Disk at NO CHARGE. The information is available either from their LLBBS (510- 293-3546) or their internet address (http://www.davisnet.com

Davis is now committed to Amateur radio, and is proving it by this FREE OFFER. There is only VERY LIMITED personal support, since they are offering it FREE, so do not expect to get unlimited phone support from them.

I hope that this is helpful to anyone who wants to "tinker" with interfaces. I have been able to put together a complete comparison of the Davis Weather system and the Peet Brothers Ultimeter system. I will try and get it out to the SIG over the weekend, so that an informed decision can be reached, if you are considering the purchase of a weather system.

Hope to see all of you "On the Map".

73, Alan, WC7R
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

```
**************************************************
*                                                *
*             Bruce Rahn  WB9ANQ                 *
*                                                *
*             brahn@erinet.com                   *
*             wb9anq@amsat.org                   *
*             74017,2454 (CI$)                   *
*                                                *
**************************************************
```

---

644. Re: [APRSSIG:2085] Re: JAVA APRS

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 17 Jun 1996 20:47:17 -0700
To: aprssig@tapr.org
Message-ID: <31C626C5.3176@concentric.net>
Rendered body type: text/plain

Steve Dimse wrote:

> Alright, since someone mentioned it, I will admit it, this is exactly my
> plan. Check out
>
> <http://www.bridge.net/~sdimse/javAPRS.html>

Very slick Steve,

I haven't had time to learn JAVA yet, but I would love to eventualy add something like this to our web site, using the DFjr of coarse, this way people could actualy see what the DFjr/GPS/APRS is capable of before making a purchase.

Keep up the good work!

```
73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

645. Re: [APRSSIG:2062] Re: DFjr & APRS

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Mon, 17 Jun 1996 23:06:23 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960617225522.22947B-100000@draco.bison.mb.ca>
Rendered body type: text/plain

On Mon, 17 Jun 1996, Steve Hall wrote:

```
> How do I configure APRS to look for GPS and DF data on the same serial port???
>
> For now I will NOT have a TNC hooked up.  Here is my setup.
>
>
>     --------
>    |  GPS   | ------------
>     --------             | NC
>                         ---  MOMENTARY SPDT          ---------
>                           --o---------------------- | Laptop  |
>                         ---                           ---------
>     --------             | NO
>    |  DFjr  | ------------
>     --------
>
```

This is taken from the DF.TXT file in the APRS\README directory.

-------------------cut here----------------------

DIRECTION FINDING IN DF SINGLE PORT MODE!

Since we have just about concluded that you need a manual push button for the operator anway (thanks Joe Moel, K0OV), it becomes trivial for us to add the DF serial data to the existing shared GPS/TNC/HSP serial port. The following schematic shows how the serial data from all three devices is switched and how a second pair of contacts is used to alert APRS, when the DF data is connected.

```
                                      DF PUSH           LAPTOP
            ----------                BUTTON            SERIAL
TNC DATA >--|  HSP   |                                   PORT
            |        |--------------------*
GPS DATA >--| SWITCH |                    |
            --*-------                   ----------*----------> RXD
              |
              |                           |
DF DATA  >--------------------------------*

              _
              ^ D1                       ----------*
              |       4.7 k                        |
TNC DSR  >-----------/\/\/\/--*           |      -----
              |               |           |      /////
              |               |           |
TNC DTR  >----*---->|---------*-----------*-------------------> DSR
    RTS           D2
```

The second pole of the DPDT push button not only grounds the DSR input to the PC so that it knows to begin parsing DF data, but also grounds the TNC DTR (RTS) input so that the TNC holds off any packet data until after the DF switch is released. Notice that two diodes, D1 and D2 isolate the TNC DTR (RTS) line so that either the HSP or the DFSP can pull the line to ground without affecting the other. Some TNC's (PACCOMM) use the RTS line instead of the DTR line for holding off TNC data, so check your TNC manual. The TNC DSR line is only used to provide a source of +V. APRS distinguishes between the TNC and GPS data using the normal HSP logic. Remember to provide the DSR or other source of +V for the HSP circuit.

If you are not using the TNC, leave out the diodes, the connection to the TNC's DSR, and the resistor. Connect the GPS to the side of the DF Push Button that would normally go to the HSP board. This should work great.

Good luck and I'm definately going to buy one of those DFjr's when I can muster up the funds!

```
Michael
--
Michael Markmann VE4MJM               |
ve4mjm@draco.bison.mb.ca (Internet)   |     ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)   |         Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

646. Re: [APRSSIG:2078] Re: JAVA APRS

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 18 Jun 96 08:06:09 -0400
To: <aprssig@tapr.org>
Message-ID: <199606181203.IAA29002@bridge.net>
Rendered body type: text/plain

```
>The major problem with Java would probably be the "unprivledged" nature of
>Java.  I'm assuming that Java blocks access to the com ports, et al, since
>it could be used for malicious purposes.  So, it would probably not float.
>
This is a big subject, and depends very much on the specific
implementation of Java and the OS involved. Most Javas allow access to
local files when a Java program is run as an application, rather than an
applet (as within a browser). In unix you operate on the hardware as a
filename beginning with '/dev'. Other OSes have different methods. It
will take a while for all this to get settled out. In any event, it is
definitely possible to call native code from a Java application, so it
would be easy to write a short C procedure in each OS that opens a comm
port, and sends the data back and forth. This is the method I am planning
to use for javAPRS.

Steve KO4HD
```

647. Re: [APRSSIG:2090] Re: JAVA APRS

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 18 Jun 96 08:13:13 -0400
To: <aprssig@tapr.org>
Message-ID: <199606181210.IAA29359@bridge.net>
Rendered body type: text/plain

```
>But how to transform this java application into an applet application?
>A problem arises : an applet cannot use native functions to access
>specific CLIENT-side device such as its serial port !
>
>Is anybody aware of that?

I am. Think about how you want to use javAPRS. To me, the major use is to
allow an APRS map window to pop up on a web page, showing either live or
archived data. Do you really want to run APRS all the time within
Netscape? Didn't think so!

To show live data, you need a server application that can accept connects
via TCP/IP, and send out the data to clients as it comes in. That program
exists, it's called SerialServer, and I wrote it. It only runs on the
Mac, so someone else will have to write one for windows if windows users
are to be able to show their data live.

Steve KO4HD
```

648. Re: [APRSSIG:2096] Re: GPS Antenna Preamp

From: William Nolle <wnolle@ix.netcom.com>
Date: Tue, 18 Jun 1996 07:21:33 -0700
To: aprssig@tapr.org
Message-ID: <31C6BB6D.54B7@ix.netcom.com>
Rendered body type: text/plain

```
Bernard Seront wrote:
>
> At 03:08 PM 6/17/96 -0500, you wrote:
> >
> >     If you're gonna go to the effort to build a preamp for your GPS
> >     antenna, please avoid multiple problems (or complete loss of utility)
> >     down the road and fit a good bandpass filter in front of the amp.
> >     Those little amps are very wide band, and your 2m or 440 or HF rig in
> >     the vehicle with you is gonna swamp the darned thing every time.  I
> >     face this right now with my amp'd Garmin antenna and others know
> >     exactly what I'm speaking of...
> >
> -----
> Bernard Seront, seront@seism1.ess.sunysb.edu
> http://rock.ess.sunysb.edu:8080/-----------
Sorry Bernard but i have to disagree with the above statement that it will
swamp the darned thing everytime!. I have NEVER run into this problem and i
have been running GPS for several years now. I have both a dual band antenna on
my pickup for 2m/440 hooked to a Yaesu FT-5100. I used to run an external
antenna with my GPS but have now taken it down and am running it just setting
on the dashboard. Either way i never have had that problem. NOT KNOCKING the
Garmin because i think it's a great gps for the price, but you know the old
saying "You only gets what you pay for". My Magellan NAV-5000DX has NNEVER lost
lock while using my FT-5100 which is for the most part TXing in the 50watt
mode, and just below that is my Alinco DR-1200 for the GPS tracker.
--
Bill KE4EER
wnolle@ix.netcom.com
ke4eer@amsat.org
http://www.netcom.com/~wnolle
Subscribe or Unsubscribe to the APRS SIG from my web page.
```

---

649. Re: [APRSSIG:2092] Re: Might I suggest... [USENET Group]

From: Dennis Mobley <dmobley@encore.com>
Date: Tue, 18 Jun 1996 08:35:49 -0400
To: aprssig@tapr.org
Message-ID: <31C6A2A5.500F@encore.com>
Rendered body type: text/plain

```
Joe DeVille wrote:
>
> At 03:30 PM 6/17/96 -0500, you wrote:
> >Dennis Mobley sez:
> >>
> >> Folks,
> >>
> >> While I enjoy the on going discussions on the APRS SIG,
> >> it might be time for moving the SIG to a USENET news group.
>
> I also disagree.  The discussions here have been INSTRUMENTAL in my
> involvement in APRS. Since my internet access comes through my educational
> institution, I am limited to the newsgroups they subscribe to, which do not
> include any of the REC groups.
>
> I wonder how many others are affected by similar problems.
> ------------------------------------------------------------------------------
> Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
> State University of        Secondary address:  bm160@freenet.carleton.ca
>   West Georgia          Memberships/Affiliations: American Radio Relay League
> Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
>                               Disaster Services, Atlanta Olympic Band
>                    Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
> ------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------

Joe I understand...

>From the other side of the coin, I too find "most" of the information
informative but 109 APRSIGs posting a weekend is a bit much.
There are those of us that use EMail for professional reasons and
sorting out the APRS from the business mail get to be a bit much.

Question to the SIG manager, one solution would be an archive that
could be access via the WWW.

Does such a archive exist?

This might solve both problems.
73 de Dennis KT4TI
--
Dennis H Mobley                         Encore Computer Corporation
Principal Application Specialist        6901 W Sunrise Blvd (MS 708)
Real Time Technical Support             Fl. Lauderdale, Fl. 33313-4499
dmobley@encore.com Email                954.797.5771   Office/Vmail
www.encore.com                          954.797.5410   Fax
```

---

650. Thanks!

From: ku0g@sprynet.com
Date: Tue, 18 Jun 1996 05:37:54 -0700
To: aprssig@tapr.org
Message-ID: <199606181237.FAA10559@m1.sprynet.com>
Rendered body type: text/plain

I got the tracker working FRIDAY NIGHT. Please don't send any more mail on getting it to work, folks! I appreciate all the help!!!
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

651. winaprs and os/2 (or os2aprs)

From: "Mike Walker" <mwalker@interlog.com>
Date: Tue, 18 Jun 96 08:40:03 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199606181241.IAA04418@gold.interlog.com>
Rendered body type: text/plain

I would be in favour of an os/2 version.

I guess code warrier will not port directly to os/2.

It might be easier to recompile the dos version so it would run in an os/2 window. Under a Dos Box, it does steal alot of system resources.

Just my vote.

cheers...mike

(now, is someone has a os/2 driver for an ATvantage-X/X4P 4 port serial card, it would really make my day.

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

---

652. Re: [APRSSIG:2085] Re: JAVA APRS

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Tue, 18 Jun 96 09:40:02 EDT
To: aprssig@tapr.org
Message-ID: <199606181340.NAA49261@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Mon, 17 Jun 1996 14:39:43 -0500 (CDT) you wrote:

>>Perhaps porting APRS to Java might make more sense
>>than porting to OS/2. The next version of OS/2, code named
>>Merlin, will have Java built into the OS.
>>See http://www.austin.ibm.com/pspinfo/os2.html for details.
[deleted]

>Alright, since someone mentioned it, I will admit it, this is exactly my
>plan. Check out
>
><http://www.bridge.net/~sdimse/javAPRS.html>

It seems to be down :-(...no response to ping.

>
>There are a few problems with running a full-blown version of APRS this
>way, mostly speed. For now, Java is an interpreted language, so things
>run slowly. Eventually the Java interpreters will support "just in time"
>compilation, which will improve things. I do not intend to produce a
>fully functional version of APRS that competes with dos/win/MacAPRS,
>rather a set of applets designed for specific needs.

That's a good start. Is this going to be shareware, freeware or what?

>
>So far, my program displays dosAPRS maps, and can plot positions. It also
>can read a stream of incoming GPS data and parse out the position data.
>I've only had the development environment for a couple of weeks, so
>javAPRS is still in its infancy. Stay tuned for further details...

>73 de Steve KO4HD

Thats good progress given the short time you've had. I will
"stay tuned".   OS/2 Java won't be publicly released

for at least 3 months so I can't run it now anyway. I could
download the Java beta now but I really don't don't want to deal
with the bugs ;-)

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

653. Re: [APRSSIG:2099] Re: MAR-6 and QST patch ant

From: crawford@vt8200.vetmed.lsu.edu (Dr. Pat M Crawford - Louisiana State University (SVM))
Date: Tue, 18 Jun 1996 09:21:44 -0500
To: aprssig@tapr.org
Message-ID: <96061809214393@vt8200.vetmed.lsu.edu>
Rendered body type: text/plain

[Empty message body]

654. Re: [APRSSIG:2087] Re: Might I suggest...

From: Mike Parker <parker@rincon.com>
Date: Tue, 18 Jun 1996 07:39:41 -0700
To: aprssig@tapr.org
Message-ID: <31C6BFAD.5F86@rincon.com>
Rendered body type: text/plain

Gerald J Creager wrote:
>
> Dennis Mobley sez:
> >
> > Folks,
> >
> > While I enjoy the on going discussions on the APRS SIG,
> > it might be time for moving the SIG to a USENET news group.
>
> Nope. I disagree. I do *NOT* have time do sift thru the USENET drivel, nor
> the inclination to beat back yet another Krazy Kevin magazine attack. We've
> discussed this before, and I still think this is a bad idea.
>
> > My mail box fills quickly with the numerous postings.
>
> Mine does, too.

Mine does too.

I wasn't going to reply to the original posting and add to the mail in you
mail boxes because I thought everyone would agree. Since I was wrong,
here goes.

Unfortunately, I missed the previous discussion Gerry referred to.

This is probably because I have to turn off the SIG when I leave for an extended
trip to avoid problems with my mail box overflowing.

The vast majority of my E-mail is more time-critical and relavent to my
day-to-day life than the letters from this SIG. It would be nice not to have
to sort through the SIG E-mail when I don't have time or inclination.

I don't understand the comments about USENET drivel. I only participate regularly
in one USENET group, rec.aviation.soaring, and I see little difference between
the drivel level. The main difference is that my news reader helps me organize
better (what is drivel to me is probably important to someone else).

Also, having never had to beat back a "Krazy Kevin magazine attack", I don't know
what one/it is.

Just my opinion.

73,
Mike, KT7D

655. Torch passed through NYC, NY last night

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Tue, 18 Jun 96 11:19:42 EDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.835111182.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

Too bad APRS is not tracking the Olympic Torch. Qualcomm still has it
in Albany, where it was scheduled to be two days ago. I know for a
fact it went down Broadway in New York City last night because my
friends all went out and watched the rolling Coca-Cola/BMW commercial
go by -- oh yeah, and hidden somewhere among the encircling motorcycle
escort was the guy with the torch. I had to miss it 'cuz I was VEing
(1 new Extra, 1 Tech and 1 Tech Plus). So, here's my contribution,
the torch's current position (as of 8:45 last night) is 40:48:33 N /
73:57:38 W +/- one day's running, which puts it somewhere in New Jersey
right now, but still closer than Albany!

73 de Alan N2YGK

[in New York County, NY, where we proudly support diversity and
freedom of lifestyle choice and don't boycott the Olympics. Althou

---

656. RE: [APRSSIG:2091] Re: JAVA APRS

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Tue, 18 Jun 1996 10:13:41 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB5CFF.C9D4E850@ppp-102.crpl.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

I find this Java topic to be highly stimulating, and it never ceases to amaze me how imaginative
the people on this sig are. Either everyone here has overly active thought process' or to much idle time
on their hands. So let me see if I can add to all those synapse flying around those unreal net's.
Have you heard about ActiveX? I know how everyone loves Microsoft and they way they get into
everything. ActiveX is MS's answer to Java and with the Beta of Internet Explorer 3.0 available it
look's as
if Netscape has some stiff competition. I've encoded some snippet's about ActiveX from a review I found
on C/Net.

ActiveX works as a kind of framework that runs small programs and can control the way you interact with
the computer. This architecture permits Web pages and the browser itself to be highly customizable.
These new objects are small, since they don't require a traditional browser to run, and nimble, so
you'll see better overall performance when using your browser.

Over time, more software applications will take advantage of ActiveX. That's because ActiveX components
are available to the entire operating system, so you'll see more programs become Internet-savvy over the
coming months. Software developers can write one set of code for productivity software--and easily snap
in Internet features. Internet Explorer 3.0's ActiveX core allows the browser to become a highly
customizable and programmable interface for the Internet, intranets, multimedia titles, and your own
work. Here are the parts of ActiveX you need to know about.

ActiveX Controls: These are small programs embedded in Web pages, and they can control other programs on
your computer. The ActiveX version of OLE controls are stripped down and more lightweight than previous
incarnations of Microsoft's OLE technologies.

ActiveX Scripting: Scripting supports both JavaScript and VBScript (Virtual Basic). Scripting is like
programming, but scripts are included within HTML pages to perform simple tasks and to link ActiveX
Controls, Java apples, and other components. <Picture: click here>

ActiveX Documents: These documents are from applications such as Word or Excel but can be viewed or
edited from within the browser. With some programming, any software vendor can turn their files into
ActiveX Documents.

---

657. GPS display kit available

From: J Goldberg <j@harper.com>
Date: Tue, 18 Jun 1996 08:38:26 PDT
To: aprssig@tapr.org
Message-ID: <9606181538.AA00339@harper.com>
Rendered body type: text/plain

I've gotten several requests for info in the last few days,
so perhaps a reprise of this previous message would be valuable
to the list...
73
j, kd6pbh

The KD6PBH GPS display is a compact unit which shows latitude,
longitude, UTC "zulu" time, the number of satellites and the computed
Maidenhead Grid Square location. As input, the unit takes 9-24VDC and
a serial connection from a GPS receiver which outputs the standard NMEA
GPGGA sentence. Output is provided on an LCD display with 2 lines and
16 characters per line and LED backlight. The 6-character grid square
computation is valid for any North American location.

The heart of the KD6PBH GPS display is an MC68HC705J1A microcontroller in a 20 pin DIP package. This receives the serial input, drives the LCD display module, and computes the grid square from the latlong. Other components include the smart LCD module, a serial receiver chip, on-board power regulator and LCD bias voltage generator. The RS-232 receiver chip has been shown to work with commercial GPS receivers (e.g., the Garmond 45) which can output GPGGA messages on their serial port. The unit consumes 12-15 mA with backlight off and roughly 50 mA with backlight on. Firmware for the micro is burned into on-board PROM.

The kit includes all parts, a PC board, programmed microcontroller, instructions, and the LCD module. Not included in the kit are the external cabinet and connectors for your application. Several folks have used the blue plastic Radio Shack box measuring roughly 1.25 x 2.5 x 4.5 inches, with Molex and/or DB-9 connectors.

The kit costs $45 including tax. Priority mail shipping is $5 more. (If you prefer or require another shipping method, please send me email and I'll get a quotation.) You can reserve a kit by writing email to j@harper.com, calling 619.693.9046, or even sending USMail to

J Goldberg
Harper Technologies
P.O. Box 26910
San Diego, CA 92196-0910

To order, please send a check to the above address. (At this time, I cannot accept credit card orders.) Please allow 2-4 weeks for delivery. If you have reserved a kit in advance, your order will be given priority and filled more quickly (and often from stock within a couple of days).

--
j@harper.com, J Goldberg, Harper Technologies
USnail: P.O. Box 26910, San Diego CA 92196-0910
voice: 619.693.9046, fax: 619.621.9046

---

658. GPS Sentences

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Tue, 18 Jun 1996 12:29:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960618122910.8340B@outland.dtcc.edu>
Rendered body type: text/plain

Someone posted a web site that described the GPS sentences. Would that someone repost the site.

Thanks, Sam K3BY

---

659. Re: [APRSSIG:2060] Re: DFjr & APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 18 Jun 1996 12:53:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960618125112.4997E-100000@arctic>
Rendered body type: text/plain

On Mon, 17 Jun 1996, Steve Hall wrote:

> As far as using the DFjr with APRS - The Dayton release of DOS APRS did not
> support the DFjr with the GPS interface. The latest release also seems to
> have problems if you want DF and GPS data coming in on the same port. I
> tried configuring APRS to use port 1 for both DFjr and GPS and NO TNC but it
> wouldn't work unless I had a TNC selected and used SPM which resulted in
> "buffer overflow errors"

APRSdos REPLY COMMENT: Yes, you must configure for TNC even if you dont use it. You must use the multiport adapter, hve the GPS data going into the DFjr, and then the DFjr will report the DF bearing and the posit to APRS. I have not heard of this buffer overflow error?

de wb4apr@amsat.org

660. Re: [APRSSIG:2062] Re: DFjr & APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 18 Jun 1996 12:59:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960618125530.4997F-100000@arctic>
Rendered body type: text/plain

On Mon, 17 Jun 1996, Steve Hall wrote:

```
> How do I configure APRS to look for GPS and DF data on the same serial port???
>
> For now I will NOT have a TNC hooked up.  Here is my setup.
>     --------
>    |  GPS   | ------------
>     --------             | NC
>                         ---  MOMENTARY SPDT          ---------
>                           --o---------------------- | Laptop  |
>                         ---                          ---------
>     --------             | NO
>    |  DFjr  | ------------
>     --------
> I prefer this over using the GPS input to the DFjr since it allows me to
> determine when to take a bearing.  Also I feel the cars current heading
> needs to be reported at a higher rate than the DF info (especially on curvey
> roads).
```

APRSdos REPLY COMMENT: Yes, now I see. THe GPS will overflow the buffers. You have a good point about needing to see the GPS data inbetween DF fixes!

1) Re-wire the above to have TWO momentary switches. Push one for fixes when needed, push the other for bearings...

2) Use the GPS and a standard HSP switch. THis will let APRS control the GPS posits. THen push the button for the DF data.

In all cases, you must configure for one port operation (TNC) whether you use it or not. THen tell APRS to use SPM or HSP mode for the GPS and then set the DF mode to DFjr form the alt-SETUP-DF menu...

de wb4apr@amsat.org

---

661. Re: [APRSSIG:2082] MIC-E & Voice Repeaters

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 18 Jun 1996 13:18:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960618131453.4997L-100000@arctic>
Rendered body type: text/plain

On Mon, 17 Jun 1996, Mike Musick wrote:

> My experience with packet and FM repeaters begs the question: will users
> willingly put-up with MIC-E operators who have less than perfect signals? I
> know that *I* wouldn't!
>
> IOW, I think it's a really bad idea to rely on DCD to mute the repeater. The
> threshold for detection of valid data on most TNC's requires a signal that is
> practically full-quieting. That's not real-world.

APR COMMENT: THe packet does *not* have to be valid to be detected. My KPC-3 with software DCD will detect the *noisest* packet signal imagniable. SO the noisy packet would be muted. It does have to be near full quieting to be "decoded", however...

de wb4apr@amsat.org

---

662. APRS TRACKING EVENT

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Tue, 18 Jun 1996 10:37:28 -0700
To: aprssig@tapr.org
Message-ID: <199606181737.KAA14234@poseidon>
Rendered body type: text/plain

ATTN: SPEC TRACKING EVENT...
   Noon Saturday June 29th, the Solo Transpac-96 Sailboat race will start, from San Francisco to Kauii, Hawaii.
   Mike Jefferson/WD6EHQ alone and aboart the S/V Foxx Fyre will be passing positions, twice daily, to Bill/KB6LFM in San Leandor, via Pactor on 14065.

```
   Bill will then plot and DR them on APRS and they will be sent on to Yacht
clubs by FAX and on Internet. Aprox 20 S/V will be involved.
   Also they will be uplinked and Gated on 10151/LSB on APRS and possibly on
7085/LSB, for all to see.
   This is a solo single handed race and will take about 20 days, so info will
be posted on APRS daily, conditions and QSO's permitting.
   Other info on Internet at: http://www.wingo.com.80/sss
Anyone wishing to listen in and help out are welcome.

   73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN

WBB/WB6LPG
```

---

663. Re: [APRSSIG:2043] Re: Stamp controller for ICOM available

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Tue, 18 Jun 1996 15:31:41 -0400
To: aprssig@tapr.org
Message-ID: <31C7041D.43C8@pobox.com>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> In a message dated 96-06-16 20:40:12 EDT, you write:
>
> >
> >Will it work with the ICOM-720A?  I bet not.
> >
> >-Lew   W7LVW
> >
> >
> >
>
> I understand that if your icom has a computer interface port it will work.
> I dont even know what a 720A is...But if it uses the ICOM computer standard,
> yes it will.
>
> If a 720A doesnt have a computer port, then that question is kinda silly.
>


Not really.  The 720A *is* computer controllable, *and* does use the ICOM
*standard* interface (albiet, the ICOM standard that was in effect at the
time the 720A's where manufactured - c. 1980).  It's a *binary-digital*
interface via a bank of data-lines at the rear of the unit.  Obviousely,
this is not RS-223.  There have been computer interface systems designed
and published for the unit.

73,

Lew
```

---

664. Power-up Converse mode on MFJ???

From: Joe DeVille <jwdstu@westga.edu>
Date: Tue, 18 Jun 1996 16:49:44 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960618204944.0067a9ec@160.10.4.2>
Rendered body type: text/plain

```
Does anybody know if you can power-up the MFJ 1270/1274 with ver 1.2.9
firmware in Converse mode???? That would make my stand-alone tracker
application MUCH MUCH MUCH easier!

Thanks!
-----------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

---

665. Re: QST Patch and MAR-6 amplifier

From: "Baker, Donn B   RV" <dbb4@PO7.RV.unisys.com>
Date: Tue, 18 Jun 96 16:39:00 CDT
To: aprssig <aprssig@tapr.org>
Message-ID: <31C72213@rsvl_gw.rsvl.unisys.com>

Rendered body type: text/plain

```
Bernard wrote:
>My idea is to build the amp directly on the ground plane of the QST patch
>antenna. One replaces the aluminum ground plane by a PC board and etch (or
>just grind) the striplines right on that.

Don't forget that you'll have to be on the BOTTOM of the ground plane.  If
you try to put the amplifier on the top of the GP (i.e., between the GP and
th "patch" you'll change the characteristics of the cavity that makes the
antenna work.  Not good.

If you use double-sided G-10 or FR-4 PC board, 0.062" thick (1/16" - very
common), a 50 ohm trace is about 0.120" wide.  You should have at least
twice that as clearance between it and the ground plane on the same side as
the trace.  Where the MAR-6 mounts, the GP can come right up to the hole.
 The two GP (top and bottom) will have to be connected together in many
places, especially right at the ground pins of the MAR-6, and along the edge
of the board.

Also, remember that you can't use double-sided board for the "patch."  Use
single sided (or etch one side off), and make sure that the copper side
faces the ground plane.

73 de Donn
WA2VOI
```

---

666. 2-way MIC-E?

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Jun 96 18:12:33 EDT
To: <aprssig@tapr.org>
Message-ID: <960618221233_71301.3106_FHJ46-5@CompuServe.COM>
Rendered body type: text/plain

```
Maybe with my interest in the MIC-E a recent happenstance, I could have missed
some prior dialog, but...

Has there been any discussion about a 2-way MIC-E? The MIC-E sends status
codes, but it would be even better to have the ability to 1) acknowledge a
changed status; 2) activate indicators (or even a limited text display); 3)
remotely activate/deactivate certain status codes.

I have a specific application in mind for the MIC-E in a large-scale annual
public service event, but hesitate because of the risks involved in giving
people "panic buttons" that can't be turned off remotely. Also, one of the
advantages of a simple status system is to cut down on voice traffic, but if
every button push prompts a voice acknowledgement from the net control in order
to confirm, then we've defeated the automated system.

Food for thought?

  ...mike musick/N0QBF
```

---

667. Re: [APRSSIG:2106] Re: Might I suggest...

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Tue, 18 Jun 1996 18:12:24 -0400
To: aprssig@tapr.org
Message-ID: <31C729C8.53ABDF2D@codger.physics.duq.edu>
Rendered body type: text/plain

```
> > Nope. I disagree.  I do *NOT* have time do sift thru the USENET drivel, nor
> > the inclination to beat back yet another Krazy Kevin magazine attack.  We've
> > discussed this before, and I still think this is a bad idea.
>
> How does putting *this* sig on Usenet make it drivel?

It's not this SIG that is the drivel; it's the spam ads that haunt every news group on
the net.

======

I can identify with those people that don't like to find 20-30 messages in their mailbox.
Does this list server provide digest capability?  That way, they'll only get one message
per day.  (A long one, true...)
```

---

668. Re: [APRSSIG:2096] Re: GPS Antenna Preamp

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 18 Jun 1996 15:47:52 -0700

To: aprssig@tapr.org
Message-ID: <2.2.32.19960618224752.006ced90@mail.cts.com>
Rendered body type: text/plain

```
This sounds just like the kind of project that Jack Lau (ARRL technical
department) would like to take on. He designed the no-tune transverters and
has lots of experience and interest in stripline devices. Does anyone have a
contact at the ARRL?

Barbara KK6IB
E-Mail: fehner@cts.com

________________________________________________________________________________
At 05:42 PM 6/17/96 -0500, you wrote:
>At 03:08 PM 6/17/96 -0500, you wrote:
>>
>>     If you're gonna go to the effort to build a preamp for your GPS
>>     antenna, please avoid multiple problems (or complete loss of utility)
>>     down the road and fit a good bandpass filter in front of the amp.
>>     Those little amps are very wide band, and your 2m or 440 or HF rig in
>>     the vehicle with you is gonna swamp the darned thing every time.  I
>>     face this right now with my amp'd Garmin antenna and others know
>>     exactly what I'm speaking of...
>>
>
>Anyone with a design?
>
>Bernard, KB2TGH.
>
>-----
>Bernard Seront, seront@seism1.ess.sunysb.edu
>http://rock.ess.sunysb.edu:8080/
>
>
>
```

669. Re: [APRSSIG:2117] Re: GPS Antenna Preamp

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 18 Jun 1996 06:43:18 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960618104318.0068e394@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 04:49 PM 6/18/96 -0500, you wrote:
>Bernard Seront wrote:
>>
>> At 03:08 PM 6/17/96 -0500, you wrote:
>> >
>> >     If you're gonna go to the effort to build a preamp for your GPS
>> >     ... [not relevant here]
>> >     exactly what I'm speaking of...
>> >
>> -----
>> Bernard Seront, seront@seism1.ess.sunysb.edu
>> http://rock.ess.sunysb.edu:8080/-----------
>Sorry Bernard but i have to disagree with the above statement that it will
>swamp the darned thing everytime!.

I agree with you on the fact that I too disagree with the above statement!
But I have to disagree with you on one point, though, as I didn't made the
above statement!

:-)

Seriously, experiment will tell if this is a problem, first I will try
without any filtering and see.
Did someone actually looked inside an active antenna and can give us some
clue as what type of filtering they use, and a ref for the amp used would be
nice too.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

670. Re: MIC-E & Repeaters

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Jun 96 18:12:25 EDT

To: <aprssig@tapr.org>
Message-ID: <960618221224_71301.3106_FHJ46-3@CompuServe.COM>
Rendered body type: text/plain

Sam, WJ8T, writes:

>Do you or your users now "put up with" folks who's signals are less
>than perfect?

Certainly. But not any that contain packet bursts at every unkey.

>From what I have seen at Dayton, the burst from a
>MIC-E is very short.. Shorter than your average packet because the
>TXD is gone.

And also because of the compressed format.

>Wonder if you have heard the signal from a MIC-E module.

Admittedly, no. But I remained concerned - concerned enough to get a MIC-E and try it for myself. No offense to our venerable leader and main "idea guy" around here, but we do have a track record of pressing the limits and using tech specs to create "good enoughs" that aren't.

>The burst is not as offensive as 1/2 of the "courtesy" tones I hear on
>Repeaters already.

Pretty shaky standard for comparison! ;-)

Maybe "offensive" is a matter of taste. I know that I don't like to listen to packet on voice channels, and bristle every time I do. I additionally have some exposure to a data-burst-on-unkey system, implemented by Burlington Northern Railroad a decade or more ago. Even with a tone pair that is "milder" than the pair we use, I still find it obnoxious and distracting.

>PLUS my TNC's regularly decode signals in the
>range of strength in the "comfort zone".

I still think that this is optimistic. I asked my neighbor and local packet guru (who's on the TAPR board, by the way) about quieting requirements, and it was his response of "pretty quiet - S7 or better, typically" which prompted my questioning the DCD approach, aside from my own experiences.

>This will get people asking questions on
>what the Burst is.

And open a whole can of worms about packet bursts on voice machines. On a closed repeater this is no big deal and would be a good way to "advance the state of the art" within a finite community. But on an open system watch out for the lids, kids and space cadets who suddenly think packet's ok on the voice machine. "Do as I say and not as I do" takes on a whole new dimension when you don't have your user base on a tether.

>> 1) 9600 baud.
>
>Plus, the Signal quality needs to be better than at 1200Baud. The
>comfort zone will have to be the easy-chair zone.

True. I don't see this as a problem, but, then, I'm a strong advocate of moving the packet community to 9600 as the preferred standard. 144.91-145.09 is bursting at the seams and we've got to get real and adopt a denser protocol.

>>DSP would reliably pull the tones out of the hash.
>
>I think the hash won't be as bad as you think.

The hash I speak of is the background noise in low-quality signals.

>Isn't a seprate Data Channel the same as a stand alone tracker on
>145.790 Mhz??

Exactly.

>The MIC-E is NOT blind.. It has simple busy channel monitoring
>capabilities...

I stand corrected, then. Good show. We just have to keep people from using MIC-E's and trackers with transmit-only setups like the Agrelo modules (sorry, Joe!).

```
>...that would work wonderfully on a Voice Channel.

And we're back where we started - I'll reiterate that I don't like mixing
analog voice and data on the same channel without the data content being
completely transparent to voice users who aren't participating in the data
system. This includes things like "CTCSS when voice" systems, which requires
the user to know the tone and its purpose. The uninformed user should not have
independent operation negatively impacted by a co-channel data system, and the
MIC-E system as it stands doesn't meet that need.

Understand that I'm not at all against the MIC-E, just advocating that it needs
a bit of fine-tuning. As existing, it is an excellent (actually, *great!*)
system for a closed environment, where all users are at least appraised of its
presence if not actually participating. But on an open, general-access system?
Not a good idea without some more refinement.

And this dialog gave me an idea. I'll post separately...

See you there.

  ...mike musick/N0QBF
```

---

671. Re: [APRSSIG:2106] Re: Might I suggest...

From: rwf <rwf@mindspring.com>
Date: Tue, 18 Jun 1996 19:22:23 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960618232223.009dd4c8@mindspring.com>
Rendered body type: text/plain

```
Richard A muttered:
>How does putting *this* sig on Usenet make it drivel?

This isn't the drivel, the SPAM is. Have you read Usenet lately?
```

---

672. re: Might I suggest...

From: "Tony Flusche" <Tony_Flusche@compuware.com>
Date: Tue, 18 Jun 96 16:20:19 EDT
To: aprssig@tapr.org
Message-ID: <199606182326.AA15655@stargate.compuware.com>
Rendered body type: text/plain

```
Personally I vote to leave the sig the way it is.  For those tired of
     getting "too many" messages try digest mode.  Send to
     LISTPROC@TAPR.ORG  Note to the listserv note the sig!!!
     In the body type SET APRSSIG MAIL "password" DIGEST.  "password" is
     your personal password assigned to you when you subscribed to the sig.
     This will bundle the messages into 1 or 2 messages a day.  The current
     size of these is around 40k each.
     73 AB6BR
```

---

673. Re: [APRSSIG:2098] Re: MIC-E & Voice Repeaters

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Tue, 18 Jun 1996 19:14:09 -0500
To: aprssig@tapr.org
Message-ID: <199606190018.TAA11906@sparc.isl.net>
Rendered body type: text/plain

```
>On 17 Jun 96 at 13:43, Mike Musick wrote:
>
<snip>

>> 3) Separate transceiver for MIC-E. IOW, a "data channel", something
>> we've already developed. If there was a big push here to implement
>> MIC-E quickly, that's how I'd do it.
>
>Isn't a seprate Data Channel the same as a stand alone tracker on
>145.790 Mhz??

To me, the MIC-E sounds interesting just because it operates with an
existing radio and antenna.  That would certainly make it more viable for
large-scale use for, say, Skywarn.

>
>> You'll notice that on #3 I said "transceiver", and that includes a
>> full TNC with a means to hold transmit if the channel is busy. I'm
>> not happy with the suggestions I've seen about blind transmitters;
>> this is very poor Amateur practice and would earn an Official
>> Observer notification if I caught it in use.
```

>
>The MIC-E is NOT blind.. It has simple busy channel monitoring
>capabilities that would work wonderfully on a Voice Channel.
>

Do I understand right that the MIC-E sends its burst at the end of the voice transmission? If so, then there would be *no* channel monitoring needed as it would be piggy-back on a transmission in progress.

73.
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

---

674. Re: [APRSSIG:2058] Re: More serial Port help needed!

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 18 Jun 1996 20:55:27 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606182041.A28034-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I have two computers that use two systems for extending the com: port situation. One computer uses a Hayes ESS card which has an extension to the 16 byte buffer that the 16550 offers: it has 1k bytes of hardware buffer on board, and also has a multiplier that allows 4x and 8x of the present baud rate (115 kbaud x8). I don't run that fast, but do make use of the COM3 or COM4 extension which can be IRQs of beyond the 4 and 3 that are the default.

The other computer has a com card with two 16550 chips on it. They can be any com: port, up to 10 I think, and can be any IRQ up to 13 I think. This is nice, but the PC will still run out of IRQs fairly quickly, especially if you have a sound card. I use this one to give me com3 and com4 so I can run WISP, the satellite program, which runs my TNC and my TAPR TrakBox. I also have a mouse and a phone modem on the other com: ports.

I got both of these cards locally (Fort Lauderdale) at Comp USA and Computer City. These are two large computer stuff outlets kind of like Kmart for the computer folks.

This stuff is available, and I didn't pay more than 40 dollars for the dual 1550 card and 80 dollars for the Hayes ESP card.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 17 Jun 1996, Paul Moller wrote:

> A word of advise that saved me a lot of trouble .... Video cards that use
> the "S-3" chip set (many new ones do) will cause address conflicts with
> com4. This will NOT show up as a conflict in device manager because device
> manager looks at the first address of the range only. The S-3 chip set uses
> a couple of addresses in the middle of the com4 range. In summary, if you
> have an S-3 chip set, com 4 is out of the question.
>
> I found out my motherboard took
> >control of which interupt the video card had. Then it and Win95 proceeded to
> >dole out the other interupts etc. When I got to setting the 4th port for my
> >KPC-3 to use I was having lots of fits. I had to investigate what devices
> >where using what interupts and compare that to what was available and that I
> >could move about. USE CAUTION HERE!!!!
> Paul, WD9ABE
>

---

675. Re: [APRSSIG:2063] Re: winAPRS/win95, extra serial por

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 18 Jun 1996 20:59:21 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606182004.B28034-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I understand your hesitation. I have been running OS/2 very well with my extra cards but Win95 is fussy. I finally did get everything except my 8x CDrom drive and LPT1 to behave. They conflict somehow, even though Win95 says there are no conflicts.

```
John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Mon, 17 Jun 1996 schiers@ames.net wrote:

> In <712598@bbs.ames.net>, on 06/17/96 at 08:34 AM,
>    aprssig@tapr.org said:
>
> >I use a serial board made
> >by "4-com" which is availble from NECX (look in computer shopper or
> >http://www.necx.com/
>
> I use a couple of these cards under OS/2 and they work beautifully. I want
> to add them to my WinAPRS machine (Win95), but have been hesitating for
> obvious reasons.
>
> I am using IRQ 2/9 for my bus mouse and com1/2 for WinAPRS. What would you
> use for the 4 additional IRQ settings on this board? I can figure out
> addresses, but am not familiar with how finicky Win95 is  going to be with
> interrupts. With OS/2 it is a piece of cake, but I am not nearly so
> confident of what I have seen so far with Win95.
>
> 73,
>
> hasan schiers, N0AN--
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------
>
```

---

676. Re: [APRSSIG:2125] Re: JAVA APRS

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Tue, 18 Jun 1996 21:04:41 -0400
To: aprssig@tapr.org
Message-ID: <31C75229.1752B6A@codger.physics.duq.edu>
Rendered body type: text/plain

```
David E. Barrett wrote:

> Have you heard about ActiveX? I know how everyone loves Microsoft and they way they
> get into everything. ActiveX is MS's answer to Java and with the Beta of Internet
> Explorer 3.0 available it look's as if Netscape has some stiff competition.

Well, the way things look, nothing written in ActiveX will be run on my computer for a
very long time.  The reason is because of Microsoft's constant insistence to create
new standards, rather than extend and enhance existing ones.  (I guess that they
didn't learn from IBM's experience with Microchannel.  A very good bus, mind you, but
not really worth the premium price.)

Also, it appears that M$ has absolutely no interest in supporting the machines that
are already out there; particularly the *nix market.  Anything that is going to be a
serious contender in the  Internet market simply HAS to be available for the major X
platforms (Sun, SGI, etc.; and it's not far from there to BSD and Linux), or it won't
get used by those with the influence.  Sure, they'll have the college crowd running on
their machines in the dorms, but that's not where the bucks are.

Enough of that for me....
```

---

677. Re: [APRSSIG:2102] Encoded messages

From: Lou Sposa <lousposa@worldnet.att.net>
Date: Wed, 19 Jun 1996 01:32:11 GMT
To: aprssig@tapr.org
Message-ID: <199606190132.BAA12014@mailhost.worldnet.att.net>
Rendered body type: text/plain

```
I agree!!!! Please no attachments.


At 08:36 PM 6/18/96 +0000, you wrote:
>Once again, I plead to the SIG NOT to send these long long attached encoded
>files!  Last time I was flamed into oblivion by the 1 or 2 people who actually
>wanted these files.  Attached files to E-Mail , especially long ones like that
>GRAN.EXE are only good to those who can decode them.  I do not have any way
>to do this as I have an E-Mail only account that offers no extras.  Also, I
>have to download all the messages at once with no pickychoosy  of ones I prefer
>
```

```
>not to read.  Its all or none!  Luckily I didn't print it out!  Where do people
>get the decoders for these strange files??  I have no FTP services so I can't
>download it unless it is on a local BBS.  Downloading 165 messages today ran
>up close to a Megabyte of text because of that GRAN.EXE file!  So, save your
>Flamethrowers, just don't waste my and most everyone elses disk space with
>un-decodeable files.  Put them in the TAPR FTP section or on a BBS, but PLEASE
>NO MORE ATTACHED E-MAIL FILES!  Thank You
>Pat Bunsold WA6MHZ
>PS The rest of the SIG data is great and is extremely helpful  for APRS addicts
>like myself!  Keep sending out those hints and kinks!
>
>
Lou Sposa
79 Fiesta Way
Ft Lauderdale, FL 33301-1414
954-523-5122
954-523-1262/FAX
```

---

678. Multi Com Ports

From: "Mike Walker" <mwalker@interlog.com>
Date: Tue, 18 Jun 96 21:57:43 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199606190159.VAA14463@gold.interlog.com>
Rendered body type: text/plain

```
If you are using os/2 and are attempting to access com4, you don't need to
address it  as x'2e8' (I think this is the stardard address).  I use an ATI
Mach 64 card and had to change my com 4.  I found that x'1e8' does me just
fine.  My modem runs off that port at irq 11.

My com 3 is x'3e8' at irq 12 and com 1 and 2 are normal.

Some os/2 shareware programs allow you to move your mouse up to com3 or above
so you can free up 1 and 2 for dos applications.

Hope this helps

mike

Mike Walker                               mwalker@interlog.com
127 High St. W.                               rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

679. Re: [APRSSIG:2120] winaprs and os/2 (or os2aprs)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 18 Jun 1996 21:02:51 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606190202.VAA08395@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Actually, I'd prefer to port the GUI version, rather than try to recompile the
keyboard driven version.

The Programmer's Workbench and compiler are pretty good at semi-automated
porting of Windows code to OS/2.

gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

---

680. Re: [APRSSIG:2121] Re: JAVA APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 18 Jun 1996 21:05:22 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606190205.VAA08413@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Dale Heatherington sez:
>
> "stay tuned".   OS/2 Java won't be publicly released
> for at least 3 months so I can't run it now anyway.  I could
> download the Java beta now but I really don't don't want to deal
> with the bugs ;-)
```

I downloaded it today, between server crashes at tobo.ucsd.edu (getting some long-baseline observations for a littpel GPS surveying project in Azerbaijhan), and I plan to install it tomorrow morning or Thursday. I'll let you know how the buglettes are. I *am* installing it in a seperate directory so I can go back to 1.1B if it flakes.

gerry

681. map making

From: "John F. Kraus II" <JKHAM@delphi.com>
Date: Tue, 18 Jun 1996 23:13:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01I62L1F6T7M90S7LV@delphi.com>
Rendered body type: text/plain

I have a short question on mapfix and the mkmap**.exe programs.
What are the latest versions and are they at the tapr ftp site?

John F. Kraus II <JKHAM@DELPHI.COM> OR <KC4ZGQ@IX.NETCOM.COM>

682. Re: [APRSSIG:2118] Re: Might I suggest... [USENET Group]

From: Joe DeVille <jwdstu@westga.edu>
Date: Wed, 19 Jun 1996 00:18:03 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960619041803.0066e708@160.10.4.2>
Rendered body type: text/plain

> Dennis Mobley wrote:
> >> Folks,
> >>
> >> While I enjoy the on going discussions on the APRS SIG,
> >> it might be time for moving the SIG to a USENET news group.

Then I said:
> Since my internet access comes through my educational
> institution, I am limited to the newsgroups they subscribe to, which do not
> include any of the REC groups.

---------Stuff deleted------------

Then Dennis later said:
>There are those of us that use EMail for professional reasons and
>sorting out the APRS from the business mail get to be a bit much.

My reply:
SUGGESTION: You can get FREE email accounts from freenets, JUNO, etc. Get one of these and use one account for business, and another for listserv activity. That's what I do!

>Question to the SIG manager, one solution would be an archive that
>could be access via the WWW.

This would be a great idea too, but PLEASE don't make this a USENET group!

```
------------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

683. Ignition noise !help!

From: Joe DeVille <jwdstu@westga.edu>
Date: Wed, 19 Jun 1996 00:28:56 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960619042856.0068bc68@160.10.4.2>
Rendered body type: text/plain

Ok, sorry if this is a little off topic, but it directly involves APRS.

I am in the process of trying to get a stand-alone tracker in my car. I am using the following equipment:
Magnavox MX-4200 GPS
MFJ-1274 TNC W/ v1.2.9 firmware (GPS compatible--the new one).
Clegg-22 FM Transciever (oldie, but goodie!)

```
All this is wired into the fuse box via an unused fuse contact.

Here's the problem:  Ignition noise.  It does the following:

1. My TNC DCD light stays on, so no packets are TX.
2. Distorts my signal somewhat.  It isn't too noticible on voice, but it
seems to be more prominient on packet, probably due to the radio-->tnc cable.

I tried running the TNC on batteries, and that solved the problem, but I
would much prefer to run it off the car electrical system.

Does anybody have any ideas on solving this noise problem??  I don't know
beans about ignition filtering.  I haven't been able to find any
commercially available solution either.

Thanks in advance!
-------------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

684. Re: [APRSSIG:2102] Encoded messages

From: rsellers@misha.net (Roger Sellers)
Date: Wed, 19 Jun 1996 00:30:49 -0500
To: aprssig@tapr.org
Message-ID: <199606190530.AAA15636@misha.net>
Rendered body type: text/plain

```
>Pat Bunsold WA6MHZ wrote:
>Once again, I plead to the SIG NOT to send these long long attached encoded
>files!  Last time I was flamed into oblivion by the 1 or 2 people who actually
>wanted these files.  Attached files to E-Mail , especially long ones like that
>GRAN.EXE are only good to those who can decode them.  I do not have any way
>to do this as I have an E-Mail only account that offers no extras.
>get the decoders for these strange files??  I have no FTP services so I can't
>download it unless it is on a local BBS. ...
> but PLEASE NO MORE ATTACHED E-MAIL FILES!  Thank You

I too got the file as did everyone else, it's not the SIG's fault, a user
did it. I suspect everyone got it because the sender didnt pay enough
attention to whom he sent the message and it got sent to the SIG. Hey stuff
happens!! We're all new once in a while, granted it happens here
occasionally but usually not from the same guy more than once or so.

   I suspect if every HAM here flamed a new HAM like they do a person doing
accidently sending the attached messages on the SIG, there would be a LOT
less HAMs to talk to!

  Remember this is nicknamed the Information SUPER Hiway, it isnt always a
walk in the park. Have some patience out there. If I and others replied to
EVERY message I thought was useless and wasted bandwidth there would be 3-4
times more messages I suspect.
  Newbies here should practice sending attachements with messages locally
before  posting to the SIG I suspect. As far as not having an email reader
that wont handle attachments correctly. Get a new reader that does. I was
lambasted, heckled, flamed, etc about my Windows 95 Explorer sending
attachments accidently that I didnt even know was being done. I was in
essence FORCED to find a different E-mail utility or not post any messages.
The lesser of 2 evils was a new browser. Eudora version work fine and are
easily found. There's really no excuse for not being able to find a good
reader that will handle attachments. Before complaining about someone elses
lack of expirience, make sure you got your bases covered.

  This is MY opinion, please reply directly and not via the SIG. Any
disgruntled replied can be addressed to me by using the DELETE key.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

685. Re: [APRSSIG:2104] Re: Might I suggest... [USENET Group]

From: N5RKN@aol.com
Date: Wed, 19 Jun 1996 01:55:57 -0400
To: aprssig@tapr.org
Message-ID: <960619015555_220350656@emout07.mail.aol.com>
Rendered body type: text/plain

```
Okay...okay..okay..... So, I was one of the group that "jumped on the
bandwagon"
about moving the APRS mega bulletins.  Well, hey!  I was just looking at
alternative
solutions.  Whether or not it was to a USENET group or to some other method,
there
must be another way to break these down to a more usable level.  One in which
we
could request subscription to only certain criteria within the APRS msgs.  No
offense
guys & gals, but I'm not interested in the Florida GPS info and about 3/4 of
the msgs.... But, there are some that tweak my curiosity.  So, I keep the
bulletins
coming.  However, I do a lot of deletes without even looking at the text, if
they don't
qualify to my interest level.
 Let's see if we can find a way to solve this.  Yes... these requests hit
every few
months.  But, they are valid.  Don't keep bitching about them.  Find a
solution...jeez.
  Robert   N5RKN
```

686. RE: Might I suggest...

From: stanzepa@usa.nai.net (stan horzepa)
Date: Wed, 19 Jun 1996 08:21:46 -0400
To: aprssig@tapr.org
Message-ID: <v01530501adeda0b4d1e4@[206.98.48.209]>
Rendered body type: text/plain

```
The TAPR mailing list software supports 'digest' mode.  Digest mode
generates a periodic message each day containing multiple messages,
instead of sending you each message individually.  If you feel close to
information overload, you may find digest mode to be very useful.

If you would like to change to digest mode, send a message to
listserv@tapr.org containing only the following line:

   set APRSSIG mail digest

Enough said!
```

687. Re: [APRSSIG:2107] Re: JAVA APRS

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 19 Jun 96 08:26:17 -0400
To: <aprssig@tapr.org>
Message-ID: <199606191223.IAA23051@bridge.net>
Rendered body type: text/plain

```
>OK, who is the JAVA hacker out there?
>
>How do you open serial ports in JAVA on 95 and MAC?
>
On the Mac, you have to write a native code object, actually pretty easy.
Don't know about windows.

I think, though, I need to restate my plans for javAPRS. I will not be
writing a full featured version of the APRS protocols. My desire is for a
set of Java applets that allow for a much greater presence of APRS on the
WWW. All of my released programs will be cross platform Java, which means
NO serial port access.

If someone else wants to re-invent the wheel and do a full APRS version
in JAVA I'd like to work with them to make our objects have a common
interface, which would benefit everyone. I have no desire to write and
support a monster set of features in a full APRS. javAPRS will strictly
be things _I_ think are cool...but please feel free to attempt to
convince me of those things _you_ think would be cool!

73 de Steve
```

688. Re: [APRSSIG:2142] Re: MIC-E & Voice Repeaters

From: rwf <rwf@mindspring.com>
Date: Wed, 19 Jun 1996 10:42:12 -0400

To: aprssig@tapr.org
Message-ID: <2.2.16.19960619101717.2dc71eb2@mindspring.com>
Rendered body type: text/plain

Tony said:

>
>Do I understand right that the MIC-E sends its burst at the end of the voice
>transmission? If so, then there would be *no* channel monitoring needed as
>it would be piggy-back on a transmission in progress.

Mostly so. If the user hasn't transmitted in a while, a timer will cause a
transmission, too.

Ralph

689. Re: [APRSSIG:2138] Re: GPS Antenna Preamp

From: rwf <rwf@mindspring.com>
Date: Wed, 19 Jun 1996 10:42:14 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960619101719.3307bca2@mindspring.com>
Rendered body type: text/plain

Bernard said:

>Did someone actually looked inside an active antenna and can give us some
>clue as what type of filtering they use, and a ref for the amp used would be
>nice too.
>
Yes, I did. I opened the MA/Com amplified hockey puck (65.00 I think) and
it had a cute little cavity type filter. (At least that's what I think it
was) It looked like a really miniscule interdigital filter like we use on ATV.

They use their commecrially available 1575 (or whatever)
GPS-preamp-on-a-chip   ($8.00, I think) in this unit.

MA/Com sent me a sample chip- I gave it to KA4IIA.   Folks building GPS
preamps wight well look at this chip, but personally- I'll buy any future
ones commercially. I don't have the time to try to homebrew something that
is potentially this troublesome. Especailly when I can buy a Trimble puck
from Paccomm for 65.00 or whatever it is.

By the way- I took the cover off a Motorola active antenna too. The
electronics were not visible, they are underneath the patch, which is sealed
in metal.

Ralph

690. Re: [APRSSIG:2150] map making

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 19 Jun 1996 10:51:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960619104703.24586A@arctic>
Rendered body type: text/plain

On Wed, 19 Jun 1996, John F. Kraus II wrote:

> I have a short question on mapfix and the mkmap**.exe programs.
> What are the latest versions and are they at the tapr ftp site?

APRSdos REPLY COMMENT: MPFIX25 is the latest and has a very fast FIND
and TRIM capability but it does not keep the white circle on the last
point of a feature if you delete it. So I m using 25, but keep 24 or 23
as a backup..

MK100Kxx... GREAT NEWS> Jack has a beta version out that will generate
an NxN matrix of maps. Bill nolle just did 10 by 10! and these maps
include water and airports and boundary lines! Looks good to me Bill!
Thanks Jack. It is not yet posted, but any day now... Bill did all of
atlanta...

de wb4apr@amsat.org

691. Re: [APRSSIG:2150] map making

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 19 Jun 1996 10:55:38 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.960619105120.24586B@arctic>
Rendered body type: text/plain

```
On Wed, 19 Jun 1996, John F. Kraus II wrote:

> I have a short question on mapfix and the mkmap**.exe programs.
> What are the latest versions and are they at the tapr ftp site?

APRSdos REPLY COMMENT:  One other comment about MAPFIX..  BILL WAS
RIGHT!  Mapfix does create some 45 degree shortcuts when you do the
TASKS-SCRUNCH command.  So my recommendation is NOT to use TASK-SCRUNCH
on any of the 100k maps.  If you need to remove points, go to the red
roads and smooth out all the jaggedness.  Next look for an area of
lots of straight blocks where you can re-draw the grid of streets with
long straight lines instead of the block-by-block organization of the
current data.  I draw new yello roads over the whole block area, then
delete the gray points underneath.  When Im done, then CHANGE-COLOR back
to gray...  Do NOT use MAPFIX25 for deleting the LAST two points in a
feature, or it will creat a single point.  Then you must use TASK-CLEAR
to get rid of it...

de wb4apr@amsat.org
```

---

692. RE: [APRSSIG:2139] Re: MIC-E & Repeaters

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Wed, 19 Jun 1996 11:08:19 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB5DD0.972EFB80@ppp-103.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
And we're back where we started - I'll reiterate that I don't like mixing
analog voice and data on the same channel without the data content being
completely transparent to voice users who aren't participating in the data
system.

I'm probably all wet with the suggestion I'm about to offer to mixing APRS data burst's on voice
and it may be due to not enough range in the audio spectrum. Why not use modified TNC's that
use subaudible tones instead of audible? They work for closed repeater access so it should in theory
work, shouldn't it?????
```

---

693. Help with GPS-75 and mobile setup needed

From: Bob Derderian <n2iph@cyberenet.net>
Date: Wed, 19 Jun 1996 12:26:40 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <31C82A40.85A@cyberenet.net>
Rendered body type: text/plain

```
Hello all,

Looking for some info on the Garmin GPS-75, specifically the connection
information for the cable (I know the red and black are +12VDC and
ground respectively), I need to know the data out leads, are they brown
and white? What are the Blue and Red w/Blk trace leads?

Also, has anyone connected a TNC to a TM-742A and if so any hints/kinks?
I plan to make all connections to the rig thru the RJ-45 connector.

My complete mobile setup will be;

Kenwood TM-742A
Kantronics KPC-3 w/Ver 5.0 firmware
Garmin GPS-75 rev ?? firmware
Agrelo DFjr w/Multi-port adapter
IBM Thinkpad 701C running DOS APRS 76d
TEKK KS-960 UHF Data radio (9600 ready)

Any help would be appreciated.

thanks, Bob
```

---

694. APRS Arkansas?

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 19 Jun 1996 12:16:09 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199606191717.MAA10302@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Anybody out there? Aprs Arkansas?
--
```

KC5JGV
Marshall, Arkansas

---

695. Re: [APRSSIG:2157] Re: MIC-E & Voice Repeaters

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 19 Jun 1996 13:42:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960619134106.8605A-100000@arctic>
Rendered body type: text/plain

```
On Wed, 19 Jun 1996, rwf wrote:

> Tony said:
> >Do I understand right that the MIC-E sends its burst at the end of the voice
> >transmission?  If so, then there would be *no* channel monitoring needed as
> >it would be piggy-back on a transmission in progress.
>
> Mostly so.  If the user hasn't transmitted in a while, a timer will cause a
> transmission, too.

APRSdos REPLY COMMENT:  But only if the channel has been *not busy* for a
given time period (user settable)

de wb4apr@amsat.org
```

---

696. Joining the mile-high club

From: Joseph Novak <star@pbfreenet.seflin.lib.fl.us>
Date: Wed, 19 Jun 1996 13:44:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9606191329.A13506-0100000@pbfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Last week I found myself in a window seat of a Delta DC-9 flying
from Atlanta to Washington, D C.  About halfway through the
flight, I decided to check out my Garmin 45.  It had been used last in
the South Florida area.  I placed the antenna next to the window and
after about five minutes it began to acquire satellites.

Even with the encouragement a couple attractive flight attendants,
the unit would not lock, not even after displaying signals
from five satellites.  Kind of disappointing.  Does anyone know why it
did not work??  Has anyone had success?

I was assigned an isle seat on the return trip.


Joe Novak
star@pbfreenet.seflin.lib.fl.us
```

---

697. APRS Page

From: w2g3zfj@unix.asb.com (bob)
Date: Wed, 19 Jun 1996 14:04:19 -0400
To: aprssig@tapr.org
Message-ID: <199606191815.OAA14495@unix.asb.com>
Rendered body type: text/plain

```
Hi Folks

I have just added a couple of views of my winAPRS screens to my home page if
you're interested.

http://www.asb.com/usr/w2g3zfj/aprs1.htm

I will add more items of interest as time progresses!

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
```

---

698. Re: [APRSSIG:2161] Re: MIC-E & Repeaters

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Wed, 19 Jun 1996 14:47:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.93.960619144156.15292C-100000@garc.gsfc.nasa.gov>
Rendered body type: text/plain

```
On Wed, 19 Jun 1996, David E. Barrett wrote:

>
```

>
> And we're back where we started - I'll reiterate that I don't like mixing
> analog voice and data on the same channel without the data content being
> completely transparent to voice users who aren't participating in the data
> system.
>
> I'm probably all wet with the suggestion I'm about to offer to mixing APRS data burst's on voice
> and it may be due to not enough range in the audio spectrum. Why not use modified TNC's that
> use subaudible tones instead of audible? They work for closed repeater access so it should in theory
> work, shouldn't it?????

If things are implememted as suggested, Voice users will not even hear the
data packets on the repeater. Data packets will only be heard over
repeaters that are not setup for voice/APRS operation. What's the
problem? If people are worried about data bursts over non-APRS
repeaters, just turn off the encoder when using such systems. Kind of
like people complaining about "sub-audible tones" on repeaters that don't
require them. Can't please everyone.

--
Randy Hammock KC6HUR | E-Mail: kc6hur@garc.gsfc.nasa.gov
8951 Tamar Drive, Apt 101 | Voice: +1-410-964-5503
Columbia, MD 21045 |

699. Joining the mile-high club

From: Ed Troy <etroy@aeroconsult.com>
Date: Wed, 19 Jun 1996 14:49:14 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960619184914.006d1e90@popmail.voicenet.com>
Rendered body type: text/plain

I'm not sure about the Garmin 45, but a lot of the low cost units are
specifically designed so that they will not work in aircraft. I guess they
are afraid of liability .. either that or they want to soak the aviators
(myself included) with specific units designed for avaition use. These
avaition units, as you might guess, are much more expensive, although they
usually include databases that are useful to pilots, but not available on
the low-cost units.

Ed
****
Ed Troy
Aerospace Consulting
http://www.aeroconsult.com

RF, Microwave, Wireless, and Analog Design, Development, and
Consulting. Also, circuit board layout using PCAD, software
development, and GPS applications
****

700. Re: [APRSSIG:2162] Help with GPS-75 and mobile setup needed

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 19 Jun 1996 14:36:31 -0500
To: <aprssig@tapr.org>
Message-ID: <199606191937.OAA11684@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

The Brown is data + and the white data - . I think. My manual is at the
house. I'm sure that's right.
BTW, I too am setting up my mobile with almost exactly the same
equipement! Except I'm using a MFJ Data Radio, and a 486 Grid KomPooteer.
:-)
--
KC5JGV
Marshall, Arkansas

> From: Bob Derderian <n2iph@cyberenet.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:2162] Help with GPS-75 and mobile setup needed
> Date: Wednesday, June 19, 1996 11:42 AM
>
> Hello all,
>
> Looking for some info on the Garmin GPS-75, specifically the connection
> information for the cable (I know the red and black are +12VDC and
> ground respectively), I need to know the data out leads, are they brown
> and white? What are the Blue and Red w/Blk trace leads?
>

```
> Also, has anyone connected a TNC to a TM-742A and if so any hints/kinks?
> I plan to make all connections to the rig thru the RJ-45 connector.
>
> My complete mobile setup will be;
>
> Kenwood TM-742A
> Kantronics KPC-3 w/Ver 5.0 firmware
> Garmin GPS-75 rev ?? firmware
> Agrelo DFjr w/Multi-port adapter
> IBM Thinkpad 701C running DOS APRS 76d
> TEKK KS-960 UHF Data radio (9600 ready)
>
> Any help would be appreciated.
>
> thanks, Bob
```

---

701. Re: [APRSSIG:2165] Joining the mile-high club

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 19 Jun 1996 14:39:12 -0500
To: <aprssig@tapr.org>
Message-ID: <199606191940.OAA11752@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
How fast was the plane flying. I'd bet more than the limit of 99 mph! At
least I'd hope so! If not, then I hear you can drive faster than that from
DC to Olympic Central! :-)

--
KC5JGV
Marshall, Arkansas

----------
> From: Joseph Novak <star@pbfreenet.seflin.lib.fl.us>
> To: aprssig@tapr.org
> Subject: [APRSSIG:2165] Joining the mile-high club
> Date: Wednesday, June 19, 1996 12:59 PM
>
> Last week I found myself in a window seat of a Delta DC-9 flying
> from Atlanta to Washington, D C.  About halfway through the
> flight, I decided to check out my Garmin 45.  It had been used last in
> the South Florida area.  I placed the antenna next to the window and
> after about five minutes it began to acquire satellites.
>
> Even with the encouragement a couple attractive flight attendants,
> the unit would not lock, not even after displaying signals
> from five satellites.  Kind of disappointing.  Does anyone know why it
> did not work??  Has anyone had success?
>
> I was assigned an isle seat on the return trip.
>
>
> Joe Novak
> star@pbfreenet.seflin.lib.fl.us
>
```

---

702. Re: [APRSSIG:2165] Joining the mile-high club

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 19 Jun 1996 15:33:18 -0700
To: aprssig@tapr.org
Message-ID: <31C8802E.742E@concentric.net>
Rendered body type: text/plain

```
Joseph Novak wrote:
>
> Last week I found myself in a window seat of a Delta DC-9 flying
> from Atlanta to Washington, D C.  About halfway through the
> flight, I decided to check out my Garmin 45.  It had been used last in
> the South Florida area.  I placed the antenna next to the window and
> after about five minutes it began to acquire satellites.
>
> Even with the encouragement a couple attractive flight attendants,
> the unit would not lock, not even after displaying signals
> from five satellites.  Kind of disappointing.  Does anyone know why it
> did not work??  Has anyone had success?
>
> I was assigned an isle seat on the return trip.
>
>
> Joe Novak
> star@pbfreenet.seflin.lib.fl.us

My semi-educated guess would be that 1)you were traveling too fast for
the GPS-45, 2)I think the limit of speed in the GPS-45 is 100 knots or
something like that.3)The aircrafts metal body was hindering the signal.
By the way, I'm suprised you didn't get in trouble for firing it up in the sky.

Anyway, that's my 2 cents worth, not a penny less, or a penny more, hi.
And you know what 2 cents can buy these days;-)

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

703. Re: Joining the mile-high club

From: rgeer@physio-control.com (Gumby)
Date: Wed, 19 Jun 96 13:06:54 PDT
To: aprssig@tapr.org
Message-ID: <9606192006.AA18665@physio-control.com>
Rendered body type: text/plain

```
On Wed, 19 Jun 1996, Joseph Novak <star@pbfreenet.seflin.lib.fl.us> said

[Stuff removed to save bandwidth]
> I placed the antenna next to the window and
> after about five minutes it began to acquire satellites.
>
> Even with the encouragement a couple attractive flight attendants,
> the unit would not lock, not even after displaying signals
> from five satellites.  Kind of disappointing.  Does anyone know why it
> did not work??  Has anyone had success?

I believe the 45 has a 99 knot speed limit built into it.
 (Very disappointing)
```

---

704. [APRSSIG:2169] Re: Help with GPS-75 and mobile setup needed

From: ttyamada@CCGATE.HAC.COM
Date: Wed, 19 Jun 96 14:01:31 PST
To: aprssig@tapr.org
Message-ID: <9605198352.AA835218607@CCGATE.HAC.COM>
Rendered body type: text/plain

```
>Hello all,
     >
     >Looking for some info on the Garmin GPS-75, specifically the
     >connection information for the cable (I know the red and black are
     >+12VDC and ground respectively), I need to know the data out leads,
     >are they brown and white? What are the Blue and Red w/Blk trace
     >leads?

     >Also, has anyone connected a TNC to a TM-742A and if so any
     >hints/kinks? I plan to make all connections to the rig thru the RJ-45
     >connector.
     >
     >My complete mobile setup will be;
     >
     >Kenwood TM-742A
     >Kantronics KPC-3 w/Ver 5.0 firmware

      You might check to see if 5.0 firmware has the GPS option.
      I thought it was V6.0???



     >Garmin GPS-75 rev ?? firmware
     >Agrelo DFjr w/Multi-port adapter
     >IBM Thinkpad 701C running DOS APRS 76d TEKK KS-960 UHF Data radio
     >(9600 ready)
     >
     >Any help would be appreciated.
```

```
>
>thanks, Bob


Ted (KJ6ZJ)
```

---

705. Re: HOW ACCURATE is the clock?

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Wed, 19 Jun 96 04:14:54 -08
To: aprssig%tapr.org@w6dnt.ampr.org, alChan%aol.com@w6dnt.ampr.org,
al.chan%toadhall.com@w6dnt.ampr.org,
alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <214@w6dnt.ampr.org>
Rendered body type: text/plain

```
On June 18, 1996  Gerry Creager wrote:

>>>We have an idea from the broadcast ephemeris where the
>>>satellites are, within 20 or so meters.  That's not precise.

I understand that without the dithering, the accuracy of position
determination is within a few centimeters. How can it be that accurate if
the satellites don't know exactly where they are? Within only 20 or so
meters?

Please enlighten me.



-al chan      w6dnt
 """""""""""""""""""""""""""""""""""""""
              Al@w6dnt.ampr.org

6/19 0420 wed.
```

---

706. Re: [APRSSIG:2147] Multi Com Ports

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 19 Jun 1996 17:52:50 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606192252.RAA18791@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Mike Walker sez:
>
> If you are using os/2 and are attempting to access com4, you don't need to
> address it  as x'2e8' (I think this is the stardard address).  I use an ATI
> Mach 64 card and had to change my com 4.  I found that x'1e8' does me just
> fine.  My modem runs off that port at irq 11.

True enough

>...

> Some os/2 shareware programs allow you to move your mouse up to com3 or above
> so you can free up 1 and 2 for dos applications.

You can make this change in the config.sys file (well documented online).
Works good.

gerry
```

---

707. Re: MIC-E & Repeaters

From: William Neal <wmn3@dfw.net>
Date: Wed, 19 Jun 96 17:56:36 CDT
To: aprssig@tapr.org
Message-ID: <9606192256.AA14224@dfw.dfw.net>
Rendered body type: text/plain

```
At 11:42 AM 6/19/96 -0500, David E. Barrett wrote:
>
>
>And we're back where we started - I'll reiterate that I don't like mixing
>analog voice and data on the same channel without the data content being
>completely transparent to voice users who aren't participating in the data
>system.
>
>I'm probably all wet with the suggestion I'm about to offer to mixing APRS
data burst's on voice
>and it may be due to not enough range in the audio spectrum. Why not use
```

modified TNC's that
---SNIP!

Ok, I can see all sides here. But if we use CTCSS then those with UN-modified TNC's can't play easily... Also, on a simplex net, if you're using a radio without a S-meter, you can't easily tell if a station is transmitting if it's using CTCSS instead of the standard audiable tones TNC's use. I agree though, that a faster "audiable" data rate would be a good thing. But I can't expect manufacturers of TNC's to change the "standard" 1200 baud rate anytime soon.

Lets imagine a small scale use of the Mic-Encoder. 15 - 25 stations participating in a Search & Rescue simplex net. Just having a Mic-E on each radio would cut down on standard voice transmissions by a significant number. Thereby leaving the channel fairly free for queries and emergency info.

I know that a LOT of traffic is passed regarding, "Where are you", "Leaving/Returning to Base", and the ever exciting every 1/2 hour "Are you OK" report. As a Net Control Station, having each station report in automatically and having someone able to push a button to report standardized info, would save me a lot of work.

Cheers, Bill Neal - N0NSA

708. Gateway Near El Paso, TX (VHF)

From: Farrell Winder <fwinder@one.net>
Date: Wed, 19 Jun 1996 18:59:33 -0400
To: aprssig@tapr.org
Message-ID: <199606192259.SAA18520@mail.one.net>
Rendered body type: text/plain

Does anyone know of an active GATE near El Paso? I am trying to contact my son KB8VCO who is in the El Paso/Juarez area for next 3 weeks. He is VHF only. Thanks.

709. Re: [APRSSIG:2174] Re: HOW ACCURATE is the clock?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 19 Jun 1996 18:19:06 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606192319.SAA19113@solar.cs.tamu.edu>
Rendered body type: text/plain

Al Chan - W6DNT sez:
>
> I understand that without the dithering, the accuracy of position
> determination is within a few centimeters. How can it be that accurate if
> the satellites don't know exactly where they are? Within only 20 or so
> meters?
>
> Please enlighten me.

1. You use L1/L2 correlations to model and subsequently cancel the effects of the ionosphere on propragation. Or you apply a locallly derived model in post-processing.

2. You place a base station on a precisely surveyed point, and have it derive corrections to the satellite determined pseudorange and pseudorange rates for each spacecraft.

3. You apply these corrections, either in real time or via post processing to the data collected.

4. You collect point data for some period of time, say, 20 minutes, to allow both the roving receiver and the base to have an opportunity to collect adequate data from at least 4, and prefferably more, satellites over common time periods. The 20 minute number is a Trimble Survey recommendation for Fast Static survey work.

5. You obtain and apply precise ephemeris data to the received data, and incorporate that into your post-processing.

Takes time. And money. The hardware we use is on the $12k-$40k range, depending on accuracies we expect.

Gerry

710. Re: [APRSSIG:2132] Re: Stamp controller for ICOM available

From: KD4EMI@aol.com
Date: Wed, 19 Jun 1996 19:18:05 -0400
To: aprssig@tapr.org
Message-ID: <960619191804_417656929@emout19.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-19 10:29:06 EDT, you write:

>
>Not really.  The 720A *is* computer controllable, *and* does use the ICOM
>*standard* interface (albiet, the ICOM standard that was in effect at the
>time the 720A's where manufactured - c. 1980).  It's a *binary-digital*
>interface via a bank of data-lines at the rear of the unit.  Obviousely,
>this is not RS-223.  There have been computer interface systems designed
>and published for the unit.
>
>73,
>
>

The Icom uses Rs232 TYPE interface and they sell you a CIV unit to make more
money.  You can easily convert the levels.  I think MFJ sells them now. About
$24.00.  I guess everyone thinks they need the converter...
Thats why they sell more..

Mike
```

711. Re: [APRSSIG:2162] Help with GPS-75 and mobile setup needed

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Wed, 19 Jun 1996 19:36:10 -0400
To: aprssig@tapr.org
Message-ID: <31C88EEA.6B5E@pobox.com>
Rendered body type: text/plain

```
Bob Derderian wrote:
>
> Hello all,
>
> Looking for some info on the Garmin GPS-75, specifically the connection
> information for the cable (I know the red and black are +12VDC and
> ground respectively), I need to know the data out leads, are they brown
> and white? What are the Blue and Red w/Blk trace leads?
>
> Also, has anyone connected a TNC to a TM-742A and if so any hints/kinks?
> I plan to make all connections to the rig thru the RJ-45 connector.
>
> My complete mobile setup will be;
>
> Kenwood TM-742A
> Kantronics KPC-3 w/Ver 5.0 firmware
> Garmin GPS-75 rev ?? firmware
> Agrelo DFjr w/Multi-port adapter
> IBM Thinkpad 701C running DOS APRS 76d
> TEKK KS-960 UHF Data radio (9600 ready)
>
> Any help would be appreciated.
>
> thanks, Bob


Red - 4 to 40 VDC Power Input
Black - Ground
Blue - External Alarm
Brown - Data Output
White - Data Input
Red/Black - No Connect

Hope this helps.
-Lew - W7LVW
```

712. Garmin 75 cabling info

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Wed, 19 Jun 1996 16:57:29 -0700 (PDT)
To: n2iph@cyberenet.net
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960619165000.6207A-100000@cks>
Rendered body type: text/plain

```
Pin 1/RED  +4 to 40 VDC
Pin 2/BLACK  Ground
Pin 3/BLUE  External alarm
Pin 4/BROWN Data output
Pin 5/WHITE Data input
Pin 6/RED-BLACK  No connect
```

When hooking up an external alarm, my diagram shows that the + side of the external alarm device is hooked to B+, and the ground side of the external alarm device is hooked to the BLUE (External alarm) wire. They also show that data output (data TO a NMEA device) is through BROWN and the wire is grounded with BLACK hooked to the shield/return of the data output line. I also note that the book later says that B+ can be 5 to 40 volts DC. I havn't run mine under 12 yet. It also stated that the external alarm or relay supply maximum is 100 ma. and anthing over 100ma may damage the Garmin 75. Note that the Garmin 75 will supply NMEA 0183 but NOT the type 2.0 signal needed to drive the KD6... 2x16 line display discussed on this sig. (I learned the hard way).

Frank McJunkins K7RSD fmcjunki@cks.ssd.k12.wa.us FAX: (206) 545-7916

---

713. Re: [APRSSIG:2165] Joining the mile-high club

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 19 Jun 1996 20:41:21 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960619203655.22067H-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 19 Jun 1996, Joseph Novak wrote:

> Last week I found myself in a window seat of a Delta DC-9 flying
> from Atlanta to Washington, D C. About halfway through the
> flight, I decided to check out my Garmin 45. It had been used last in
> the South Florida area. I placed the antenna next to the window and
> after about five minutes it began to acquire satellites.
>
> Even with the encouragement a couple attractive flight attendants,
> the unit would not lock, not even after displaying signals
> from five satellites. Kind of disappointing. Does anyone know why it
> did not work?? Has anyone had success?

Ths 45 will not work above 99 knots.

IMPORTANT: You are not allowed (by law) to use any electronic equipment on a airliner unless specific permission has been given by the airline operator. (NOTE: the "operator" of the airline is *not* the pilot, it is the company) The specific permission is usually a list of permissable devices (laptop computers and so on)

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

714. Re: [APRSSIG:2173] Re: Help with GPS-75 and mobile setup needed

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 19 Jun 1996 19:40:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199606200041.TAA15182@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>      >Looking for some info on the Garmin GPS-75, specifically the
>      >connection information for the cable (I know the red and black are

>      >+12VDC and ground respectively), I need to know the data out
leads,
>      >are they brown and white? What are the Blue and Red w/Blk trace
>      >leads?
```

OK here is the scoop. The brown is data + out. Red is 5-40vdc + in. Black is Ground for BOTH the unit and data - out! Blue is an alarm (negative) 100 mA max. White and the Red/Black are "for future use".

Hope that helps.

--
KC5JGV
Marshall, Arkansas

---

715. Re: [APRSSIG:2176] Re: MIC-E & Repeaters/Rescue

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 19 Jun 1996 20:58:31 -0400
To: aprssig@tapr.org
Message-ID: <199606200058.UAA09108@grumpy.magg.net>
Rendered body type: text/plain

I think that this is a great idea not only for APRS but for amateur radio. I have been a ham now for 19 years and have seen the decline we have previously spoken about with Public Safty units needing us. I have also been a Sheriff's Deputy, and EMT over those years and acted as a volunteer for Forrest Fire Services, Search and Rescue (High Angle Rescue), and Emergency Management. We need to change with the times and involving ourselves with the actual org. is probably needed for Amateur Emergency Communications to survive. The mic encoder (heck even a GPS back then) sure would have helped on many a search!

I know I opened a can of worms... Let 'er rip

*** snip***
>Lets imagine a small scale use of the Mic-Encoder. 15 - 25 stations
>participating in a Search & Rescue simplex net. Just having a Mic-E on each
>radio would cut down on standard voice transmissions by a significant
>number. Thereby leaving the channel fairly free for queries and emergency
info.
>
>I know that a LOT of traffic is passed regarding, "Where are you",
>"Leaving/Returning to Base", and the ever exciting every 1/2 hour "Are you
>OK" report. As a Net Control Station, having each station report in
>automatically and having someone able to push a button to report
>standardized info, would save me a lot of work.
>
>Cheers, Bill Neal - N0NSA
>
>
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96

---

716. Re: [APRSSIG:2152] Ignition noise !help!

From: Jeffrey Bledsoe <jbledsoe@flash.net>
Date: Wed, 19 Jun 1996 20:20:29 -0500
To: "TAPR APRS Special Interest Group" <aprssig@tapr.org>
Message-ID: <199606200120.UAA24536@defiant>
Rendered body type: text/plain

Joe,

I'm not a mobile packeteer, not yet anyway. I did have trouble about two years ago with a 2-m transceiver whose 2-conductor power cable I routed next to the factory harness along the right front of my Toyota pickup out to the battery terminals. It was a nice installation since it was hidden under the fender splash guard, I didn't have to drill any holes, etc., etc. But the alternator whine was real bad. I should have twisted the pair of wires and routed it away from the harness. Hind sight!

Before abandoning the "nice" installation job, I tried one of those Kenwood 15 Amp inline filters. Couldn't tell any difference. Then I referred to a Grounding and Shielding Shortcourse Handbook from Professor VanDoren at the University of Missouri-Rolla (one of my alma maters). UMR's url: http://www.ee.umr.edu

To make a long story short, I resorted to a "local" ground for the transceiver and the noise was no longer audible to me or my contacts. Being the fuss-budget that I am and not wanting to cut the radio's pigtail or harness, I left the filter inline (the vendor would not let me return it anyway) and cut the ground lead that bypasses the inductor. Thus, I will have a nice clean installation for another (future?) radio should it not require the local ground for noise reduction.

I don't know where you are getting your ground or where your fuse box is located (under dash or under hood?). If you are routing the power wiring near noise sources such as engine controllers or ignition/alternator harnesses, you might try a different rounting path and/or a different ground location (i.e., a frame ground vice a connection directly to the negative battery terminal) before investing in filters.

Good luck & 73,

Jeff Bledsoe/N5YMV

____
____

Jeffrey Patton Bledsoe, PE
Laura Ellen Bledsoe, DE (Domestic Engineer)
1321 W. Charles
Weatherford, TX 76086-5014

(817) 613-0534 (Home, Fort Worth Metro); (817) 777-4196 (W)

--
Viva Macintosh!
--

Amateur Radio Callsigns: N5YMV (Jeff), KB5TMT (Laura)
email: jbledsoe@flash.net
alternate email: j.bledsoe@ieee.org (put this one in your address book please)
website: http://www.flash.net/~jbledsoe

717. Re: [APRSSIG:2165] Joining the mile-high club

From: thrwlx00@ccmail.ca.boeing.com
Date: Wed, 19 Jun 96 15:42:40 PST
To: aprssig@tapr.org
Message-ID: <9605198352.AA835233523@ccmail.ca.boeing.com>
Rendered body type: text/plain

My understanding is that the GPS-45 is internally disabled at speeds above 90 mph (to preclude its use by the private aviation folks, who are forced to by a more suitable (read pricier) model).

____

Subject: [APRSSIG:2165] Joining the mile-high club
From: aprssig@tapr.org at esdigate
Date: 6/19/96 11:44 AM

Last week I found myself in a window seat of a Delta DC-9 flying from Atlanta to Washington, D C. About halfway through the flight, I decided to check out my Garmin 45. It had been used last in the South Florida area. I placed the antenna next to the window and after about five minutes it began to acquire satellites.

Even with the encouragement a couple attractive flight attendants, the unit would not lock, not even after displaying signals from five satellites. Kind of disappointing. Does anyone know why it did not work?? Has anyone had success?

I was assigned an isle seat on the return trip.

Joe Novak
star@pbfreenet.seflin.lib.fl.us

718. Re: [APRSSIG:2162] Help with GPS-75 and mobile setup needed

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 19 Jun 1996 21:29:47 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606192122.A26391-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

If you know the GND wire then you can usually find the RX (receive data) wire with a scope or even a meter. A scope is easy. Just ground the ground lead to the ground pin and touch each other wire in the bunch. If all you have is a meter then look for the lead that seems instable. That is most likely the data out wire.

The Garmin also has a data in wire which will be stable.
The wire connector for the Garmin is:
1. Red: 4 - 40 VDC
2. Black: Ground
3. Blue: External Alarm
4. Brown: Data output
5. White: Data input
6. Red/Blk: no connect

73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Wed, 19 Jun 1996, Bob Derderian wrote:

> Hello all,
>
> Looking for some info on the Garmin GPS-75, specifically the connection
> information for the cable (I know the red and black are +12VDC and
> ground respectively), I need to know the data out leads, are they brown
> and white? What are the Blue and Red w/Blk trace leads?
>
> Also, has anyone connected a TNC to a TM-742A and if so any hints/kinks?
> I plan to make all connections to the rig thru the RJ-45 connector.
>
> My complete mobile setup will be;
>
> Kenwood TM-742A
> Kantronics KPC-3 w/Ver 5.0 firmware
> Garmin GPS-75 rev ?? firmware
> Agrelo DFjr w/Multi-port adapter
> IBM Thinkpad 701C running DOS APRS 76d
> TEKK KS-960 UHF Data radio (9600 ready)
>
> Any help would be appreciated.
>
> thanks, Bob
>

---

719. Re: [APRSSIG:2181] Garmin 75 cabling info

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Wed, 19 Jun 1996 21:51:01 -0400
To: aprssig@tapr.org
Message-ID: <31C8AE85.1029@pobox.com>
Rendered body type: text/plain

Frank McJunkins wrote:

Note that the Garmin 75 will supply NMEA 0183 but NOT the type
> 2.0 signal needed to drive the KD6... 2x16 line display discussed on this
> sig.

I'm not sure what the "KD6... 2x16 line" is, but my GPS-75 with software version 2.33 DOES output NMEA version
2.0.

-Lew

---

720. Re: [APRSSIG:2161] Re: MIC-E & Repeaters

From: ku0g@sprynet.com
Date: Wed, 19 Jun 1996 18:49:09 -0700
To: aprssig@tapr.org
Message-ID: <199606200149.SAA00800@m1.sprynet.com>
Rendered body type: text/plain

David...Please check your mailer. You're sending unknown.tmp attachments with
every message you post....
Sounds like Microsoft problem that Gwyn had...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

721. Re: [APRSSIG:2165] Joining the mile-high club

From: ku0g@sprynet.com
Date: Wed, 19 Jun 1996 18:52:32 -0700
To: aprssig@tapr.org
Message-ID: <199606200152.SAA01634@m1.sprynet.com>
Rendered body type: text/plain

First, you're VERY lucky it didn't get confiscated..

Second, the GPS-45 will NOT go aeronautical mobile as it has a maximum speed of 99 knots. The unit will still act like it's receiving, as you noted, but it will NOT generate data. There is also an altitude limit that is built in but I can't remember what that is....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

722. Maps

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 19 Jun 1996 21:00:02 -0700
To: aprssig@tapr.org
Message-ID: <31C8CCC2.1353@worldnet.att.net>
Rendered body type: text/plain

In case anyone is interested i have just made some detailed maps for the following city's and towns for the TNNMID.MAP.

Brentwood
Columbia
Franklin
Gallatin
La Vergne
Lawrenceburg
Lebanon
Murfreesburo

I'm also making detailed maps all the way down I65 from Nashville to the Alabama state line. The above city's and towns are outlined by little yellow boxes on the TNNMID.MAP. I figured i would post this here since someone will surely give my friend KE4ROC credit for making these Hi Hi. By the way as you can see i changed e-mail adresses again.
--
Bill KE4EER
ke4eer@worldnet.att.net
Yes i switched again Hi

---

723. APRS on STS-78 Tomorrow! (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 19 Jun 1996 22:13:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960619221124.29884D-100000@arctic>
Rendered body type: text/plain

SAREX supports APRS!

Get ready guys, and spred the word. APRS is permitted via the SAREX ROBOT during the long duration mission launching Thursday morning. Although it is doubtful that SAREX will be activated for several hours, By Friday, you should consider leaving your APRS station on while you are at work, to see if you capture any APRS packets via the Shuttle. Most passes will be daylight passes. This Weekend (Field Day) will be a Zoo for sure!

DOWNLINK 145.55
UPLINK   144.49

*********** MAKE ABSOLUTELY CERTAIN THAT YOU ARE NOT TRANSMITTING on 145.55!

If you are a home QTH, then I would use the SPACE mode which will put you on the map in grid square mode (no ICONS) with the shortest possible packet.

If you are Mobile, then I would use the standard APRS format, so that everyone will see your MOBILE ICON and your speed!

If APRS works well, and things are looking good, then I think those of us that are GPS mobile should take it as a challenge to get an APRS MOBILE packet through. I will see if we cant get some kind of special "GPS MOBILE" list for special recognition...

****** REMEMBER TO SET YOUR MOBILE TO TRANSMIT ON 144.49 MHz.

Note, your chance of hitting the Shuttle mobile with 50 watts is about the same as from your QTH omni antenna no matter how high it is, since both are line-of-sight to the shuttle. The mobile does NOT have its usual height disadvantage. And it even has a much lower loss cable run...

Another advantage of operating from your GPS mobile is that you will
produce significantly less QRM to other local stations who
may not appreciate your APRS posit...

de wb4apr@amsat.org

---

724. Re: [APRSSIG:2165] Joining the mile-high club

From: rsellers@misha.net (Roger Sellers)
Date: Wed, 19 Jun 1996 22:19:18 -0500
To: aprssig@tapr.org
Message-ID: <199606200319.WAA25896@misha.net>
Rendered body type: text/plain

```
>Even with the encouragement a couple attractive flight attendants,
>the unit would not lock, not even after displaying signals
>from five satellites.  Kind of disappointing.  Does anyone know why it
>did not work??  Has anyone had success?
>
>I was assigned an isle seat on the return trip.
>
 It didn't work because the plane was travelling in excess of 99 miles per
hour. If you were watching it as you landed, as soon as the plane came under
the 99 MPH limitation you would be seeing data. The Garmin 45 has a speed
limit built into it. There's no way around it as far as I know of. BTW, this
was a detailed topic here a few weeks back.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

725. Re: [APRSSIG:2180] Re: Help with GPS-75 and mobile setup needed

From: ku0g@sprynet.com
Date: Wed, 19 Jun 1996 20:17:52 -0700
To: aprssig@tapr.org
Message-ID: <199606200317.UAA21659@m1.sprynet.com>
Rendered body type: text/plain

```
I don't think version 5.0 firmware in the KPC-3 is GPS ready, is it?  Thought it
was version 6.0 that was the GPS version...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

726. WIsconsin map

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 20 Jun 1996 00:49:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960620004720.2168B-100000@arctic>
Rendered body type: text/plain

```
I just made a 38 mile map of West WIsconsin centered near Sparta.
It is posted as wiwest.zip (one map only).
It shuld be entered into your MAPLIST as

WIwest.map,43.83,90.67,38,

Is there a Wisconsin Map distro?

de wb4apr@amsat.org
```

---

727. Ignition or RF Noise, re MX4200

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Wed, 19 Jun 1996 22:03:11 -0700
To: aprssig@tapr.org
Message-ID: <199606200503.WAA02105@poseidon>
Rendered body type: text/plain

```
Attn: Joe DeVille..and all Magnovox MX-4200 GPS Users..

Have found the subj GPS MX4200 to be generating considerable RF interference
to adjacent VHF receivers. Using PK-12, easy to set up for GPS use, Alinco
DR1200T adjacent to the MX4200. Get a full scale signal strength reading on
the DR1200T and have Squelch set real high, and do not hear numerous APRS
```

```
packets, on our 145.01 operating frequency.
  My old Kenwood TR7600 for voice on 147.285 about 2-3 feet away from the
MX4200, has a half scale S-Meter reading when the MX4200 GPS is powerd up.
and very poor voice reception except on very strong signals.
  Turn off the GPS and reception and signal strength indications on both the
DR1200 and TR7600 disappears and reception is normal.
  Suggest moving your MX4200 as far away as possible, going to try it, or
check and see if tha GPS is the cause of reception problems. Also it will
send the GGA sentence, but not the GVT sentence. This is a borrowed GPS.
  No similar problems with Garmin-45 or Motorola/Traxar GPS, connected for
Stand Alone tracking.
  Anyone else have similar problems with the MX4200..???? Advise

    73's & Enjoy, Bill/WB6LPG
NNNN

WBB/WB6LPG
```

---

728. tig2aprs: Tiger -> APRS Unix utility

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 20 Jun 96 2:16:05 EDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.835251365.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
Source code for my US Census TIGER/Line 1994 to DOS APRS format maps
program is now pointed to by:
        http://www.cloud9.net/~alan/ham/aprs
Before you go and download it, please note this is a C program that runs
on a Unix system (only tested on Linux).  Don't expect it to work under
DOS.  The program is freeware (GPL'd) and includes rudimentary documentation
which includes some pointers on how to actually obtain TIGER/Line data.

I wanted to reorganize the code into something less embarrassing but
decided I'd better leave it non-broken instead:-)  Please be gentle.

There are some sample maps there too.

Oh yeah, and thanks to the heads-up from Barbara, I've confirmed
with Census bureau that the datum is NAD27 and I haven't yet added
the WGS84 translation.  Also, I hear the next TIGER/Line data is due
out near the end of the year or so and will use NAD83 (which I think
is the same as WGS84??).

I think I might be available for-hire to generate maps if there's interest.
It's the only way I would ever to be able to actually own a GPS myself:-)

73 de Alan N2YGK
```

---

729. Re: [APRSSIG:2188] Re: Garmin 75 cabling info

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Wed, 19 Jun 1996 23:32:48 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960619233036.11499A-100000@cks>
Rendered body type: text/plain

```
Thanks for the info on the V2.33 and NMEA 0183 type 2.0!  I called Garmin
last week and they told me that I was right, my V2.22 software would not
support V2.0 0183, and they didn't plan on upgrading the software!  I'm
starting to wonder about the folks at Garmin now.

Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us  FAX: (206) 545-7916
```

---

730. What a night for APRS VHF!

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 20 Jun 1996 06:59:55 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199606201202.HAA21954@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Bing Bang Boom!

Did we ever get the band openning on APRS! From NE Georgia to NCentral
Iowa! Kansas City was really hopping! I looked this morning and it looks
like the East will be on-screen today!
--
KC5JGV
Marshall, Arkansas
```

731. NMEA Sentence descriptions

```
From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Thu, 20 Jun 1996 08:16:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960620081433.25584A@outland.dtcc.edu>
Rendered body type: text/plain
```

```
Some time ago, a web site address was given for descriptions of NMEA GPS
sentences.  Does anyone have that site address?
Sam K3BY
```

---

732. Re: [APRSSIG:2199] What a night for APRS VHF!

```
From: Gary Arnold <garnold@naples.net>
Date: Thu, 20 Jun 1996 09:29:05 -0700
To: aprssig@tapr.org
Message-ID: <31C97C51.5565@naples.net>
Rendered body type: text/plain
```

```
J. Scott Ratchford, KC5JGV wrote:
>
> Bing Bang Boom!
>
> Did we ever get the band openning on APRS! From NE Georgia to NCentral
> Iowa! Kansas City was really hopping! I looked this morning and it looks
> like the East will be on-screen today!
> --
> KC5JGV
> Marshall, Arkansas

Noon Tuesday worked SW Oklahoma from SW Florida, 12 watts SSB into 250
feet of coax to a pair of side mounted Sqloops at 165 feet.  S-9 or
better there, but NO APRS stations seen from the area...
73,
Gary

--

___________________________________________
Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I'm writing an unauthorized autobiography."
           -- Steven Wright, perpipheral visionary
```

---

733. Re: Ignition or RF Noise, re MX4200

```
From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Thu, 20 Jun 1996 09:43:43 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960620134343.006b0a9c@neptune.gsfc.nasa.gov>
Rendered body type: text/plain
```

```
At 00:19 6/20/96 -0500,  Bill/WB6LPG wrote:
>Attn: Joe DeVille..and all Magnovox MX-4200 GPS Users..
>
>Have found the subj GPS MX4200 to be generating considerable RF interference
[...]
>  No similar problems with Garmin-45 or Motorola/Traxar GPS, connected for
>Stand Alone tracking.
>  Anyone else have similar problems with the MX4200..???? Advise
>

Don't have a  Magnavox but I do have the Motorola Traxar and
have had similar RFI problems. I suspect it's not the GPS itself
that causes the RFI but rather the low class hook up job I did
using non-shielded cables and connectors. If I operate the
Motorola on internal batteries with no RS-232 connection, the
RFI goes away.

Bob Kirk
N3OZB
```

734. Re: Ignition or RF Noise, re MX4200

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Thu, 20 Jun 1996 09:00:56 -0500
To: aprssig@tapr.org
Message-ID: <9606200900.AA56636@oscar.telalink.net>
Rendered body type: text/plain

```
> Attn: Joe DeVille..and all Magnovox MX-4200 GPS Users..
>
> Have found the subj GPS MX4200 to be generating considerable
> RF interference to adjacent VHF receivers. Using PK-12, easy to set up
> for GPS use, Alinco DR1200T adjacent to the MX4200. Get a full
> scale signal strength reading on the DR1200T and have Squelch set
> real high, and do not hear numerous APRS packets, on our 145.01
> operating frequency.
>   My old Kenwood TR7600 for voice on 147.285 about 2-3 feet away from
> the MX4200, has a half scale S-Meter reading when the MX4200 GPS is
> powerd up. and very poor voice reception except on very strong signals.
>   Turn off the GPS and reception and signal strength indications on
> both the DR1200 and TR7600 disappears and reception is normal.
>   Suggest moving your MX4200 as far away as possible, going to try it,
> or check and see if tha GPS is the cause of reception problems. Also
> it will send the GGA sentence, but not the GVT sentence. This is
> a borrowed GPS.
>   No similar problems with Garmin-45 or Motorola/Traxar GPS, connected
> for Stand Alone tracking.
>   Anyone else have similar problems with the MX4200..???? Advise
>
>     73's & Enjoy, Bill/WB6LPG
> NNNN
>
> WBB/WB6LPG
```

Shortly after I received my pair of MX4200s I came to the conclusion that these units (or at least many of them) had been returned to the Magnavox for repair. Some units may have been repaired others may never have had anything wrong with them. These units may also have been part of a lease deal. In the end they all wound up in a big crate and Gateway purchased them as a bulk deal then opened the crate and sold the boxes as-is. Some folkes had to buy several and swap parts around to get a working unit, others worked out of the box, and still others were DOA.
My working model generally works fine. No RF interference to adjacent VHF receivers. I use mine with one of WB0NOO's transmitters for a standalone tracker. I had it running as well as a second tracker in the van all the way to Dayton without a problem. On the way back it decided not to send any coherent data any more. When i got home I attached the computer and sent a few macros to stop all data then start data, then it worked fine. This has happened a few times since. if this had happened to a GPS I purchased for $2000it would be back to the factory in a hertbeat. For a $25 GPS (and the factory out of business) it is an annoyance that I learn to live with. Knowing that there is an intermittant problem will make me use this tracker for fun but nothing serious.
I suspect that the RF interference to adjacent VHF receivers that you are experiencing is why that unit was returned. I suspect that most people that purchased these have found some anomily that had they paid $2000 for the unit they would be quite mad, since it was only $25 they will live with it or figure out how to fix it, all part of the hobby.
Thanks for the warning anyway, I am always looking for experiences that others have had with their MX4200. I still have one that does not work and I hope that someone will give me just the clue I need to get it operational.

73
Bruce

```
--
***********************************************************************
* Bruce W. Martin          Internet: martinbw@telalink.net           *
* 4558 Brooke Valley Dr.   HAM Call: KQ4TV                           *
* Hermitage TN  37076-2650                                           *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W          *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W             *
* URL:  http://www.telalink.net/~martinbw/home.html                  *
*        ftp://ftp.telalink.net/users/m/martinbw/ftp/incoming/       *
*    I have a 486DX33 to play games and run some HAM programs,       *
*        when I want to do serious work I use a Macintosh.      0-    *
***********************************************************************
```

735. NASA's Lightning Detection

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Thu, 20 Jun 1996 10:34:22 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960620143422.006b75ec@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

Looks like NASA's getting in the lightning detection business, or at least field testing a commercial unit. Below is a new press release from NASA Kennedy:

June 19, 1996
(407) 867-2468

KSC Release No. 75-96

NASA INTRODUCES LIGHTNING MAPPING SYSTEM TO COMMERCIAL MARKET

Despite being located in an area with the greatest amount of lightning activity in the United States, a NASA developed Lightning Detection and Ranging (LDAR) system has provided a safe, productive work environment at the Kennedy Space Center (KSC) and the Eastern Range since 1992. Now private industry and the public at large stand to benefit from the space age technology.

NASA has signed a Space Act Agreement with Global Atmospherics, Inc. (GAI) of Tucson, AZ, to begin joint work on development of an LDAR system that meets both NASA and commercial needs. The technology has commercial application in the electric utility, aviation, atmospheric research, commercial rocket launch, recreation, construction and meteorological industries.

"The 45th Weather Squadron at Cape Canaveral Air Station uses LDAR to accurately inform KSC of any lightning threats in the area," said John Madura, manager of KSC's weather office. Cape Canaveral Air Station and the National Weather Service in Melbourne, Fl are the only organizations currently using this system.

Current two-dimensional commercial systems only locate cloud-to-ground lightning. NASA's three-dimensional LDAR system also pinpoints the location and altitude of in-cloud and cloud-to-cloud lightning by measuring the exact arrival times of electromagnetic pulses.

"When you hear a crackle of lightning over your radio, you are listening to an electromagnetic pulse. Since the speed of light is constant, once we know the time of a pulse we can figure out exactly how far away the lightning is," explained Carl Lennon, KSC Information Systems Division.

The system detects the VHF or very high frequency radiation and maps the volume of the lightning activity. The result is a three-dimensional presentation of the local activity and the threat that it presents.

GAI designs, manufactures and markets commercial lightning detection systems that are used worldwide for collection, analysis, display and dissemination of lightning related information. They bring the expertise and resources to this partnership that are necessary to expedite commercialization.

"This collaboration between GAI and NASA brings together two organizations respected in this field of study and should benefit the public with an extremely solid new product," said GAI President, Pat Zumbusch.

The 2-year agreement does not require an exchange of funds, but does assign responsibilities to both parties. GAI will focus on improving the location accuracy, small signal detection, and flexibility of NASA's existing system. After reducing the cost of transmitting and displaying data, a commercial version of the system will be available.

NASA will operate the LDAR system, allowing GAI to compare their newly developed systems to it. NASA will also assist GAI with the design and evaluation of various system components and allow them to use existing equipment, facilities and weather data.

"This agreement is the perfect example of NASA working together with industry to bring space age technology down to earth," said Bill Sheehan, KSC's Technology Programs and Commercialization Office. "The space program, commercial market and general public will benefit a great deal from this project."

# # # #

---

736. Re: [APRSSIG:2199] What a night for APRS VHF!

From: ku0g@sprynet.com
Date: Thu, 20 Jun 1996 07:42:32 -0700
To: aprssig@tapr.org
Message-ID: <199606201442.HAA05602@m1.sprynet.com>
Rendered body type: text/plain

```
On Thu, 20 Jun 1996, "J. Scott Ratchford, KC5JGV"
<jratchf@bulldog.afsc.k12.ar.us> wrote:
>Bing Bang Boom!
>
>Did we ever get the band openning on APRS! From NE Georgia to NCentral
>Iowa! Kansas City was really hopping! I looked this morning and it looks
>like the East will be on-screen today!
>--
>KC5JGV
>Marshall, Arkansas

We've seen all of Iowa here overnight plust a lot of TULSA!  Also saw the
KC5JCV-10 WIDE digi in Marshall, Ark.!!!

Nice to see something coming from the south for once!!!



>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

737. Garmin 75 & KD6PHB display

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Thu, 20 Jun 1996 08:14:25 -0700 (PDT)
To: j@harper.com
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960620080826.15511A-100000@cks>
Rendered body type: text/plain

```
Just wanted to confirm some info for your file.  My Garmin 75 has software
version 2.22 and it will NOT support the GPGGA statement needed to run the
KD6PBH display.  However, it appears that software version 2.33 WILL
support the GPGGA statement.  I got Garmin on the phone again today and
found someone who apparently was more familiar with what they sold.  The
bottom line is that if I want to upgrade my software it's going to cost me
$80-100 !!!!  Now I'm beginning to see a negative side about Garmin.
After seeing the $90 price they want for a replacement antenna, and now
the humoungous ding for software upgrade, I think I'll start looking for a
Magellan.  Well, I didn't like the way they ran the I/O cable through the
back of the case anyway...   :)

Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us  FAX: (206) 545-7916
```

---

738. Re: NMEA Sentence descriptions

From: Will Flor <willf@rrgroup.com>
Date: Thu, 20 Jun 1996 10:48:53 -0500
To: aprssig@tapr.org
Cc: willf@rrgroup.com
Message-ID: <31C972E5.4578@rrgroup.com>
Rendered body type: text/plain

```
You wrote:
----------
From:   Dr Samuel Guccione[SMTP:sguccion@outland.dtcc.edu]
Sent:   Thursday, June 20, 1996 7:27 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:2200] NMEA Sentence descriptions

 > Some time ago, a web site address was given for descriptions of NMEA GPS
 > sentences.  Does anyone have that site address?
 > Sam K3BY

There are several; here are two:

http://www.mit.edu:8001/people/krwalsh/Homebuilts/nmea.html
http://vancouver-webpages.com/peter/index.html
```

73 de KB9JTT

739. Re: [APRSSIG:2204] NASA's Lightning Detection

From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 20 Jun 1996 12:20:28 -0700
To: aprssig@tapr.org
Message-ID: <31C9A47C.3222@worldnet.att.net>
Rendered body type: text/plain

```
Robert Kirk wrote:
>
>      NASA will operate the LDAR system, allowing GAI to compare their newly
> developed systems to it.  NASA will also assist GAI with the design and
> evaluation of various system components and allow them to use existing
> equipment, facilities and weather data.
>
>      "This agreement is the perfect example of NASA working together with
> industry to bring space age technology down to earth," said Bill Sheehan,
> KSC's Technology Programs and Commercialization Office. "The space program,
> commercial market and general public will benefit a great deal from this
> project."
>
> # # # #

Yes and the taxpayer will pay for the whole thing, then someone else will
make the pofits by seeling the system back to us Hi.
--
Bill KE4EER
ke4eer@worldnet.att.net
Yes i switched again Hi
```

740. Re: NMEA Sentence descriptions

From: kevenm@valtek.com (Keven Miller)
Date: Thu, 20 Jun 1996 11:33:05 -0600 (MDT)
To: aprssig@tapr.org (APRSSIG)
Message-ID: <9606201733.AA04347@valtek>
Rendered body type: text/plain

```
I asked same around Mar 20, and got this reply from Greg Blair VE3DIB.

ftp://sundae.triumf.ca/pub/peter/index.html

Keven Miller KC7LYD
kevenm@valtek.com
```

741. Re: [APRSSIG:2206] Garmin 75 & KD6PHB display

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Thu, 20 Jun 1996 01:45:33 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960620054533.0074ab74@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 10:41 AM 6/20/96 -0500, you wrote:
>I got Garmin on the phone again today and
>found someone who apparently was more familiar with what they sold.  The
>bottom line is that if I want to upgrade my software it's going to cost me
>$80-100 !!!!  Now I'm beginning to see a negative side about Garmin.
>After seeing the $90 price they want for a replacement antenna, and now
>the humoungous ding for software upgrade, I think I'll start looking for a
>Magellan.
>

To upgrade the software they basically have to change the unit! At least for
the "sealed" one (38, 40, 45 ...). Flat service rate is ~100$, not bad
considering you get a new unit.
I bet it's the same with Magellan.
Something nice with Garmin is that they do improve regularly the soft. I
would be garmin, I would stay with the same firmware: nobody would complain!

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

742. Garmin GA-26 Active Ant ?

From: schiers@ames.net
Date: Thu, 20 Jun 96 12:58:24 -0500
To: aprssig@tapr.org
Message-ID: <199606201800.NAA24886@tapr.org>
Rendered body type: text/plain

I am looking for recommendations regarding a better antenna for the Garmin 45 GPS. I am trying to figure out if the increased cost for an external active antenna is worth it. (When it stops raining I will check out the BlackJack by putting it on my roof, instead of on my dash.)

The GA 26 is pretty pricey...has anyone evaluated it compared to the passive BlackJack on the dash, or to the standard antenna with unit sitting on the dash?

Any other recommendations? Information on the Trimble/PacComm setup would be welcome, especially if someone can give me a before and after comparision. 73,

hasan schiers, N0AN--
----
schiers@ames.net
----

743. Re: Might I suggest...

From: Mel Muecke <MMuecke@InterfaceTech.com>
Date: Thu, 20 Jun 1996 11:10:55
To: aprssig@tapr.org
Message-ID: <19960620111055.003ce5c2.in@InterfaceTech.com>
Rendered body type: text/plain

Just in case there is someone who doesn't know about it, there is a digest mode on this listserver that is perfect for those who don't like hundreds of messages in their in-box. It compresses all the little messages into a single long message with separators. So you get a single e-mail for every 20-30 sent.

The beginning of each message has an index of all the e-mail subjects, which makes it easy to skip right to the interesting (to you) stuff.

To change to digest mode, send the following message to listproc@tapr.org

```
        set aprssig mail digest
```

Regards,

Mel Muecke
KE6FQZ

P.S. I agree with Pat Bunsold WA6MHZ about including files. It is much nicer to send a personal message directly to those interested, instead of attaching files to messages sent to the listserver.

```
________________________________________________________
  @__0~_          Mel Muecke - Applications Engineer
 ,>/->/-#         mmuecke@InterfaceTech.com
(*)\--\(*)        Interface Technology - Walnut, CA  USA
                  (909) 595-6030   Fax (909) 595-7177
```

744. Re: [APRSSIG:2206] Garmin 75 & KD6PHB display

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Thu, 20 Jun 1996 13:17:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0uWoIM-0000DTC@ernest.itg.ti.com>
Rendered body type: text/plain

> bottom line is that if I want to upgrade my software it's going to cost me
> $80-100 !!!! Now I'm beginning to see a negative side about Garmin.
> After seeing the $90 price they want for a replacement antenna, and now
> the humoungous ding for software upgrade, I think I'll start looking for a
> Magellan. Well, I didn't like the way they ran the I/O cable through the
> back of the case anyway... :)

I think the high price is somewhat to blame on the case. I know the 45 has a nitrogen filled and sealed case. Just to open it, reseal it and pump it full of nitrogen is more expensive than your standard 'tkae off the case and pop in a new chip'. Possibly, the software upgrade involves SMT parts and we kno how much fun those can be......

```
--
Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-214-575-6427                        6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

745. Re: [APRSSIG:2197] tig2aprs: Tiger -> APRS Unix utility

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 20 Jun 1996 13:44:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606201844.NAA26522@solar.cs.tamu.edu>
Rendered body type: text/plain

```
For all intents and purposes, WGS84 and NAD83 are the same.

gerry
```

746. SIG Reflector Issues

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 20 Jun 96 14:59:19 EDT
To: <aprssig@tapr.org>
Message-ID: <960620185919_71301.3106_FHJ82-2@CompuServe.COM>
Rendered body type: text/plain

```
Two cents' worth about two discussions regarding SIG issues:

1) YES, *please* don't attach binaries! They clutter the mailbox and in many
cases unnecessarily pump-up the archive. If they're of general interest,
download to the FTP site instead.

2) And I also vote NO on moving the SIG to USENET. I specifically do not
participate in USENET groups due to the abuses, particularly by the commercial
spammers. One posting to a USENET group will fill your e-mail with junk for
weeks.

Also, I've found the signal/noise ratio in the radio.rec.amateur groups to be
very poor. Frankly, there are some major lids who constantly pollute the
groups, mindlessly increasing message counts with specious flaming and "fight
baiting". We'd become yet another target of this nonsense. Moderation is not a
solution, either, as it results in debates over rules and "censorship" as well
as causing a lot of work for someone.

Anyway, moving the SIG into overt visibility will draw the attention of the
online vermin, unfortunately.

My personal solution to the mail volume associated with this popular reflector
is to not subscribe to the SIG, but fetch the archive every day or so. What
would be nicer is if the mail archiver packaged the day's messages into a
separate digest file, maybe kept for a week or so, so that it wouldn't be
necessary to download the whole month's accumulation every day. Or maybe a
SUBSCRIBE APRSSIG DAILYDIGEST, with one whopping e-mail containing the day's
traffic?

   ...mike/N0QBF
```

747. Re: [APRSSIG:2208] Re: NASA's Lightning Detection

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 20 Jun 1996 13:59:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606201859.NAA26679@solar.cs.tamu.edu>
Rendered body type: text/plain

```
William Nolle sez:
>
> Robert Kirk wrote:
> >
> >      NASA will operate the LDAR system, allowing GAI to compare their newly
> > developed systems to it.  NASA will also assist GAI with the design and
> > evaluation of various system components and allow them to use existing
> > equipment, facilities and weather data.
> >
> >      "This agreement is the perfect example of NASA working together with
> > industry to bring space age technology down to earth," said Bill Sheehan,
>
> > # # # #
>
```

> Yes and the taxpayer will pay for the whole thing, then someone else will
> make the pofits by seeling the system back to us Hi.

No. We already paid for it. NASA's charter requires technology transfer to the private sector whereever possible. This represents an example of that.

So do cardiac monitors, cardiac telemetry in hospital ICU stepdown units, fiber-optic monitors of blood chemistry and oxygen, cellphones, and a whole host of other technologies transferred from NASA research to the common man. Someone has to capitalize it and produce it so that we can all benefit from it.

gerry

---

748. (no subject)

From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 20 Jun 1996 14:11:15 -0700
To: aprssig@tapr.org
Message-ID: <31C9BE73.6AFD@worldnet.att.net>
Rendered body type: text/plain

I have just posted a map file on tapr for anyone interested. It's called TNNEWMAP.ZIP and are some maps covering I65 south from Nashville the the Alabama sate line. Also included are some of the towns in that area, a total of about 27 maps i believe. I have included a maplist but only for those maps. You may want to put these maps in with another maplist yourself.
--
Bill KE4EER
ke4eer@worldnet.att.net
Yes i switched again Hi

---

749. Re: [APRSSIG:2200] NMEA Sentence descriptions

From: Barbara Fehner <fehner@cts.com>
Date: Thu, 20 Jun 1996 12:38:49 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960620193849.006bd424@mail.cts.com>
Rendered body type: text/plain

ftp://sundae.triumf.ca/pub/peter/index.html

Look for the NMEA FAQ

Barbara KK6IB
E-Mail: fehner@cts.com

____
At 07:27 AM 6/20/96 -0500, you wrote:
>Some time ago, a web site address was given for descriptions of NMEA GPS
>sentences. Does anyone have that site address?
>Sam K3BY
>
>
>

---

750. Ignition noise update!

From: Joe DeVille <jwdstu@westga.edu>
Date: Thu, 20 Jun 1996 16:24:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960620161505.4408A-100000@sun.cc.westga.edu>
Rendered body type: text/plain

OK!! Thanks to everybody for all the help. I went out to 'da Shack' and picked up a 20A noise filter, and it seemed to mostly solve the problem--at least the DCD light stays off when there is nothing on frequency now! Still a trace of whine on the signal, but it is at an "acceptable" level until I can further investigate it. I'd like to run the power cable directly from the battery, but I can't find a single place that anything runs through the firewall, and right now drilling is not an option.

As far as my MX4200, I got 2 and both seem to work, however I think the RF section in one is better than the other. Haven't noticed much of a RFI problem from them though.

Thanks to everybody on this sig, I now have a working stand-alone tracker.

Keep all those great hints coming!

```
-----------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

751. Re: [APRSSIG:2152] Ignition noise !help!

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Thu, 20 Jun 1996 16:21:59 -0400
To: aprssig@tapr.org
Message-ID: <31C9B2E7.4F41@codger.physics.duq.edu>
Rendered body type: text/plain

Joe DeVille wrote:

> All this is wired into the fuse box via an unused fuse contact.
>
> Here's the problem: Ignition noise.

Wiring into the fuse box is just asking for noise problems.

Try a direct battery hookup; just get a nice chunk of "zip" cord, run it out the door to the battery, and see if you still have the noise.

My favorite trick is to just thread the wire through the slot between the fender and the windshield, and through the door gasket. Beats drilling through the firewall.

752. Re: [APRSSIG:2153] Re: Encoded messages

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Thu, 20 Jun 1996 16:25:11 -0400
To: aprssig@tapr.org
Message-ID: <31C9B3A7.679D@codger.physics.duq.edu>
Rendered body type: text/plain

Roger Sellers wrote:

>   Remember this is nicknamed the Information SUPER Hiway, it isnt always a
> walk in the park.

I'll agree with the SUPER highway part once I get a T-1 directly into my house...

A 14.4 modem connection is more like the "information Jeep-trail"... <G>

753. Re: [APRSSIG:2165] Joining the mile-high club

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Thu, 20 Jun 1996 16:33:00 -0400
To: aprssig@tapr.org
Message-ID: <31C9B57C.30C4@codger.physics.duq.edu>
Rendered body type: text/plain

Joseph Novak wrote:

> Last week I found myself in a window seat of a Delta DC-9 flying
> from Atlanta to Washington, D C. About halfway through the
> flight, I decided to check out my Garmin 45.

I saw several replies of the 99 knot speed limit, but nothing about the DISTANCE you have travelled. I know that the Magellan units have a 300 mile "turned off" range before they have to re-acquire the almanac data; I don't know about the Garmin units.

It could be that your unit found satellite data, and was simply working to determine which of the satellites it was receiving.

754. Re: APRS on STS-78 Tomorrow! (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 20 Jun 1996 17:48:55 -0400 (EDT)
To: "Ronald G. Parsons" <w5rkn@amsat.org>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960620174807.25477B-100000@arctic>
Rendered body type: text/plain

On Thu, 20 Jun 1996, Ronald G. Parsons wrote:

> What UNPROTO alias will they be using? RELAY? W5RRR-1?

```
APRSdos REPLY COMMENT: My guess is W5RRR or W5RRR-1

de wb4apr@amsat.org
```

755. Re: [APRSSIG:2192] APRS on STS-78 Tomorrow! (fwd)

From: KD4EMI@aol.com
Date: Thu, 20 Jun 1996 18:32:43 -0400
To: aprssig@tapr.org
Message-ID: <960620183243_334537783@emout13.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-19 23:12:21 EDT, you write:

>
>SAREX supports APRS!
>
>Get ready guys, and spred the word.  APRS is permitted via the SAREX
>ROBOT during the long duration mission launching Thursday morning.
>Although it is doubtful that SAREX will be activated for several hours,
>By Friday, you should consider leaving your APRS station on while you are
>at work, to see if you capture any APRS packets via the Shuttle

any special unproto path for this ??
Mike
```

756. smart digipeater

From: KD4EMI@aol.com
Date: Thu, 20 Jun 1996 18:33:30 -0400
To: aprssig@tapr.org
Message-ID: <960620183330_334538038@emout08.mail.aol.com>
Rendered body type: text/plain

```
I am going to put my last basic stamp on the local WIDE-RELAY digi here in
south Florida.

It will respond to aprs query strings, change freq on the radio and hopefully
be able to adjust to power output (still working on that)

The stamp will go in next week after field day.

I have not been able to really get the results with the stamp and the
lightning detector. I think I'll be contacting some aprs folks to help me
with a TSR program to load with APRS for the lightning display.

Will keep posted
Mike
```

757. MAR-6, that's a go!

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Thu, 20 Jun 1996 18:46:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960620224616.0073f568@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
I placed the order this morning. Delivery in 1-2 weeks.

I'll contact directly everybody for the details. I know you don't have my
address, if you really want to be sure I'm not a ghost it's on my web page, :-).

I received the data book from Mini-Circuits, so I'll drop the data sheet in
the envelope, not that there is a lot of information, but a few useful tips.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

758. Re: [APRSSIG:2197] tig2aprs: Tiger -> APRS Unix utility

From: jms@pobox.com (Johnie Stafford)
Date: Thu, 20 Jun 96 09:14 CDT
To: aprssig@tapr.org
Message-ID: <m0uWkVB-0001zSC@kb5yvf.usl.edu>
Rendered body type: text/plain

```
>>>>> "ac" == Alan Crosswell <alan@watsun.cc.columbia.edu> writes:
 ac> Source code for my US Census TIGER/Line 1994 to DOS APRS format maps
 ac> program is now pointed to by:
 ac>    http://www.cloud9.net/~alan/ham/aprs
 ac> Before you go and download it, please note this is a C program that runs
 ac> on a Unix system (only tested on Linux).  Don't expect it to work under
 ac> DOS.  The program is freeware (GPL'd) and includes rudimentary documentation
 ac> which includes some pointers on how to actually obtain TIGER/Line data.

Is there a Linux version of APRS?

 ac> Oh yeah, and thanks to the heads-up from Barbara, I've confirmed
 ac> with Census bureau that the datum is NAD27 and I haven't yet added
 ac> the WGS84 translation.

Check out kai.er.usgs.gov, they have a great set of programs for Datum
conversion.

 ac> ...and will use NAD83 (which I think is the same as WGS84??).

Yes



        Johnie




--
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
 Johnie Stafford           |  Internet E-mail: jms@pobox.com
 KB5YVF - Lafayette, LA    | Ham Radio Packet: kb5yvf@k5arh.#lftla.la.us.noam
                           |          WWW URL: http://www.pobox.com/~jms
           pobox.com for lifetime email -- mail info@pobox.com
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
```

759. Re: [APRSSIG:2079] Might I suggest...

From: gsellers <gregs@twave.net>
Date: Thu, 20 Jun 1996 21:21:34 -0400
To: aprssig@tapr.org
Message-ID: <31C9F91E.32CA@twave.net>
Rendered body type: text/plain

```
Dennis Mobley wrote:
>
> Folks,
>
> While I enjoy the on going discussions on the APRS SIG,
> it might be time for moving the SIG to a USENET news group.
>
> My mail box fills quickly with the numerous postings.
>
> Thank you & 73 de Dennis KT4FI

Amen! 73 de Greg
```

760. Re: [APRSSIG:2165] Joining the mile-high club

From: Sean Smithers <seans@magick.net>
Date: Thu, 20 Jun 1996 20:54:59 -47900
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606202012.A27449-0100000@gp.magick.net>
Rendered body type: text/plain

```
Flying in excess of 95 Kts. Known marketing feature of Garmin to make
sure aviators will buy the costlier unit with the aviation database.

==============================================================================
Sean Smithers
Internet:   seans@gp.magick.net
CompuServe: 70132,136
Packet:     N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Wed, 19 Jun 1996, Joseph Novak wrote:

> Last week I found myself in a window seat of a Delta DC-9 flying
> from Atlanta to Washington, D C.  About halfway through the
> flight, I decided to check out my Garmin 45.  It had been used last in
> the South Florida area.  I placed the antenna next to the window and
> after about five minutes it began to acquire satellites.
```

```
>
> Even with the encouragement a couple attractive flight attendants,
> the unit would not lock, not even after displaying signals
> from five satellites.  Kind of disappointing.  Does anyone know why it
> did not work??  Has anyone had success?
>
> I was assigned an isle seat on the return trip.
>
>
> Joe Novak
> star@pbfreenet.seflin.lib.fl.us
>
>
>
```

---

761. Garmin 75 software

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Thu, 20 Jun 1996 20:51:41 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960620204502.27166A-100000@cks>
Rendered body type: text/plain

```
ATTN:  seront and Alan Edmonds, et al.
Thanks for your input.  ONce again I would have to say that if Garmin
simply would have said...Hey, Frank, we're going to basically replace your
whole unit for the $100 to upgrade the software because there were some
board changes, I'd have said, Sure...  But they don't follow up on
anything!  One guy doesn't know what's going on and another one seems to
know, but won't give any other info.  They're going to have to start
learning some customer relations, I'm afraid.  I've lost interest in them
because of their apparent lack of ability to deal with me as a human being
who really believed in their product.  SO do you know for a fact that they
really do replace the whole unit, or were you just told that as a p/r
ploy?  Does the unit physically look different, and why do you believe
they really do anything other than put an IC in, or upload software?  I'm
just curious as I do (electronics) design work for a living, and have
heard all this mumbo jumbo before... I deal in fact, not BS.  Thanks for
any input.

Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us  FAX: (206) 545-7916
```

---

762. How do I change addresses?

From: rsellers@misha.net (Roger Sellers)
Date: Thu, 20 Jun 1996 23:17:15 -0500
To: aprssig@tapr.org
Message-ID: <199606210417.XAA11885@misha.net>
Rendered body type: text/plain

```
I will be changing IP provider in the near future. How to I go about
changing my address to the new provider to continue getting this SIG?

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

763. Re: [APRSSIG:2224] Re: APRS on STS-78 Tomorrow! (fwd)

From: rsellers@misha.net (Roger Sellers)
Date: Thu, 20 Jun 1996 23:22:32 -0500
To: aprssig@tapr.org
Message-ID: <199606210422.XAA12022@misha.net>
Rendered body type: text/plain

```
>In a message dated 96-06-19 23:12:21 EDT, you write:
>
>>
>>SAREX supports APRS!
>>
>>Get ready guys, and spred the word.  APRS is permitted via the SAREX
>>ROBOT during the long duration mission launching Thursday morning.
>>Although it is doubtful that SAREX will be activated for several hours,
>>By Friday, you should consider leaving your APRS station on while you are
>>at work, to see if you capture any APRS packets via the Shuttle
>
>any special unproto path for this ??
>Mike
>
```

I just realized, as a relay from space.. Imagine all the stations to get reflected. I will be running APRS at Field Day. If we can see it when it passes, the stations could POP UP around the country in droves... I hope! NASA has GREAT timing. This aught to be an INTERESTING weekend.

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

---

764. Re: [APRSSIG:2221] Re: Encoded messages

From: Sean Smithers <seans@magick.net>
Date: Thu, 20 Jun 1996 21:30:54 -47900
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9606202157.A30443-0100000@gp.magick.net>
Rendered body type: text/plain

And a 28.8 connection to an internet service provider with 3 T-1 connections and still getting 480 characters per second is an information stage coach road through the old west with washouts and a coach being pulled by three lame horses and an ox.

==
Sean Smithers
Internet: seans@gp.magick.net
CompuServe: 70132,136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Thu, 20 Jun 1996, Paul Christenson wrote:

> Roger Sellers wrote:
>
> > Remember this is nicknamed the Information SUPER Hiway, it isnt always a
> > walk in the park.
>
> I'll agree with the SUPER highway part once I get a T-1 directly into my house...
>
> A 14.4 modem connection is more like the "information Jeep-trail"... <G>
>
>
>

---

765. Re: [APRSSIG:2231] How do I change addresses?

From: ku0g@sprynet.com
Date: Thu, 20 Jun 1996 22:20:05 -0700
To: aprssig@tapr.org
Message-ID: <199606210520.WAA28696@m1.sprynet.com>
Rendered body type: text/plain

Do an unsubscribe using your old ISP address in the From field then do a new subscribe using the new ISP address! Easy, huh?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

766. SAREX and APRtrak notes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 21 Jun 1996 01:47:14 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960621012658.29997A-100000@arctic>
Rendered body type: text/plain

THe SAREX robot is configured to relay the special APRtrak position packets during this STS-78 mission. Stations running APRtrak should see successful packet uplink stations show up on their maps. For operating details, see the README\SPACE.txt file that came with APRtrak. The latest version of APRtrak is still version 0.5 dated in November 95 which was successfully used during the SPRE mission in January 96.

CAUTION: During recent testing, however, we have discovered that all versions of standard APRS after APRS74e will not properly detect a successful SAREX relay, and therefore should not be operated in AUTOMATIC SPACE Mode. Use APRtrak, or WATCH for your relayed packet and STOP transmitting when you are successful..

```
A beta test of APRS76e has been posted that hopefully solves this
problem.  It can be downloaded from tapr.org via ftp from the
tapr/SIG/aprssig/files/upload directory.  Get the file beta76e.zip.

REMEMBER.  Operate SPLIT mode, receiving on 145.55 and transmitting on
144.49 only when the SAREX Packet mode is operating.

de wb4apr@amsat.org
```

767. KPC-3 Help!

From: rbost@itexas.net (Roy Bost)
Date: Fri, 21 Jun 1996 06:18:51 -0400
To: aprssig@tapr.org
Message-ID: <31CA770B.E23@itexas.net>
Rendered body type: text/plain

```
Does anyone know how to get controll of a Ver.6 KPC-3 after it has been
put into GPS mode?  The only way that I have found is to take the case
off and do a hard reset! None of my packet programs will even find the
tnc once it is GPS mode(Pack Term, Hostmaster II+, and PacketPet).
 Roy W Bost
 rbost@itexas.net
 N5TAM
```

768. Re: [APRSSIG:2230] Garmin 75 software

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 21 Jun 1996 06:49:49 -0700
To: aprssig@tapr.org
Message-ID: <31CAA87D.21EF@worldnet.att.net>
Rendered body type: text/plain

```
Frank McJunkins wrote:
>
>
> Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us  FAX: (206) 545-7916

Well Frank you mentioned Megallen before. Don't think you will find them any
better then at Garmins believe me i know (And that's a fact)...
--
Bill KE4EER
ke4eer@worldnet.att.net
Yes i switched again Hi
```

769. STS-78 KEPS?

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Fri, 21 Jun 1996 12:00:39 GMT
To: aprssig@tapr.org
Message-ID: <199606211200.MAA04983@mailhost.worldnet.att.net>
Rendered body type: text/plain

```
Has anybody found a good source for the Keplerian Data,preferably in 2 line
format?

Bud (WB4LTF)
```

770. Re: [APRSSIG:2231] How do I change addresses?

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 21 Jun 1996 07:10:03 -0700
To: aprssig@tapr.org
Message-ID: <31CAAD3B.2C2E@worldnet.att.net>
Rendered body type: text/plain

```
Roger Sellers wrote:
>
>   I will be changing IP provider in the near future. How to I go about
> changing my address to the new provider to continue getting this SIG?
>
> 73,
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@misha.net
> E-Mail Work: rsellers@snds.com

Hi Roger. I guess i could answer that since i have done it many times Hi.
Go to the site listed below and unsubscribe, then when getting
confermation back that in fact it was done, go back to the same site and
re-subscibe. I have found this easy if you just go to the tapr site below.
By the way they will be down on Friday for a while dont remember the time.
```

```
http://www.tapr.org/tapr/html/sigs.html
--
Bill KE4EER
ke4eer@worldnet.att.net
Yes i switched again Hi
```

---

771. Re: [APRSSIG:2238] STS-78 KEPS?

From: rwf <rwf@mindspring.com>
Date: Fri, 21 Jun 1996 09:12:47 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960621085041.26176d7e@mindspring.com>
Rendered body type: text/plain

```
Bud- there is a Mail-List (from ARRL, I think) that I belong to.  It sends
me the keps automatically.
Usually I just trash them, unless I am working Satellites right then.  Now I
look in my trash and can't find a single copy to use for getting you the
address.  If no one else speaks up, I'll try to remember to send you the
address tonight.






                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
      rwf@mindspring.com  or  n4neq@amsat.org
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio, GPS and
APRS. Ask me how!
```

---

772. (no subject)

From: AZWDC@aol.com
Date: (date unavailable)
Rendered body type: text/plain

```
Date: Fri, 21 Jun 1996 09:37:17 -0400
Message-ID: <960621093716_222075792@emout19.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:2236] KPC-3 Help!

Yep:....Hold the control key down and hit the c key three times (rapidly)

That should work providing you're at the same baud rate

DE JIM
WW7J
```

---

773. Re: KPC-3 Help!

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Fri, 21 Jun 1996 08:52:43 -0500
To: aprssig@tapr.org
Message-ID: <9606210852.AA43134@oscar.telalink.net>
Rendered body type: text/plain

```
> Does anyone know how to get controll of a Ver.6 KPC-3 after it has
> been put into GPS mode?  The only way that I have found is to take
> the case off and do a hard reset! None of my packet programs will
> even find the tnc once it is GPS mode(Pack Term, Hostmaster II+,
> and PacketPet).
>  Roy W Bost
>  rbost@itexas.net
>  N5TAM
>

Send three "control-c" commands and that will reset it to term mode and give
you the "cmd:" prompt. I know it is specified in the addendum for 6.0 but it
is probably buried somewhere in the fine print.

Hope this helps,

Bruce
```

```
--
**********************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net           *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                           *
* Hermitage TN  37076-2650                                            *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W           *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W              *
* URL:  http://www.telalink.net/~martinbw/home.html                   *
*        ftp://ftp.telalink.net/users/m/martinbw/ftp/incoming/        *
*    I have a 486DX33 to play games and run some HAM programs,        *
*        when I want to do serious work I use a Macintosh.      0-    *
**********************************************************************
```

774. Map needed

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 21 Jun 1996 08:56:14 -0700
To: aprssig@tapr.org
Message-ID: <31CAC61E.CC6@worldnet.att.net>
Rendered body type: text/plain

Bob or anyone that has the 2M CD or files. I need 32 mile map centered on
SLIDEL,LA or maybe a 64 mile map since a lot of it will be water. I need
this because i'm making some maps for Jan in his area around New Orleans
but they don't seam to have any basic maps and he's trying to stirr up
some interest in APRS around there. By the way the coordinate for SLIDEL
is as follows 30,16.861 - 89,46.660. Thanks in advance.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
Yes i switched again Hi

775. Re: [APRSSIG:2236] KPC-3 Help!

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 21 Jun 1996 09:14:34 -0500
To: aprssig@tapr.org
Message-ID: <199606211414.JAA07301@tbc1.tbcnet.com>
Rendered body type: text/plain

I think it takes 3 or more Ctrl-C's done REAL fast.

jbl

At 06:25 6/21/96 -0500, you wrote:
>Does anyone know how to get controll of a Ver.6 KPC-3 after it has been
>put into GPS mode? The only way that I have found is to take the case
>off and do a hard reset! None of my packet programs will even find the
>tnc once it is GPS mode(Pack Term, Hostmaster II+, and PacketPet).
> Roy W Bost
> rbost@itexas.net
> N5TAM
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

776. Re: [APRSSIG:2236] KPC-3 Help!

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Fri, 21 Jun 1996 10:29:49 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960621101836.30ef1974@popd.ix.netcom.com>
Rendered body type: text/plain

At 06:25 AM 6/21/96 -0500, you wrote:
>Does anyone know how to get controll of a Ver.6 KPC-3 after it has been
>put into GPS mode? The only way that I have found is to take the case
>off and do a hard reset! None of my packet programs will even find the
>tnc once it is GPS mode(Pack Term, Hostmaster II+, and PacketPet).
> Roy W Bost
> rbost@itexas.net
> N5TAM
>
>

Send it three "CTRL-C" in a row. (if it doesn't work the first time try
again -
the timing of the CTRL-Cs is important)

NOTE: This is similar to the way you exit from TRANSPARENT mode.

73 and good luck

Steve Hall - KK4PM   (Operating Field Day mobile APRS - hoping to visit as many
APRS active field day sites in Ohio as possible!)

---

777. Re: [APRSSIG:2238] STS-78 KEPS?

From: fe2o3!rusty@ernest.itg.ti.com (Rusty Haddock-KD4WLZ)
Date: Fri, 21 Jun 96 09:12 CDT
To: tapr.org!aprssig@ernest.itg.ti.com (B.G. Gotshall)
Message-ID: <9606211352.AA11965@fe2o3.LONESTAR.ORG>
Rendered body type: text/plain

B.G. Gotshall wrote:

>
>Has anybody found a good source for the Keplerian Data,preferably in 2 line
>format?

The best source there is:

ftp://archive.afit.af.mil/pub/space/tle.new

(this always points to the latest and greatest. There are files
for specific groups of objects [e.g. gps, am, glonass, wx, etc])

or

http://www.grove.net/~tkelso/

The same gentleman takes care of both.

-Rusty-

```
--
   _____        Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
|\/   o \   o
|   (  -<  O o  I planted my antenna farm and what popped up was aluminum
|/\__V__/       and copper tubing.  Strange thing is... I used steel seeds!
```

---

778. Re: [APRSSIG:2238] STS-78 KEPS?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 21 Jun 1996 10:19:08 +0000
To: aprssig@tapr.org
Message-ID: <199606211423.KAA23640@hemisphere.neocomm.net>
Rendered body type: text/plain

I just found kep data for STS-78 at.....

http://www.amsat.org/amsat/sarex/orbit.html

chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

---

779. Re: [APRSSIG:2223] Re: APRS on STS-78 Tomorrow! (fwd)

From: Doug_Wetzel@acs.uswest.com
Date: Fri, 21 Jun 1996 08:40:20 -0500
To: aprssig@tapr.org
Message-ID: <1cb5e330@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

The ARRL Bulletin says the packet call will be W5RRR-1

73
Doug
KC7CO
____
Subject: [APRSSIG:2223] Re: APRS on STS-78 Tomorrow! (fwd)
From: aprssig@tapr.org at Internet-Mail
Date: 6/20/96 17:03

```
On Thu, 20 Jun 1996, Ronald G. Parsons wrote:

> What UNPROTO alias will they be using? RELAY? W5RRR-1?

APRSdos REPLY COMMENT: My guess is W5RRR or W5RRR-1

de wb4apr@amsat.org
```

---

780. Re: [APRSSIG:2238] STS-78 KEPS?

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 21 Jun 1996 09:51:30 -0500
To: aprssig@tapr.org
Message-ID: <199606211451.JAA07909@tbc1.tbcnet.com>
Rendered body type: text/plain

```
At 07:07 6/21/96 -0500, you wrote:
>Has anybody found a good source for the Keplerian Data,preferably in 2 line
>format?
>
>Bud (WB4LTF)
>

Refer to
http://tbcnet.com/~jleonard/leonard.htm

or

ftp://tbcnet.com/pub/jleonard

for TLE's and STS78 Pass Predictions for NO IL area during FD

73
-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

---

781. Re: [APRSSIG:2236] KPC-3 Help!

From: ku0g@sprynet.com
Date: Fri, 21 Jun 1996 07:50:02 -0700
To: aprssig@tapr.org
Message-ID: <199606211450.HAA19679@m1.sprynet.com>
Rendered body type: text/plain

```
Here's how to regain control of the TNC (2 ways!)

1)  Connect your terminal program to the TNC.  Turn TNC off then back on.  Hit
CTRL C  THREE TIMES in succession then hit ENTER.  You should get a TNC RESET
message and CMD: prompt.  You are now back in TERMINAL mode.

2)  Use the Remote Sysop function of the TNC by connecting to the TNC using
another station with the SAME CALL (SSID is not important.  Once you enter the
password code you are able to execute any TNC command.  At this point simply
send INT TERMINAL. This will cause the TNC to reset and you can plug in then to
do what you need to do.  This mode is particularly useful if you have
stand-alone trackers running and need to changes parms on the fly while the
tracker is operating!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

782. APRS and SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 21 Jun 1996 10:53:18 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960621104648.25215A-100000@arctic>
Rendered body type: text/plain

```
Just got word that SAREX is not scheduled to be unpacked until
1734 EDT today (fri) so we will not see SAREX here on the east coast
probably until Saturday morning (first pass about 0920 EDT)...

And I suspect many passes will be voice..

If anyone has downloaded beta76e.zip and has any comments, please let me
```

know. If it looks good, then I will release a new version of APRtrak too.

P.S. Be sure to set CONTROLS-LOGS to ON so you save any data on
un-attended passes. ALso be sure to do a FILES-SAVE before exiting APRS
or APRtrak if you want to save what you got...

de wb4apr@amsat.org

---

783. Re: [APRSSIG:2238] STS-78 KEPS?

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 21 Jun 1996 10:00:20 -0500
To: aprssig@tapr.org
Message-ID: <199606211455.JAA14269@tapr.org>
Rendered body type: text/plain

At 07:07 AM 96-6-21 -0500, you wrote:
>Has anybody found a good source for the Keplerian Data,preferably in 2 line
>format?
>
>Bud (WB4LTF)
>

```
STS-78
1 23931U 96036A   96173.50125579  .00013200  72616-9  23576-4 0    54
2 23931  39.0143   4.0637 0007869 281.3346 167.8600 16.00622230   153
```

from ftp://ftp.amsat.org/amsat/keps/sarex/STS-AMS.TXT

```
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

784. Re: [APRSSIG:2246] Re: STS-78 KEPS?

From: dpage@cvpsun174.ti.com (Doug Page)
Date: Fri, 21 Jun 96 10:45:55 CDT
To: aprssig@tapr.org
Message-ID: <9606211545.AA02093@cvpsun174.cvp.ti.com>
Rendered body type: text/plain

Dr. Kelso's data does not yet include STS 78 (23931). He has been updating
tle.new (et al) ~20:00 UTD each day, so look for it this afternoon.

In the mean time you can get the elements from JSC at:

        http://shuttle.nasa.gov/sts-78/orbit/orbiter/sighting/shuttle.html

Be careful with this data. It is very early in the flight and, thus the
elements have not yet stabalized. For example: the elements that I pulled
last night (internally dated as being 20 June 1996 ~21:00 UTC) were almost
1/4 orbit behind the shuttle's actually position this morning. The elements
that I just pulled from this sight were internally dated as 21 June 1996
01:00 UTC (actually 96173.0491276). These elements are currently a fairly
good match to the models that NASA posts on the WWW at:

        http://shuttle.nasa.gov/sts-78/demos

Also be aware that NASA may post more that one set of elements in the
`shuttle.html location. Look for the one with the latest internal date/time.

More than enough said.

FWIW,

de KC5RRZ (Doug)

```
***  The opions expressed are mine (maybe) and do not necessarily represent  ***
***  those of my employer -- or any other sane person, for that matter.      ***

        -----------------------------------------------------------------
```

```
Rusty Haddock-KD4WLZ wrote:
> B.G. Gotshall wrote:
>     >
>     >Has anybody found a good source for the Keplerian Data,preferably in 2 line
>     >format?
>
> The best source there is:
>
>       ftp://archive.afit.af.mil/pub/space/tle.new
>
>       (this always points to the latest and greatest.  There are files
>        for specific groups of objects [e.g. gps, am, glonass, wx, etc])
>
> or
>
>       http://www.grove.net/~tkelso/
>
> The same gentleman takes care of both.
>
>       -Rusty-
>
> --
>    _____      Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
> |\/   o \   o
> |   (  -<  O o        I planted my antenna farm and what popped up was aluminum
> |/\__V__/     and copper tubing.  Strange thing is... I used steel seeds!
>
>
```

---

785. Garmin 45 & PicoPacket

From: schiers@ames.net
Date: Fri, 21 Jun 96 10:50:44 -0500
To: aprssig@tapr.org
Cc: winaprs@tapr.org
Message-ID: <199606211553.KAA16979@tapr.org>
Rendered body type: text/plain

I have a Garmin 45 and just ordered a Pico Packet standard model for
mobiling about. I am not going to run APRS while mobile. I want to run in
a stand alone mode with just the pico, garmin and radio.

If anyone has done this with a setup similar to this, could you please
drop me some hints:

1. What data mode (i/o) should the Garmin 45 be in. Any special settings?

2. What commands should I use in my terminal software to initially set up
   the pico tnc?
e.g. gps commands, timed transmissions, etc.

Does data just automatically start flowing from the Garmin and the Pico
decodes it and sends it out at some specified interval?

At this point, I don't have a clue and I should have all the parts ready
to run by next Wednesday. TIA. 73,

hasan schiers, N0AN--
```
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

---

786. Re: [APRSSIG:2194] Re: Help with GPS-75 and mobile setup needed

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 21 Jun 1996 12:14:36
To: APRSSIG@tapr.org
Message-ID: <199606211613.MAA28775@mail-e2b-service.gnn.com>
Rendered body type: text/plain

On Wed, 19 Jun 1996 Jim Duncan wrote:

>I don't think version 5.0 firmware in the KPC-3 is GPS ready..
>Thought it was version 6.0...

Yup. There's also a V.5.1 (which I've got) which also is
not GPS or APRS ready. But the upgrade chip (according to Kantroncis) is only about twenty or twenty-five bucks, which beats
spending $110+ for a new one!

```
Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Target those coordinates and fire quantum torpedoes.....
```

---

787. Pac-com Pico-Packet w/GPS Help

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 21 Jun 1996 12:15:34
To: APRSSIG@tapr.org
Message-ID: <199606211613.MAA31100@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi All,

     Well, I finally got the PacCom Pico-Packet with the
built-in GPS receiver.  Aside from the obvious (to most of us)
considerations for getting such a unit, I intend to use it in
various New York City ARES/RACES functions, such as parades,
marathons and the like.  I'm even going to try to get it into
the New York City Marathon (for which comms are NOT handled by
this group, but I'm Mile Captain for Mile 21 [where the race
leaves the Bronx, down to 122nd Street and Fifth Avenue] and I
think I know the right people to cajole about it.)

     Those of you who have operated this unit already could do
me a great service in rendering ANY advice or recommendations
you may have about it.  It'll (mostly) be used with a Yaesu
FT-530 H-T (mobile and portable) thus freeing the mobile rig
for voice comms.

     My vehicle (Nissan Pathfinder) has a glass sunroof which
has some kind of black grid on the inside of the glass to cut
down on harsh sunlight.  I suspect it's plastic, not metal.
Below this is a thumbscrew-on headliner, which gives me a bit
of space (1/2 to maybe 5/8 inch) between it and the glass.
Seems to me, if the antenna is short enough, this would be a
good place to put it, since I wouldn't have to route the cable
outside the vehicle, it'd keep it dry and (unless this plastic
grid is a problem) would be able to see the majority of the
sky.  BTW, I picked up a spare one of these sunroofs (rooves?)
from an abandoned Nissan Stanza a few years ago ... they're i-
dentical.

     Thanks for your responses.  Please respond direct unless
you think it'd be of general interest to the SIG.  73 de


Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Target those coordinates and fire quantum torpedoes.....
```

---

788. Re: [APRSSIG:2235] SAREX and APRtrak notes

From: Paul Gilmore <pgilmore@beachnet.org>
Date: Fri, 21 Jun 1996 12:32:29 -0400
To: aprssig@tapr.org
Message-ID: <31CACE9D.87F@beachnet.org>
Rendered body type: text/plain

```
Hi all you APRS SAREX types..
I just uploaded a file to TAPR aprssig UPLOAD called STS78srx.zip.
It has all the sarex stuff you need to know and more.
Have a Great Field Day.....

 Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
 AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
 EMAIL  pgilmore@beachnet.org
```

---

789. DFJr

From: edwardwr@inil.com (edwardwr)
Date: Fri, 21 Jun 1996 12:47:41 -0500
To: aprssig@tapr.org
Message-ID: <19960621174740831.AAA302@KAREN>
Rendered body type: text/plain

Hi, All!
I have watched the discussion on the Sig in reference to the Agrelo engineering DF Jr. and thought I would throw my 2 cents worth into the pot.
        I was/am one of the 10 beta testers receiving my unit several weeks prior to the first "production" run.
        When UPS dropped off the first package I sat down with the manual and was able to put the antenna system together without any difficulty. I hooked up the power cables and using a Standard 108C (mini-radio) went on the air. I had some difficulty getting unit calibrated. Not being much of a fox hunter I asked Dave, KA9NHL, to help with setup. Dave took the unit down to the Central Illinois Balloon Association group and they proceeded to run some tests. Being unable to get unit calibrated properly, they called Joe Agrelo direct about what the unit was doing. When I got the DF Jr. back from Dave and the CIBA folks, I called Agrelo and talked with Joe intending to see how I could go about getting my unit fixed. Joe told me that a new unit, coupler, and antenna system was on it's way to me already. And as a matter of fact, it arrived 15 minutes after I got off the phone with Joe. UPS Express delivery! I again assembled the antenna, hooked the unit up, and it worked as advertised. I am able to consistently get accurate LOPs displayed on both the box itself and on my trusty laptop screen. I will have a much more comprehensive review of the system after this weekend as we will be conducting a joint US Coast Guard Auxillary/US Naval Reserve evolution on Lake Michigan in which part of the radio gear put to use will be a DF Jr. (I can tell you right now that we (Dan N9XHP)were impressed enough with Beta units to order 10 additional DF Jrs. for the US Coast Guard Aux/Marine Safety use here on the Chicago lakefront.)
        In conclusion, I'd like to note that in today's mail I received a microprocessor upgrade for the DF Jr. including complete installation instructions and a phone number to call for advice if you get stuck. Compare that to the recent comments concerning a major GPS manufacturer's policy on firmware/software upgrades. Agrelo engineering is a class act!
Ed Rogers, N9LCI

73
Ed
N9LCI
                            MESSAGE OF THE MONTH

            "A boat is a hole in the water into which you throw money"

---

790. Re: [APRSSIG:2258] DFJr

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 21 Jun 1996 16:37:40 -0500
To: <aprssig@tapr.org>
Message-ID: <199606212141.QAA07995@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

The uP chip that you recieved was a result of a problem with the GPS interfacing. I noted it to them about 10 days ago. They promptly halted production, tested, got the same results and proceeded to upgrade every unit already out there. Joe told me yesterday that about 50 of those chips were sent out!

> In conclusion, I'd like to note that in today's mail I received a
> microprocessor upgrade for the DF Jr. including complete installation
> instructions and a phone number to call for advice if you get stuck.
> Compare that to the recent comments concerning a major GPS manufacturer's
> policy on firmware/software upgrades. Agrelo engineering is a class act!
> Ed Rogers, N9LCI

If you can afford to throw money in a hole in the wate, buy a ship!

> MESSAGE OF THE MONTH
>
> "A boat is a hole in the water into which you throw money"

---

791. Re: [APRSSIG:2238] STS-78 KEPS?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 21 Jun 1996 16:08:40 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606212108.QAA08092@solar.cs.tamu.edu>
Rendered body type: text/plain

As I get it, I'll post it to the List.

73, gerry

---

792. Re: [APRSSIG:2254] Garmin 45 & PicoPacket

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 21 Jun 1996 16:22:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606212122.QAA08294@solar.cs.tamu.edu>
Rendered body type: text/plain

```
schiers@ames.net sez:
>
> If anyone has done this with a setup similar to this, could you please
> drop me some hints:

Sounds like Cows In Space to me...

> 1. What data mode (i/o) should the Garmin 45 be in. Any special settings?

NMEA 0183 V2

> 2. What commands should I use in my terminal software to initially set up
>    the pico tnc?
> e.g. gps commands, timed transmissions, etc.

The manual is pretty good on this...
A) LOC E 30 sets the Pico to transmit the LTEXT contents every 300 sec (5 min)
B) LPATH APRS v [digi1] [digi2]...
C) MTRANS ON (if it supports this) allows you to monitor while in transparent
   mode for things like DGPS
D) GPS ON

> Does data just automatically start flowing from the Garmin and the Pico
> decodes it and sends it out at some specified interval?

If GPS is on, it comes up in GPS mode when power's applied. Data that meets
the GPSTEXT mask will be placed in LTEXT and sent periodically.  I'd expect
teh Garmin to start up in the same mode as it was powered down from.

gerry
```

---

793. Re: [APRSSIG:2253] Re: STS-78 KEPS?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 21 Jun 1996 16:16:40 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606212116.QAA08206@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Doug Page sez:
>
> Dr. Kelso's data does not yet include STS 78 (23931).  He has been updating
> tle.new (et al) ~20:00 UTD each day, so look for it this afternoon.
>
> In the mean time you can get the elements from JSC at:
>
>       http://shuttle.nasa.gov/sts-78/orbit/orbiter/sighting/shuttle.html
>
> Be careful with this data.  It is very early in the flight and, thus the
> elements have not yet stabalized.  For example:  the elements that I pulled
> last night (internally dated as being 20 June 1996 ~21:00 UTC) were almost
> 1/4 orbit behind the shuttle's actually position this morning.  The elements

Unless things have changed recently, these were, indeed, propagated Keps,
based on propagated state vectors (the "propagated" part is significant).  You
might get caught occasionally with "what-if" maneuver vectors, rather than
analysis based vectors, thus leading to some transient errors.  HOWEVER, they
should be reasonable.  Unlike expendable launch vehicles, and their payloads
that may take several days to stabilize, the Shuttle is actively stabilized,
and anything posted after OMS-2 should represent a good vector, if it's
analysis-based.

> that I just pulled from this sight were internally dated as 21 June 1996
> 01:00 UTC (actually 96173.0491276).  These elements are currently a fairly
> good match to the models that NASA posts on the WWW at:
>
>       http://shuttle.nasa.gov/sts-78/demos

The DEMOS system is a good comparison for you to use:  Based on analysis-based
vectors, it shows the attitude and subsatellite point. SGI systems can do some
neat things!
```

Gerry

> Also be aware that NASA may post more that one set of elements in the
> `shuttle.html location. Look for the one with the latest internal date/time.

True enough.

---

794. STS-78 Rev 15 Orbital Data

From: Ken Ernandes <70511.3107@compuserve.com>
Date: 21 Jun 96 08:56:03 EDT
To: STS TLE List <ststle@spacelink.msfc.nasa.gov>,
Spacelink News <slnews@spacelink.msfc.nasa.gof>,
cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
SAREX <sarex@amsat.org>,
Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>
Message-ID: <960621125603_70511.3107_IHD74-1@CompuServe.COM>
Rendered body type: text/plain

STS-78 ORBITAL DATA

Below is the rev 15 State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector. Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

```
Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96173.50125578700
                        06/21/1996  12:01:48.499 UTC
EFG E:                           16938215 ft
    F:                             779934 ft
    G:                           13725453 ft
    Edot:                        -1286.34 ft/s
    Fdot:                        24130.97 ft/s
    Gdot:                          222.28 ft/s
ndot/2 (drag):              0.00013200042 rev/day^2
nddt/6:                       7.26162E-10 rev/day^3
Bstar:                        2.35758E-05 1/Earth Radii
Elset #:                                5
Rev @ Epoch:               15.24776279058
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 0.25 drag multiplier:

```
STS-78
1 23931U 96036A   96173.50125579  .00013200  72616-9  23576-4 0    54
2 23931  39.0143   4.0637 0007869 281.3346 167.8600 16.00622230   153
Satellite: STS-78
Catalog number: 23931
Epoch time:      96173.50125579
Element set:       5
Inclination:       39.0143 deg
RA of node:         4.0637 deg
Eccentricity:    0.0007869
Arg of perigee:   281.3346 deg
Mean anomaly:     167.8600 deg
Mean motion:   16.00622230 rev/day
Decay rate:    1.32000e-04 rev/day^2
Epoch rev:             15
Checksum:             265
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

---

795. Re: [APRSSIG:2238] STS-78 KEPS?

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Fri, 21 Jun 1996 19:03:08 -0400
To: aprssig@tapr.org
Message-ID: <31CB2A2C.135B@codger.physics.duq.edu>
Rendered body type: text/plain

B.G. Gotshall wrote:
>
> Has anybody found a good source for the Keplerian Data,preferably in 2 line
> format?

Sure.

http://www.grove.net/~tkelso/

---

796. MAR-6 and GPS Antenna Preamp

From: Mel Muecke <MMuecke@InterfaceTech.com>
Date: Fri, 21 Jun 1996 14:48:19
To: aprssig@tapr.org
Message-ID: <19960621144819.062a31b4.in@InterfaceTech.com>
Rendered body type: text/plain

I found an ad for mini-circuits mentioning they have a 740 pg Handbook. I
sent a short note mentioning the antenna project and here is their reply:

>The Mini-Circuits Handbook is free of charge. We will send you one
>via UPS as soon as we get your address. Please forward your address
>via E-mail or by phone at 417-337-8812.
>
>The MAR-6 or MAR-6SM (same unit with leads bent for surface mount)
>should give about 15 dB of gain in the GPS band. The 3 dB noise
>figure is also quite respectable for such a tiny unit.
>
>The MAR-6 is rated "conditionally stable," meaning that if the VSWR
>at the input or output exceeds 5:1 it can oscillate. Cascading the
>MAR-6 is possible for added gain, but some isolation is necessary
>between stages to prevent reflections and resulting oscillations.
>Generally, a 3 dB pad between the stages (6 dB isolation) will be
>sufficient. . . .   Gerry Edson, WA0KNW - applications eng.
>
>

Their web page is at www.minicircuits.com

Mel

```
________________________________________________________
  @__0~_          Mel Muecke - Applications Engineer
 ,>/->/-#         mmuecke@InterfaceTech.com
(*)\--\(*)        Interface Technology - Walnut, CA  USA
                  (909) 595-6030   Fax (909) 595-7177
```

---

797. Digest Mode

From: Greg Jones <wd5ivd@tapr.org>
Date: Fri, 21 Jun 1996 20:02:03 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199606220102.UAA07358@tapr.org>
Rendered body type: text/plain

This seems to be a popular setting.

To get the APRS SIG in a daily digest mode -- send e-mail to
listserv@tapr.org and in the message enter

set aprssig digest

Then you will get a daily message -- which is easy to browse. Someone
recenetly posted a little script that takes the digest and breaks it back
out -- guess someone should snag that and put it in the ftp area with some
information.

Cheers - Greg, WD5IVD

---

798. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 21 Jun 1996 15:14:38 -0700
To: aprssig@tapr.org
Message-ID: <31CB1ECE.6344@worldnet.att.net>
Rendered body type: text/plain

Where can a person get the STS-78 elements, i downloaded all the ones
mentioned and didn't see STS-78 mentioned at all. Shouldn't it be listed
as such in the files?.
--
Bill KE4EER
ke4eer@worldnet.att.net

Yes i switched again Hi

---

799. STS-78 element set JSC-903 (21-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 21 Jun 1996 16:23:35 -0500 (CDT)
To: aprssig@tapr.org, rburke@sat.net (Rory Burke),
joejarre@netcom.com (Joe Jarrett), elendir@inf.enst.fr (Elendir),
jmaynard@admin5.hsc.uth.tmc.edu (Jay Maynard),
351.1297@mcimail.com (Fred Maia),
morgan@sed.jsc.nasa.gov (Bill Morgan),
WAYNE@kamugate.tamu.edu (Wayne Pecena),
vis_pfg@unx1.shsu.edu (Paul Gilbert), john@hercules.xilinx.com (John),
g-taylor4@tamu.edu (Greg Taylor),
cakifer@lims02.lerc.nasa.gov (C.A. Kifer),
515.0511@mcimail.com (Jeff Bauer), stevej@onramp.net (Steve Jones),
cowdin@pogo.den.mmc.com (Dave Cowdin),
cranston.reid@windmill.com (Cranston Reid),
bkline@space.honeywell.com (Bob Kline),
kusznir@owens.ridgecrest.ca.us (Jim Kusznir)
Message-ID: <199606212123.QAA08333@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Fri, 21 Jun 1996 09:29:05 -0500
> Subject: STS-78 element set JSC-903 (21-Jun-96)
>
>
>
> STS-78
> 1 23931U 96036A   96173.04912476  .00128600  00000-0  22834-3 0  9035
> 2 23931  39.0142   7.0951 0007255 276.8911  83.1241 16.00541057    80
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96173.04912476   =     yrday.fracday
> Element set:     903
> Inclination:       39.0142 deg
> RA of node:         7.0951 deg
> Eccentricity:     .0007255
> Arg of perigee:   276.8911 deg
> Mean anomaly:      83.1241 deg
> Mean motion:   16.00541057 rev/day
> Decay rate:    1.28600E-03 rev/day^2
> Epoch rev:              8
> Checksum:             278
>
>
> Gil Carman
>
>
>


--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

---

800. Re: [APRSSIG:2236] KPC-3 Help!

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Fri, 21 Jun 1996 22:10:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.93.960621220905.18383A-100000@garc.gsfc.nasa.gov>
Rendered body type: text/plain

On Fri, 21 Jun 1996, Roy Bost wrote:

> Does anyone know how to get controll of a Ver.6 KPC-3 after it has been
> put into GPS mode?

Three (3) Ctrl-C characters in a row should do it.

```
--
Randy Hammock KC6HUR      | E-Mail: kc6hur@garc.gsfc.nasa.gov
8951 Tamar Drive, Apt 101 |  Voice: +1-410-964-5503
Columbia, MD 21045        |
```

---

801. Slidel, LA

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 21 Jun 1996 21:16:44 -0500
To: aprssig@tapr.org
Message-ID: <9606220216.AA09956@ELWOOD.pionet.net>
Rendered body type: text/plain

Id does'nt seem possible, but I mad the maps based on your information. There are hardle any points out there. Look it over and tell me if I did what you needed.

Dave
[Attachment: SLDL64.DAT; text/plain; 5,020 bytes]
[Attachment: SLDL32.DAT; text/plain; 3,540 bytes]

---

802. Re: [APRSSIG:2270] Slidel, LA

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 21 Jun 1996 21:31:15 -0500
To: aprssig@tapr.org
Message-ID: <9606220231.AA11267@ELWOOD.pionet.net>
Rendered body type: text/plain

I AM SO SORRY!

I tried to send a message to KE4EER and sent it to the group instead. I know better but I screwed up! Whats worse it the sizew of the message! Well, if you're going to make a mistake--make a big one.

Flame me in private please--I have no one to blame but me.

Dave
dkaplan@pionet.net

---

803. control of remote TNC ?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 21 Jun 1996 23:30:12 +0000
To: aprssig@tapr.org
Message-ID: <199606220334.XAA17002@hemisphere.neocomm.net>
Rendered body type: text/plain

What are the options for control of a remote wide digi.? Do some tnc`s come with this ability? I know some have remote sysop for mail only. What type eprom burn is best for control, ie xmit on off, unproto change, mycall, myalias, etc. What works for you ?
Thanks

cdavidso@neocomm.net

chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

---

804. Re: [APRSSIG:2254] Garmin 45 & PicoPacket

From: "Eric L. Martin" <elmartin@iamerica.net>
Date: Fri, 21 Jun 1996 22:53:09 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960621220530.8526B-100000-100000@linux-kc5enu.ampr.org>
Rendered body type: text/plain

On Fri, 21 Jun 1996 schiers@ames.net wrote:

> I have a Garmin 45 and just ordered a Pico Packet standard model for
> mobiling about. I am not going to run APRS while mobile. I want to run in
> a stand alone mode with just the pico, garmin and radio.
>
> If anyone has done this with a setup similar to this, could you please
> drop me some hints:
>
> 1. What data mode (i/o) should the Garmin 45 be in. Any special settings?
>

NONE/NMEA (That will give you no input and NMEA output; No need for the
           input)
NMEA 0183 2.0
4800 BAUD

> 2. What commands should I use in my terminal software to initially set up

```
>    the pico tnc?
> e.g. gps commands, timed transmissions, etc.
>
LOCation every/after N (N * 10 seconds)
        This determines how often the information in LTEXT is sent.
GPSTEXT $GPGGA (or use which NMEA sentence you would like)
LPATH GPS via WIDE (or whatever conventions you use locally)
        This is different than the unproto path.
GPS ON
        Turn this on after every thing else is set; It sets the RS-232
        port up for receiving GPS data.
```

Note: You do not need to worry about the GPSITEXT command, as it is only for sending information to a GPS if it needs it, which the Garmin doesn't need.

Once everything is set as above, the NMEA sentences starting with $GPGGA will be loaded into LTEXT. Then the information in LTEXT will be sent out over the radio at the specified interval with the LOCATION command. To get the tnc out of GPS mode, type a '\' with your terminal program.

> Does data just automatically start flowing from the Garmin and the Pico
> decodes it and sends it out at some specified interval?
>

Yes, once you have the I/O screen set up as above, the GPS will continually send the output while still operating as normal. Just make sure you have GPS output and the ground hooked up to the PicoPacket, and everything should work.

> At this point, I don't have a clue and I should have all the parts ready
> to run by next Wednesday. TIA. 73,
>

Well, I hope I have helped some. I have a Garmin 45 I am hooking up to the PicoPacket with the second serial port and battery. I haven't got my setup running yet, but I have read the manuals for the Garmin and Pico. Good luck with it and lots of fun.

> hasan schiers, N0AN--
> ---
> schiers@ames.net
> ---
>
>

--
Eric L. Martin (KC5ENU)
elmartin@iamerica.net

---

805. Re: [APRSSIG:2270] Slidel, LA

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 21 Jun 1996 21:58:37 -0700
To: aprssig@tapr.org
Message-ID: <31CB7D7D.14EA@worldnet.att.net>
Rendered body type: text/plain

Dave Kaplan wrote:
>
> Id does'nt seem possible, but I mad the maps based on your information.
> There are hardle any points out there. Look it over and tell me if I did
> what you needed.
>
> Dave
>
>   ---No that can't be right the

coordinates for SLIDEL is 30,16.861N 90,46.660W
and at 64 miles or even 32 should include New Orleans. I have a smaller 8 mile map of that and it shows a lot of roads, water etc. Something wrong here. The map you send had only a couple of roads in it Hi. Try New Orleans it's coordinate is 30,3.950N 89,55.881W and see what you get. STRANGE are you getting this from a CD or from USGS internet files?.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

806. Re: [APRSSIG:2267] STS-78

From: Rick Szpyrka <wb8tif@sprynet.com>
Date: Sat, 22 Jun 1996 00:08:05 -0400

To: aprssig@tapr.org
Message-ID: <31CB71A5.1677@sprynet.com>
Rendered body type: text/plain

William Nolle wrote:
>
> Where can a person get the STS-78 elements, i downloaded all the ones
> mentioned and didn't see STS-78 mentioned at all. Shouldn't it be listed
> as such in the files?.
> --
> Bill KE4EER
> ke4eer@worldnet.att.net
> Yes i switched again Hi

You can find the latest 2 line keps for STS-78, plus other info on
STS-78 or links to it on my web page.

--
Rick Szpyrka   WB8TIF
Bloomfield Hills, MI USA
Email: wb8tif@sprynet.com or wb8tif@amsat.org
URL: http://home.sprynet.com/sprynet/wb8tif

---

807. Re: [APRSSIG:2274] Re: Slidel, LA

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 21 Jun 1996 23:33:42 -0500
To: aprssig@tapr.org
Message-ID: <9606220433.AA13607@ELWOOD.pionet.net>
Rendered body type: text/plain

At 11:10 PM 6/21/96 -0500, you wrote:

>No that can't be right the coordinates for SLIDEL is 30,16.861N 90,46.660W
>and at 64 miles or even 32 should include New Orleans. I have a smaller 8 mile
>map of that and it shows a lot of roads, water etc. Something wrong here. The
>map you send had only a couple of roads in it Hi. Try New Orleans it's
>coordinate is 30,3.950N 89,55.881W and see what you get. STRANGE are you
>getting this from a CD or from USGS internet files?.
>--
>Bill KE4EER
>ke4eer@worldnet.att.net
>ke4eer@amsat.org

The coordinates you are giving in this message are different (90,46.66 vs
89,46.66). I'll rerun it right away.

Dave

---

808. Re: [APRSSIG:2272] control of remote TNC ?

From: KD4EMI@aol.com
Date: Sat, 22 Jun 1996 00:35:16 -0400
To: aprssig@tapr.org
Message-ID: <960622003515_335894222@emout16.mail.aol.com>
Rendered body type: text/plain

>What are the options for control of a remote wide digi.? Do some
>tnc`s come with this ability? I know some have remote sysop for mail
>only. What type eprom burn is best for control, ie xmit on off,
>unproto change, mycall, myalias, etc. What works for you ?
>Thanks
>
>cdavidso@neocomm.net

The KPC 3 allows a remote sysop access to all of the KPC 3 commands. You can
change callsigns, txdelay, anything you want. Look for version 6 and above
for GPS capability though. I freqently play with these options with the local
machine..

The AEA unit will xmit it's location with the proper query text. Im not sure
about it's remote capability.
Im curious, has anyone used the MFJ unit that is supposed to be GPS
compatable yet. I remember one guy mentioned that they didnt work with GPS'S
at all...

The basic stamp that I have, which is now on the local WIDE-DIGI is set up to
respond to DTMF tones. With the right password, you can change poweroutput,
freq, channel. If I put another stamp on it I could have it respond to APRS
query... I decided that with the hurricane season here, it was better to be

able to adjust freq, etc than to respond to queries.

The more I play with the stamps the more I realize its time to leave them behind. They are neat, but the real power is in programming real computers. Seems like I need more and more power and only a real computer is adaquate. Thats where my efforts have taken me.

Mike
KD4EMI@AOL.COM

---

809. Re: [APRSSIG:2271] Re: Slidel, LA

From: ku0g@sprynet.com
Date: Fri, 21 Jun 1996 22:00:43 -0700
To: aprssig@tapr.org
Message-ID: <199606220500.WAA16784@m1.sprynet.com>
Rendered body type: text/plain

No problem from me, I'm going to take a look at the files and see if I can work with them for my own edification!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

810. Re: [APRSSIG:2272] control of remote TNC ?

From: ku0g@sprynet.com
Date: Fri, 21 Jun 1996 22:03:18 -0700
To: aprssig@tapr.org
Message-ID: <199606220503.WAA17198@m1.sprynet.com>
Rendered body type: text/plain

The Kantronics KPC-3 offers FULL remote sysop control! You can give the TNC any legitimate command that you can just as though you were physically connected to the TNC with your terminal program!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

811. Re: [APRSSIG:2277] Re: control of remote TNC ?Frequencies..

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 22 Jun 1996 02:07:49 -0400
To: aprssig@tapr.org
Message-ID: <199606220607.CAA10082@grumpy.magg.net>
Rendered body type: text/plain

KD4EMI wrote:
>The basic stamp that I have, which is now on the local WIDE-DIGI is set up to
>respond to DTMF tones. With the right password, you can change poweroutput,
>freq, channel. If I put another stamp on it I could have it respond to APRS
>query... I decided that with the hurricane season here, it was better to be
>able to adjust freq, etc than to respond to queries.
>

>Mike
>KD4EMI@AOL.COM

It is interesting to be able to adjust frequencies but with the correct radio it is all buit in, power level frequency and split can all be done if nee be, still interesting to do on your own instead of via an "appliance". The only thing that I wonder is the part about changing frequencies is better due to hurricane season, why is this ? If one digi goes down (changes frequency) then whatever network there is and that people have learned to work with is HISTORY>>>>

If the digi is there on the premise that it is for APRS then it should stay on whatever frequency has been designated for APRS if not all the work that others have put in and the system they may need to rely on is gone.

Think of the problems that we had on 10.151 LSB a few months back. A few people are off frequency and others follow them, well if 2-3 people follow another handful of users that are off frequency soon the network is gone. One bunch is following the other while the other bunch is going the other way. Before you know it everyone is bouncing back and fourth trying to "round up" everyone else and in the meantime most of the communications links have been lost. I know what some will say, well it is necessary to be able to change in case someone else needs the services or if another digi is gone and we need to move off to where there is a digi that can fill the gap. Yes it can be a problem but a) if the digi is intended for APRS it should be, many other groups are depending on "that digi" (fill in the blank) that we have been using for months or years now. b) if another wide goes down we should do everything possible to get up a backup digi as soon as we can. We should be training for problems like this during field day. If a station goes down put it right back up with stored or borrowed equipment.

Another thing is if anyone is expecting the remaining digi sites that are on the air to allow APRS signals to come thru while they are sending 1000's of K's of data after a storm they will be surprised. We do not allow BBS's, forwarding, etc. etc. on WIDE digi's why should we expect them to let us use their already maxed out system for us to use? I do not blame them, they will have enough problems with the overload from other frequencies that have lost their sites.
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96

812. MFJ-TNC w/GPS comapt. info. (was: control of remote TNC)

From: Joe DeVille <jwdstu@westga.edu>
Date: Sat, 22 Jun 1996 04:18:47 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960622081847.0067c0fc@160.10.4.2>
Rendered body type: text/plain

At 11:49 PM 6/21/96 -0500, you wrote:
---snip---
>Im curious, has anyone used the MFJ unit that is supposed to be GPS
>compatable yet. I remember one guy mentioned that they didnt work with GPS'S
>at all...
---snip---
>Mike
>KD4EMI@AOL.COM

The new firmware (v1.2.9 for 1270, 1274's, and v3.7 for 1278) does support GPS. It works sort of like the Kantronics, but not as detailed:

It will scan the serial port for up to two sentences as specified in the NMEAFLT1 and NMEAFLT2 paramaters, and TX the latest received sentence at the rate specified in the NMEABCN n command where "n" is the periodicity for the GPS packet in tens of seconds. Also, when NMEABCN is not zero, it will power up in GPS mode.

That's basically it.

```
------------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

813. email overload...

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 22 Jun 96 07:16:09 -0400
To: <aprssig@tapr.org>
Message-ID: <199606221113.HAA14930@bridge.net>
Rendered body type: text/plain

When someone asks for help, email them directly, rather than posting an answer to the sig. The person will get it faster (don't have to wait for mailing list to resend it, and everyone won't have to get 20 different messages saying 'use three control-c's'.

Radical idea, but it just might work...

Steve KO4HD

814. Re: [APRSSIG:2251] APRS and SAREX

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 22 Jun 96 07:20:03 -0400
To: <aprssig@tapr.org>
Message-ID: <199606221117.HAA15110@bridge.net>
Rendered body type: text/plain

```
>Just got word that SAREX is not scheduled to be unpacked until
>1734 EDT today (fri) so we will not see SAREX here on the east coast
>probably until Saturday morning (first pass about 0920 EDT)...
>
Oh darn. I gues that means my voice QSO at 1715 doesn't count ;-)

Steve KO4HD
```

815. Re: [APRSSIG:2267] STS-78

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 22 Jun 1996 07:35:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606221235.HAA12031@solar.cs.tamu.edu>
Rendered body type: text/plain

```
I am now posting STS-78 elements from 2 sources.  I will continue for the
duration of the mission.  The ones from Gil Carman are specifically SAREX
elements, and Gil, WA5NOM, checks 'em for accuracy, AND for need of issue,
prior to shipping them. (Gil does Guidance at NASA/JSC as well as SAREX)

gerry
```

816. Re: email overload...

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sat, 22 Jun 1996 08:03:34 -0500
To: aprssig@tapr.org
Message-ID: <9606220803.AA34396@oscar.telalink.net>
Rendered body type: text/plain

```
> When someone asks for help, email them directly, rather than posting
> an answer to the sig. The person will get it faster (don't have to
> wait for mailing list to resend it, and everyone won't have to
> get 20 different messages saying 'use three control-c's'.
>
> Radical idea, but it just might work...
>
> Steve KO4HD


Yes, you have a good point, however there are enough people on this list that
there may be several people that may need/want the information and have not
yet posted their question. Also while I think everybody that answered had the
same solution, it was answered in defferent ways so that different levels of
understanding might be successful. I think overall it depends on the request
for help, how general the question or answer is. If it is a relativly unique
situation then e-mail is most appropriate.

Another answer is for the person posing the question to post a summary of the
answers recieved into one message posted to the list. This would be a great
standard practice for the list and should satisfy most everybody.

73,

Bruce


--
***********************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net           *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                           *
* Hermitage TN  37076-2650                                            *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W           *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W              *
* URL:  http://www.telalink.net/~martinbw/home.html                   *
*        ftp://ftp.telalink.net/users/m/martinbw/ftp/incoming/        *
*    I have a 486DX33 to play games and run some HAM programs,        *
*        when I want to do serious work I use a Macintosh.      0-    *
***********************************************************************
```

817. Tapr postings

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sat, 22 Jun 1996 08:38:34 -0700
To: aprssig@tapr.org
Message-ID: <31CC137A.39B4@worldnet.att.net>
Rendered body type: text/plain

```
Why don't some of those people that upload files to tapr include a
description text file. How the heck is anyone suppose to know what the
```

```
following files are. I know i'm going to get some smart Xss remarks, but
i bet that most of you don't know what these are. Gosh guys it only takes
another 5 seconds to upload a description.

MADTRAN.EXE
PRECEDUS.EXE
LOGSAT51.EXE (This one speaks for itself but still should have a
      description included)
VAVABCH.ZIP  (Now this is a real good one
VIWEST.ZIP
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

818. Re: STS-78 Rev 31 Orbital Data

From: Paul Gilmore <pgilmore@beachnet.org>
Date: Sat, 22 Jun 1996 10:40:34 -0400
To: aprssig@tapr.org
Message-ID: <31CC05E1.2225@beachnet.org>
Rendered body type: text/plain

```
>         S T S - 7 8   O R B I T A L   D A T A
>
> Below is the rev 19 State Vector and Keplerian Elements for STS-78.
> The vector data comes from NASA; the orbital parameters were computed
> from the vector.  Hourly vector updates are available from NASA GSFC
> OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
> (UserID = oig / Password = goddard1).
>
> Vector format = 117
> Satellite Name:         STS-78
> Catalog Number:         23931  96036A
> Epoch Date/Time:        96174.50009953704
>                         06/22/1996  12:00:08.600 UTC
> EFG E:                           16974688 ft
>     F:                             484675 ft
>     G:                           13690587 ft
>     Edot:                          233.92 ft/s
>     Fdot:                        24139.93 ft/s
>     Gdot:                        -1134.47 ft/s
> ndot/2 (drag):              0.00013452543 rev/day^2
> nddt/6:                       7.54092E-10 rev/day^3
> Bstar:                        2.36818E-05 1/Earth Radii
> Elset #:                                9
> Rev @ Epoch:               31.26126495081
>
> Launch was 20-JUN-96 / 14:49:00.093
>
> The following Keplerian elements were computed by VEC2TLE from this
> vector using a 0.25 drag multiplier:
>
> STS-78
> 1 23931U 96036A   96174.50009954  .00013453  75409-9  23682-4 0    98
> 2 23931  39.0142 357.3736 0007920 286.6909 167.3644 16.00869774   314
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96174.50009954
> Element set:       9
> Inclination:       39.0142 deg
> RA of node:       357.3736 deg
> Eccentricity:    0.0007920
> Arg of perigee:   286.6909 deg
> Mean anomaly:     167.3644 deg
> Mean motion:   16.00869774 rev/day
> Decay rate:    1.34525e-04 rev/day^2
> Epoch rev:              31
> Checksum:              323
>
> VEC2TLE may be downloaded from:
> ftp.amsat.org /amsat/software/PC/util
>

 Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
 AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
 EMAIL  pgilmore@beachnet.org
```

819. RE:remote control

From: KD4EMI@aol.com
Date: Sat, 22 Jun 1996 10:42:53 -0400
To: aprssig@tapr.org
Message-ID: <960622104252_222739221@emout18.mail.aol.com>
Rendered body type: text/plain

```
RE: the ability to change freqs on the digi.

Yes it's true it was a judgement call on my part.

I felt that in case of emergency , that we needed the site to be able to
switch freqs, and since there is only 3 or 4 people with mobile capability in
South florida and since there is really no PLANS with how to use aprs during
a hurricane and since it is in a perfect spot to digi 9 schools to the eoc
(during the last storm I couldnt connect to the EOC from ELY elementary,
Thank goodness that N4BP had his site up.   AND since NO other digi in South
florida (that I know of) has remote capability (freq, pwr, etc)

I just thought it might be helpfull.  Your points were well taken though.
Perhaps the remote digi control (via DTMF) lends to confusion. It might be
better to remove it for this season until more sites have that ability or
just forget the whole idea.  Sorry I even announced it.

Mike
KD4EMI@AOL.COM
```

---

820. Interested ?

From: KD4EMI@aol.com
Date: Sat, 22 Jun 1996 10:43:51 -0400
To: aprssig@tapr.org
Message-ID: <960622104350_222739309@emout08.mail.aol.com>
Rendered body type: text/plain

```
Since we all use TNC'S here, Ive got an extra KAM that works
PERFECTLY !!!  IT has VERSION 5.0

The rig is in GREAT SHAPE  looks good works fine...

THE only thing is that it doesnt have a battery backup. It would not be good
for mobile ops.  Once you power down, you have to re-initialize everything.
It wont perm the settings cause I only switched the ROMS for the version and
didnt upgrade the eePROM.  If you need a perfect rig for the house , that you
dont mind leaving on (or just re-initializing) when you power down let me
know...the price is right.   If you spend 10 bucks and buy the upgrade eeprom
it would perm fine..  I need some other stuff and want to sell it...

$120.00 Shipped.
Please EMAIL me personally and not to the sig...
or contact me at 954-974-4153
MIke
KD4EMI@AOL.COM
```

---

821. Re: [APRSSIG:2282] email overload...

From: rbost@itexas.net (Roy Bost)
Date: Sat, 22 Jun 1996 09:58:45 -0400
To: aprssig@tapr.org
Message-ID: <31CBFC15.452@itexas.net>
Rendered body type: text/plain

```
I thought that this was what the SIG was for!  I realize I got
much duplication  of responces but a HAM in the ares is having the same
problem with his KPC-3 and got possible solutions from the responses to
my inquiry.
        Everyone seems to have missed the last sentence of my
indquiry.....once into the GPS Mode I CANNOT reconnect to the KPC-3 with
any of my packet programs!  I user Hostmaster II+ to set up the KPC-3
but Hostermaster now tells me I have no TNC connected to the comkputer.
PackTerm and PacketPet also respond the same way.
        If i ever get back into the KPC-3 I'll try the speed hints with
the control <c>'s!

Thanks Guys!!!!

Roy Bost N5TAM
rbost@itexas.net
```

---

822. ITAMSAT IO-26 1000 days in orbit (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 22 Jun 1996 13:07:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960622130352.29350E-100000@arctic>
Rendered body type: text/plain

```
Following msg pulled of the amsat-bb...
After its return to service earlier this month, Command Station in
Milan, Italy, are still evaluating its status before returning the
satellite to full service....  Everything on board behaves normally, the
downlink frequency used is 435.822 MHz, on the TXB transmitter.

Digipeating is usually turned on, except when the satellite is being
commanded from the Command Station in Milan, Italy.

APRS comment:
A.hemm...  Does this look like an invitaiton to some APRS posits?
```

---

823. Re: [APRSSIG:2286] Tapr postings

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 22 Jun 1996 13:28:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960622132629.29350I-100000@arctic>
Rendered body type: text/plain

```
On Sat, 22 Jun 1996, William Nolle wrote:

> Why don't some of those people that upload files to tapr include a
> description text file....
>
> VAVABCH.ZIP  (Now this is a real good one
> VIWEST.ZIP

APRSdos REPLY COMMENT:  Guilty. These 2 are mine. VIrginia Beach and West
Wisconsin

de wb4apr@amsat.org
```

---

824. APRS Sarex score card

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 22 Jun 1996 13:41:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960622133431.29350J-100000@arctic>
Rendered body type: text/plain

```
Following is the log I have monitored on the east coast and Internet

PASS EDT  ZULU  COMMENTS
--------  ----- -------------
21 1715   2115z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22 0915   1315z nothing
22 1050   1450z nothing
22 1224   1624z nothing
22 1400   1800z


APRSdos REPLY COMMENT: Still hoping for the SAREX packet digipeater!

de wb4apr@amsat.org
```

---

825. Re: [APRSSIG:2288] RE:remote control

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 22 Jun 1996 14:03:33 -0400
To: aprssig@tapr.org
Message-ID: <199606221803.OAA28846@grumpy.magg.net>
Rendered body type: text/plain

```
>RE: the ability to change freqs on the digi.
>
>Yes it's true it was a judgement call on my part.

>I just thought it might be helpfull.  Your points were well taken though.
>Perhaps the remote digi control (via DTMF) lends to confusion. It might be
>better to remove it for this season until more sites have that ability or
>just forget the whole idea.  Sorry I even announced it.
>
>Mike
>KD4EMI@AOL.COM
```

```
>

Don't be sorry, I think it is a great idea for other applications. Take
users in a condo that cannot have a antenna. If a buddy within range is
willing to "store" some equipment for them at their home this is a way that
someone with a HT can have a good signal into the local networkS. Or even
someone with access to a good site, some people a lucky, they can set up a
personal remote base and control it from home.

If someone does not have a DTMF capeable rig but can get a stamp wired up
that would be great idea.
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96
```

---

826. Curious about call

From: Larry Miller <lmiller@ezl.com>
Date: Sat, 22 Jun 1996 15:12:42 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960622201242.00675034@www.ezl.com>
Rendered body type: text/plain

```
I have been wondering about a call we see in the St Louis area coming in on
the HF side. The call shows up as KN96HH.  Bulletin text from that station
shows a web page at:

        www.avana.net/pages/personal/kn4hh

Is anybody else seeing the KN96HH call?
Larry
* * * * * * *
E-Mail
  Personal:  lmiller@ezl.com
  Business:  lmiller@email.usps.gov
  Ham Radio: n9lbg@kd9sg.#sil.il
```

---

827. APRS and APRtrak

From: w5nfc@amsat.org (George D. "Zeke" Harvey)
Date: Sat, 22 Jun 1996 20:27:15 +0000
To: aprssig@tapr.org, Bob Bruninga <bruninga@nadn.navy.mil>,
 amsat-bb@amsat.org
Message-ID: <199606222027.PAA15413@mrzip.cc.utexas.edu>
Rendered body type: text/plain

```
I recently changed computers from a 386-25 to a Pentium 150.

I am running Win APRS on the new machine with no problem under Win-95.

With the launch of the latest shuttle I wanted to use APRtrak running under DOS
the same as before on the old machine.  After moving everything in the APRtrak
directory, including all sub-directorys, I find that the program is unable
to communicate with my TNC on Com-1.  The TNC is a DSP-12.

I have also moved all the files and directories associated with APRS75 and tried
to run it with the same results.  I am able to load everything including my
registration number, 19934, and everything comes up but am still not able to
communicate with the TNC.


After seeing your reference to beta version, APRS76E, I down loaded it and put
it into the APRS directory and when I execute this version and enter my call
etc. it comes up and says cannot find MAPS and locks up there.  Pressing the
enter key at this time sends me back to the DOS prompt.

Any suggestions would be appreciated.

73,

George D. "Zeke" Harvey - W5NFC - Austin, TX

w5nfc@amsat.org
```

---

828. Re: [APRSSIG:2295] Curious about call

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Sat, 22 Jun 1996 16:29:58 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606222129.QAA00706@crasher2.ttgcitn.com>

Rendered body type: text/plain

At 03:21 PM 6/22/96 -0500, Larry Miller wrote:

>I have been wondering about a call we see in the St Louis area coming in on
>the HF side. The call shows up as KN96HH. Bulletin text from that station
>shows a web page at:
>
>   www.avana.net/pages/personal/kn4hh
>
>Is anybody else seeing the KN96HH call?

I'm willing to bet it's a typo for KN4HH ;-)

The WWW page looks like it's in Fayette County, Georgia. They have links to
APRS stuff off of the page, too -- not bad ;-) -rt

```
--
#!/bin/sh
# Ryan Tucker <rtucker@ttgcitn.com>
# President, TTGCITN Communications
lynx http://www.ttgcitn.com
```

829. Re: [APRSSIG:2282] email overload...

From: schiers@ames.net
Date: Sat, 22 Jun 96 10:21:40 -0500
To: aprssig@tapr.org
Message-ID: <199606222131.QAA24089@tapr.org>
Rendered body type: text/plain

In <717503@bbs.ames.net>, on 06/22/96 at 07:30 AM,
   aprssig@tapr.org said:

>When someone asks for help, email them directly, rather than posting an
>answer to the sig.

A good deal of the value of the listserver disappears if this approach is
adopted. It is the ANSWERS to other peoples questions that cause me to
continue to read the list. Yes, every once in a while a question is so
specific and so easy to answer that we get ten responses, but that is what
a delete key is for. Again, let's not throw out the baby with the bath
water.

Public questions and private answers will severely limit the utility of
any listserver and I would encourage discretion in adopting Steve's
approach.

Ask yourself the question:

Will my answer inform an interest of "quite a few" people or just this
"one" person. If the former, then I would send it to the list, if the
latter, send it private. It ain't rocket science to determine what the
level of interest might be, e.g.,

Popular GPS receivers...high.
A surplus military gps from Fair Radio at 399 bucks....very low. TNC
related questions....high. (but may generate 20 replies if obvious) APRS
software questions...very high

All of the above, obviously, as they relate to APRS.

and...with my opinion and a quarter, you can still get a cup of coffee.

73,

hasan schiers, N0AN
```
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

830. Re: [APRSSIG:2295] Curious about call

From: w2g3zfj@unix.asb.com (bob)
Date: Sat, 22 Jun 1996 17:55:04 -0400
To: aprssig@tapr.org
Message-ID: <199606222208.SAA25052@unix.asb.com>
Rendered body type: text/plain

Yep

Its always on my system (69 packets, 3 messages today). I presumed he'd

```
entered his call wrong?

bob
w2g3zfj@unix.asb.com


>I have been wondering about a call we see in the St Louis area coming in on
>the HF side. The call shows up as KN96HH.  Bulletin text from that station
>shows a web page at:
>
>        www.avana.net/pages/personal/kn4hh
>
>Is anybody else seeing the KN96HH call?
>Larry
>* * * * * * *
>E-Mail
>  Personal:  lmiller@ezl.com
>  Business:  lmiller@email.usps.gov
>  Ham Radio: n9lbg@kd9sg.#sil.il
>
>
>
```

---

831. Re: [APRSSIG:2297] Re: Curious about call

From: Daniel Velez <dvelez@infi.net>
Date: Sat, 22 Jun 1996 18:50:24 -0400
To: aprssig@tapr.org
Message-ID: <31CC78B0.2242@infi.net>
Rendered body type: text/plain

```
Ryan Tucker wrote:
>
> At 03:21 PM 6/22/96 -0500, Larry Miller wrote:
> >I have been wondering about a call we see in the St Louis area coming in on
> >the HF side. The call shows up as KN96HH.  Bulletin text from that station
> >shows a web page at:
> >
> >        www.avana.net/pages/personal/kn4hh
> >
> >Is anybody else seeing the KN96HH call?
>
> I'm willing to bet it's a typo for KN4HH ;-)
>
> The WWW page looks like it's in Fayette County, Georgia.  They have links to
> APRS stuff off of the page, too -- not bad ;-)  -rt
>
> --
> #!/bin/sh
> # Ryan Tucker <rtucker@ttgcitn.com>
> # President, TTGCITN Communications
> lynx http://www.ttgcitn.com

Actually, isn't it the special Olympics call authorized by the FCC for
Atlanta area amateurs?

Dan
--
|||||||||||||||||||||||||||||||||||||
Daniel Velez            Aoooga!
dvelez@infi.net            Aoooga!
N4WZR@WD4MIZ.VA              Aoooga!
|||||||||||||||||||||||||||||||||||||
```

---

832. Re: [APRSSIG:2295] Curious about call

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 22 Jun 1996 19:42:40 -0400
To: aprssig@tapr.org
Message-ID: <199606222342.TAA07537@grumpy.magg.net>
Rendered body type: text/plain

```
That is a special FCC "bone" sent out for GA stations. THey can use the KN96
prefix due to the Olympic games.

Don't know who it is either, I have sent that station 2 messages on 30M
about his signal. Got some terrible RF in his/her audio. I did manage to get
a ACK back today. RF was not as bad but ACK's are difficult due to the
distortion. If anyone knows this person please let them know, it is probably
a simple job to clean it up, many of us have had it on occasion.
```

```
>I have been wondering about a call we see in the St Louis area coming in on
>the HF side. The call shows up as KN96HH.  Bulletin text from that station
>shows a web page at:
>
>        www.avana.net/pages/personal/kn4hh
>
>Is anybody else seeing the KN96HH call?
>Larry
>* * * * * * *
>E-Mail
>  Personal:  lmiller@ezl.com
>  Business:  lmiller@email.usps.gov
>  Ham Radio: n9lbg@kd9sg.#sil.il
>
>
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96
```

---

833. Re: [APRSSIG:2282] email overload...

From: rwf <rwf@mindspring.com>
Date: Sat, 22 Jun 1996 19:55:01 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960622235501.0098d890@mindspring.com>
Rendered body type: text/plain

```
OR:

Don't send your reply until you have read ALL the messages and seen the 27
other people who replied before you.  Of course, you could be reading off
line, or not have received some of the replies remailed to you- but most of
the time I am glad I did not xmit the reply messages immediately.  Plus I
can recheck that I have not addressed a personal message back to the SIG.

****  PLEASE, can someone (Keith?  Greg?)  make the remailer NOT fill in the
SIG address for the replies automatically?  ****




At 06:35 AM 6/22/96 -0500, you wrote:
>When someone asks for help, email them directly, rather than posting an
>answer to the sig. The person will get it faster (don't have to wait for
>mailing list to resend it, and everyone won't have to get 20 different
>messages saying 'use three control-c's'.
>
>Radical idea, but it just might work...
>
>Steve KO4HD
>
>
```

---

834. Re: [APRSSIG:2295] Curious about call

From: rwf <rwf@mindspring.com>
Date: Sat, 22 Jun 1996 19:55:02 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960622235502.0099f07c@mindspring.com>
Rendered body type: text/plain

```
You guys must not keep up with the latest bulletins.
It is a special form of callsign that people in GA can use to commerate the
Ol*mpics.
I don't yet know if we have to give ACOG the million bucks every time we use
it.  Mine would be N96NEQ instead of N4NEQ (in case I wanted to waste the
time to change it).  Most of the people who try them on voice here get
quickly laughed into changing it back.

I think you can use  N900LBG for yours.  Oh Boy!!




At 03:21 PM 6/22/96 -0500, you wrote:
>I have been wondering about a call we see in the St Louis area coming in on
>the HF side. The call shows up as KN96HH
```

```
                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
```

---

835. Response to STS=78 KEPS quarry

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Sat, 22 Jun 1996 23:20:54 GMT
To: aprssig@tapr.org
Message-ID: <199606222320.XAA07965@mailhost.worldnet.att.net>
Rendered body type: text/plain

```
I posted my original quarry at about 8 AM.  By 4:30 that afternoon there were
a great many responses and the surprising thing was there was only one duplicate
site.

The following is what I received:

            WEB SITES FOR KEPS!

http://tbcnet.com/~jleonard/leonard.htm

ftp://archive.afit.af.mil/pub/space/tle.new

http://www.grove.net/~tkelso/

http://www.amsat.org/amsat/sarex/orbit.html

ftp://tbcnet.com/pub/jleonard

ftp://ftp.amsat.org/amsat/keps/sarex/STS-AMS.TXT

ftp://archive.afit.af.mil/pub/space/tle.new

http://tbcnet.com/~jleonard/leonard.htm

http://shuttle.nasa.gov/sts-78/orbit/orbiter/sighting/shuttle.html

DEMO

http://shuttle.nasa.gov/sts-78/demos


Thanks to all for the replys and I'm sure there were others
that found the information usefull.

Bud (WB4LTF)
```

---

836. Re: [APRSSIG:2295] Curious about call

From: ku0g@sprynet.com
Date: Sat, 22 Jun 1996 17:32:42 -0700
To: aprssig@tapr.org
Message-ID: <199606230032.RAA14134@m1.sprynet.com>
Rendered body type: text/plain

```
That would most likely be an Olympic Callsign....
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

837. Re: [APRSSIG:2125] Re: JAVA APRS

From: Chris & Kathleen <wb8ypo@harborside.com>
Date: Sat, 22 Jun 1996 20:37:56 -0700
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606230337.UAA15657@harborside.com>
Rendered body type: text/plain

```
At 05:57 PM 6/18/96 -0500, David E. Barrett wrote:
>
>       I find this Java topic to be highly stimulating, and it never ceases to
amaze me how imaginative
>the people on this sig are. Either everyone here has overly active thought
process' or to much idle time
```

>on their hands. So let me see if I can add to all those synapse flying
around those unreal net's.
>   Have you heard about ActiveX? I know how everyone loves Microsoft and they
way they get into
>everything. ActiveX is MS's answer to Java and with the Beta of Internet
Explorer 3.0 available it look's as
>if Netscape has some stiff competition. I've encoded some snippet's about
ActiveX from a review I found
>on C/Net.
>
>ActiveX works as a kind of framework that runs small programs and can
control the way you interact with the computer. This architecture permits
Web pages and the browser itself to be highly customizable. These new
objects are small, since they don't require a traditional browser to run,
and nimble, so you'll see better overall performance when using your browser.
>
>Over time, more software applications will take advantage of ActiveX.
That's because ActiveX components are available to the entire operating
system, so you'll see more programs become Internet-savvy over the coming
months. Software developers can write one set of code for productivity
software--and easily snap in Internet features. Internet Explorer 3.0's
ActiveX core allows the browser to become a highly customizable and
programmable interface for the Internet, intranets, multimedia titles, and
your own work. Here are the parts of ActiveX you need to know about.
>
>ActiveX Controls: These are small programs embedded in Web pages, and they
can control other programs on your computer. The ActiveX version of OLE
controls are stripped down and more lightweight than previous incarnations
of Microsoft's OLE technologies.
>
>ActiveX Scripting: Scripting supports both JavaScript and VBScript (Virtual
Basic). Scripting is like programming, but scripts are included within HTML
pages to perform simple tasks and to link ActiveX Controls, Java apples, and
other components. <Picture: click here>
>
>ActiveX Documents: These documents are from applications such as Word or
Excel but can be viewed or edited from within the browser. With some
programming, any software vendor can turn their files into ActiveX Documents.
>
>Attachment Converted: C:\SALMON\EUDORA\APRSSIG6
>
May I ask why you send attachment that I for one can not CONVERT TO AND
FILL MY HARD DRIVE!!!!!!!!!

73 Chris wb8ypo@harborside.com

---

838. Re: [APRSSIG:2295] Curious about call

From: Joe DeVille <jwdstu@westga.edu>
Date: Sun, 23 Jun 1996 00:10:10 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960623041010.0067b298@160.10.4.2>
Rendered body type: text/plain

At 03:22 PM 6/22/96 -0500, you wrote:
>I have been wondering about a call we see in the St Louis area coming in on
>the HF side. The call shows up as KN96HH. Bulletin text from that station
>shows a web page at:
>
>   www.avana.net/pages/personal/kn4hh
>
>Is anybody else seeing the KN96HH call?
>Larry

Sorry if this is off topic, but I wanted to clear all this up...

(reprinted from The ARRL Letter, April 12, 1996)
FCC OKAYS OLYMPIC CALL SIGNS FOR HAMS OPERATING IN GEORGIA

Hams operating within the state of Georgia may use special call signs from
April 15 until August 31, 1996, to commemorate the 1996 Olympics, under a
Special Temporary Authority issued by the FCC. Here's how it works: An
FCC-licensed radio amateur operating in Georgia with a "4" in his or her
call sign may replace that number with "96" (representing the year) or "26"
(commemorating the 26th Olympiad) during the period of the STA. Hams with
any number in their call signs and operating within the State of Georgia may
add "00" to the existing number (to mark the centennial year of the Olympic
Games). So, WA4BKD in Georgia could identify as WA96BKD, WA26BKD or
WA400BKD, while NG3K, when operating in Georgia, could identify only as
NG300K or as NG3K. The Olympics start in July. The STA stemmed from an

```
initiative by James Altman, N4UCK, of Atlanta and the Georgia Amateur Radio
Operators Group he organized, with the support of ARRL.
---------
------------------------------------------------------------------------------
Joe DeVille, KC4IWE            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
                   Amateur Packet Radio:  KC4IWE @ KA4YQI.#WGA.GA.USA.NA
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

839. Re: [APRSSIG:2302] Re: email overload...

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 23 Jun 1996 00:21:00 -0400
To: aprssig@tapr.org
Message-ID: <199606230421.AAA18083@grumpy.magg.net>
Rendered body type: text/plain

```
Ralph N4NEQ Says....

>****  PLEASE, can someone (Keith?  Greg?)  make the remailer NOT fill in the
>SIG address for the replies automatically?  ****

I say oh please, oh PLEASE! this would be VERY helpful. Saves on waisted
mail and embaressments.
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96
```

840. Re: [APRSSIG:2295] Curious about call

From: Gerald Green <k4ubr@ix.netcom.com>
Date: Sun, 23 Jun 1996 00:42:46 -0700
To: aprssig@tapr.org
Message-ID: <31CCF576.11B6@ix.netcom.com>
Rendered body type: text/plain

```
Larry Miller wrote:
>
> I have been wondering about a call we see in the St Louis area coming in on
> the HF side. The call shows up as KN96HH.  Bulletin text from that station
> shows a web page at:
>
>         www.avana.net/pages/personal/kn4hh
>
> Is anybody else seeing the KN96HH call?
> Larry
> * * * * * * *
> E-Mail
>   Personal:  lmiller@ezl.com
>   Business:  lmiller@email.usps.gov  Ham Radio: n9lbg@kd9sg.#sil.il
Hi Larry, I saw in QST and heard a bulletin that Olympic special
call stations in Atlanta, Ga (don't know if anyplace else) will
use XX96xx in their calls thruout the olympics. The article did
not mention any calls already in use but could be?
73 Jerry Green K4UBR
(PS) hope I aint got no attachments on this!
>>>>>
```

841. Garmin-20 GPS TAPR Web Page

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 23 Jun 1996 05:00:39 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199606231000.FAA22492@tapr.org>
Rendered body type: text/plain

```
I have attached several pictures of the GARMIN GPS-20 engine on the web
page.  Take a look if you haven't seen one yet.  http://www.tapr.org/gps

I think Dorothy at the office has about 30+ orders for the current batch.

Cheers - Greg
```

842. Re: [APRSSIG:2308] Re: email overload...

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sun, 23 Jun 1996 07:46:45 -0000
To: aprssig@tapr.org
Message-ID: <199606231147.GAA25203@tapr.org>

Rendered body type: text/plain

```
On 22 Jun 96 at 23:42, Richard Garcia wrote:

> Ralph N4NEQ Says....
>
> >****  PLEASE, can someone (Keith?  Greg?)  make the remailer NOT
> >fill in the SIG address for the replies automatically?  ****
>
> I say oh please, oh PLEASE! this would be VERY helpful. Saves on
> waisted mail and embaressments. 73's Rich N2CZF n2czf@magg.net
> Jupiter Farms Florida EL96
>


I like the format currently in use.. I use PEGASUS MAIL and I can
change the reply to address on my own.

I have only myself to blame for sending a private reply to the whole
sig.   Get control!   Use Pegasus Mail!



Sam Nabkey - WJ8T

Internet: snabkey@wingsbbs.com (http://205.243.16.75)
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
```

---

843. Re: [APRSSIG:2295] Curious about call

From: schiers@ames.net
Date: Sat, 22 Jun 96 16:33:19 -0500
To: aprssig@tapr.org
Message-ID: <199606231318.IAA27838@tapr.org>
Rendered body type: text/plain

```
In <717761@bbs.ames.net>, on 06/22/96 at 04:25 PM,
   aprssig@tapr.org said:

>I have been wondering about a call we see in the St Louis area coming in
>on the HF side. The call shows up as KN96HH.  Bulletin text from that
>station shows a web page at:

>        www.avana.net/pages/personal/kn4hh

>Is anybody else seeing the KN96HH call?
>Larry

yes...and I don't have a clue. 73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

844. STS-78 Rev 31 Orbital Data

From: Ken Ernandes <70511.3107@compuserve.com>
Date: 22 Jun 96 08:50:04 EDT
To: Shuttle Data List <ststle@spacelink.msfc.nasa.gov>,
        Spacelink News <slnews@spacelink.msfc.nasa.gov>,
        cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
        Mel Roman <ka2upd@amsat.org>, SAREX <sarex@amsat.org>,
        Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>
Message-ID: <960622125004_70511.3107_IHD56-1@CompuServe.COM>
Rendered body type: text/plain

```
S T S - 7 8   O R B I T A L   D A T A

Below is the rev 19 State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector.  Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96174.50009953704
                        06/22/1996  12:00:08.600 UTC
```

```
EFG E:                          16974688 ft
    F:                            484675 ft
    G:                          13690587 ft
    Edot:                         233.92 ft/s
    Fdot:                       24139.93 ft/s
    Gdot:                       -1134.47 ft/s
ndot/2 (drag):             0.00013452543 rev/day^2
nddt/6:                      7.54092E-10 rev/day^3
Bstar:                       2.36818E-05 1/Earth Radii
Elset #:                               9
Rev @ Epoch:              31.26126495081

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 0.25 drag multiplier:

STS-78
1 23931U 96036A   96174.50009954  .00013453  75409-9  23682-4 0    98
2 23931  39.0142 357.3736 0007920 286.6909 167.3644 16.00869774   314

Satellite: STS-78
Catalog number: 23931
Epoch time:      96174.50009954
Element set:       9
Inclination:       39.0142 deg
RA of node:       357.3736 deg
Eccentricity:    0.0007920
Arg of perigee:   286.6909 deg
Mean anomaly:     167.3644 deg
Mean motion:   16.00869774 rev/day
Decay rate:    1.34525e-04 rev/day^2
Epoch rev:              31
Checksum:              323

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org
```

---

845. Re: [APRSSIG:2291] ITAMSAT IO-26 1000 days in orbit (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 23 Jun 1996 08:25:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606231325.IAA18166@solar.cs.tamu.edu>
Rendered body type: text/plain

```
I suspect it depends on the load.  Once again, the satellites are a resource.
We have no more right using APRS to "grab" all the resource than, say, the DX
Clusters or the tcp/ip folks.  If it's busy with other packet traffic, I say,
let it lie.  If it's freed up, hit it.  But don't monopolize it.

gerry
```

---

846. STS-78 element set JSC-905 (22-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 23 Jun 1996 08:36:34 -0500 (CDT)
To: rburke@sat.net (Rory Burke), joejarre@netcom.com (Joe Jarrett),
        elendir@inf.enst.fr (Elendir),
        jmaynard@admin5.hsc.uth.tmc.edu (Jay Maynard),
        351.1297@mcimail.com (Fred Maia),
        morgan@sed.jsc.nasa.gov (Bill Morgan),
        WAYNE@kamugate.tamu.edu (Wayne Pecena),
        vis_pfg@unx1.shsu.edu (Paul Gilbert), john@hercules.xilinx.com (John),
        g-taylor4@tamu.edu (Greg Taylor),
        cakifer@lims02.lerc.nasa.gov (C.A. Kifer),
        515.0511@mcimail.com (Jeff Bauer), stevej@onramp.net (Steve Jones),
        cowdin@pogo.den.mmc.com (Dave Cowdin),
        cranston.reid@windmill.com (Cranston Reid),
        bkline@space.honeywell.com (Bob Kline),
        kusznir@owens.ridgecrest.ca.us (Jim Kusznir), aprssig@tapr.org
Message-ID: <199606231336.IAA18264@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Sat, 22 Jun 1996 18:38:07 -0500
> Subject: STS-78 element set JSC-905 (22-Jun-96)
>
>
```

```
>
> STS-78
> 1 23931U 96036A   96174.67091749  .00087705  00000-0  15228-3 0  9057
> 2 23931  39.0142 356.2256 0007682 286.0620  73.9512 16.00946493   341
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96174.67091749   =     yrday.fracday
> Element set:     905
> Inclination:       39.0142 deg
> RA of node:       356.2256 deg
> Eccentricity:     .0007682
> Arg of perigee:   286.0620 deg
> Mean anomaly:      73.9512 deg
> Mean motion:   16.00946493 rev/day
> Decay rate:    8.77052E-04 rev/day^2
> Epoch rev:             34
> Checksum:             325
>
>
> Gil Carman
>
>
>



--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

847. SAREX Keps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 23 Jun 1996 08:44:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606231344.IAA18350@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Just for the record, Gil Carman, WA5NOM, at NASA/JSC, is estimating the latest
Keps issue from him will be valid for up to 3 days.

For microgravity missions, it is common to seek a gravity gradient, free-drift
mode that minimizes use of attitude thrusters and other accelerations.  The
Orbiter is placed in an attitude that is inherently stable and subject to only
minimum amounts of drag.  So: If I don't post anything from Gil for a while,
don't panic, just keep working off the older Keps.  If you DO notice a real,
and large, variance between predicted and observed, let me know.  I will pass
it on and we can see if the anomoly is based on state vector changes, or
antenna occultation.  Which is the usual case...

73, gerry
n5jxs@tamu.edu
```

848. Re: [APRSSIG:2311] Re: email overload...

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 23 Jun 1996 08:55:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606231355.IAA18433@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Sam Nabkey, WJ8T sez:
>
> I like the format currently in use.. I use PEGASUS MAIL and I can
> change the reply to address on my own.
>
> I have only myself to blame for sending a private reply to the whole
> sig.   Get control!   Use Pegasus Mail!

And I still use a unix system and Elm.  I'd really appreciate the format
changing so that the Reply to: header points to the individual rather than the
group,  so that I can easily reply if is a question NOT likely to be of
general interest, or Group Reply if it is a question of more widespread
interest.

That you like one mailer over another is fine.  Please don't tell me I have to
conform to your preferences... life could get pretty boring without the
diversity.
```

gerry

---

849. Re: [APRSSIG:2311] Re: email overload...

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 23 Jun 1996 09:31:39 -0700
To: aprssig@tapr.org
Message-ID: <31CD716B.6A04@worldnet.att.net>
Rendered body type: text/plain

```
Sam Nabkey, WJ8T wrote:
>
> On 22 Jun 96 at 23:42, Richard Garcia wrote:
>
> > Ralph N4NEQ Says....
> >
> > >****  PLEASE, can someone (Keith?  Greg?)  make the remailer NOT
> > >fill in the SIG address for the replies automatically?  ****
> >
> > I say oh please, oh PLEASE! this would be VERY helpful. Saves on
> > waisted mail and embaressments. 73's Rich N2CZF n2czf@magg.net
> > Jupiter Farms Florida EL96
> >
>
> I like the format currently in use.. I use PEGASUS MAIL and I can
> change the reply to address on my own.
>
> I have only myself to blame for sending a private reply to the whole
> sig.   Get control!   Use Pegasus Mail!
>
> Sam Nabkey - WJ8T
>
> Internet: snabkey@wingsbbs.com (http://205.243.16.75)
> amprnet: wj8t@w8dc.ampr.org
> AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM

Here Here, I use Eudora and don't have any problems, If it ain't broke
don't fix it.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

850. PA maps again

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 23 Jun 1996 16:41:38 -0400 (EDT)
To: aprssig@tapr.org
Cc: winel@pa.net
Message-ID: <Pine.SUN.3.91.960623163752.6869A-100000@arctic>
Rendered body type: text/plain

```
OK, I had more time to clean up the PA maps, and tie in the detail maps
into a good overall system in the area of NW Harrisburg area.  This is
all posted in PAmaps04.zip.  Its in the tapr/SIG/aprssig/files/upload
directory on the tapr.org FTP site.  When u unzip this file into your
APRS directory, be sure to use the standard PKUNZIP -d.  And in APRS,
select the PA maps with the MAPS-CHANGE-PA command.

The PAmaps03.zip I left off the commas in the MAPLIST, so it was pretty
well hosed...

de wb4apr@amsat.org
```

---

851. Re: [APRSSIG:2295] Curious about call

From: KE6VRL@aol.com
Date: Sun, 23 Jun 1996 18:02:14 -0400
To: aprssig@tapr.org
Message-ID: <960623180213_141182626@emout19.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-06-22 16:54:37 EDT, you write:

<< I have been wondering about a call we see in the St Louis area coming in
on
 the HF side. The call shows up as KN96HH.  >>


I have not seen that call in 6-land, but it is an Olympic call. :)   Hope
that answers your question!
```

```
73 from Hector KE6VRL@aol.com
```

---

852. FL APRS Web Site Updated

```
From: n2czf@magg.net (Richard Garcia)
Date: Sun, 23 Jun 1996 20:01:57 -0400
To: aprssig@tapr.org
Message-ID: <199606240001.UAA18906@grumpy.magg.net>
Rendered body type: text/plain
```

```
Well after 1 week the web site is finally taking shape. I have added quite a
few links, a page counter, and a new look to it. Thanks to everyone who
forwarded requests! It has been quite an expirience to learn HTML in such a
short time but a LOT of fun 4am mornings!

I plan to add some mapping functions (html that is) for links to various FTP
servers which have the most recent editions of APRS or APRS related
software, and a seperate GPS .html page so everyone can go to where they
need to without paging thru other material. Changes are being made
constantly, ask my wife! and stay tuned for some pictures on the site. I
hope to get a flatbed scanner in 1-2 months (knowing me less).

http://www.magg.net/~n2czf/aprs.html    (APRS)
http://www.magg.net/~n2czf                      (Personal)
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96
```

---

853. Re: [APRSSIG:2317] Re: email overload...

```
From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sun, 23 Jun 1996 18:38:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960623183445.665A-100000@draco.bison.mb.ca>
Rendered body type: text/plain
```

```
On Sun, 23 Jun 1996, Gerald J Creager wrote:
>
> And I still use a unix system and Elm.  I'd really appreciate the format
>
Gerry et. al.,
I use PINE here on a linux system. When responding to a message, I am
asked whether or not I wish to use the Reply To: header instead of the
From: header and whether I wish to reply to all recipients or not. You
might want to give that a try if it is available on your system.

73
Michael
--
Michael Markmann VE4MJM               |
ve4mjm@draco.bison.mb.ca (Internet)   |     ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)   |         Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

854. Re: [APRSSIG:2298] Re: email overload...

```
From: dkaszubski@why.net (dkaszubski)
Date: Sun, 23 Jun 1996 19:46:00 -0700
To: aprssig@tapr.org
Message-ID: <31CE0168.2893@why.net>
Rendered body type: text/plain
```

```
schiers@ames.net wrote:
>
> In <717503@bbs.ames.net>, on 06/22/96 at 07:30 AM,
>    aprssig@tapr.org said:
>
> >When someone asks for help, email them directly, rather than posting an
> >answer to the sig.
>
>    <chop>
> Public questions and private answers will severely limit the  utility of
> any listserver and I would encourage discretion in adopting Steve's
> approach.
>    <chop>

Actually, Since I am 'the other ham' in N5TAM's area, I was really looking forward
to an answer posted on the sig, plus to see if we are having a unique problem.
Once the KPC-3 is put into GPS mode, I have a difficult time getting it back
out to terminal mode.  My problem is just slightly different from Roy's in that
my terminal software, PROCOMM, does recognize the TNC but cannot convince it to
```

switch out of GPS mode. The responses on the sig to date led me to try different rates of entry, long pauses, no pauses, etc... but the thing STILL won't switch back! The other responses that suggested remote access are very welcome as I hadn't thought of that before, but the bottom line remains 'Is there ANOTHER way to get a KPC-3 out of GPS mode?' E-Mail to Kantronics has failed to elicit a response.

So, don't berate the many responders to seemingly simple questions. Not all of us are at the same level of APRS knowhow as you.

>
> and...with my opinion and a quarter, you can still get a cup of coffee.
>
> 73,
>
> hasan schiers, N0AN
> ---
> schiers@ames.net
> ---

--
Dave Kaszubski WB3FYV
also: ustuia6v@ibmmail.com
Benbrook, Texas
N 32 40.319' W 097 26.844'

President of the Texas Utilities Amateur Radio Club, Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...

855. Re: TNC out of GPS mode...

From: ku0g@sprynet.com
Date: Sun, 23 Jun 1996 19:38:04 -0700
To: aprssig@tapr.org
Message-ID: <199606240238.TAA21962@m1.sprynet.com>
Rendered body type: text/plain

Just for the record, I'm using the HyperTerminal program that comes with Win95. It usually takes several tries of shutting the TNC off and doing the CTRL-C 3X sequence to get out of GPS mode, but persistence DOES pay off!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

856. Re: [APRSSIG:2321] FL APRS Web Site Updated

From: ku0g@sprynet.com
Date: Sun, 23 Jun 1996 19:43:50 -0700
To: aprssig@tapr.org
Message-ID: <199606240243.TAA22987@m1.sprynet.com>
Rendered body type: text/plain

I added a hot-link gif image of Florida to my site that links to your new site, Rich. If you are so inclined to add a link to the KC page, the URL is:

http://home.sprynet.com/sprynet/ku0g/

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

857. Email Overload revisited

From: rwf <rwf@mindspring.com>
Date: Sun, 23 Jun 1996 22:52:55 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960624025255.009a2b38@mindspring.com>
Rendered body type: text/plain

Sam- I'm sure most readers allow you to change fields when replying to a message. Mine does. But that was not the issue. The issue was just to add a safeguard to keep folks from accidentally sending replies to the SIG when they meant them to be private. A nice change would be for the field to be blank. I don't even know if it *can* be changed on the remailer end. I only know the question has been asked at least a dozen times and never yet has anyone who is an administrator (of Host) of this list given an answer.

But thanks for the info on Pegasus. Our Company dropped it a year ago when we proved it wouldn't work with Trumpet's Winsock.

```
One day when you accidentally reply to the SIG when you didn't mean to,
we'll try to refrain from smirking    ;-)

Ralph



At 07:04 AM 6/23/96 -0500,Sam said:
>
>I like the format currently in use.. I use PEGASUS MAIL and I can
>change the reply to address on my own.
>
>I have only myself to blame for sending a private reply to the whole
>sig.   Get control!   Use Pegasus Mail!
>
```

858. Re: [APRSSIG:2282] email overload...

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 23 Jun 1996 23:27:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960623232536.20116A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sat, 22 Jun 1996, Steve Dimse wrote:

> When someone asks for help, email them directly, rather than posting an
> answer to the sig. The person will get it faster (don't have to wait for
> mailing list to resend it, and everyone won't have to get 20 different
> messages saying 'use three control-c's'.
>
> Radical idea, but it just might work...

Yes but then someone else with the same problem will not see the answer.
(they may not have the same problem right this minute, they could store
this *valuable* information to help themselves (or someone else) later on)


Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

859. Re: [APRSSIG:2290] Re: email overload...

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 23 Jun 1996 23:32:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960623233106.20116B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sat, 22 Jun 1996, Roy Bost wrote:
>       Everyone seems to have missed the last sentence of my
> indquiry.....once into the GPS Mode I CANNOT reconnect to the KPC-3 with
> any of my packet programs!  I user Hostmaster II+ to set up the KPC-3
> but Hostermaster now tells me I have no TNC connected to the comkputer.
> PackTerm and PacketPet also respond the same way.

No we didn't miss the last sentence....in GPS mode the TNC ignores
everything from your packet programs ... except three control C's

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

860. Re: [APRSSIG:2326] Email Overload revisited

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Mon, 24 Jun 1996 00:03:51 -0400
To: aprssig@tapr.org
Message-ID: <31CE13A7.7C1B@codger.physics.duq.edu>
Rendered body type: text/plain

```
rwf wrote:

> The issue was just to add
> a safeguard to keep folks from accidentally sending replies to the SIG when
> they meant them to be private.   A nice change would be for the field to be
> blank.   I don't even know if it *can* be changed on the remailer end.

The list server adds a "Reply-To" field to the message.  Some mailers (like
pine) give you a choice to reply to the "From" or "Reply-To" addresses.  Others
(like Netscape mail) don't.
```

Personally, I'd like to see both the list address and the sender address appear in the Reply-To: field. Most of the other lists I'm on do that. That way, if you are directly responding to a question, they get their answer directly, as well as through the (slower) mailing list. If you want to reply only to the sender, you can delete the list address.

Personally, I think that the volume of this list would go down by half if the list address is not the default reply address. Aside from not getting the direct replies (which others silently benefit from), others are less likely to put their two cents in when it "costs three cents" (the effort of typing in the list address).

---

861. More Blackjack Antennas Now Available!

From: ku0g@sprynet.com
Date: Sun, 23 Jun 1996 22:07:07 -0700
To: aprssig@tapr.org
Message-ID: <199606240507.WAA16633@m1.sprynet.com>
Rendered body type: text/plain

Hi, GPS Users! I've just gotten the parts together for another run of the Blackjack GPS Patch Antenna! Out of this run of 50 antennas I will produce 25 Blackjacks, 20 Naturals (weatherproofed version) and 5 amplified test antennas.

I have just finished putting a dozen single-port mode switches together tonight! The price for these units is $15.00 plus $5.00 shipping/handling!

Get you reservations in now! First come, first served!!!

Terms, as always, are:

MONEY ORDER made payable to James Duncan. Note: We do NOT accept personal checks! Please don't send them!!! In the near future we will begin taking Mastercard/Visa, but not until Karla and I can afford the setup fees for a credit card processing account!

Due to a slight error in estimating shipping charges, I am increasing the shipping/handling charge to $5.00 which makes the total for the Blackjack to be $44.00. The Natural will sell for $49.00 plus $5.00 shipping/handling.

Mail Order/Payment along with shipping address to:

BLACKJACK
13 N.W. Barry Road, #141
Kansas City, MO 64155

I enjoy hearing from those who have purchased the Blackjack Antenna! Please send a note about your use and the performance of the antenna in your setup!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

862. Re: [APRSSIG:2298] Re: email overload...

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 24 Jun 96 06:58:52 -0400
To: <aprssig@tapr.org>
Message-ID: <199606241055.GAA27055@bridge.net>
Rendered body type: text/plain

>Ask yourself the question:
>
>Will my answer inform an interest of "quite a few" people or just this
>"one" person. If the former, then I would send it to the list, if the
>latter, send it private. It ain't rocket science to determine what the
>level of interest might be, e.g.,
>

More importantly, ask is this a simple question someone is not able to find the answer to. This happens to everyone from time to time, and it is OK to ask these questions. The problem is when 20 people all post the answer, and each post is mailed out to a couple hundred people, it wastes a lot of bandwidth, and a lot of time deleting messages from the mailbox. even if most people don't pay by the byte anymore, their time is still valuable.

Steve KO4HD

863. Re: [APRSSIG:2327] Re: email overload...

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 24 Jun 96 07:01:37 -0400
To: <aprssig@tapr.org>
Message-ID: <199606241058.GAA27168@bridge.net>
Rendered body type: text/plain

```
>Yes but then someone else with the same problem will not see the answer.
>(they may not have the same problem right this minute, they could store
>this *valuable* information to help themselves (or someone else) later on)
>
But they won't remember it when they need it. Is it really worth
literally thousands of email messages to answer a question that is in the
docs? I want to stress, I have no problem with the question being posted,
but I think people need to stop and think about whether everyone in the
sig needs to know the answer!

Steve
```

---

864. Re: [APRSSIG:2326] Email Overload revisited

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 24 Jun 1996 07:34:51 -0000
To: aprssig@tapr.org
Message-ID: <199606241135.GAA14669@tapr.org>
Rendered body type: text/plain

```
On 23 Jun 96 at 22:00, rwf wrote:

> Sam-  I'm sure most readers allow you to change fields when replying
> to a message.  Mine does. But that was not the issue.  The issue was
> just to add a safeguard to keep folks from accidentally sending
> replies to the SIG when they meant them to be private.   A nice
> change would be for the field to be blank.   I don't even know if it
> *can* be changed on the remailer end.  I only know the question has
> been asked at least a dozen times and never yet has anyone who is an
> administrator (of Host) of this list given an answer.
>
> But thanks for the info on Pegasus.  Our Company dropped it a year
> ago when we proved it wouldn't work with Trumpet's Winsock.
>
> One day when you accidentally reply to the SIG when you didn't mean
> to, we'll try to refrain from smirking    ;-)
>
> Ralph
>
>
>

I understand the many folks who want for someone or something to keep
them safe from harming themselves.   I was taught to be responsible
for my actions so I take responsiblity for myself..  I don't need
the Listserver to hold my hand.

It would be okay to send the mail to both the list and the person..
So if it is a flame ( God forbid )  or some other thing it could be handled by
editing out the sig address and leaving in the personal address.
I also understand the business of pressing the wrong button and
sending the "private" message to the whole sig. I have done
that . .!  Wow..  I was embarrased. BUT did learn something from it.

BUT I do see a value in the whole sig seeing most return messages..
It leaves a big whole in the "conversation" when listening in, so to
speak. . .  I think FLAMES should be returned to the address posting
the flames and NOT to the whole sig.  I see alot of not too
constructive critism floating around on here.  I answer all my Flames
privately, right Gerry?

I do a whole lot of reading and very little posting on the Sig.  I
enjoy the "forum" style of the List rather than answering the
question in private.  I have learned much more listening than by
talking in my life.  This SIG is no execption.

Now lets end the Thread and talk about APRS!!!!!


Sam Nabkey - WJ8T

Internet: snabkey@wingsbbs.com (http://205.243.16.75)
amprnet: wj8t@w8dc.ampr.org
```

AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM

865. Re: [APRSSIG:2323] Re: email overload...

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Mon, 24 Jun 1996 11:52:26 GMT
To: aprssig@tapr.org
Message-ID: <199606241152.LAA22387@mailhost.worldnet.att.net>
Rendered body type: text/plain

```
At 01:03 AM 6/24/96 +0000, you wrote:
>schiers@ames.net wrote:
>>
>> In <717503@bbs.ames.net>, on 06/22/96 at 07:30 AM,
>>    aprssig@tapr.org said:
>>
>> >When someone asks for help, email them directly, rather than posting an
>> >answer to the sig.
>>
>>    <chop>
>---------------------------SNIP-------------------------------------

>> and...with my opinion and a quarter, you can still get a cup of coffee.
>>
>> 73,
>>
>> hasan schiers, N0AN
>> -------------------------------------------------------------
>> schiers@ames.net
>> -------------------------------------------------------------
'
______________________________snip2____________________________-
```

IMHO it's not the reply as much as re posting the entire message first
that gets to be a problem. Just a line or two as a reminder should do.

Bud (WB4LTF)

866. KPC out of GPS Mode

From: "Mike Walker" <mwalker@interlog.com>
Date: Mon, 24 Jun 96 08:16:42 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199606241217.IAA18750@gold.interlog.com>
Rendered body type: text/plain

You can exit GPS mode with your KPC using 2 methods.

One, set up the remote control feature (MYREMOTE and RTEXT commands) and
connect to the unit remotely and send the command INTF TERM.

The other method is to hook up the TNC to your computer at 4800 baud and send
the following stream   Q . (You can cut this to a file and send it to your
TNC with a modem program, or hold down the ALT key and hit 192 on your
keyboard (make sure numlock is on and use the Num Keypad). The ALT-192 will
produce the   character.

See page 83 of the KPC-3 manual (Kantronics Host Mode Operation).

I have included the above character stream in the INITTAPR.TNC file so when I
take the TNC from standalone and hook it up to the laptop, it automatically
takes the TNC out of GPS mode. Make sure you also reset your BLT commands to
0, or you will be sending Posits at the rate you hand programmed.

regards...mike

```
Mike Walker                               mwalker@interlog.com
127 High St. W.                               rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

867. Re: [APRSSIG:2331] Re: email overload...

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 24 Jun 1996 08:09:09 -0500
To: aprssig@tapr.org
Message-ID: <199606241309.IAA23459@tbc1.tbcnet.com>
Rendered body type: text/plain

I hope some can appreciate the irony of the amount of email generated,
several posts coming from a single person, on the subject of "Re: email

overload", which, in itself, has aggrevated the email overload situation.

73's all, and it was good to see some APRS stations on Field Day.

jbl

At 06:13 6/24/96 -0500, you wrote:
>>Ask yourself the question:
>>
>>Will my answer inform an interest of "quite a few" people or just this
>>"one" person. If the former, then I would send it to the list, if the
>>latter, send it private. It ain't rocket science to determine what the
>>level of interest might be, e.g.,
>>
>More importantly, ask is this a simple question someone is not able to
>find the answer to. This happens to everyone from time to time, and it is
>OK to ask these questions. The problem is when 20 people all post the
>answer, and each post is mailed out to a couple hundred people, it wastes
>a lot of bandwidth, and a lot of time deleting messages from the mailbox.
>even if most people don't pay by the byte anymore, their time is still
>valuable.
>
>Steve KO4HD
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

868. Re: [APRSSIG:2333] Re: Email Overload revisited

From: schiers@ames.net
Date: Mon, 24 Jun 96 08:12:54 -0500
To: aprssig@tapr.org
Message-ID: <199606241313.IAA17829@tapr.org>
Rendered body type: text/plain

In <718742@bbs.ames.net>, on 06/24/96 at 08:05 AM,
   aprssig@tapr.org said:

>Now lets end the Thread and talk about APRS!!!!!
>Sam Nabkey - WJ8T

Yes, let's.

hasan schiers, N0AN--
----
schiers@ames.net
----

869. APRS WX station request

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 24 Jun 1996 08:28:29 -0500
To: aprssig@tapr.org
Message-ID: <199606241328.IAA23730@tbc1.tbcnet.com>
Rendered body type: text/plain

A comment from someone during the Field Day:

He likes to turn to the APRS freq to see what my U-II is reporting for WX conditions. Once he was able to figure out what the xxx/xx/xxT/xxR/xxxP stood for, it made sense to him.

He did comment on what appeared to him to be a very wide discrepancy from one report to another; for example, a report that said that the wind was 300 deg/04 mph, temp 34, rain .05 in, then suddenly the report is 080/15/T86,etc.

I explained that the program stores the last WX report it got, and xmitted it until the U-II sent the APRS a current wx report. At least I thinks that's how it works.

Hey, Bob, APR. He asked, and I agreed with him, if the DOSAPRS could suspend wx reports on start-up until it gets fresh U-II info. That way only current wx reports would be xmitted.

ps: I haven't heard much about WinAPRS lately. It's been over a month since Dayton. Is that a dead issue now?

anyhow, thanks, Bob, for making a version that works. I was able to run it
on a Gridpad over FD (no, it wasn't my first choice for computers, either,
but that's all I had, without lugging the Pentium desktop out there. And,
no, guys, I WON'T get a Mac just for APRS), got credit for packet, was able
to get several QSO's, and demonstrate it, and the WX stations, to several
people, one of which a Northern IL Univ student in the Meteorology program
there, that didn't know that capability existed.

73's

jbl

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

870. Shuttle

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Mon, 24 Jun 1996 09:29:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960624092724.20241A@outland.dtcc.edu>
Rendered body type: text/plain

Anyone hear the shuttle this past field day weekend. Unless we had bad
keps, not a peep from them on Saturday and especially Sunday. There was
an 82 degree pass over our location at about 1:00 pm.

Sam K3BY in Delaware

871. APRS Sarex score card (2)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 24 Jun 1996 10:16:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960622225944.2449A-100000@arctic>
Rendered body type: text/plain

Following is the log I have monitored on the east coast and Internet

```
PASS EDT  ZULU  COMMENTS
--------  ----- -------------
21 1745   2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22 0915   1315z nothing
22 1050   1450z nothing
22 1224   1624z nothing
22 1400   1800z nothing
22 1530   1930z nothing
23 0915   1315z nothing
23 1050   1450z nothing
23 1225   1625z nothing
23 1405   1805z nothing
23 1535   1935z nothing
23        2110z Voice heard in Calif
24 0740   1140z nothing
24 0910   1310z nothing
```

APRSdos REPLY COMMENT: Oh well... At least APRS will do it in automatic
mode.. if they ever do activate the SAREX Robot, hi hi

de wb4apr@amsat.org

872. Re: Shuttle

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Mon, 24 Jun 1996 10:18:54 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960624141854.006ca310@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 08:36 6/24/96 -0500, you wrote:
>Anyone hear the shuttle this past field day weekend. Unless we had bad
>keps, not a peep from them on Saturday and especially Sunday. There was
>an 82 degree pass over our location at about 1:00 pm.
>

>Sam K3BY in Delaware
>

Nope, tried copying the same pass here in MD with no luck.

Bob Kirk
N3OZB

873. RE: [APRSSIG:2333] Re: Email Overload revisited

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Mon, 24 Jun 1996 08:46:21 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB61AF.D9D497A0@ppp-105.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

From: Sam Nabkey, WJ8T
Sent: Monday, June 24, 1996 6:53 AM
To: aprssig@tapr.org
Subject: [APRSSIG:2333] Re: Email Overload revisited

I do a whole lot of reading and very little posting on the Sig. I enjoy the "forum" style of the List rather than answering the question in private. I have learned much more listening than by talking in my life. This SIG is no execption.

Now lets end the Thread and talk about APRS!!!!!

Well said!!

P.S. I'm using Exchange for this reply. If anyone see's that nasty attachment stuff let me know by emailing me and not the SIG so I can try to figure out why it does that all by it's self.

```
begin 600 WINMAIL.DAT
M>)\^(CH.`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`, ```%)%.B!;05!24U-)1SHR,S,S72!293H@16UA:6P@
M3W9E<FQO860@<F5V:7-I=&5D`"L/`06 `P`.````S <&`!@`" `N`!4``0`]
M`0$@@ ,`#@```,P'!@`8``@`* `S``$`50$!"8 !`"$````W.3 U-C0Y1D,U
M0T1#1C$Q.4,Q1# P,C!!1C1$,S5&,@`Z!P$#D 8`X 0``!0````+`",`````
M``,`)@``````"P`I```````#`"X```````,`-@``````0 `Y`)"L%X?38;L!
M'@!P``$````P````4D4Z(%M!4%)34TE'.C(S,S-=(%)E.B!%;6%I;"!/=F5R
M;&]A9"!R979I<VET960``@%Q``$````6`````;MATX<1GV0%>\W%$<^<'0`@
MKTTU\@``'@`># $````#````35,``!X`'PP!````&@```%=I;F1O=W,O8F%R
M<F5T=&0O8F%R<F5T=&0````#``80^,IL1 ,`!Q#O`0``'@`($ $```!E````
M+2TM+2TM+2TM+4923TTZ4T%-3D%"2T59+%=*.%1314Y4.DU/3D1!62Q*54Y%
M,C0L,3DY-C8Z-3-!351/.D%04E-324= 5$%04D]21U-50DI%0U0Z05!24U-)
M1SHR,S,S4D4Z10`````"`0D0`0```#L#```W`P``A@4``$Q:1G6M\G[ _P`*
M`0\"%0*D`^0%ZP*#`% 3`U0"`&-H"L!S973N,@8`!L,"@S(#Q@<3`H-&,P/%
M`@!P<G$2(G,H=&5M`H,T#WIH9:)L`R!$;&<"@S43#2Y]"H (SPG9.QD_,C4>
M-0* "H$-L0M@;F<QO# S%" +"A+R# %C`$ &( J%"HML:3$X,,$"T6DM,30T
M#? ,T',@`PM9,38*H -@%4!C?05 +2(G"H<@VPPP(:9&O0-A.B,N(:8,@@8!
M;0>P`0&@:V5Y+"!72OPX5"+/(]T&8 (P)0\F&Q)-`B!D82=Q2G5N$&4@,C0G
M@#$Y.4 V(#8Z-3,3<$VS)^\CW51O*B\F&V$4P+$$$&EG0 &0%, N!;#&9RW?
M*/YU8FHAX2__`28;6T%04E-324A'.C(<@#-=!_!ES35 10# `Q%/=@20&-"H
M860@&4!V! !I%4#F9!XO'S,S-B"G%V(,`4,AI@J%22!D;S' (#QW: ;P++ 8
MT 5 ;V:W.3$Y$ N 9S' +" @.,&6>3X`.9!T/>%P;Q4P<S["`B @=!:0!@`R
M("[.(#TQ"H4)\&IO/W! LH(B`A!R=6TB(!4P;GD]X3Y10+),! `%0'*^84"Q
M!<! L .1`'%W!G'W/M% L@J%<0I00"% @0N ZS_P!1!V1#!E02,1P#C CSX`
M/I $H F (&UU$;!_2' %L#WQ0^$)\$5$`Y%B9S]P"H4!D&QK/L)&P6WE/W)F
M1U)4: 0`!@`W@,M&L 0@;CUP97@%D 4P94:!+CG<3F\'X#W@=/\$( GP.2!
MLDP`/H(^\TJRVS' !N!U!4 W,B%1(C+=7SOD'HP=#R>0%J)S"W!D(U%74M50
M+E-!($DGS2<`=0"0/M%%>!&Q'$"_++!"D4"A3"$90 M0>5:!.SY@`'!Y`B L
ML!'P92?G!"!$D05 ;F%#`3' `D#=`-!H!X ",$+Q=0W03J+[2' LL&M,P ?@
M2A$54#AQ?S["6]$_`DS !4! LTQA<ZL]<#U 8P.1=#]A=#UP_1_09PAP0T%0
ML3VP/W YD/\]40>16=,'0 ,@2A$YD%FA^1'P;&9-ACJ_'5<\71AA`@!E4 `#
M`! 0``````,`$1 !````0 `',("+3\+28;L!0 `(,("+3\+28;L!'@`]``$`
8```%````4D4Z( `````#``TT_3<``!=D
`
end
```

874. Re: [APRSSIG:2339] Shuttle

From: stanzepa@usa.nai.net (stan horzepa)
Date: Mon, 24 Jun 1996 11:20:50 -0400
To: aprssig@tapr.org
Message-ID: <v01510100adf4628676c3@[206.98.48.247]>
Rendered body type: text/plain

```
Nothing heard here all weekend and nothing heard today (Monday) either.

>Anyone hear the shuttle this past field day weekend.
>
>Sam K3BY in Delaware
```

---

875. Re: [APRSSIG:2336] Re: email overload...

From: schiers@ames.net
Date: Mon, 24 Jun 96 11:08:26 -0500
To: aprssig@tapr.org
Message-ID: <199606241616.LAA25224@tapr.org>
Rendered body type: text/plain

```
In <718823@bbs.ames.net>, on 06/24/96 at 10:42 AM,
   aprssig@tapr.org said:

>I hope some can appreciate the irony of the amount of email generated,
>several posts coming from a single person, on the subject of "Re: email
>overload",

It happens every time an issue is raised...the mail to discuss the mail
exceeds the original topic by an order of magnitude.

It should also be noted that "email overload" as far as I am concerned is
a theoretical construct. I have never experienced a "crawling" of the
network as a result of mail on a specific topic...it is cumulative, of
course, but  excruciatingly difficult to pinpoint.

A modicum of restraint and judicious use of the delete key will suffice.
SPAM far outweighs the impact of "too many answers", casual discussion,
off topic discussion or "discussions of discussion".

It kinda works like this:

1. A simple question gets asked and a bunch of answers are offered, all
with
   the same advice.
2. Someone complains about the multiple answers or barks about RTFM. 3.
Several others join in pro and con.
4. Several others lament the joining in pro and con.
5. Someone says, let's drop this thread.
6. Several others agree and add their personal assessment of the
problem/solution. 7. Everyone eventually gets bored with items 1-6 above
and the thread dies.

I doubt if this process will change much, so my delete key keeps pretty
busy, but I don't bother to complain, as it's too much like teaching a pig
to sing. (Don't be offended if you don't know the joke...if you do, you
won't be offended.)

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

876. Re: [APRSSIG:2340] APRS Sarex score card (2)

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 24 Jun 1996 11:18:11 -0700
To: aprssig@tapr.org
Message-ID: <31CEDBE3.151E@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Following is the log I have monitored on the east coast and Internet
>
> PASS EDT  ZULU  COMMENTS
> --------  ----- -------------
> 21        2238z Voice Guiccone San DIego, and W5GEL Texas----------
```

```
The above is the only thing i heard at all over the weekend.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

877. WINAPRS, any progress?

From: bob <w2g3zfj@unix.asb.com>
Date: Mon, 24 Jun 1996 12:40:45 -0400
To: aprssig@tapr.org
Message-ID: <199606241640.MAA08711@unix.asb.com>
Rendered body type: text/plain

```
Hi Folks

Any progress on another update of winAPRS? Seems a long time since any
changes were made. Plenty of bugs to fix!

BTW I am using it virtually 24 hrs now as GATE into Long Island area.
Generally it only crashes when you close/open map windows, if you don't
touch it it seems pretty stable. Anoying to have all those callsigns
changing by themselves though!



73 de bob
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/aprs1.htm
```

---

878. How to make MS Exchange reply to APRSSIG correctly

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 24 Jun 1996 11:32:28 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB61C0.E9399220@swta.onramp.net>
Rendered body type: text/plain

```
----------
From:   David E. Barrett
Sent:   Monday, June 24, 1996 8:46 AM
To:     'aprssig@tapr.org'
Subject:        RE: [APRSSIG:2333] Re: Email Overload revisited

I'm using Exchange for this reply. If anyone see's that nasty attachment
stuff let me know by emailing me and not the SIG so I can try to figure out
why it does that all by it's self.

======================

David, I use MS Exchange too.  There is a problem with using the Reply
feature.  The source of the problem is really with the APRSSIG remailer not
understanding what to do with RTF characters and converting them to
attachments.  You'll notice there will be no problem if you reply to
someone who sends you direct email, but if you reply to the APRSSIG people
will flame you bigtime!

The solution that works for me is to use the Forward button instead of the
Reply button.  This is only necessary on some SIGs.  You'll have to
manually re-enter the SIG address (aprssig@tapr.org), but at least it
works.

Larry Griffin <largriff@onramp.net>
```

---

879. Re: [APRSSIG:2339] Shuttle

From: ku0g@sprynet.com
Date: Mon, 24 Jun 1996 10:46:14 -0700
To: aprssig@tapr.org
Message-ID: <199606241746.KAA02020@m1.sprynet.com>
Rendered body type: text/plain

```
KB0UZQ reported to me that the digi was NOT on, but they shuttle crew was heard
on voice making FD contacts!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

880. Re: [APRSSIG:2341] Re: Shuttle

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Date: Mon, 24 Jun 96 09:30:03 -0700
To: aprssig@tapr.org
Message-ID: <47C8CE3101B4ABAA@pc.gcs.litton.com>
Rendered body type: text/plain

```
Nope--   I was at our Field Day site in Simi Valley, Ca and didn't hear a
peep out of them either on either Saturday or Sunday.

73's de Mike KA6SPT

---------------------------REPLY
SEPARATOR-------------------------------

>>Anyone hear the shuttle this past field day weekend.  Unless we had bad

>>keps, not a peep from them on Saturday and especially Sunday.  There
was
>>an 82 degree pass over our location at about 1:00 pm.
>>
>>Sam K3BY in Delaware
>>
__________________________________
>Nope, tried copying the same pass here in MD with no luck.
>
>Bob Kirk
>N3OZB
```

881. Maps

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 24 Jun 1996 13:19:33 -0700
To: aprssig@tapr.org
Message-ID: <31CEF855.24C2@worldnet.att.net>
Rendered body type: text/plain

```
I want to thank everyone on the sig for answering my plea for making a 32
or 64 mile map for some potentional new PARS users around the New Orleans
area. I got exactly 1 offer and that person did attempt to make me one
but had problems with it, so in summing up i didn't get one!. It look
like sig users are to busy posting those silly requests for changes in
the format, or who should answer who and in what way, Sound like a bunch
of little kids that are fighting over what color marbles to use. Then
there are those that critizise me for what i post, wake up guys.

Anyway i have posted those map files on tapr for Jan WB5TKC, but anyone
else that wants them they are there as WB5TKC.ZIP & WB5TKC.TXT. I don't
leave the stuff there to long so get them now. I erase my files as not to
clutter up tapr. Go ahead guys send the flames, but do it in private
e-mail please.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

882. Re: [APRSSIG:2340] APRS Sarex score card (2)

From: byoung@qni.com
Date: Mon, 24 Jun 1996 14:24:40 -0500
To: aprssig@tapr.org
Message-ID: <9606241924.AA14667@qni.com>
Rendered body type: text/plain

```
SAREX ROBOT watchers,

I've got 7.6e (Space mode) "loaded and cocked" just waiting!  Haven't "heard"
from the shuttle yet, but I remain hopeful.  Thanks to Bob for the quick release
of the beta to resolve the reset issue.  Now if the shuttle would just oblige by
"doing digi", I could test it....

Bill Young
byoung@qni.com
KB0UZQ
```

883. Re: [APRSSIG:2343] Re: Shuttle

From: vampmasq@felix.TECLink.Net (Richard Albee)
Date: Mon, 24 Jun 1996 14:54:21 +0000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <v01540b02adf45c0535c2@[205.229.39.82]>
Rendered body type: text/plain

At 1545 CDT 24June 96 heard MIR for 4 transmissions. 145.55
Richard Albee

---

884. Re: [APRSSIG:2347] How to make MS Exchange reply to APRSSIG correctly

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Mon, 24 Jun 1996 17:29:22 -0400
To: aprssig@tapr.org
Message-ID: <31CF08B2.30C2@codger.physics.duq.edu>
Rendered body type: text/plain

Larry Griffin wrote:

> David, I use MS Exchange too. There is a problem with using the Reply
> feature. The source of the problem is really with the APRSSIG remailer not
> understanding what to do with RTF characters and converting them to
> attachments.

The listserver does not attach anything. The attachment is made by the original mailer, M$ Exchange.

The source of the problem is that Exchange sends them in the first place. Somewhere, buried deep in some menu, is a button that selects if the RTF version will be sent or not. Since Exchange is meant to be used as a workgroup mail program, not an internet mailer program, this defaults to "on", so the visual fruit salad of mixed fonts, underlines, italics, and what all else is not lost when sending it to your co-worker across the hall.

The unfortunate side effect is that the messages that are sent are about three times the length that they need to be.

(Personally, I think that it's a M$ plot to simply annoy the hell out of everyone that uses a competitor's product.)

---

885. WinAPRS

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 24 Jun 1996 15:51:12 PST
To: aprssig@tapr.org
Message-ID: <19960624.163348.4399.0.kf4dys@juno.com>
Rendered body type: text/plain

Hello all;

In the Florida EPAN (East Panhandle) ARES APRS net, I have the responsibility of posting all tropical cyclone tracking data. I download the latest info from the NWS over the internet and manually input the position, course, speed and time of report.

I have found that not only will WinAPRS not dead reckon, it also screws up the DosAPRS stations dead reckoning, by updating the time at every transmission of the position data.

I don't see anything about dead reckoning tracking in the docs for WinAPRS. Can anyone tell me how to work around this?

regards,
Joe KF4DYS

---

886. Cleanup of upload area

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 24 Jun 1996 16:44:31 -0500
To: aprssig@tapr.org
Message-ID: <v02120d06adf4aee28f30@[138.87.2.109]>
Rendered body type: text/plain

The TAPR upload area for APRS files is continuously undergoing a cleanup. The upload area is a nice central point to find the most recent files. Then, they have to be "filed" in the correct place. I have volunteered to keep track of what goes where and redirect the upload files into the correct subdirectories after they have been in the upload directory a while.

Backround-

The TAPR WWW site will have the descriptions of each file (sort of like: ftp://ftp.tapr.org/tapr/software_lib/00-index.txt) and then you will click on the filename to download it. This requires a description of the file that you upload. I may not understand what the file does so it is best that whoever uploads a file include a text file with the same name describing the particulars of that upload. Include the decompressing details (such as; Please pkunzip to a directory called ABCDEFG using the -d switch) (or This is a self extracting Macintosh file that requires AppleEvents) in the description.

also see: ftp://ftp.tapr.org/tapr/software_lib/UPLOAD/readme

I am recommending the following files be moved to the directory name that is after the file name:

```
 mv MOWINMAP.ZIP /files/maps/WinMacMaps/
 mv NEBDYS2M.MAP /files/maps/PCMaps/
 mv SDBDYS2M.MAP /files/maps/PCMaps/
 mv TNMAPS04.ZIP /files/maps/PCMaps/
 mv autwx63.zip  /files/dosstuff/
 mv dlgview2.txt /files/dosstuff/
 mv dlgview2.zip /files/dosstuff/
 mv ilmadco.zip  /files/maps/PCMaps
 mv logsat51.exe /files/dosstuff/
 mv madtran.exe  /files/dosstuff/
 mv mdmaps06.zip /files/maps/PCMaps/
 mv nemaps01.zip /files/maps/PCMaps/
 mv nw_gps.bin   /files/dosstuff/
 mv ohmaps07.zip /files/maps/PCMaps/
 mv pamaps04.zip /files/maps/PCMaps/
 mv precedus.exe /files/dosstuff/
 mv tnnewmap.zip /files/maps/PCMaps/
 mv wiwest.zip   /files/maps/PCMaps
```

If anyone knows the contents of each of those files, could you upload a text file with the same name but ending with .txt? Let me know soon if you want them to be put in a different subdirectory.

The following file is to be removed. A readme.txt in this directory should talk about upload related information. I believe it also is in the correct directory besides this one.

```
 rm readme.txt
```

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP     IS Data Processing Equip Tech    k9orp@amsat.org
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

887. Re: [APRSSIG:2344] Re: email overload...

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 24 Jun 1996 17:45:46 -0400
To: aprssig@tapr.org
Message-ID: <199606242145.RAA08905@grumpy.magg.net>
Rendered body type: text/plain

Hey you know all this talk about "e-mail overload" is overloading my e-mail!!
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96

---

888. RE: [APRSSIG:2353] Re: How to make MS Exchange reply to APRSSIG correctly

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 24 Jun 1996 18:35:32 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB61FB.EEA1FE60@gwyn.paccomm.com>
Rendered body type: text/plain

On Monday, June 24, 1996 12:36 PM, Paul
Christenson[SMTP:christen@codger.physics.duq.edu] wrote:
>The source of the problem is that Exchange sends them in the first place.
>Somewhere, buried deep in some menu, is a button that selects if the RTF
version
>will be sent or not. Since Exchange is meant to be used as a workgroup
mail
>program, not an internet mailer program, this defaults to "on", so the
visual
>fruit salad of mixed fonts, underlines, italics, and what all else is not
lost
>when sending it to your co-worker across the hall.

I am replying to this message using MS Exchange. I suspect it will have an attachment.

I've checked the Rich Text and MIME boxes off (many times) and there are only attachments when I reply to a message, not when I originate one.

I even downloaded "Preventing WINMAIL.DAT sent to Internet Users" and "Preventing Winmail.dat from being sent over IMC from the MS Knowledge Base (accessed via the MS web site). Both those documents say to turn RTF and MIME off, but it seems that isn't enough.....

I've downloaded Eudora and will use it as soon as I figure out how to move my multiple megabytes of saved messages out of Exchange where I can access them.

I'd really like to use Exchange if only some bright soul could provide the magic menu instructions.

Gwyn

```
begin 600 WINMAIL.DAT
M>)\^(B,6`0:0" `$````````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #`````"P`/#@``````"`?\/
M`0```#\``````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P```'@`", $````%````4TU44 ``
M```>```,P`0```!$```!A<')S<VEG0'1A<'(N;W)G```````,`%0P!`````P#^
M#P8````>```$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,```#D``````"P! .@$`````"
M`?8/`0`````0``````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`2@```%)%.B!;05!24U-)1SHR,S4S72!293H@2&]W('1O
M(&UA:V4@35,@17AC:&%N9V4@<F5P;'D@=&\@05!24U-)1R!C;W)R96-T;'D`
M:Q<!!8 #``X```#,!P8`&`2`",`( `!`$<!`2" `P`.````S <&`!@`$@`<
M`!T``0`]`0$)@ $`(0```#(X144S,3<X1#5#1$-&,3$X,$0S,$$S,# T,# U,CE"
M0T0W``"4'`0.0!@!\!@``$@````L`(P````````P`F````````+`"D```````,`
M-@```````0 `Y``"Z.G0=8KL!'@!P``$```!*````4D4Z(%M!4%)34TE'.C(S
M-3-=(%)E.B!(;W<@=&\@;6%K92!-4R!%>&-H86YG92!R97!L>2!T;R!!4%)3
M4TE'(&-O<G)E8W1L>0````(!<0`!`````%@````&[8AUT,W@Q[BG-U1'/@-,`
M0 4IO-<``!X`'@P!`````!0```%--5%````````'@`?# $`````1`````9W=Y;D!P
M86-C;VUM+F-O;0````#``80K340,0,`!Q 1! ```'@`($ $```!E````3TY-
M3TY$05DL2E5.13(T+#$Y.38Q,CHS-E!-+"%!!54Q#2%)))4U1%3E-/3E--5% Z
M0TA225-414Y!1T]L5$A.!`*T$$&@`$%&```%<3%3=4C71U%%DEBY1%)#-",!%4T4
M15$A%4)/0@`````"`0D0`0```,\$``#+! ``Y0<``$Q:1G7KQ[Z<_P`*`0\"
M%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"``!R0G$1XG-T96T"
M@S,W`N0'$P*#-+!+,#]]F-;L2S!3%?0J ",\)V3L9KP@Q,C@:SV4R-34/`H *
M@0VQ"V!N9S$P7C,44 L*%W(,`6,2H" *3P.@30(@9&%Y+ `@2G5N92 R-"$@
M<#$Y.38A$#(Z$C,A4%!-+('!0875Y`R!#: 40$\$`@ (@6V!33510.A%P(H1
MB06@9&<$D"YP:!.P`&EC<RYD=7$N80F =5T@=P-@$] Z_0J%/@M&&6(?<P!0
M$U EH7)C!4!4:"# (N (<&/A(,!O9B!T*"$GD0)@+1/@( 0`*.%A!4!%>.\1
M<1X`*#$)\&0IPBF"`Z!Y*/)F:1&@!4 +42B0+KP@( J''M\F7R=I4P-P+P?0
M*" 9L"!P8@AR9""Y#;!E<"MB(N '@" '@.QN=2!P*;%A,,$"0 (@?RG4$; I
M<"?@!" &D"CC4O!41B!V!) `D#,!+,^O+=\N[R?A`_!L`R!B*J/;!4 %L6XE
MH"R14PN *)%_*C<IL0> `' %0#+P.-)UJQ&P,2!A,H)W!;!K"<#_"& Q< #
M`Q$U/S9/-U\GX?,GD0G 86T@<#F1,I #H/\+@!/0!* 1P#T#!)! N"CP7RFQ
M#;$B(3/1.W$B`B BUR!P(N HXW8$`'4'0#U?SSYO/W\GT@-0=6DS80= QF$Q
M("C!;6EX,1$"$NYS(' @H 2!; N !Y R4?\!D$L0), @< !P,2 P8"H!_P=
M`R SD!&P*:)!4AE +!'_1:]&OT?/.&(H(#&A*M$+@%9G2W$[8GD(82 %H"W_
M/')"D0#0`V $$2CR$8 XL-XN"H\?#%1U5'5),I ID/L9L M0>5'B.W%#4P>!
M26#_*I$[T%'B!>$J-BR05T!%4/QS<"?223$XDQ& -+!!@K\J``&0$7 R$3FP
M5FTG6Y&_$7 %D%,P,2 T,R2P:"@`#&5X07(Q($U)346],,!O2A $("C *- H
M`X'V>2C@!W(I3 ,H\1FP,I#_8:$"(%? 6^D$(%%35T!7DS\[8C*@6*5!-&,E
M!;!I9]\+@"H`8?(L@%9N932P`Z!H9&]W8B!O29 Q$2(>4!FP9W%@P%'Q5TE.
M`$U!24PN1$%4:SD$.W%)0=95$; 1H"+_3 -H:PN /1(DX"H!`U(XT<]1XCD4
M-+%7,$U#;10H\C4%X4LYD'<I<"0A($+[/" @P"@`T"B0!! Q$44P8S*@;P5W
M96(H0$DP9?HI+)!"):!>P"CP3; @P+EGL&-U8L1)8&/3= AP_P.@-')?-V A
M,+):TQ&P$^!S*<4$`&XG!4 )\ A@9SQH+G=R7*]R\F?7177_9[!!`$P$.*([
MT5(2/"$BX.\S`3PA5T KX&<("EQ:%?<L 'X#MQ!&!;D6U@H&VO0^$%("EP
M,,@%G`:!Y$]#_8 ))432P,2!8I6 !=:$HP?<J-S!C5S%C6\)P@RL3=[___,2 9
MLRA8*!+$%,P.V)ZHJ\Z6"C08A,QPV)ED6@S8?\(8 ,@!: B,#$@)Y%%, VP
M]RCC`,!EL&,R`RMA$\!)$!\GX#3Q)-!4=4WF1W=Y%FY4=1C1`(M ``,`$! `
M`````P`1$ ````! ``<P8)?A=QQBNP% ``@P8)?A=QQBNP$>`#T``0````4`
,``!213H@`````.[_
`
end
```

889. Re: [APRSSIG:2339] Shuttle

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@babbage.csee.usf.edu>
Date: Mon, 24 Jun 1996 18:59:46 -0400 (EDT)
To: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Cc: aprssig@tapr.org

Message-ID: <Pine.GSO.3.93.960624185922.27256B-100000@babbage>
Rendered body type: text/plain

On Mon, 24 Jun 1996, Dr Samuel Guccione wrote:

> Anyone hear the shuttle this past field day weekend. Unless we had bad
> keps, not a peep from them on Saturday and especially Sunday. There was
> an 82 degree pass over our location at about 1:00 pm.

Our crew in Largo (W4GAC 6A SFL) listened each pass and heard nothing.

Paul

```
 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /               Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

---

890. Making a map by hand

From: quarry@q.continuum.net (Chip)
Date: Mon, 24 Jun 1996 19:31:57 -0400
To: aprssig@tapr.org
Message-ID: <v02140b01adf4d4908ec3@[199.0.52.85]>
Rendered body type: text/plain

Can someone send me the details of making a map by hand for (Mac/DOS)APRS?

We are having an even this weekend, and I'd like to make a little map. I was thinking I'd drive the course and flag all the major points (ie checkpoints) as well as any major turns and then make a little map. Shouldn't need more then a hundred points tops for a rudimentary map. Being able to put labels in would be a boon (ie for checkpoints and intersections).

Thanks,

```
Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

891. RE: [APRSSIG:2353] Re: How to make MS Exchange reply to APRSSIG correctly

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 24 Jun 1996 19:39:02 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB6205.336D9A00@larry.onramp.net>
Rendered body type: text/plain

```
----------
From:   Paul Christenson[SMTP:christen@codger.physics.duq.edu]
Sent:   Monday, June 24, 1996 11:36 AM
```

Larry Griffin wrote:

> David, I use MS Exchange too. There is a problem with using the Reply
> feature. The source of the problem is really with the APRSSIG remailer
not
> understanding what to do with RTF characters and converting them to
> attachments.

The listserver does not attach anything. The attachment is made by the
original
mailer, M$ Exchange.

Then why is there no attachment if you send me email and I reply to you?

The source of the problem is that Exchange sends them in the first place.
Somewhere, buried deep in some menu, is a button that selects if the RTF
version
will be sent or not

Okay, I followed the expert advice and turned off MIME encoding in my Tools
> Services > Internet Mail > Message Format. Let's see if it works...

Sorry to have wasted yet more bandwidth!

Larry

```
begin 600 WINMAIL.DAT
M>)\^(C@``0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`2@```%)%.B!;05!24U-)1SHR,S4S72!293H@2&]W('1O
M(&UA:V4@35,@17AC:&%N9V4@<F5P;'D@=&\@05!24U-)1R!C;W)R96-T;'D`
M:Q<!!8 #``X```#,!P8`& `3`"<``@`!`"X!`2" `P`.````S <&`!@`$P`;
M`!$``0`Q`0$)@ $`(0```#0Y04,R-#1!1C9#1$-&,3$X,30W-#0T-34S-30P
M,# P`/ &`0.0!@!D!0``$@````L`(P```````P`F```````+`"D```````,`
M-@``````0 `Y`,#HKK0N8KL!'@!P``$```!*````4D4Z(%M!4%)%4TE'.C(S
M-3-=(%)E.B!(;W<@=&\@;6%K92!-4R!%>&-H86YG92!R97!L>2!T;R!!4%)3
M4TE'(&-O<G)E8W1L>0````(!<0`!````%@````&[8BZTI4HDK$[-]A'/@4=$
M15-4`````!X`'@P!````!0```%--5% `````'@`?# $````4````;&%R9W)I
M9F9 ;VYR86UP+FYE= `#``80RT>$40,`!Q#4`@``'@`($ $```!E````+2TM
M+2TM+2TM+4923TTZ4$%53$4@3$%.1%)%5$@@+4TU44#I#2%%))4U1%3D!#3T1'
M15)02%E324-31%5114154T5.5#I-3TY$05DL2E5.13(T+#$Y.38Q,3HS-D%-
M3$%24EE'4@`````"`0D0`0```+8#``"R`P``1 8``$Q:1G6@DX<*_P`*`0\"
M%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"'!R0G$1XG-T96T"
M@S-W`N0'$P*`?0J!E0AT,"`:$@`$+;!A`!,"/)YIN,F4P*4/`*NH:9W0'M^!:3E,
M.# "T6DM,3PT- WP#- :<PM9,3;7"J #8!/08P5 +1R7"H?7&TL,,!P61@-A
M.AV>'!8A#((@4&%U`R!#: \%$!/!`( "(%M3350L4#H1<"'$0 6@9&<1!) N
M<&@3L&EC<R N9'5Q+@F =5V_'3\>309@`C ??R"+30(@`&1A>2P@2G5N$&4@
M,C0I,#$Y.2(V*= Q.C,J$$%-_PJ%"HL9T"I@&Q<440OR'!;"3 K <GD@1P:!
M&D 5`Z!W'"(Z*KP^($00879I9"DP22!U<Q&P!=)%>!%Q&1 I@'2 ;V\N("!4
M: 20XRF ! `@82 <$0)@$^"Q+H!I=&@P<0N 9S%P*S'P!_!E"U!Y+V=F9=1A
M= AP93&T("(@"'#R8RF ;V8SLS*6,D$6$ \'0#0P,P0SPD%04E-X4TE'-T$`
MP ,0!) @?FX<,"]G*6 $@1/ `'!DG3."=Q& !4 Q@"!D.V#A,Q-25$8@$7(`
MT!/07Q&@,F H\#PP`B!V!)!T_S.%,O Q@"]G-0`!D!%P!X!_`C D$"J\-8(9
MT!/ $;!ROSUA.W$'D3EA/M4\X7DS,#\S@355/N@R,@# #; @8N<M\#/"!;!I
M9PN !T K%O,X]"DP320PYS^6+$PK'/TL7&,`0#'2+G$CP#(R,\'O,A$Y8$-;
M-D!Y"& UL GP^ST0!X @..,\XS!@%A T(?L[0DS!/RJ_*\\LW#6/-IK_,S [
M(3#W30)+,S<!`Z SPG\:0#IA,H +8%*0,;%(I5/O`W 'T#'R*3!B"'(]$ VP
MWS0056(B($U1/T%U*3 R0_]7X ) `B!3U!&P,M <8 0@_TR1,\,\$3UA`)!:
M$4^/4)__'"4#\#> 1(!4HP5 !;$Y:.=)'THE8 5/:RD2,& "$!DW@&]W6"$S
MPF5X</L]<3)@9# 04I$\\C41*7"'/1!2P%+034E-14UPKFXC03."+F%M+?!4
M,9"^; 0@+] &861"9P))`C!?!)$1P 703:(OT$T'D'-:83%11@6P`,!T,;%,
M_1' )P0@$; R(5+0,R N@/T%L&LD$&M03QQ7,"W2.U&W$8 ]8"Z 81/!/1!Y
M:%%;!& R$6(ZD0/P9#,P(2]/'"VS3QP5,0!Q, ```P`0$ `````#`!$0````
M`$ `!S" 7.D0+6*[`4 `"#" 7.D0+6*[`1X`/0`!````!0```%)%.B `````
"JX@`
`
end
```

892. Re:[APRSSIG:2308] Re: email overload...

From: quarry@q.continuum.net (Chip)
Date: Mon, 24 Jun 1996 21:49:39 -0400
To: aprssig@tapr.org
Message-ID: <v02140b04adf4f4f320eb@[199.0.52.89]>
Rendered body type: text/plain

```
At 0:42 6/23/96, you wrote:

> >****  PLEASE, can someone (Keith?  Greg?)  make the remailer NOT fill in the
> >SIG address for the replies automatically?  ****
>
> I say oh please, oh PLEASE! this would be VERY helpful. Saves on waisted
> mail and embaressments.

Except that most replies will be intended for the whole group ... hence
the desire to have that the "reply-to" location.  More sophisticated
email software allows you to choose between the two or even send to both.
On the other hand Windows and Mac users can cut and paste the address
from the original.


Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

893. STS-78 element set JSC-907 (24-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 24 Jun 1996 22:30:54 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606250330.WAA05632@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Mon, 24 Jun 1996 17:33:30 -0500
> Subject: STS-78 element set JSC-907 (24-Jun-96)
>
>
>
> STS-78
> 1 23931U 96036A   96176.85343852  .00109680  00000-0  19324-3 0  9074
> 2 23931  39.0166 341.6067 0007272 301.9883  58.0388 16.01507315   698
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96176.85343852   =     yrday.fracday
> Element set:     907
> Inclination:       39.0166 deg
> RA of node:       341.6067 deg
> Eccentricity:     .0007272
> Arg of perigee:   301.9883 deg
> Mean anomaly:      58.0388 deg
> Mean motion:   16.01507315 rev/day
> Decay rate:    1.09680E-03 rev/day^2
> Epoch rev:             69
> Checksum:             325
>
>
> Gil Carman
>
>
>


--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

---

894. STS-78 Rev 67 Orbital Data

From: kene@fs.loral.com (Ken Ernandes)
Date: Mon, 24 Jun 1996 15:37:21 -0400
To: grcc@ams.gsfc.nasa.gov, ststle@spacelink.msfc.nasa.gov, sarex@amsat.org,
shuttle.keps@totrbbs.atl.ga.us, slnews@spacelink.msfc.nasa.gov,
lundyjd@fafb.af.mil
Message-ID: <m0uYHOT-003E3QC@fs.loral.com>
Rendered body type: text/plain

```
S T S - 7 8   O R B I T A L   D A T A

Below is the rev 67 State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector.  Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96176.75203356482
                        06/24/1996  18:02:55.700 UTC
EFG E:                           9771394 ft
    F:                         -16869114 ft
    G:                           9784045 ft
    Edot:                       20712.39 ft/s
    Fdot:                        5474.57 ft/s
    Gdot:                      -11217.76 ft/s
ndot/2 (drag):             0.00013996803 rev/day^2
nddt/6:                      8.16003E-10 rev/day^3
Bstar:                       2.37010E-05 1/Earth Radii
Elset #:                              15
Rev @ Epoch:               67.37361629105

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 0.25 drag multiplier:
```

```
STS-78
1 23931U 96036A   96176.75203356  .00013997  81600-9  23701-4 0   151
2 23931  39.0168 342.2858 0007440 300.2609 194.2405 16.01540739   678

Satellite: STS-78
Catalog number: 23931
Epoch time:      96176.75203356
Element set:      15
Inclination:       39.0168 deg
RA of node:       342.2858 deg
Eccentricity:    0.0007440
Arg of perigee:   300.2609 deg
Mean anomaly:     194.2405 deg
Mean motion:   16.01540739 rev/day
Decay rate:    1.39968e-04 rev/day^2
Epoch rev:             67
Checksum:             311
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

895. Re: Email Overload revisited

From: w4wwq@juno.com (Peter J Lascell)
Date: Mon, 24 Jun 1996 23:18:50 PST
To: aprssig@tapr.org
Message-ID: <19960624.234023.8015.1.W4WWQ@juno.com>
Rendered body type: text/plain

I second the need for making the senders address the automatic reply
address, rather than APRSSIG.

Paul's guess at 50 % reduction is realistic. I have seen it reduced on
other ListServers. You don't loose quality, but the quanity of useless
postings that attribute nothing to the SIG.

Pete W4WWQ
==
On Sun, 23 Jun 1996 23:07:27 -0500 (CDT) Paul Christenson
......"snip"....
>
>Personally, I think that the volume of this list would go down by half
>if the
>list address is not the default reply address. Aside from not getting
>the
>direct replies (which others silently benefit from), others are less
>likely to
>put their two cents in when it "costs three cents" (the effort of
>typing in the
>list address).

896. Re: [APRSSIG:2359] Making a map by hand

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 24 Jun 1996 23:51:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960624235015.14611L-100000@arctic>
Rendered body type: text/plain

On Mon, 24 Jun 1996, Chip wrote:

> Can someone send me the details of making a map by hand for (Mac/DOS)APRS?

APRSdos REPLY COMMENT: Read README\MAPS-HST.txt and MAPMAKIN.txt and MAPS.txt

de wb4apr@amsat.org

897. Re: [APRSSIG:2358] Re: Shuttle

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 25 Jun 96 00:36:51 -0400
To: <aprssig@tapr.org>
Message-ID: <199606250434.AAA06308@bridge.net>
Rendered body type: text/plain

>Our crew in Largo (W4GAC 6A SFL) listened each pass and heard nothing.
>

You did something wrong then. We heard them in the Keys abt 3PM. We heard them calling for contacts, but did not respond to anyone. Since there were several thousand people listening for them, I'd guess either the QRM was too great to hear anyone or (more likely) they had something set incorrectly. We tried all 5 uplinks and even simplex with no joy.

Steve KO4HD

---

898. Looking for maps for trip from Austin, Texas to Kingston, Ontario

From: Lansing Pugh <lansing@acadlp.com>
Date: Mon, 24 Jun 1996 23:01:28 -0500
To: aprssig@tapr.org
Message-ID: <31CF6498.2759@acadlp.com>
Rendered body type: text/plain

Hi APRS folks.

I'm traveling with family from Austin, Texas to Kington, Ontario, leaving this Wednesday morning. My plans for gathering up the necessary DOS APRS maps got messed up with all the fun I had on Field Day. Our itinerary looks like this:

```
                                                                  Kingston
                                                        Toronto
                                              Lansing

                                         Fort Wayne

                                   Indianapolis
                          Terre Haute
                  Effingham

                 Mt. Vernon

                 Carbondale

                   Cairo
             Sikeston

             Memphis
                                      +--------------------------------+

       Little Rock                    | Not for Navigational Purposes! |
                                      |             <g>                |
    Texarkana                         +--------------------------------+

Dallas

Waco
Temple

Austin
```

If you have any good maps that cover this route that you can send me (lansing@acadlp.com), I'd be most appreciative. Ditto on maplists.

A cursory inspection revealed I could use at least the following maps I've had trouble finding on the tapr ftp site:
IAILINMO.map
NYstate.map
NYNORTH.MAP
Montreal.map
ARLRock.map
TXDallas.map

Anyway, I hope to see your beacons along the route to keep me awake!

Thanks!

Lansing, KK5VK

```
--------------------------------------------------------------------
+-------+
| L P A | Lansing Pugh KK5VK
+-------+ lansing@acadlp.com   http://www.acadlp.com
          Austin, Texas 800 766-4666 fax:512 441-3393
```

---

899. TAPR 1.1.9 Firmware has GPS

From: schiers@ames.net
Date: Tue, 25 Jun 96 06:44:39 -0500
To: aprssig@tapr.org
Message-ID: <199606251147.GAA13584@tapr.org>
Rendered body type: text/plain

I got strictly negative replies regarding GPS support in TAPR's TNC2 firmware when I posted the question a week or two ago.

As it turns out, there is NMEA support in ver 1.1.9 which is what they are selling as of now, at least. I haven't tried it yet...but the addendum to the manual clearly has several commands that specifically address using the tnc in stand alone gps tracking mode, with examples.

The proms are 15 bucks from TAPR. 73,

hasan schiers, N0AN--
--
schiers@ames.net
--

900. Exiting TAPR GPS mode?

From: schiers@ames.net
Date: Tue, 25 Jun 96 07:26:22 -0500
To: aprssig@tapr.org
Message-ID: <199606251227.HAA15039@tapr.org>
Rendered body type: text/plain

Now that I have discovered that the 1.1.9 firmware has NMEA support for stand alone tracking (at least it sure looks like it), could someone tell me how to exit that mode once entered? The manual addendum is about as clear as mud. 73,

hasan schiers, N0AN--
--
schiers@ames.net
--

901. DXF to APRS Maps

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 25 Jun 1996 14:04:33 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested) (Receipt notification requested)
Message-ID: <06DA831CFF1F1006*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

Hello,

A while back I remember seeing a note on the availability of a conversion program to convert DXF files to APRS maps. Can anyone point me in the right direction?

Thanks,
Cardwell Smith, N4FOR

902. APRS Sarex score card (2) (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 25 Jun 1996 10:32:23 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960624233023.14611E-100000@arctic>
Rendered body type: text/plain

So far, no one has reported hearing SAREX packets. A few voice contacts have beeen confirmed. If you havent activated APRtrak yet, you haven't missed anything. So with 10 days or so to go, there is still lots of opportunity. Just bring up APRtrak and put it in SPACE mode to automatically plot the position of other APRtrak stations who successfully get a packet into W5RRR-1. The following logs what we have heard on the USA east coast and via Internet.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22  0915  1315z nothing
22  1050  1450z nothing
22  1224  1624z nothing
22  1400  1800z nothing
22  1530  1930z nothing
```

```
23  0915  1315z nothing
23  1050  1450z nothing
23  1225  1625z nothing
23  1405  1805z nothing
23  1535  1935z nothing
23        2110z Voice heard in Calif
24  0740  1140z nothing
24  0910  1310z nothing
24  1045  1445z nothing
24  1220  1620z nothing
24  1355  1755z voice reported in Texas
24  1530  1930z nothing
25  0735  1135z nothing
25  0905  1305z nothing
25  1045  1445z
```

I have a beta version of APRtrak 0.6. I need a few dedicated individuals who would like to beta test it. Please respond in private if you are interested...

de wb4apr@amsat.org

---

903. Re: [APRSSIG:2279] Re: control of remote TNC ?

From: Miami Network <0004818186@mcimail.com>
Date: Tue, 25 Jun 96 09:48 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <52960625144825/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

Be careful when using the KPC-3 in remote. I changed the command that turns the TX off and then had to go to the site to enable it again because the unit would not respond anymore!

73, Seymour

---

904. Re: [APRSSIG:2368] TAPR 1.1.9 Firmware has GPS

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Tue, 25 Jun 1996 10:26:56 -0400
To: aprssig@tapr.org
Message-ID: <31CFF730.55E2@codger.physics.duq.edu>
Rendered body type: text/plain

schiers@ames.net wrote:

> As it turns out, there is NMEA support in ver 1.1.9 which is what they are
> selling as of now, at least.

> The proms are 15 bucks from TAPR.

Do they have the 1.1.9 ROM image anywhere? Last I looked, the latest they had was the 1.1.8 ROMs for download.

With EPROMs and a burner available, I don't really care to pay the $15.
(Which probably barely covers expenses at TAPR.)

---

905. gps/mobile shows up as a Dot?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 25 Jun 1996 12:12:45 +0000
To: aprssig@tapr.org
Message-ID: <199606251617.MAA11262@hemisphere.neocomm.net>
Rendered body type: text/plain

Help;

My GPS mobile shows up as a dot on APRS. Wb4pan-14 running aprs on mobile. I added {k} to my <alt> B (beacon text) as the first 3 characters of btext. What am I missing here? I ran -9 once before and showed up as a car. Anyone got anymore ideas?

chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

---

906. uarts

From: "Robert Marley" <marley@lu.lincoln.edu>
Date: Tue, 25 Jun 96 12:31:34 +0100
To: aprssig@tapr.org
Message-ID: <marley.1186089934A@lu.lincoln.edu>
Rendered body type: text/plain

I HAVE A 486 COMPUTER WITH THE FAST UART'S IN THE SERIAL PORT. I HAVE HEARD THAT YOU CAN TURN THEM OFF, OR CONTROL THEIR INPUT. COULD SOMEONE LET ME KNOW WHERE IN SETUP IT IS OR IS IT IN WINDOWS SETUP? I AM USING GARDOWN TO TRY TO TALK TO MY 45 AND I HAVE HEARD THIS IS THE PROBLEM WHY IT WILL NOT TRANSFER DATA.

73 de N3OBQ
ROBERT MARLEY

---

907. uarts

From: "Robert Marley" <marley@lu.lincoln.edu>
Date: Tue, 25 Jun 96 12:31:44 +0100
To: aprssig@tapr.org
Message-ID: <marley.1186089944B@lu.lincoln.edu>
Rendered body type: text/plain

I HAVE A 486 COMPUTER WITH THE FAST UART'S IN THE SERIAL PORT. I HAVE HEARD THAT YOU CAN TURN THEM OFF, OR CONTROL THEIR INPUT. COULD SOMEONE LET ME KNOW WHERE IN SETUP IT IS OR IS IT IN WINDOWS SETUP? I AM USING GARDOWN TO TRY TO TALK TO MY 45 AND I HAVE HEARD THIS IS THE PROBLEM WHY IT WILL NOT TRANSFER DATA.

73 de N3OBQ
ROBERT MARLEY

---

908. Re: [APRSSIG:2374] gps/mobile shows up as a Dot?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 25 Jun 1996 13:02:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960625125942.15771H@arctic>
Rendered body type: text/plain

On Tue, 25 Jun 1996, Charles W. Davidson wrote:

> My GPS mobile shows up as a dot on APRS. Wb4pan-14 running aprs
> on mobile. I added {k} to my <alt> B (beacon text) as the first 3
> characters of btext. What am I missing here? I ran -9 once before and
> showed up as a car. Anyone got anymore ideas?

APRSdos REPLY COMMENT: You are not clear.

1) if its a stand-alone-tracker, then you put the {k} in the TNC Btext

2) If you are running APRS in the truck, then use the INPUT-MY command to tell APRS what symbol to use.

Do not use APRS to configure a stand-alone-tracker unless you use the OCT mode and disconnnect the TNC before exiting the OCT screen. Otherwise APRS will change several of the TNC commands that you just set up!

de wb4apr@amsat.org

---

909. MicroSloth Ex-Change

From: barrettd@crpl.cedar-rapids.lib.ia.us (David Barrett)
Date: Tue, 25 Jun 1996 13:01:04 -0500
To: aprssig@tapr.org
Message-ID: <199606251800.NAA27319@tapr.org>
Rendered body type: text/plain

First off thanks to everyone that responded; based on the variety of mailers everyone uses I found out a few items I will share, none of which includes a solution as of yet, but did garner a few sentences on my bug report sheet to Microsoft.

First off; what is being attached to the email is format data for exchange. When I reply to a message my reply is in a color different from the main message, that data get's sent in the winmail.dat attachment along with font selections, the to from header font format and other things that would only be of interest to other users of exchange. Yep you guessed it! Everyone else get's a bunch of crap.

Turning MIME off in the exchange setting only makes matters worse; the dat file then gets sent as uuencoded and puts it at the end of the email. Yep you guessed it! Now everybody get's a bunch of crap.

```
        There is no other option. Paul Christenson had the best reply, and I
quote;"(Personally, I think that it's a M$ plot to simply annoy the hell out
of everyone that uses a competitor's product.)." It appears that the
solution for now is NOT USE EXCHANGE; I see no way to shut off the use of
RTF (rich text format)
in Exchange; none whatsoever, so I'm writting a little nastygram in my bug
report and sending it off to gatesland.
        My apologies to all for the garbage and my thanks for the feedback;
and to those others using exchange, I loved your RTF it looked like internal
mail here in the office, send me a spreadsheet or a picture file sometime
(directly to me of course)
        Tounge in cheek as always and embarrased into using Eudora again......
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good
```

---

910. (no subject)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 25 Jun 1996 14:30:15 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960625142459.27193H-100000@arctic>
Rendered body type: text/plain

```
This is an unconfirmed, unofficial report:

A station on the west coast chatted with the crew on voice and they
indicated they would set up the PACKET SAREX "this evening". but also
that they enjoyed working voice over the US.

Maybe we will be lucky and hear some packets tomorrow (the 26th.)

In the meantime, non-US stations may soon see some packet activity.

de wb4apr@amsat.org
```

---

911. SKYWARN

From: steve <steve@muskoka.com>
Date: Tue, 25 Jun 1996 16:08:38 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960625200838.00665478@muskoka.com>
Rendered body type: text/plain

```
Hello All,

Is there anyone out there who is a member of SKYWARN  that could get in
touch with me at my e-mail address and not the sig, I would appreciate it.
What I would like to know is how things are going with the use of APRS and
WINAPRS for early warning and storm movement and the NWS..

I would like to make the use of APRS and WINAPRS available up here with our
CANWARN group and our weather service ENVIRONMENT CANADA as we are tied
directly to them. I need to know how you are setting up the program with NWS
and how you are approaching them if at all.

I certainly would like to hear from anyone involved and maybe we could throw
some ideas around...

Thanks in advance.....................73
```

---

912. Re: [APRSSIG:2371] APRS Sarex score card (2) (fwd)

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Tue, 25 Jun 1996 15:35:09 -0500
To: aprssig@tapr.org
Message-ID: <v02120d04adf5fd39f732@[138.87.2.109]>
Rendered body type: text/plain

```
on Date: Tue, 25 Jun 1996 09:49:42 -0500 (CDT)
Bob Bruninga said

>automatically plot the position of other APRtrak stations who successfully
>get a packet into W5RRR-1.  The following logs what we  have heard on the
>USA east coast and via Internet.

So, we should set our UNPROTO to W5RRR-1 ?  Not W5RRR ?
```

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP     IS Data Processing Equip Tech    k9orp@amsat.org
 EC McLean Co IL-CIPRUS,Inc-Pres CIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

913. STS-78 Rev 79 Orbital Data

From: kene@fs.loral.com (Ken Ernandes)
Date: Tue, 25 Jun 1996 09:08:16 -0400
To: grcc@ams.gsfc.nasa.gov, ststle@spacelink.msfc.nasa.gov, sarex@amsat.org,
        shuttle.keps@totrbbs.atl.ga.us, slnews@spacelink.msfc.nasa.gov,
        lundyjd@fafb.af.mil, rans7500@spacelink.msfc.nasa.gov
Message-ID: <m0uYXnD-003E2jC@fs.loral.com>
Rendered body type: text/plain

```
S T S - 7 8   O R B I T A L   D A T A

Below is the rev 79 State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector.  Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96177.50220601900
                        06/25/1996  12:03:10.600 UTC
EFG E:                           16703435 ft
    F:                           11793648 ft
    G:                            7599524 ft
    Edot:                        -7231.95 ft/s
    Fdot:                        18849.24 ft/s
    Gdot:                       -13321.02 ft/s
ndot/2 (drag):              0.00056056077 rev/day^2
nddt/6:                       1.30875E-08 rev/day^3
Bstar:                        9.44626E-05 1/Earth Radii
Elset #:                               16
Rev @ Epoch:               79.40652267579

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 1.0 drag multiplier:

STS-78
1 23931U 96036A   96177.50220602  .00056056  13088-7  94463-4 0   168
2 23931  39.0125 337.2535 0007372 303.6405 202.7072 16.01623851   797

Satellite: STS-78
Catalog number: 23931
Epoch time:      96177.50220602
Element set:       16
Inclination:       39.0125 deg
RA of node:       337.2535 deg
Eccentricity:    0.0007372
Arg of perigee:   303.6405 deg
Mean anomaly:     202.7072 deg
Mean motion:   16.01623851 rev/day
Decay rate:    5.60561e-04 rev/day^2
Epoch rev:              79
Checksum:              275

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org
```

---

914. STS-78 element set JSC-908 (25-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 25 Jun 1996 17:54:27 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606252254.RAA15619@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Tue, 25 Jun 1996 13:57:01 -0500
> Subject: STS-78 element set JSC-908 (25-Jun-96)
>
```

```
>
>
> STS-78
> 1 23931U 96036A   96177.72623539  .00123886  00000-0  21789-3 0  9087
> 2 23931  39.0153 335.7547 0007216 305.2012  54.8291 16.01650296   830
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96177.72623539   =     yrday.fracday
> Element set:     908
> Inclination:       39.0153 deg
> RA of node:       335.7547 deg
> Eccentricity:     .0007216
> Arg of perigee:   305.2012 deg
> Mean anomaly:      54.8291 deg
> Mean motion:   16.01650296 rev/day
> Decay rate:    1.23886E-03 rev/day^2
> Epoch rev:             83
> Checksum:             312
```

---

915. Re: [APRSSIG:2381] Re: APRS Sarex score card (2) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 25 Jun 1996 17:56:49 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606252256.RAA15676@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Larry Keeran sez:
>
> on Date: Tue, 25 Jun 1996 09:49:42 -0500 (CDT)
> Bob Bruninga said
>
> >automatically plot the position of other APRtrak stations who successfully
> >get a packet into W5RRR-1.  The following logs what we  have heard on the
> >USA east coast and via Internet.
>
> So, we should set our UNPROTO to W5RRR-1 ?  Not W5RRR ?

Correct.

gerry
```

---

916. Re: [APRSSIG:2374] gps/mobile shows up as a Dot?

From: ku0g@sprynet.com
Date: Tue, 25 Jun 1996 20:31:12 -0700
To: aprssig@tapr.org
Message-ID: <199606260331.UAA26242@m1.sprynet.com>
Rendered body type: text/plain

```
Your error was putting the {k} in the Beacon of APRS!  You put that into the
TNC's BTEXT as the first 3 characters.  That's intended for stand-alone
trackers!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

917. Big VHF Band Opening!!!

From: ku0g@sprynet.com
Date: Tue, 25 Jun 1996 20:35:33 -0700
To: aprssig@tapr.org
Message-ID: <199606260335.UAA27317@m1.sprynet.com>
Rendered body type: text/plain

```
It's going on right now as I write this!!!  Seeing Minnesota via VHF WIDE paths
here!
Just saw N0VXD over in Moberly, MO.
Also seeing KA9CFD in Illinois
KF0ZH in MN and all the Iowa boys!!!

Things are a-hoppin' tonight!!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

918. VHF Opening...

From: ku0g@sprynet.com
Date: Tue, 25 Jun 1996 20:42:24 -0700
To: aprssig@tapr.org
Message-ID: <199606260342.UAA28960@m1.sprynet.com>
Rendered body type: text/plain

```
Just received one-liner from KF0ZH who says he's seeing N4NEQ (Ralph) on VHF,
too...

WB0NOO in Hermitage, TN, just came across!
KC5JGV in Arkansas at 2241...
N5LED in Arkansas at 2243...
WD4CZDn in Tennessee at 2244...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

919. Re: [APRSSIG:2376] uarts

From: N8CHB <n8chb@tir.com>
Date: Wed, 26 Jun 1996 04:07:06 +0100
To: aprssig@tapr.org
Message-ID: <31D0A95A.45DD@tir.com>
Rendered body type: text/plain

```
Robert Marley wrote:
>
>  I HAVE A 486 COMPUTER WITH THE FAST UART'S IN THE SERIAL PORT. I HAVE HEARD
> THAT YOU CAN TURN THEM OFF, OR CONTROL THEIR INPUT. COULD SOMEONE LET ME
> KNOW WHERE IN SETUP IT IS OR IS IT IN WINDOWS SETUP?  I AM USING GARDOWN TO
> TRY TO TALK TO MY 45 AND I HAVE HEARD THIS IS THE PROBLEM WHY IT WILL NOT
> TRANSFER DATA.
>
>                      73 de N3OBQ
>                              ROBERT MARLEY

Hello Robert,

3 things to try.

1. run MSD.com from dos prompt, type "c" or click on com Ports.
2. from win95
   a. control panel
   b. modems
   c. properties
   d. connections
   e. port settings
   f. un-check "use FIFO buffers"

3. Registry editor
   a. My Computer
   b. (c) or drive where win95 is
   c. Win95 or whatever u call it
   d. find Regedit and run it
   c. optional - drag it to make a short cut
next
   HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Class\Modem

warning: u will now hve total control of all windows settings
so be careful or don't be careful.

73

Roger N8CHB
```

---

920. More on the VHF Opening...

From: ku0g@sprynet.com
Date: Tue, 25 Jun 1996 21:53:24 -0700
To: aprssig@tapr.org
Message-ID: <199606260453.VAA14602@m1.sprynet.com>
Rendered body type: text/plain

```
At 2350 CDT posted WJ8T-2 (Sam Nabkey here on the Sig!)
At 2352 CDT posted WA4GKM-5 and KE4EER-5 digis!
At 2233, WB8EYJ...
At 2348, KQ4TV-9 (GPS Mobile)
At 2337, KE4ROC-5 and KE4ROC at 2339...
```

At 2252, N4NEQ-3
At 2349, WA2VOI-2 (WX station in MN)
At 2353, N0MNB in MN

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

921. Re: [APRSSIG:2387] VHF Opening...

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 26 Jun 1996 04:31:09 -0700
To: aprssig@tapr.org
Message-ID: <31D11F7D.62A0@worldnet.att.net>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Just received one-liner from KF0ZH who says he's seeing N4NEQ (Ralph) on VHF,
> too...
>
> WB0NOO in Hermitage, TN, just came across!
> KC5JGV in Arkansas at 2241...
> N5LED in Arkansas at 2243...
> WD4CZDn in Tennessee at 2244...
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com

Hi and i seen the following on my map last night..

N0INX
N0BKB-1 AND -3
N0GGU-1
N0ZKK
KU0G-15 AND -8
KB0LRA
NV0O-15 GPS
N9PPJ-2
WB0QJB
N9LBG WX

--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

922. APRS

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 26 Jun 1996 05:34:04 -0700
To: aprssig@tapr.org
Message-ID: <31D12E3C.79A9@worldnet.att.net>
Rendered body type: text/plain

Again there must be a band opening on VHF. Seen and acked a message to
N9SZI in IL that's a 323 mile trip. Also so far seen:

KB0OAA
NN9LBG
N0BKB WX
N9PPJ-2
N0BKB WX

That's with my beams pointing NNW.

By the way are there any advantages to setting prime digi's to
WIDE,WIDE,WIDE. I have seen a lot of that lately here in the South East.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

923. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 26 Jun 1996 06:41:06 -0700
To: aprssig@tapr.org

Message-ID: <31D13DF2.48B7@worldnet.att.net>
Rendered body type: text/plain

Well it was running packet this morning when it passed over at 6:30:00
local time. I transmitted ans since i can't run both TX and RX with APRS
i just listened on 145.550. Wonder if anyone was watching?.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

924. Re: [APRSSIG:2390] Re: VHF Opening...

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 26 Jun 1996 06:50:55 -0500
To: <aprssig@tapr.org>
Message-ID: <199606261215.HAA07914@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> From: William Nolle <ke4eer@worldnet.att.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:2390] Re: VHF Opening...
> Date: Wednesday, June 26, 1996 4:38 AM
>
> ku0g@sprynet.com wrote:
> >
> > Just received one-liner from KF0ZH who says he's seeing N4NEQ (Ralph)
on VHF,
> > too...
> >
> > WB0NOO in Hermitage, TN, just came across!
> > KC5JGV in Arkansas at 2241...
> > N5LED in Arkansas at 2243...
> > WD4CZDn in Tennessee at 2244...
> >
> > Best 73,
> > Jim Duncan, KU0G
> > APRS--Kansas City Coordinator
> > EMail: ku0g@sprynet.com
>
> Hi and i seen the following on my map last night..
>
> N0INX
> N0BKB-1 AND -3
> N0GGU-1
> N0ZKK
> KU0G-15 AND -8
> KB0LRA
> NV0O-15 GPS
> N9PPJ-2
> WB0QJB
> N9LBG WX
>
> --
> Bill KE4EER
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

I woke up this morn to three pages of (H)eard and two pages of
(P)ositions.

--
KC5JGV
Marshall, Arkansas

925. Re: [APRSSIG:2373] Re: TAPR 1.1.9 Firmware has GPS

From: schiers@ames.net
Date: Wed, 26 Jun 96 07:52:02 -0500
To: aprssig@tapr.org
Message-ID: <199606261252.HAA20573@tapr.org>
Rendered body type: text/plain

In <719732@bbs.ames.net>, on 06/25/96 at 11:47 AM,
   aprssig@tapr.org said:

>schiers@ames.net wrote:

>> As it turns out, there is NMEA support in ver 1.1.9 which is what they a

```
>> selling as of now, at least.

>> The proms are 15 bucks from TAPR.

>Do they have the 1.1.9 ROM image anywhere?  Last I looked, the latest
>they had  was the 1.1.8 ROMs for download.

>With EPROMs and a burner available, I don't really care to pay the $15.
>(Which probably barely covers expenses at TAPR.)

No image yet....they have to make SOME money, or our dues go up.

73,


hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

926. vhf openings

From: N8CHB <n8chb@tir.com>
Date: Wed, 26 Jun 1996 12:54:34 +0100
To: aprssig@tapr.org
Message-ID: <31D124FA.54CD@tir.com>
Rendered body type: text/plain

```
I hve a 14 el horz yagi that can be set-up on aprs.
It's experimental home brew wit very narrow bandwidth.
Anyone interested in a test on vhf?
pls e-mail direct.

73

Roger n8chb@tir.com
```

927. Re: [APRSSIG:2390] Re: VHF Opening...

From: ku0g@sprynet.com
Date: Wed, 26 Jun 1996 07:11:43 -0700
To: aprssig@tapr.org
Message-ID: <199606261411.HAA10230@m1.sprynet.com>
Rendered body type: text/plain

```
>From what I can gather the band opening started here around 2100 and was still
going strong at 0100 when I my eyes finally got too heavy to stay open!  I'll be
posting my backup logs later this a.m.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

928. Re: [APRSSIG:2395] vhf openings

From: ku0g@sprynet.com
Date: Wed, 26 Jun 1996 07:15:16 -0700
To: aprssig@tapr.org
Message-ID: <199606261415.HAA11047@m1.sprynet.com>
Rendered body type: text/plain

```
N8CHB:  Your antenna is OBVIOUSLY working!  I plotted you here in Kansas City
sometime after 0100 CDT during the big VHF opening last night!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

929. VHF Band Opening Last Night

From: ku0g@sprynet.com
Date: Wed, 26 Jun 1996 07:18:31 -0700
To: aprssig@tapr.org
Message-ID: <199606261418.HAA11977@m1.sprynet.com>
Rendered body type: text/plain

```
Attached herewith is the backup file I made this morning at 0918 CDT.
Everything on this list was received on 145.79 MHz during last nights band
opening!
```

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

<---- Begin Attached File ---->

```
begin 644 BK260918.BK
M8RP@,S@N-S0Y-B`L(#DP+C$Y,#$S("P@-C0@#0IL+$M5,$<M."`@("`R,3(Q
M,C,@0#(Q,C$R,R]!4%)3(#<N-F4@*&)E=&$I(&]N(&QI;F4N#0IL+%=",$Y/
M3RTQ,B`R-3(Q,C(@36%R:R=S($IE97`N+BY.87-H=FEL;&4L5$X-"FPL04$X
M4T8@("`@(#(U,C$R-B!`,C8P,C(V>E!(1S,Q.3`O5VEN05!24R`@+3$P,"T\
M-#$P/@T*;"Q.,%%60RTQ,2`@,C4R,3,Q($Y%5PT*;"Q.,$E.6"`@("`@,C8P
M.#,T($`R-3(Q,S5Z4$A',#`P,"]7:6YD;W=S($)E=&$@5F5R<VEO;B`M,#0R
M+3PU,C`^#0IL+$M&-$%*3RTQ("`R-3(Q-3@@4$A'-3,S,"]7241%+5)%3$%9
M+D9I<W1F:6=H=&5R<R!5;FET960@3F%S:'9I;&QE#0IL+$M1-%16+3D@("`R
M-3(R,#,@3D57#0IL+$M",$U142`@("`R-3(R,#0@3D57#0IL+%=!-E)46"`@
M("`R-3(R-38@0#(U,C(Q-"]02$<W,38P+T)I;&P@+2!.96%R($QA;F5T="P@
M06P-"FPL3C!-3D(@("`@(#(U,C(Q-R!.,$U.0B]2(%=)1$4O1"!.,$U.0BTQ
M+T(-"FPL2T(P3T%!("`@(#(V,#`S.2!N,'9X9#H@07)E('=E(&AA=FEN9R!F
M=6X@>65T/PT*;"Q..4Q"1R`@("`@,C8P,3,S($`R,C$T,#`O3&%R<GDL($5D
M=V%R9'-V:6QL92P@=W=W+F5Z;"YC;VTO?FQM:6QL97(-"FPL3C!66$0@("`@
M(#(V,#(Q.2`_5U@_#0IL+%=".$592B`@("`R-3(R,S,@0#(S,T,C$R-R]02$<U
M-C<P+U!A=6P@:6X@1F%I<F9I96QD($=L861E(%1.#0IL+$XU5TI"("`@("`R
M-3(R,S0@0#(U,#@T.2]$879E(&EN($]L=F5Y+$%R:V%N<V%S+@T*;"Q+1C!:
M2"`@("`@,C8P,S0T($`P-C(P,#%Z+2T@5&AE(%1W:6X@0VET:65S($=A=&5W
M87D@=&\@,30U+C<Y,"`M+0T*;"Q+0C!50D<@("`@,C4R,C,V($`Q.3$P,S(O
M05!24R`W+C9B(&]N(&QI;F4N#0IL+%=",$Y/3R`@("`R-3(S,S<@0#$W,3DP
M,R]!4%)3(#<N-B`@(&4M;6%I;"P@;6%R:RYE;F1I8V]T=$!N87-H=FEL;&4N
M8V]M#0IL+$M#-4I'5B`@("`R-3(R,SD@4&EN9R$@*'1E<W0@<&MT(%9)02!+
M0S5*1U8M,3`L5TE$12Q7241%*0T*;"Q.-4Q%1"`@("`@,C4R,C0P($`R-3(R
M-#(O3F5W57-E<@T*;"Q71#1#444@("`@,C4R,C0P($`Q.3`T,C9Z2V5N+"!#
M<F]S<W9I;&QE+%1E;FYE<W-E90T*;"Q+,%!&6"TX("`@,C4R,C0W(%!W<C8R
M-S`O5TE$12XN+D-H97-T97)F:65L9"P@34\-"FPL3C1114$@("`@(#(V,#$S
M.2!`,C4Q-C4T+TIO:&X@:6X@2VYO>'9I;&QE+"!43BX@(%4M,C`P,`T*;"Q7
M031'2TTM-2`@,C8P-3`P(%!(1S<S-C`O5TE$12U214Q!62`;6T0N+BY,;V-A
M=&5D(&]N($AI;F-H($UT($`@,S`Q,"!F=`T*;"Q.03!2+3D@("`@,C8P-3(V
M(%=I;D%04E,-"FPL3C!:2TL@("`@(#(U,C,Q,2!`,3@R,C0W+T%04E,@-RXT
M92!O;B!L:6YE+@T*;"Q+0C!-1D8@("`@,C8P.#`V($`R-3(Q-3<O005!24R`W
M+C0@;VX@;&EN92X-"FPL2T(P55I1("`@(#(V,#8R,B!`,C4R,C4W+T%04E,@
M-RXV92`H8F5T82D@;VX@;&EN92X-"FPL2T(P4E5:("`@(#(U,C,Q,2!`,C8P
M-#$P>E!(1S`P,#`O5VEN05!24R`H3F]T(%)E9VES=&5R960I("TQ,#`M/#4S
M,#X-"FPL2T<P1%<@("`@(#(V,#0S.2!`,C`P.3$Y+T%04E,@-RXV9"!O;BUL
M:6YE+@T*;"Q.5C!/("`@("`@,C8P-C4Y($`R,C`P,S$O005!24R`W+C9E("AB
M971A*2!O;B!L:6YE+@T*;"Q7,$)84B`@("`@,C8P,C`W($`R-#$S-3<O-RXR
M8B!$879E;G!O<G0@4F%D:6\@06UA=&5U<B!#;'5B("AC;'5B('-T871I;VXI
M#0IL+%=!,E9/22`@("`R-C`P-30@0#(X,C$U,7I?4$A',S,U,"]214Q!62!3
M="Y!;G1H;VYY(%=8(%M%3C,U:F%=#0IL+%=*.%0M,B`@("`R-3(S-#8@5THX
M5"TR+U(@5TE$12]$($140D)3+T(@3E,X5BTQ+TX-"FPL3CE04$H@("`@(#(V
M,#@S."!0=W(V-3DU+U=)1$4N+BY%9'=A<F1S=FEL;&4L26P-"FPL2T0T44E!
M("`@(#(U,C,U."!.15<-"FPL5T(W5D1.("`@(#(V,#`T-2`O0,C4Q-C0W+U!(
M1S8R.#@O4D].>B!15$@N+B`@05!24R!V-RXV9"XN#0IL+%<W3%53("`@("`R
M-C`Q,SD@($5A<W1E<FX@55-!($YO<G1H("T@4V]U=&@@2$8@1&EG:2X-"FPL
M3CE04$HM,B`@(#(V,#@S,"!`,38R,#(X+R!-87)T>2P@161W87)D<W9I;&QE
M+"!);"X@;6%R='ES0&5Z;"YC;VT-"FPL3C!15D,M,2`@(#(V,#8T,B!02$<U
M-#8P+U=)1$4M4D5,05D@:6X@1F%R:6)A=6QT+"!-3@T*;"Q.,%%60R`@("`@
M,C8P,3$W($`P-#$U,3@O005!24R`W+C5C(&]N(&QI;F4N("A2:6-E($-O=6YT
M>2!3:WE787)N+T%215)4*0T*;"Q.,$Q21B`@("`@,C8P.#$Y($`R-#$Y,#0O
M(%!A=6PL($]T=&%W82P@2U,N+BXW,R$-"FPL5T0P1%A/("`@(#(V,#8R-2!`
M,#<Q,#4Y+T%04E,@-RXR9"!O;B!L:6YE+@T*;"Q72CA4+3$@("`@,C8P,#,V
M(%!(1S,W,S`O5TE$12U214Q!62!"65)/3B!#14Y415(L($U)+@T*;"Q..%9,
M3B`@("`@,C8P,#,Y($XX5DQ.+U(@4D5,05DO1"!..%9,3BTR+T(-"FPL3CE3
M6DD@("`@(#(V,#,R-2!`,C8P,3$P+U!(1S(Q-#`O3F5W57-E<@T*;"Q+.4]2
M4"`@("`@,C8P,3`Q($`R-3(S-#,O36%N=6%L(%=8(&5N=&5R960@5'5E<V1A
M>2!M:61N:6=H=`T*;"Q70C!12D(@("`@,C8P,3`T($`Q-3(S,#8O4G5S='DL
M(%-T+B!#:&%R;&5S+"!-;RX-"FPL3CA#2$(@("`@(#(V,#$S,2!`,#DP-3`W
M+R!2;V=E<B`M(&XX8VAB0'1I<BYC;VT-"FPL2T(P5$9%("`@(#(V,#(R,2!`
M,C8P,C(T+T%04E,@-RXV8B!O;B!L:6YE+@T*;"Q71#A%2D,@("`@,C8P,3$X
M($`R-3`V-#4O4F%N9'D@,3@@5VAE96P@05!24PT*;"Q70CE414$M,B`@,C8P
M,3$Y($UA8V]M8B!2861A<@T*;"Q!0C1+3BTQ("`@,C8P,3$Y("\R-C`R,C`O
M5#`W,2]2,#`P+U`P,#`O0C`Q-R](.34N-E]7>%-T;B`@-S,A#0IL+$Y-,$(@
M("`@("`R-C`Q,C,@240@4W1R:6YG#0IL+$XT3D51+3,@("`R-C`U,#(@4$A'
M-3DW,"]7241%+5)%3$%9($%N9')E=W,@3D,@($AI($MI<"$-"FPL04(T2TXM
M,B`@(#(V,#$S,R!!0C1+3BTR+U(@4D5,05DO1"!7241%+TX-"FPL2T$P4D1%
M("`@(#(V,#$S."!`,30Q.30X+T%04E,@-RXV(&]N(&QI;F4N#0IL+$%"-$M.
M("`@("`R-C`Q,SD@04(T2TXO4B!214Q!62]$($=!5$4O1R!&54)!4B].#0IL
M+$XR0UI&("`@("`R-C`Q-#$@0#(V,#<S-WI2:6-H(&XR8WIF0&UA9V<N;F5T
M($IU<&ET97(@1DP@1T%410T*;"Q7-4Y)("`@("`@,C8P.3`Y($`R-#$Q-3(O
M05!24R`W+C1E(&]N(&QI;F4N#0IL+%=6,%0M,3`@("`R-C`X,SD@0#`T,C,T
M-2]314$$2U(@("`@($%04E,@=C<N,F$-"FPL3C!'1U4@("`@(#(V,#DP.2`O
M,C<Q.#$S+U0P-C<O4C`P,"]0,#8Q+U4M24DH875T;RD-"FPL2U4P1RTQ("`@
M(#(V,#$U-2!+53!'+3$O4B!214Q!62]$($=!5$4O1R!!4%)32T,O3@T*;"Q7
M,$)84BTR("`@,C8P,C,T("\R.3$Y,S<O4$A'-S(S,"\@3E=3($Y%6%)!1"!S
M:71E($`@1&%V96YP;W)T#0IL+$U#22`@("`@("`R-C`Y,34@2U4P1RTR($%0
M4E,M2T,@5U@@4VET92![34-)?2`H52U)22!296UO=&4I($YO($1I9VDA#0IL
M+$XT3D51("`@("`R-C`R-#(@0#(V,#,U-B]4,#8X+U(P,#`O4#`P,"]5+4E)
M*&%U=&\I#0IL+$M",%-36B`@("`R-C`Y,#<@0#(V,#<T-"]!4%)3(#<N-F4@
M;VX@;&EN92X-"FPL2T4T1452+34@(#(V,#,P."!02$<W-C8P+U=)1$4@+2!2
M14Q!62`@2'5N='-V:6QL90T*;"Q.,$='52TQ("`@,C8P.#0R(%!W<C8S-3`O
M5TE$12U214%,62`M(%=E<W0@;V8@1W)A:&%M+"!!-;PT*;"Q+1#1$3%0M-R`@
M,C8P-3`V(%!!(1S4T.#,O5TE$12U214Q!62`@3&ET:&]N:6$@1V$N#0IL+$M%
M-$5%4B`@("`R-C`U,#,@3D57#0IL+$XP0DM"("`@("`R-C`U,S4@0#(V,#3`S
M,'I02$<P$<P+#`$<P+#`$<P+#`$<P+#`$<P+#`$<P+#`$<P+#`$<P+#`$<P+#`$<P
```

```
M,#DS,S<N,C!76E!(1S`P,#`O5VEN05!24R`H3F]T(%)E9VES=&5R960I("TQ
M,`T*<"Q+0C!/04$@("`@,C8P.3`S($`R-C$T,#1Z,SDR,"XQ-DXO,#DR,C0N
M-#!7>5!(1S8Q.38O5VEN05!24R`@+3$P,"T\-3(P/@T*<"Q70C=61$X@("`@
M,C8P,#0U("\R-3$V-#<O,S0S-BXV,$XO,#@V,S(N,C)7+U!(1S8R.#@O4D].
M>B!15$@N+B`@05!24R!V-RXV9"XN#0IP+$Y6,$\@("`@("`R-C`S,C4@0#(V
M,#(R-B\S.#0Y+C0T3B\P.30R,RXP,E<M0V%S<R!#;RXL($U/#0IP+$XY4%!*
M+3(@@("`R-C`X,S`@0#`R,3,S,"\S.#0X+C@V3B\P.#DU-RXQ.%<M4$A',A',S$S
M,"\S,"!-971E<BT^5DA&($=A=&4@*&]N92!W87DI#0IP+%=*.%0M,B`@("`R
M-C`P-3,@0(2HJ*BHJ*B\T,C4X+C$P3B\P.#4S.2XU.%<<C<&AG,S8P,"\@1&]W
M;G1O=VX@1&EG:7!!E871E<B!`($)72`T*<"Q-0TD@("`@("`@,C8P.3$U("$J
M*BHJ*BHO,SDQ.2XW-4XO,#DT-#(N,#-77S`Y,"\P,#`O5#`W.2,P,#@P+U`N
M+BXO52U)22AR96UO=&4I#0IP+$M",%5:42`@("`R-C`V,C@O0#(V,#8R,R\S
M.3(S+C0U3B\P.30S.2XT,5<<^0FEL;"!I;B!T:&4@;6]Q8E(0T*<"Q7-4Y)
M("`@("`@,C8P.#4U($`R-C`X-3(O,S@O,#DT,3DN,S5735$&;QO
M(&9R;VT@3&5T+"!!-3PT*<"Q75C!4+3$P("`@,C8P.3$U($`R-C8P.3$U("`P
M-#`Q-3@O,S@O,#DT,3DN,S<N,#$7+5!(1S8Q,S`O,#DX-3(O,3`P,2\P,$PP
M:6YT;R!A('1R86EL97(@<&%R:R!A;F0@=`T*82Q.,%981"`@("`@.EEE<RP@
M22=M(&=O:6YG(&)A8VL@=&\@0TU352X@($D@9V%T(&%B;W5T(#,@<V5M97-T
M97)S(&QE9G0-"F$L/DXP5EA$("`@(#I/2R!O;B!#35-5+B!7;"!S87D@-S,@
M9F5R(&YO=RX@3&L@9G=D('1O(&UE971I;F<@=2X@8VEA;RXN>S<-"F$L5THX
M5"TQ("`@(#(V,#`S-B!02$<S-S,P+U=)1$4M4D5,05D@0EE23TX@0T5.5$52
M+"!-22X-"F$L3CE04$HM,B`@(#I(96QL;R!*:6TA($=O;V0@=&\@<V5E('1H
M92!+0R!S=&%T:6]N<R!O;B!T:&4@;6%P+"!A9V%I;@T*82P^3CE04$HM,B`@
M.GEA+"!B:6<@;FET92!H=6@_>S@-"F$L3C!15D,@("`@(#(V,#`S-R!!`,#0Q
M-3$X+T%04E,@-RXU8R!O;B!L:6YE+B`H4FEC92!#;W5N='D@4VMY5V%R;B]!
M4D525"D-"F$L3CA63$X@("`@(#(V,#`S.2!..%9,3B]2(%)%3$%9+T0@3CA6
M3$XM,B]"#0IA+$M",$]!02`@("`R-C`P,SD@;C!V>&0Z($%R92!W92!H879I
M;F<@9G5N('EE=#\-"F$L3C!,4D8@("`@(#(V,#`T,2!`,C0Q.3`T+R!0875L
M+"!/=')A=$$L($M3+BXN-S,L A#0IA+$XP5EA$("`@("`R+C`P-3(@4&EN9R$@
M*'1E<W0@<&MT(%9)02!214Q!62D-"F$L5T$R5D])("`@(#(V,#`U+"!`,"!C@R
M,34Q/>E]02$<S,S4P+U)%3$%9+T%!4$Q!;GD@5U@@6T5.5%-"+2S5J85T-"F$L
M3E8P3R`@("`@(#(V,#`U."!`,"!C(P,#,Q+T%04E,@-RXV92`H8F5T82D@;VX@
M;&EN92X-"F$L2SE/4E`@("`@(#(V,#$P,2!`,C4R,S0S+TUA;G5A;C5A;"!!76"!E
M;G1E<F5D(%1U97-D87D@;6ED;FEG:'0-"F$L3CE36DD@("`@(#(V,#$P,B!!`
M,C8P,3$P+U!!(1S(Q-#`O3F5W57-E<@T*82Q+1C!:2"`@("`@,C8P,3`S(%$`P
M-C(P,#%Z+2T@5&AE(%1O(&-E;W)K96@=&\@,30U+C<Y+"`@("`@,C8P,3`S(%$`P
```

The same fenced dump continues with the printed lines unchanged:

```
M:6YT;R!A('1R86EL97(@<&%R:R!A;F0@=`T*82Q.,%981"`@("`@.EEE<RP@
M22=M(&=O:6YG(&)A8VL@=&\@0TU352X@($D@9V%T(&%B;W5T(#,@<V5M97-T
M97)S(&QE9G0-"F$L/DXP5EA$("`@(#I/2R!O;B!#35-5+B!7;"!S87D@-S,@
M9F5R(&YO=RX@3&L@9G=D('1O(&UE971I;F<@=2X@8VEA;RXN>S<-"F$L5THX
M5"TQ("`@(#(V,#`S-B!02$<S-S,P+U=)1$4M4D5,05D@0EE23TX@0T5.5$52
M+"!-22X-"F$L3CE04$HM,B`@(#I(96QL;R!*:6TA($=O;V0@=&\@<V5E('1H
M92!+0R!S=&%T:6]N<R!O;B!T:&4@;6%P+"!A9V%I;@T*82P^3CE04$HM,B`@
M.GEA+"!B:6<@;FET92!H=6@_>S@-"F$L3C!15D,@("`@(#(V,#`S-R!!`,#0Q
M-3$X+T%04E,@-RXU8R!O;B!L:6YE+B`H4FEC92!#;W5N='D@4VMY5V%R;B]!
M4D525"D-"F$L3CA63$X@("`@(#(V,#`S.2!..%9,3B]2(%)%3$%9+T0@3CA6
M3$XM,B]"#0IA+$M",$]!02`@("`R-C`P,SD@;C!V>&0Z($%R92!W92!H879I
M;F<@9G5N('EE=#\-"F$L3C!,4D8@("`@(#(V,#`T,2!`,C0Q.3`T+R!0875L
M+"!/=')A=$$L($M3+BXN-S,L
```

```
M1$4@1$E'22!/3DQ9("T@0D5$1D]21"P@24]700T*82Q71#!$6$\@("`@,C8P
M-C(U($`P-S$P-3DO05!24R`W+C)D(&]N(&QI;F4N#0IA+$XP04X@("`@("`R
M-C`V,SD@0#(V,3$T,GI4,#8U+U(P,"]0,#`P+T(P,C`O1S`P,R\@52TR,#`P
M*&%U=&\I#0IA+%=6,%0M.2`@("`R-C`V-#@@5U8P5"TY+U(@5TE$$12]$(%)%
M3$%9+TX-"F$L3C!,4D8M.2`@(#(V,#<P-"!!`,C4P-S0X+R!,:71T;&4@4F5D
M($9O>"!O;B!T:&4@<')O=VPN+BX-"F$L5T$Q4$A9+3,@(#(V,#<Q."!!'051%
M5T%9(%LS,$T\+3XR35T@3E(@0D]35$].(%<Q4]`5T$Q4$A9+DU!#0IA+$XY
M4%!*+3(@("`R-C`X,S`@0#$V,C`R."\@36%R='DL($5D=V%R9'-V:6QL92P@
M26PN(&UA<G1Y<T!E>FPN8V]M#0IA+$XT3D51+3(@("`R-C`X,S$@4$A'.#0V
M,"]7241%%+5)%3$%9(&]N(%-W96%T($UT+B-87)I971T82!'00T*82P^3D$P
M4BTY("`@.D=R965T:6YG<R!.5U,@4&5R<V]N(<RX@3FEC92!T;R!#(%4@;VX@
M05!24RX@2&]P92`R(&AV($$5!6"!O;B!L:6YE>SD-"F$L/DY!,%(M.2`@(#IT
M;V\@:6X@;F5X="!F97<@=V5E:W,N+GLQ#0IR+$XY4UI)/E!02BTR.F%T=&5N
M=&EO;BY[,@T*<BQ.,%981#Y'+$T!03I997,L('1H:7,@:7,@=&5R='D@;F5A
M="`A>S4-"G(L5$E-12`J(%1)0TLZ,#8M,C8M,3DY-B-B`P,3HP,#HP-T*<BQ.
M.5-:23Y04$HM,CI4:&5Y(&AA=F5N)W0@<VAO=V5D('5P(&]N(&UI;F4@>65T
M+GLS#0IR+$XP4E5A$/E!02BTR.DD@:G5S="!S=&%R=&5D('!L87EI;F<@<@87)O
M=6YD('=I=&@@87!R<R!T;VYI9VAT+GLQ#0IR+$XP4E5A$/E!02BTR.DD@=&AI
M;FL@<V\N("!!(&9R:65N9"!O9B!M:6YE(&=O=2!A(&=P<R!A;F0@<W1A<G1E
M9"!P;&%Y:6YG(&]N(&%P<G--[#0IR+$XP4E5A$/E!02BTR.FAE("=A;G1E9"!M
M92!T;R!S964@:68@:&4@=V%S(&=E="('-O($D@<V5T(&UY('-T(&UY("'-T
M871I;VX@=7![,@T*<BQ.-5!02BTR.E981#I0871H(&UU<W0@8F4@8F]O9"P@
M9V5T=&EN9R!Q=6EC:R!A8VVMS(&9R;VT@=2Y[,@T*<BQ.,%981#Y04$HM,CIF
M;W(@:@:70@=&\@9&\\N(@!"965N(&&$@<`')E='1Y(&=R96%T(&=O;V0@;7D@=6%!
M87(N>S0-"G(L3CE04$HM,CY96V92!A($=R:6=A;B!F<F]M(%-%7!R:6YG('1O
M-"%(L(&-A;B=T('=A:70@=&ET+GLT#0IR+$XP4E5A$/E!02BTR.E=E(&!L
M.;&P@;7D@8F5F5A;2!I<R!P;VEN=&5D('1O+"!R8V%S(&]N92!F<F]M(%-%A
M.;F1S(&ES('!O:6YT0@871T+"T@<V]U<7)T92!T;R!/9F9I8V4N>S4-"G%U=
M>S8-"G(L3C!66$0^4%!*+3(Z22!B970@9F]L:W,@87)E(&QI:V4@=&AI<R!%
M9"!H96QD($=R:7,@=V%S(&)I9R!L:71T;&4@:&]U<V4N+B!S+"!G;TE&#
M9"!I;B!B86YD>2!P;&%C92!H;W<@8F]W;"!N87)R;W<@=V%Y('1O(&%)
M6$0^4%!*+3(Z=&AE&(&EM<&5R:6]R('1O(&AO;64@+7![-0IR+$XP5E5D9C871
M9"!I;B!B86YD>2!P;&%C92!H;W<@8F]W;"!N87)R;W<@=V%Y('1O(&%)
M344@*B!424-+.C`V+3(V+3$Y.38@,#(Z,#`Z,#0-"G(L3C!66$0^4%!*+3(Z
M2$5,3$\@1D]214E'3B!35$%424].+@T*<BQ.,%981#Y04$HM,CI4:&%T(&%R
M,"PT*<BQ.,%981#Y04$HM,CIT:&%T(&%R92!B=&ET92!T;R!B92!F;W5N9"!O
M4CXY4T4M).D)I;F=O(2!I;B!S;W5T:&5R;B!B;W)D97(@:6X@9&%R:R!A<')S
M15(^-%!(33I(96QL;R`[+2E[-2T*<BQ.,%981#Y04$HM,CI(96QL;R!H;W<@
M8(#`V+C`P+C`S#0IR+$XP4E5A$/E!02BTR.E=E(&!L;W)E;&QA(&)O=6YD('!
M"F@L5$E-12`@`@("`@("P@,$@(#$$R("`Q+R`@,"@(#$$U("`Q-B`@,3<@(#$X
M("`Q.2`@,C`@(#(Q("`R,B`@,C,@(#(T("`R-2`@,C8@(#(W("`R."`@,CD@
M(#@@(#D@+"`Y.3D-"F@L5T(P3D]/+3$$R("P@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,"`@,"`@,2`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`L(#DY.0T*:"Q!03A31B`@("`@+"`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`Q("`P("`P("`Q("`P("`P("`P("`P("`P("`P("`P("`Q
M("`P("P@.3DY#0IH+$XP459#+3$Q("`L(#`@("`@,"`@,"`@,"`@,"`@,"`@
M(#`@(#`@(#`@(#0@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@+"`Y.3D-"F@L3C!)3E@@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,B`@-R`@-B`@,3`@(#,@(#(@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@(#$$@
M(#`@(#`@(#`@(#(@(#`@(#`@(#`@(#`@(#`@(#$@(#`@(#`@(#`@(#`@(#`@
M+"`Y.3D-"F@L2S!01E@M."`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,2`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`L
M(#DY.0T*:"Q.-%%%02`@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`R("`V("`V("`Q("`P("`P("`P("`P("`P("`P("`P("`P("P@
M.3DY#0IH+%=!-$=+32TU("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#,@(#0@(#$@(#(@(#`@(#`@(#,@(#$@(#`@(#`@(#`@(#`@+"`Y
M.3D-"F@L3D$P4BTY("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@-2`@-"`@,R`@,"`@.2`@-2`@,2`@,2`@,"`@,"`@,"`@,"`L(#DY
M.0T*:"Q.,%I+2R`@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`Q("`R("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("P@.3DY
M#0IH+$M",$U&1B`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#$R("`S("`R("`Q("`T("`R("`R("`P("`R("`Q("`S("`P("P@.3DY
M#0IH+$M",%5:42`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#(X("`Y.2`@,C(@(#(V("`T,R`@,S$@(#(S("`Q,R`@.2`@,"`@,"`@
M,"`L(#DY.0T*:"Q+0C!255H@("`@+"`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`V("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("P@.3DY#0IH+$M',$17("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#<@(#(@(#(@(#(@(#0@(#0@(#`@(#`@(#$@(#`@(#`@
M+"`Y.3D-"F@L3E8P3R`@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@-B`@,R`@,"`@,"`@,2`@,"`@,"`@,R`@,"`@,"`@,"`L
M(#DY.0T*:"Q7,$)84B`@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`S("`U("`Q,2`@-B`@-2`@,R`@,B`@,"`@,"`@,"`@,"`L
M(#DY.0T*:"Q703)63TD@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`V("`T("`Q,"`@,"`@,2`@,2`@,"`@,"`@,"`@,"`@,"`L
M(#DY.0T*:"Q72CA4+3(@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`X("`X("`P("`P("`P("`P("`P("`P("`P("`P("`P("P@
M.3DY#0IH+$XY4%!*("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#$@(#`@(#$Q("`P("`S("`P("`P("`P("`P("`S("`P("P@
M.3DY#0IH+$M$-%%)02`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#4@(#(Q("`P("`P("`P("`P("`P("`P("`P("`P("`P("P@
M.3DY#0IH+%="-U9$3B`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#$@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y
M.3D-"F@L5S=,55,@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,2`@,R`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`L(#DY
M.0T*:"Q..5!02BTR("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`Q,"`@,30@(#`@(#`@(#`@(#`@(#`@(#`@(#(@(#`@+"`Y
M.3D-"F@L3C!15D,M,2`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,C,@(#,S("`Q,B`@.2`@-2`@,2`@,R`@,"`@,"`@,"`L
M(#DY.0T*:"Q.,%%60R`@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`U("`T("`P("`P("`P("`P("`P("`P("`P("`P("P@
M.3DY#0IH+$XP3%)&("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#4@(#0@(#8@(#`@(#`@(#`@(#$P("`Q,B`@,B`@,"`L
M(#DY.0T*:"Q71#!$6$\@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`U("`Q-"`@,B`@-"`@,"`@,B`@,2`@,"`@,"`@,"`L
M(#DY.0T*:"Q72CA4+3$@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`R("`P("`P("`P("`P("`P("`P("`P("`P("`P("P@
M.3DY#0IH+$XX5DQ.("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y
M.3D-"F@L3CE36DD@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,2`@-"`@,"`@,2`@,"`@,"`@,"`@,"`@,"`@,"`L(#DY
M.0T*:"Q+.4]24"`@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`R("`P("`P("`P("`P("`P("`P("`P("`P("P@.3DY
M#0IH+%=",%%*0B`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y.3D-
M"F@L3CA#2$(@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@-2`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`L(#DY.0T*
M:"Q+0C!41D4@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`T("`R("`P("`P("`P("`P("`P("`P("`P("P@.3DY#0IH
M+%=$.$5*0R`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y.3D-"F@L
M5T(Y5$5!+3(@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,2`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`L(#DY.0T*:"Q!
M0C1+3BTQ("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`R("`P("`P("`P("`P("`P("`P("`P("`P("P@.3DY#0IH+$Y-
M,$(@("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#(@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y.3D-"F@L3C1.
M15$M,R`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,R`@,"`@,"`@-R`@,2`@,"`@,"`@,"`@,"`L(#DY.0T*:"Q!0C1+
M3BTR("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`Q("`P("`P("`P("`P("`P("`P("`P("`P("P@.3DY#0IH+$M!,%)$
M12`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y.3D-"F@L04(T2TX@
M("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,B`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`L(#DY.0T*:"Q.,D-:1B`@
M("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`Q("`P("`P("`P("`P("`P("`P("`P("`P("P@.3DY#0IH+%<U3DD@("`@
M("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#(@(#D@(#0@(#$Q("`Q,"`@-R`@."`@.2`@,B`L(#DY.0T*:"Q75C!4+3$P
M("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`R("`U("`Q,"`@,3(@(#@@(#D@(#$P("`U("`Q("P@.3DY#0IH+$XP1T=5
M("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#,@(#8@(#8@(#D@(#4@(#,@(#(@(#(@(#(@+"`Y.3D-"F@L2U4P1RTQ
M("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@.2`@,3$@(#<@(#(X("`R.2`@-"`@,3`@(#$W("`S("P@.3DY#0IH+%<P
M0EA2+3(@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y.3D-"F@L34-)
M("`@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,3`@(#$S("`Q-B`@,30@(#$S("`U("`Y("`Q("P@.3DY#0IH
M+$XT3D51("`@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#$@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@+"`Y.3D-"F@L
M2T(P4U-:("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,S4@(#8Q("`S.2`@,S$@(#,Y("`R-B`@,38@(#8@+"`Y
M.3D-"F@L2T4T1452+34@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,"`@,"`@,B`@,2`@,"`@,"`@,"`@,"`@,"`@,"`L(#DY
M.0T*:"Q.,$='52TQ("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`P("`P("`Y("`V("`S("`T("`S("`T("`P("P@.3DY
M#0IH+$M$-$1,5"TW("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#$@(#$@(#`@(#`@(#`@(#`@+"`Y.3D-
M"F@L2T4T1452("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,"`@,"`@,"`@,R`@,"`@,"`@,"`@,"`L(#DY.0T*
M:"Q.,$)+0B`@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`P("`P("`P("`R("`S("`R("`P("`P("P@.3DY#0IH
M+$XP0DM"+3$@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#(@(#0@(#$@(#$@(#`@+"`Y.3D-"F@L
M3C!!3B`@("`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,2`@,"`@,"`@,"`L(#DY.0T*:"Q7
M5C!4+3D@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
M("`P("`P("`P("`P("`P("`P("`P("`Q("`V("`U("`R("P@.3DY#0IH+$XP
M3%)&+3D@("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#0X("`P("`P("P@.3DY#0IH+%=!
M,5!(62TS("`L(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@
M(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#`@(#$@(#`@(#`@+"`Y.3D-"F@L3C1.
M15$M,B`@("P@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@
M,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,"`@,2`@,"`L(#DY.0T*:"Q.,$%.
M+3D@("`@+"`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P("`P
F("`P("`P("`P("`P("`P("`P("`P("`Q("`P("P@.3DY#0H
`
end
<---- End Attached File ---->
```

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930. DFjr Question?

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 26 Jun 1996 10:51:15 -0700
To: aprssig@tapr.org
Message-ID: <31D17893.7E60@concentric.net>
Rendered body type: text/plain

Has anyone out there connected their GPS to the DFjr using the Multi-Port Adapter (MPA) and noticed any garbled data in the beggining of the NMEA $GPSRMC data stream, specifically the time portion right after the $GPRMC(garble)?

We have *one* customer having such a problem. It would be much appreciated if someone else could check it out, we can't seem to reproduce the problem here, thus unable to fix it.

---

931. W5rrr callsign and Automatic mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 12:45:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626121438.446C-100000@arctic>
Rendered body type: text/plain

On Tue, 25 Jun 1996, Larry Keeran wrote:

> So, we should set our UNPROTO to W5RRR-1 ? Not W5RRR ?

APRSdos REPLY COMMENT: I think so, but when they turn on the digipeater, we weill know for sure as soon as we start seeing packets.

NOTE TO EVERYONE: When APRS is in the SPACE mode, it is supposed to reset your BEACON timer to minimum (from the decayed value of 15 minutes) as soon as it hears the spacecraft, to improve your chances of getting a packet through. Note that it must hear packets *FROM* the W5RRR (-1) callsign and not just hear digipeated packets. SO dont get excited that APRS did not reset your BEACON timer on the first few packets. As soon as APRS sees one of the SAREX QSL or QRZ or any BEACON packet from W5RRR

```
(-1), then it will reset the BEACON timer.



   de wb4apr@amsat.org
```

---

932. Icons

From: N8CHB <n8chb@tir.com>
Date: Wed, 26 Jun 1996 17:25:58 +0100
To: aprssig@tapr.org
Message-ID: <31D16496.273D@tir.com>
Rendered body type: text/plain

```
hello,

Bin running aprs fer abt 2 yrs now and never thought abt
this until now.
aprs - dos ver 76e
pk-900 2 port tnc
CFIG75.APR file setting - echo/wide

anyway I can hve the ham shack Icon on hf and the star
only show on vhf?
pls don't tell me it's somewere in the readme.txt files.


thanks

73,

Roger N8CHB
```

---

933. JNOS 1.10 Question

From: John Deegan <jdeegan@iquest.net>
Date: Wed, 26 Jun 96 13:05 EST
To: aprssig@tapr.org
Message-ID: <m0uYyxj-0049LfC@iquest.net>
Rendered body type: text/plain

```
This might not be the right forum for this question, but I'll ask anyway!

Does anyone know how to do the following with JNOS 1.10m?

1. Print a message in the mailbox?

2. Set the timestamp to properly report timezone?

Thanks to all for your help.....73s de KG6XT
```

---

934. Re: [APRSSIG:2399] DFjr Question?

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 26 Jun 1996 13:07:19 -0700
To: aprssig@tapr.org
Message-ID: <31D19877.6A89@worldnet.att.net>
Rendered body type: text/plain

```
Joseph Agrelo wrote:
>
> Has anyone out there connected their GPS to the DFjr using the
> Multi-Port Adapter (MPA) and noticed any garbled data in the
> beggining of the NMEA $GPSRMC data stream, specifically the time
> portion right after the $GPRMC(garble)?
>
> We have *one* customer having such a problem. It would be much
> appreciated if someone else could check it out, we can't seem to
> reproduce the problem here, thus unable to fix it.

Will be doing that real soon Joe, as soon as the DFjr arrives. Any
special instructions as to setting this thing up using the MPA. Can i
check that out using a terminal program instead of APRS?.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

935. Re: [APRSSIG:2401] Icons

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 15:55:08 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626154424.15699A-100000@arctic>
Rendered body type: text/plain

```
On Wed, 26 Jun 1996, N8CHB wrote:

> Bin running aprs fer abt 2 yrs now and never thought abt this until now.
>
> Can I have the ham shack Icon on hf and the star only show on vhf?
> pls don't tell me it's somewere in the readme.txt files.

APRSdos REPLY COMMENT: See README\HF.txt

Your dual port will only transmit on one port at a time, therefore you
will only show up on one band, not the other.  THis is because APRS will
send your POSIT via the active port only.

SOLUTION:

1)  Set CONTROLS-BANDS-2PORT.  But now APRS will send the same posit via
BOTH ports. Now you will be seen on both bands, but it will be the same
posit an ssymbol

2)  But your TNC will BEACON the TNC BText to both ports automatically.
APRS naturally sets BEACON EVREY to 0 so that your TNC will NOT beacon by
itself while APRS is running, since you want the APRS BText to be
transmitted rahter than the TNC.

SO, STANDARD OPERATING PRACTICE for ALL GATEWAYS, is to manually pur the
command BEACON EVERY 0/10 in your INITTAPR.TNC file so that the VHF port
will beacon the TNC BText which has a POSIT report and uses one symbol,
and the HF port will NOT beacon (so that APRS can).  All of this assumes
you nomrally leave your TNC on HF.   Reverse the commands to 10/0 if
you opearate a Gateway but leave APRS on the VHF side...

de wb4apr@amsat.org
```

936. First APRS packet via SAREX!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 16:29:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626160101.15699C-100000@arctic>
Rendered body type: text/plain

```
Following copied on AMSAT BBS:

---------- Forwarded message ----------
From: Bruce Paige <paigecom@alpha1.phoenix.net>

i had a connection this morning with the packet robot. also, there was an
aprs transmission---

XXXXXX>APRS via *W5RRR-1 [27/JUN/96 08:08:30]: <UI>:{F0}
W5RRR-1  :Hello STS-78 Frm XXXXXXX{1

--------------- end of forwarded message --------------

Congratulations to XXXXX for the first APRS packet!  (I decided to delete
his callsign since he gets enough grief already, hi hi)

But, it was not an APRS position report which is the whole objective.
It was an APRS message, which the SAREX robot has no way of handling.
SAREX is only acting as a digipeater in space.  It does not understand
APRS formats at all.

It would be best if we kept to APRS POSITS only (BEACONS if you are in
SPACE MODE) for several reasons.  Position reporting of ground
stations is our objective, message packets only waste air time, and
finally seeing message text between stations may encourage non APRS
stations to try DIGIPEATING standard packet via SAREX and then the cat
is out of the bag.  Everyone will try to connect to their buddy via
W5RRR-1 using standard packet and no one will get through.

Then they will turn digipeating off and the game is over....

PLEASE, no APRS messages TO SAREX or VIA SAREX!  You will never get an
ack to either one!  ALso make your alt-BEACON very short so that it
doesnt look like a long brag packet.  Our point is how SHORT an APRS
SPACE MODE PACKET (Grid square) can be...
```

937. APRS Sarex score card (3)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 16:40:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626163152.15699D-100000@arctic>
Rendered body type: text/plain

```
SAREX PACKET has been heard at 1130z on Wed 26 June.  Due to intermod, my
APRtrak only captured one packet and it was a standard CONNECT But I
could hear the Robot working packets like crazy!  Cant wait to see the
next pass after I install my intermod filter!

     The Shuttle Columbia callsign is W5RRR-1.  The following
logs what we  have heard on the USA east coast and via Internet.

DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East coast
26  1350  1750z packets! (But I had pager Intermod!!)

Remember, in SPACE mode, the GRID SQUARE POSIT is inserted in your
BEACON.  Do not send any APRS packets except your BEACON.  Use the
XMIT-BEACON command.  Do not send APRS messages!

Later when things calm down, sending your POSIT might be OK,  but that is
a much longer packet and is not needed if you send a SPACE MODE BEACON.
The SPACE MODE BEACON will put you on the map (using the gridsquare format)

de wb4apr@amsat.org
```

---

938. MacAPRS v2.5

From: quarry@q.continuum.net (Chip)
Date: Wed, 26 Jun 1996 16:50:15 -0400
To: aprssig@tapr.org
Message-ID: <v02140b05adf751d0486e@[199.0.52.87]>
Rendered body type: text/plain

```
I'm sure it must be just me, but in spite of the fact that it has been
asked for here and responses made I have still been unable to find it.
When the question was asked, the response was that it was already (past
tense at the initial response) at both TAPR and Rutgers sites.  When I
first saw v2.5 on the air, when that response was received by me, and
twice since that response, I tried on both Rutgers and TAPR (the MacAPRS,
MacMisc, and Upload directories as well as random others) without
success.  I felt that perhaps it just needed time to become "available".

Can someone please straighten me out, is it just me (ie I'm blind) or is
this file not there?  I have no great need for the file (hence the
willing-ness to wait so long), but I am starting to get just a wee bit
frustrated that I'm told it's there but I can't find it.


*** I want it to be clear that I am in no way intending to flame or put
pressure on anyone (again I say I have no immediate need for the file), I
am just trying to get clarification for things said here. ***



Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

939. Re: [APRSSIG:2403] Re: DFjr Question?

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 26 Jun 1996 16:53:44 -0700
To: aprssig@tapr.org
Message-ID: <31D1CD88.7229@concentric.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Joseph Agrelo wrote:
> >
> > Has anyone out there connected their GPS to the DFjr using the
> > Multi-Port Adapter (MPA) and noticed any garbled data in the
> > beggining of the NMEA $GPSRMC data stream, specifically the time
> > portion right after the $GPRMC(garble)?
> >
> > We have *one* customer having such a problem. It would be much
> > appreciated if someone else could check it out, we can't seem to
> > reproduce the problem here, thus unable to fix it.
>
> Will be doing that real soon Joe, as soon as the DFjr arrives. Any
> special instructions as to setting this thing up using the MPA. Can i
> check that out using a terminal program instead of APRS?.

Hey Bill!

Since the GPS data is routed through the MPA to the DFjr,
a few things need to be configured first.

1)GPS port is turned on (MENU-3)
2)the desired POSIT rate is set (MENU-8)
3)set desired baud rate (MENU-5, default 4800)
4)baud rate to PC (MENU-4).

APRS needs to be configured as well, see APRS/README/DF.TXT, I think!

This is only a one time set up since the DFjr has an internal EEPROM.
Yes, data can be viewed through any terminal program.

> --
> Bill KE4EER
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

940. anybody hear me?

From: stanzepa@usa.nai.net (stan horzepa)
Date: Wed, 26 Jun 1996 17:00:41 -0400
To: aprssig@tapr.org
Message-ID: <v01530500adf753c9d705@[206.98.48.250]>
Rendered body type: text/plain

```
Did anybody copy my posit packets via W5RRR-1 around 1620 Z Wednesday?

Here is what happened:

1) I transmitted my posit.

2) My computer crashed immediately thereafter.

3) Next, I copied a packet aurally on 145.55 but due to the crash, was
unable to decode it.

This one day after my 2-meter amp bit the dust. (Murphy go home!)

Thanks in advance!

Stan, WA1LOU
```

941. Sproul-napped?

From: rwf <rwf@mindspring.com>
Date: Wed, 26 Jun 1996 17:53:23 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960626215323.009e99d8@mindspring.com>
Rendered body type: text/plain

```
Where are they?  Hope nothing is wrong.
Anyone seen or heard from them recently?
Are they in seclusion working on improvements to their software?
```

---

942. Re: [APRSSIG:2389] More on the VHF Opening...

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 26 Jun 1996 19:32:17 -0400
To: aprssig@tapr.org
Message-ID: <199606262332.TAA08444@grumpy.magg.net>
Rendered body type: text/plain

```
Tis' the season..... For openings that is!

>At 2350 CDT posted WJ8T-2 (Sam Nabkey here on the Sig!)
>At 2352 CDT posted WA4GKM-5 and KE4EER-5 digis!
>At 2233, WB8EYJ...
>At 2348, KQ4TV-9 (GPS Mobile)
>At 2337, KE4ROC-5 and KE4ROC at 2339...
>At 2252, N4NEQ-3
>At 2349, WA2VOI-2 (WX station in MN)
>At 2353, N0MNB in MN
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>
73's Rich N2CZF
n2czf@magg.net
Jupiter Farms Florida EL96
```

---

943. GPS-20 *HELP!

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Wed, 26 Jun 1996 19:50:37 -0400
To: aprssig@tapr.org
Message-ID: <199606262351.SAA16060@tapr.org>
Rendered body type: text/plain

```
Hi APRSSIG Gang....I guess I am the only one in the whole
 world that is having trouble getting my GPS-20 receiver going.

        I have left it run with various ant. including the Trimble
 from PacComm to a small hunk of wire for over a hr. Some of the data
 changes but it is always 4 min. slow. And it does not seam to give
 the correct data to the KD6PBH display. Other than the baton
 turning it never gets past the sign on message.  I have included A
 sample of the data that I loged from the serial port yesterday 26 Jun.

        The only thing I can see that is a bit strange is the out put
 of the 7805 is 4.88v with or with out load.

     Any help would be appreciated.

       -73- Charlie K3VDB  E-Mail= cheisler@cyberia.com
```

[Attachment: GPS; text/plain; 6,299 bytes]

---

944. MCX right angle adapter??

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Wed, 26 Jun 1996 20:33:19 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960627003319.006c7234@avery.med.virginia.edu>
Rendered body type: text/plain

```
Hi group,
        In order to fit my Garmin-20 (which is working beautifully)  into
the case that I have, I need a right angle adapter for the MCX RF connector
coming off the board.  Before I "get creative" does anyone know a source for
these???

DigiKey and Mouser seem to carry only the slightly larger SMB type mini
connectors.
```

```
Thanks very much.

-------
--de WB4QKT
Stacey E. (Chuck)  Mills
E-mail: sem2r@galen.med.virginia.edu
```

945. Repeater Maped

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Wed, 26 Jun 1996 20:33:48 -0400
To: aprssig@tapr.org
Cc: rick_o@jericho.com
Message-ID: <31D1D6EC.271C@jericho.com>
Rendered body type: text/plain

```
Hi all,
        Been watching this sig for a while..... Posted one question
before but no responce..... on to bigger and better things....

        Can anyone here tell me if there is a source that I could get
the Lat and Long of repeaters?

        I would like to include them to my map for my trip from VA to
MO.

73 to all
KF4CDO
Rick O'Hearn
36'46"N/76'06"W
rick_o@jericho.com
```

946. Summer

From: "Doug Campbell" <dgc@host.renc.igs.net>
Date: Wed, 26 Jun 1996 20:44:33 +0000
To: aprssig@tapr.org
Message-ID: <199606270045.UAA25112@host.renc.igs.net>
Rendered body type: text/plain

```
Hello folks
I'm going to leave the SIG for the summer . See you all again in
September . Thanks for all the info and help.
73 Doug VE3DGC
```

947. Re: [APRSSIG:2413] MCX right angle adapter??

From: rwf <rwf@mindspring.com>
Date: Wed, 26 Jun 1996 21:20:36 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960627012036.00986d50@mindspring.com>
Rendered body type: text/plain

```
Stacey-   The following are snippets I have saved from Usenet:



ranecurl@engin.umich.edu  suggests:

 Digi-Key has just added MCX connectors to their catalog
(1-800-344-4539). The MCX styles are < $6. Digi-Key has no minimum.


grupinski@mail.utexas.edu  suggests:

Pasternack Enterprises
P.O. Box 16759
Irvine, CA 92713-6759
(714) 261-1920

They have MCX crimp plugs for RG174/RG188/RG316 and RG178/RG196 in straight and
right angle, PC board mount and bulkhead mount. Prices range from $6.00 to
$9.00 in QTY. 1-24.
```

948. What constitutes contact with the shuttle?

From: byoung@qni.com
Date: Wed, 26 Jun 1996 20:23:22 -0500
To: aprssig@tapr.org
Message-ID: <9606270123.AA20202@qni.com>
Rendered body type: text/plain

APRSers,

OK guys, don't make fun of this query, 'cause I ain't never tried to QSO the space shuttle before! I need some help! What constitutes a "contact" with the shuttle, and have I accomplished it?

Here's the background: I've had my home APRS station running 7.6e in (S)pace mode since Friday laying in wait for the shuttle to pass over in digital mode...

I came home from work today to find my APRS station telling me "Congratulations..." and when I went to (L)atest Beacons Heard, there was a message saying:

W5RRR-1 @ 261250 #189-is your STS-78 SAREX QSO number.

Did I do it? Is this message the "holy grail of space QSOs" that I've sought all my life? *OR* Did I just hear someone else hitting the jackpot? SOMEBODY TELL ME!

Bill Young
byoung@qni.com
KB0UZQ

---

949. APRS/TRANSPAC96

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Wed, 26 Jun 1996 18:38:26 -0700
To: aprssig@tapr.org
Message-ID: <199606270138.SAA05978@poseidon>
Rendered body type: text/plain

APRS ACTIVITY LIST...
****
APRS SPECIAL EVENT... ACTIVITY LIST   Filed: 270000GMT JUN 96

At noon Saturday, June 29th, the Biannual Singlehanded Sailing Society's (SSS) Solo Yacht race from San Francisco to Kauii, Hawaii will commence. A voyage of about 2300 nautical miles. The various Sailing Vessels (S/V) range in length from 27 feet to 60 feet, a task for one lone sailor, to be attempting.

Mike/WD6EHQ aboard his S/V Foxx Fyre will be sending twice daily position reports on all the 17 yachts in the race, via Amateur Packet HF radio using either Pactor or G-Tor, to Bill/KB6LFM in San Leandro. Also on 20M or 40M via possibly Ron/KG6DV in Hawaii who maintains a MM2 Net on 14065Mhz.

In addition, Bill/KB6LFM will DR all Yacht positions on APRS daily during the approximate 20 day voyage. Many boats have GPS aboard but not as yet equipped to send their positions on APRS HF Ham frequencies automatically for daily tracking. Perhaps on the next race, this will be done with more Amateur licensed skippers, or on an authorized marine HF frequency.

The daily DR tracks for each Yacht, will be sent on 30M/10151/LSB and 40M/7085/LSB. Those GATEWAY HF stations, copying the uplinked positions can then GATE or Downlink to their local VHF frequencies as they desire. Bill/KB6LFM and I will downling to our local VHF/145.01 Bay Area stations in Central California in our Area, as well as 30M/40M HF.

Additional net info on SSS, Skipper profiles and more, can be found at:
   http://www.wingo.com/sss/transpac96
   http://www.wingo.com/sailing
   http://www.wingo.com/weather

   73's & Enjoy, Bill/WB6LPG
NNNN
WBB/WB6LPG

---

950. Re: [APRSSIG:2410] Sproul-napped?

From: ku0g@sprynet.com
Date: Wed, 26 Jun 1996 18:46:09 -0700
To: aprssig@tapr.org
Message-ID: <199606270146.SAA02874@m1.sprynet.com>
Rendered body type: text/plain

Keith is in Texas at his fathers house as of last week...Don't know about Mark
but suspect he's there, too!
>From what Keith told me they're working on some improvements on WinAPRS!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

951. Re: [APRSSIG:2414] Repeater Maped

From: ku0g@sprynet.com
Date: Wed, 26 Jun 1996 18:48:23 -0700
To: aprssig@tapr.org
Message-ID: <199606270148.SAA03504@m1.sprynet.com>
Rendered body type: text/plain

Usually repeater owners have that information already OR you could contact the
Frequency Coordinators in each state! Lat/Long information is generally required
on all coordination applications.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

952. Re: [APRSSIG:2414] Repeater Maped

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 26 Jun 1996 22:06:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960626220149.8369A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 26 Jun 1996, Rick O'Hearn wrote:

>   Can anyone here tell me if there is a source that I could get
> the Lat and Long of repeaters?
>
>   I would like to include them to my map for my trip from VA to
> MO.

If someone else comes up with a better way, use it, but if not...

Use one of those repeater 'atlas' type books that show a graphic map of
each state with repeater locations. Call up your APRS map of that state
and move the cursor to the aproximate location of a particular repeater
in the book and note the Lat/Long on the APRS screen.

I know it's not exact, and it's a real big pain, but if there is no other
way you might want to try it.

Radio Shack carries just such a repeater atlas, published by the ARRL.

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

953. VHF Band Opening AGAIN!

From: ku0g@sprynet.com
Date: Wed, 26 Jun 1996 19:19:56 -0700
To: aprssig@tapr.org
Message-ID: <199606270219.TAA11355@m1.sprynet.com>
Rendered body type: text/plain

VHF is open again tonight, folks! (Sorry that mbary doesn't care about it
unless it applies to him...<sniff>)

Opening started around 2030 here with 120 mile contacts to central Missouri to
KB0OAA. Just saw KA9CFD and WA9OLB over in Illinois (2115 CDT). By gateway is
turned off for the duration of the opening/night whichever comes first...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

954. Re: [APRSSIG:2412] GPS-20 *HELP!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 22:38:09 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626223637.29457C-100000@arctic>
Rendered body type: text/plain

```
The hunk of wire should be 1.8 inches and it should protrude through a
ground plane with the ground plane attached to the coax shiled.  The
antenna must see full sky.  No trees.  And it must see this for at least
20 minutes.

de wb4apr@amsat.org
```

---

955. Re: [APRSSIG:2414] Repeater Maped

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 22:41:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626223900.29457E-100000@arctic>
Rendered body type: text/plain

```
On Wed, 26 Jun 1996, Rick O'Hearn wrote:

>       Can anyone here tell me if there is a source that I could get
> the Lat and Long of repeaters?

APRSdos REPLY COMMENT:  If you are talking about APRS digipeaters, simply
hit the FILES-REPLAY-DIGI-E.BK for the east coast, DIGI-W.BK for the west
and DIGI-SE.bk for the south east.

de wb4apr@amsat.org
```

---

956. STS-78 element set JSC-909 (26-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 26 Jun 1996 21:41:40 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606270241.VAA02399@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Wed, 26 Jun 1996 14:43:40 -0500
> Subject: STS-78 element set JSC-909 (26-Jun-96)
>
>
>
> STS-78
> 1 23931U 96036A   96178.72367356  .00118242  00000-0  20691-3 0  9092
> 2 23931  39.0147 329.0657 0006999 312.4350  47.6036 16.01748976   990
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96178.72367356   =     yrday.fracday
> Element set:     909
> Inclination:       39.0147 deg
> RA of node:       329.0657 deg
> Eccentricity:     .0006999
> Arg of perigee:   312.4350 deg
> Mean anomaly:      47.6036 deg
> Mean motion:   16.01748976 rev/day
> Decay rate:    1.18242E-03 rev/day^2
> Epoch rev:              99
> Checksum:              346
>
>
> Gil Carman
>
>
>


--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

---

957. Re: [APRSSIG:2417] What constitutes contact with the shuttle?

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 26 Jun 96 22:50:14 -0400
To: <aprssig@tapr.org>
Message-ID: <199606270247.WAA03071@bridge.net>
Rendered body type: text/plain

```
>I came home from work today...

>Did I do it?  Is this message the "holy grail of space QSOs" that
>I've sought all my life?  *OR*  Did I just hear someone else
>hitting the jackpot?  SOMEBODY TELL ME!

Call me a traditionalist, but I think there ought to be at least one
operator present to make a QSO! ;-) I don't know enough about the dos
version to say if that was a full 2-way QSO, I prefer to use a terminal
program with mcon on and mcom on, so I can see everything verified.

73 de Steve KO4HD
```

---

958. Re: [APRSSIG:2417] What constitutes contact with the shuttle?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 26 Jun 1996 22:56:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960626224338.29457F-100000@arctic>
Rendered body type: text/plain

```
On Wed, 26 Jun 1996 byoung@qni.com wrote:

> I need some help!  What   constitutes a "contact" with the shuttle, and
> have I accomplished > it?
>
> Here's the background:  I've had my home APRS station running
> 7.6e in (S)pace mode since Friday laying in wait for the shuttle
> to pass over in digital mode...
>
> I came home from work today to find my APRS station telling me
> "Congratulations..." and when I went to (L)atest Beacons Heard,
> there was a message saying:
>
> W5RRR-1 @ 261250  #189-is your STS-78 SAREX QSO number.
>
> Did I do it?  Is this message the "holy grail of space QSOs" that
> I've sought all my life?  *OR*  Did I just hear someone else
> hitting the jackpot?  SOMEBODY TELL ME!

APRSdos REPLY COMMENT: GREAT! YES, and NO.

The "CONGRATULATIONS" message says that APRS saw a copy of your
transmitted packet digipeated.  THis means that most everyone else saw it
to.  HOPEFULLY you showed up on everyone elses map!

The W5RRR-1 message however, was just the LATEST packet (TO SOMEONE
ELSE) that you heard  from the shuttle. (If you saw it on the LATEST
screen).  Immediately also  look at the HEARD screen to see how many
packets you heard from W5RR-1,  and then also go look at the ALL BEACONS
page to see a chronological list of all such packets heard from W5RRR-1.

And Finally, to see who it was TO, look on the DIGIS display where the
packet header would have been stored.

SUCCESS!  So you did accomplish the APRS objective of getting your posit
through the digs, but the reward will be that everyone else SHOULD have
seen you.  So far, Im waiting for that first report of an APRS posit!

Your Success was with APRS.  SAREX does not know it or have any record of it.
If you want to get a QSO number, then use conventional packet WITHOUT aprs.
But I was hoping that if APRS was as successful as I am hoping it could
be, that we should be able to get some special SAREX "APRS" endorsement.

TO DO this, I need to see a copy of each POSIT seen via W5RRR-1.  POSITS
only, as shown on your P-LIST.

I hope tomorrow to see lots of those reports coming in.

de wb4apr@amsat.org
```

---

959. Re: [APRSSIG:2414] Repeater Maped

From: fe2o3!rusty@ernest.itg.ti.com (Rusty Haddock-KD4WLZ)
Date: Wed, 26 Jun 96 21:52 CDT
To: aprssig@tapr.org
Message-ID: <9606270247.AA19617@fe2o3.LONESTAR.ORG>
Rendered body type: text/plain

```
Rick O'Hearn wrote:
    >
```

>Hi all,
>   Been watching this sig for a while..... Posted one question
>before but no responce..... on to bigger and better things....
>
>   Can anyone here tell me if there is a source that I could get
>the Lat and Long of repeaters?
>
>   I would like to include them to my map for my trip from VA to
>MO.

I'll presume that you'll want voice repeaters.... Not quite the forum for such a question (IMHO) but I'll spit out what I've found for during travels between the MD/DC/VA area and Dallas,TX.

There's about three places that I know of where you can get that information.

1) The ARRL directory plus access to a geographical server that can dish out the lat/lon's for a user specified city/town. This'll take some time to get a GOOD supply of points for your map. Still, the ARRL directory (on floppy disk too) is about the most available source of repeater information.

2) The "HAM_db and Open Repeaters" Book and CD by PerCon, distributed by 'artsci'. The book contains maps and the CD will have the databases of HAM callsigns and OPEN repeaters. The key word here is OPEN. This source contains only open repeaters the lat/lon pairs for the repeaters are on the CD AND are simply the lat/lon for the city inwhich the repeater is located.

   For example: Dallas is a city that covers quite a large area but all the repeaters listed for Dallas all have the same lat/lon which is for a point downtown, not where the actual repeaters reside.

3) About the only place to get the true lat/lon for each repeater would be through each coordinating group for the areas you'll be traveling in. At least for the repeater coordination groups I'm familiar with (or maybe FCC?) require the lat/lon of the repeater for coordination purposes. I'm sure that obtaining this info, if the coordinating organizations give it out, would be a long and possibly frustrating experience *BUT* it would be fairly accurate. :-)

The best bet for my money for traveling purposes is the PerCon book and/or CD. You can get the book w/o the CD for a few $$$'s less. The maps won't be the caliber of the USGS maps but they'll be more than good enough for your trip (been there, done it, although I kept going onto Texas :-). The PerCon maps will not have closed repeaters but you'll get a better idea of where the various towns' repeaters are located, more so than getting just the town/city names from the ARRL directory. With the latter, more preparation work would be needed to see which repeaters are going to be along your travel route. The former is great if you're driving by yourself and don't have a co-pilot to do lookups in the ARRL directory.

Have a safe trip, Rick!

-Rusty-

```
--
   _____         Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
|\/   o \   o
|   (  -<  O o  I planted my antenna farm and what popped up was aluminum
|/\__V__/       and copper tubing.  Strange thing is... I used steel seeds!
```

---

960. Re: [APRSSIG:2410] Sproul-napped?

From: zonker@iserver.woodside.k12.ca.us (David K. Z. Harris)
Date: Wed, 26 Jun 1996 22:04:48 -0700
To: aprssig@tapr.org
Message-ID: <v02140b03adf7c61a8d6b@[192.187.159.44]>
Rendered body type: text/plain

>Where are they? Hope nothing is wrong.
>Anyone seen or heard from them recently?
>Are they in seclusion working on improvements to their software?

I last heard from Keith just before Dayton. I think I saw a posting from Mark in the past few weeks. On the other hand, I

```
had open issues with both, and haven't heard from either directly.
I hope they're just taking a quick vacation, and then start to
clear the backlog of correspondence! :-)

      -Z-
```

961. Re: GPS-20 *HELP!

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 27 Jun 1996 00:20:50 -0500
To: aprssig@tapr.org
Message-ID: <v02130501adf7c44359d3@[199.1.11.119]>
Rendered body type: text/plain

```
> The only thing I can see that is a bit strange is the out put
> of the 7805 is 4.88v with or with out load.

I have seen the Garmin-20 not even start if the voltage is not 5.1 Volts
And when I put an AMP meter in series the voltage drop caused the
Garmin-20 not to start. You are getting data but you might want to treek
the output.

----------- Garmin-20 Current readings ---------
Input Voltage 5.12 Volts DC
142 to 149 MA with no antenna  or using the Garmin-45 passive  antenna.
158 to 164 MA with the Garmin-45 Active antenna.
Used a digital Fluke meter.


>The hunk of wire should be 1.8 inches and it should protrude through a
>ground plane with the ground plane attached to the coax shiled.  The
>antenna must see full sky.  No trees.  And it must see this for at least
>20 minutes.

Can take much longer.

And if you will run the NMEA output into Bob's SIGPLOT.BAS program
you can watch the whole process as it steps from one Sat to another.
When it gets three Sats you will see it pause a bit then
boom a location report. You can also plug the GPS data into
MAC/WIN APRS and this will also give a report of the progress.

I have two Garmin-20 now working and one took 1.5 Hr to lock in and I
was using the Garmin ACTIVE antenna places by a window.
The time on that unit was 14 min off before the lock-in.

-----

PS. I have Mac APRS ,DOS APRS and WIN APRS all running on the SAME
laptop Computer   :-0


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

962. Re: [APRSSIG:2417] What constitutes contact with the shuttle?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 27 Jun 1996 00:55:34 -0500
To: aprssig@tapr.org
Message-ID: <v02130503adf7cbbc1b61@[199.1.11.119]>
Rendered body type: text/plain

```
>
>W5RRR-1 @ 261250  #189-is your STS-78 SAREX QSO number.
>
>Did I do it?  Is this message the "holy grail of space QSOs" that


You should have seen something like:
W5RRR-1*>N0VXY <UA,F>
W5RRR-1*>N0VXY <I;0,0>:#183-is your STS-78 SAREX QSO number.
Which is what I saw yesterday

There will be a list sent out late with a list of stations that made it

Try this on the next packet pass.
-------------------------------

How to Work the Packet Robot on the Shuttle
```

By Bruce Paige, KK5DO
Email: KK5DO@AMSAT.ORG
Posted July 23, 1995

I have found a way to work the shuttle packet robot that always has placed me on the QSL list. It takes about 20 seconds to do and I have made the QSL list every time in the past 2 years.

There is nothing special to making a connection, the hard part is among all the signals the robot hears to make sure it gets a disconnect from you when it requests one.

Here is how I do it.

You cannot use a TNC program becuase I have found them to be to slow to let you know a connect has been made. Usually they wait a second, ring a bell, wait a second and by then, the world has passed you by. I use Procomm Plus (DOS version) and connect to the TNC. I have a Kantronics Data Engine but the type of TNC is irrelevant. My settings for the shuttle are as follows:

```
MONMODE ALL
MONTYPE ALL
MONITOR ON
FRACK 2
```

The other settings that you normally use are just fine. Here is how the connect goes....

Issue your connect command to the TNC. As soon as you see the message on your screen that the Robot has connected *IMMEDIATELY* press your dissconnect key (for me it is CTRL-C to gain control of the TNC and then 'D' for disconnect). The next time the packet robot looks for my confirmation of the disconnect, I will be telling it to disconnect and it is a done deal.

Below are 2 sequences where I connected to the Robot. You will see that the connect was at 14:03:47 and I issued the disconnect at 14:03:51, a mere 4 seconds later. The Robot finally got around to seeing it at 14:04:07, a total of 20 seconds to complete the contact.

Further down you will see the SAREX report of QRZ and QSL and I appear in both. Now I don't have to try any further connects if I hear the Robot and concentrate on a voice contact.

73 and hope this helps everyone make successful QSL connects on the Shuttle.

```
--------------------------------------------------------------
cmd:c w5rrr-1

KK5DO>W5RRR-1 [15/JUL/95 14:03:46 UTC]: <<C>>:
W5RRR-1>KK5DO [15/JUL/95 14:03:47 UTC]: <UA>:

*** CONNECTED TO W5RRR-1

W5RRR-1>WD4AHZ [15/JUL/95 14:03:48 UTC]: <I00>:{F0}
#145-is your STS-70 SAREX QSO number.
W5RRR-1>WD4AHZ [15/JUL/95 14:03:48 UTC]: <UA>:

W5RRR-1>KK5DO [15/JUL/95 14:03:49 UTC]: <I0cmd:0>:{F0}

#146-is your STS-70 SAREX QSO number.
cmd:d

KK5DO>W5RRR-1 [15/JUL/95 14:03:50 UTC]: <RR1>:
KK5DO>W5RRR-1 [15/JUL/95 14:03:51 UTC]: <D>:
KK5DO>W5RRR-1 [15/JUL/95 14:03:53 UTC]: <D>:
KK5DO>W5RRR-1 [15/JUL/95 14:03:56 UTC]: <D>:
KK5DO>W5RRR-1 [15/JUL/95 14:03:59 UTC]: <D>:
W5RRR-1>WD4AHZ [15/JUL/95 14:04:00 UTC]: <I00>:{F0}
#145-is your STS-70 SAREX QSO number.

W5RRR-1>KK5DO [15/JUL/95 14:04:00 UTC]: <D>:
*** DISCONNECTED
KK5DO>W5RRR-1 [15/JUL/95 14:04:01 UTC]: <UA>:


W5RRR-1>QRZ [15/JUL/95 14:06:25 UTC]: <UI>:{F0}
```

```
#99-WD4LYV WA5MYI N4ZQ KQ4AV N5ZNL N9OZU KB5JRA N0NTW WD4AHZ KK5DO
N9AB AA5OQ N9PKI W9HAD XE2MXU N7UFT K9MWM KG5OA XE1KK WA5PIE N7FUM
N6TVZ W6BME N6JLH WD6EFM WB4FNH N1DL NO4J W4FWD ZL1UMB LW1EXU ZR5
MMD N7QQ WA5OUD N6HL

W5RRR-1>QSL [15/JUL/95 14:06:26 UTC]: <UI>:{F0}
KQ4AV/153 N5ZNL/151 XE1KK/150 KK5DO/146 N9PKI/144 N7UFT/134 K9MWM/132
KG5OA/131 N7FUM/127 WA5PIE/125 WB6LLO/110 WB6BDY/108 KA6UCD/107
K6AAW/106 ZS6BMN/102

W5RRR-1>SAREX [15/JUL/95 14:06:27 UTC]: <UI>:{F0}
This is STS-70 SAREX Robot station W5RRR-1
onboard the Space Shuttle Discovery.
```

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

963. Re: [APRSSIG:2430] Re: GPS-20 *HELP!

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 27 Jun 96 03:19:00 -0400
To: <aprssig@tapr.org>
Message-ID: <199606270716.DAA23949@bridge.net>
Rendered body type: text/plain

>> The only thing I can see that is a bit strange is the out put
>> of the 7805 is 4.88v with or with out load.

How accurate is your voltmeter? 4.88 is within 2.5% of 5v. Few voltmeters
have greater accuracy.

---

964. Re: [APRSSIG:2430] Re: GPS-20 *HELP!

From: Bernard Pidoux F6BVP <pidoux@ccr.jussieu.fr>
Date: Thu, 27 Jun 1996 11:09:35 +0200
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960627111004.272fa2d0@moka.ccr.jussieu.fr>
Rendered body type: text/plain

At 00:40 27/06/1996 -0500, you wrote:
>
>And if you will run the NMEA output into Bob's SIGPLOT.BAS program
>you can watch the whole process as it steps from one Sat to another.
>When it gets three Sats you will see it pause a bit then
>boom a location report. You can also plug the GPS data into
>MAC/WIN APRS and this will also give a report of the progress.
>
>73
>
>Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
>
>

I also purchased the GPS-20 via TAPR and have the same problem.
Although I was able to send him commands through a modified MOTOROLA.BAS
program, I think that the problem is in the antenna design I made.

I would appreciate to know where could I find SIGPLOT.BAS ?

73 de

Bernard, f6bvp
AMSAT France President
web server: http://ourworld.compuserve.com/homepages/amsat_f

---

965. Icons with KPC-3

From: Miami Network <0004818186@mcimail.com>
Date: Thu, 27 Jun 96 05:18 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <75960627101857/0004818186NA1EM@MCIMAIL.COM>
Rendered body type: text/plain

We have a new APRS WIDE Digi in South Florida operating under
the call sign of N4PBF. It is a Wx Reporting Station and
sends out a Beacon every 5 minutes. The Icon comes out as
the Blue Dot with the White Line pointing into the Wind.

By taking advantage of the LT String we set up the Text

to with the same long and Lat String but put in the # sign
to indicate a DIGI and set the BLT timer to every 00:30:00

Now every 30 minutes the ICON changes from the Blue Dot
to the GREEN Star so stations can also see that it is a WIDE.

At the 5 minute mark the Wx Data will Transmit and then change
back to the Blue Dot.

Looks just neat on the monitor!

73, Seymour, KC4NMY

966. Re: [APRSSIG:2428] Re: Repeater Maped

From: Gerald Green <k4ubr@ix.netcom.com>
Date: Thu, 27 Jun 1996 06:48:45 -0700
To: aprssig@tapr.org
Message-ID: <31D2913D.13C3@ix.netcom.com>
Rendered body type: text/plain

Rusty Haddock-KD4WLZ wrote:
>
>Rusty Haddock ## KD4WLZ ## rusty@fe2o3.lonestar.org
> |\/   o \   o
> | (-< O o I planted my antenna farm and what popped up was aluminum
> |/__V__/   and copper tubing. Strange thing is... I used steel seeds!

Rusty, If you insist on growing your own antennas (can't blame you with
the cost they are today) and use the steel seeds you are not going to
get any significant crops unless you use ROHN 25-45-55 fertilizer at
regular intervals of about every four weeks until the top section
approaches within 3 feet of the desired height. Water with good clean
water that has no sulphur or other contaminates except possibly Iron
and do not attach copper ground rods or any dissimilar wire antennas
to the structure till the maximum growth is obtained. (Usually 3-4
weeks after the last application of Rohn fertilizer) Although ads
indicate similar results with lesser fertilizers like Universal or
USTOWER or the older Tristoa circular fertilizers, they contain too
many impurities and that is when you get copper and aluminum as you
described. 5 bags of Rohn 25-45-55 wil give you 50 feet of tower and
at 55 bucks a bag thats no bargain.
73 Jerry Green Member 4-H Franklin County NY Ag Class Grad 1947....
>>>>>

967. GPS Sentences & APRS

From: schiers@ames.net
Date: Thu, 27 Jun 96 07:52:11 -0500
To: aprssig@tapr.org
Message-ID: <199606271255.HAA25061@tapr.org>
Rendered body type: text/plain

I have my Garmin 45 working nicely with the pico packet for stand alone
reporting. All is well. I am using the GPCGGA (or something very similar)
sentence. In this mode I report position and altitude...I would think that
position, course and speed would be more appropriate for a car and the
other common sentence would do that GPRMC?

My questions:

1. Will the pico packets gps mode support this other sentence?

2. Will the Garmin output this sentence?

What changes will I need to make to the pico and Garmin parms in order to
achieve this? TIA. 73,

hasan schiers, N0AN--
----
schiers@ames.net
----

968. packet radio pioneers

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 27 Jun 1996 10:06:47 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <31D29577.2DF4@cyberenet.net>
Rendered body type: text/plain

Take a look at this page (I haven't included it here 'cause of size) and tell me if this isn't what we (hams) have been working towards for the past few years. Granted the technology to produce these devices is out of reach of most of us financially and technically, but none the less it mimics what has existed on packet radio for some time only at greater speeds (KA9Q's NOS and its varients).

Now comes along really high-speed (> 14.4Kb) TCP/IP for wireless connections driven by the Internet roar of millions of surfers using miniature radio modems. Its in use now at corporate sites (HP and Microsoft among others).

Supposedlly it offers connectivity to devices that comply with RS-232, does this mean I can hook my TNC or DFjr or Wx station directly up to the 'net ? ? I wonder?

Read and let me know what you think.

Bob

969. Re: [APRSSIG:2410] Sproul-napped?

From: Mark Sproul <sproul@ap.org>
Date: Thu, 27 Jun 1996 09:36:29 -0400
To: aprssig@tapr.org
Message-ID: <v03006f00adf83e9fb829@[165.1.27.20]>
Rendered body type: text/plain

>Where are they? Hope nothing is wrong.

All live and well (Mark has been on vacation in Texas/New Mexico for the last week and a half

>Anyone seen or heard from them recently?

>Are they in seclusion working on improvements to their software?

Yes we have been doing a lot and I am TRYING real hard to finish up the HSP that everyone is asking for.

Mark

```
____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

970. more on wireless internet

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 27 Jun 1996 10:09:14 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <31D2960A.4C7F@cyberenet.net>
Rendered body type: text/plain

Guess it would have been good of me to include the URL huh?

  www.pcmag.com/news/trends/t960607a.htm

Bob

971. Re: [APRSSIG:2436] GPS Sentences & APRS

From: rwf <rwf@mindspring.com>
Date: Thu, 27 Jun 1996 10:13:32 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960627141332.006fc114@atl.mindspring.com>
Rendered body type: text/plain

At 08:01 AM 6/27/96 -0500, you wrote:

>1. Will the pico packets gps mode support this other sentence?

Yes, but currently the Pico only parses and sends one sentence at a time. The software appears to be there for holding four strings, but the part that times and sends them hasn't yet been finished. I understand that it will be implemented soon.

>2. Will the Garmin output this sentence?

Yes. It already does.
You need $GPRMC for position and speed.

>What changes will I need to make to the pico and Garmin parms in order to
>achieve this?

No changes to the Garmin Parms.
For the Picos, you set GPSTEXT to $GPRMC, assuming you have everything else set up already. You probably have already set the LOC EV xxx command. I don't recall if you said you had the dual port or not. If you do, then you also need to set up other parms to use with the APRS computer.

Ralph Fowler, N4NEQ S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask me how!

---

972. Voice REPEATERs on APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 27 Jun 1996 10:15:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960627100240.29451A-100000@arctic>
Rendered body type: text/plain

> Rick O'Hearn asked if anyone had a source of Lat and Long of repeaters?

> Someone wrote: I'll presume that you'll want voice repeaters.... Not quite the forum for such a question (IMHO) but here's what I know ...

APRSdos REPLY COMMENT: Actually, the subject is IDEAL for APRS. I prefer to think of APRS as an INFORMATION RESOURCE for mobile navigators. Some of my early maps actually had our local voice repeaters on the map. APRS can display the location AND RADIO RANGE of all FM voice rpeaters on its MAPS. This would be a nice aid for the traveler. All it takes is for someone to build a BACKUP file for the repeaters in their area. Just use the INPUT-ADD to add the repeaters to the map. The ANTENNA symbol. THen save the file as 2mVA.bk for all VIRGINIA 2m repeaters for example. THen any mobiler can LOAD or REPLAY the file and see the repreaters on the map.

THis is a good example of a simple thing that APRS users can do to serve their community and further demonstrate the potential of APRS.

Be sure to enter the PHG of the voice repeaters so that their radio ranges can be plotted using the MAPS-PLOTS-POWER command!

de wb4apr@amsat.org

---

973. Davis WX station

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Thu, 27 Jun 1996 09:56:02 +0000
To: aprssig@tapr.org
Message-ID: <199606271401.KAA00757@hemisphere.neocomm.net>
Rendered body type: text/plain

I am interested in a WX station, the Davis looks good for the $$$.

I wonder what software is available for the Davis (besides APRS)???

I looked at autowx61.exe but I think it is only for the Peet products.

Your comments are welcome reply to

.... cdavidso@neocomm.net
cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

974. Re: [APRSSIG:2423] Re: GPS-20 *HELP!

From: David Rush <n0oxh@alikazam.sprintcorp.com>
Date: Thu, 27 Jun 1996 09:31:22 -0500
To: aprssig@tapr.org
Cc: n0oxh@alikazam.sprintcorp.com
Message-ID: <199606271431.JAA02256@alikazam.sprintcorp.com>
Rendered body type: text/plain

```
Bob:

>The hunk of wire should be 1.8 inches and it should protrude through a
>ground plane with the ground plane attached to the coax shiled.  The
>antenna must see full sky.  No trees.  And it must see this for at least
>20 minutes.

Good info.  My GPS-20 has been spitting out data from first application
of power, but I have not gotten a fix yet.  Last night I attached a
dipole antenna to my -20, plugged in a battery, and let it sunbathe
(moonbathe, actually) in my back yard for about 30 minutes.  Still
nothing.  Then I let it hang out on my roof, but still nada.  However,
both cases still had trees blocking part of the sky.

I can watch the GPS-22 cycle through different birds, presumably
searching to see what it can find.

My Icom GPS-22 works fine in much worst conditions (it works inside,
where my GP-20 has sat for hours without a clue.

The dipole I've been using is a short (~5 in) chunk of RG-58, with
a BNC connector (which is what's on the outside of my boxed GP-20)
on one end.  On the other end I've separated the shield and coax
(at 1.8 inches long, each), bent them each 90 degrees in different
directions, making a "T".

Unfortunately I don't have any commercial antennas, without ripping
apart my Icom, which I really don't want to do.

Maybe I'll try your groundplane, and find a good, clear parking lot
to hang out in for about 20 minutes.

David, n0oxh
```

---

975. Re: [APRSSIG:2410] Sproul-napped?

From: N2MPM <n2mpm@saturn.superlink.net>
Date: Thu, 27 Jun 1996 10:33:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.93.960627103216.3782A-100000@saturn.superlink.net>
Rendered body type: text/plain

```
The Sproul Brothers are fine.

 Brian Boccardi          N2MPM    ARRL EC and VE
 203 Bishop Blvd                  ask me about Mac APRS
 North Brunswick NJ


Get involved...stay involved.
when words fail you try numbers!
4161324740020299
```

---

976. Re: GPS-20 *HELP!

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Thu, 27 Jun 1996 10:45:43 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960627144543.007616e0@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 04:20 AM 6/27/96 -0500, you wrote:

> I also purchased the GPS-20 via TAPR and have the same problem.
>Although I was able to send him commands through a modified MOTOROLA.BAS
>program, I think that the problem is in the antenna design I made.
>
> I would appreciate to know where could I find SIGPLOT.BAS ?
>

>Bernard, f6bvp
```

```
Sigplot est distribué avec APRS pour DOS.

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/dosstuff/DOSaprs/aprs75c.zip

si tu ne l'as pas déjà.

Pour l'antenne, essaie le "patch" décrit dans QST, l'article est dispo sur
le réseau. Je suis en train de distribuer (pour 2$ pièce) un ampli
monolythique, MAR-6, pour améliorer cette antenne, si tu es interressé, on
peut s'arranger pour en expédier en France.

Comment se porte APRS en France? Y a t il des utilisateurs, et qu'en font ils?

Amitiés.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

977. SIGPLOT.BAS program

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Thu, 27 Jun 1996 08:12:51 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960627081133.13392A-100000@cks>
Rendered body type: text/plain

```
Golly, I'm sure glad someone else asked where to find SIGPLOT.BAS!  I hope
whomever has the answer posts it here so I can acquire it also.  (Oops.
Guess I took up a lot of bandwidth unnecessarily...)    :)

Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us  FAX: (206) 545-7916
```

978. Re: [APRSSIG:2436] GPS Sentences & APRS

From: ku0g@sprynet.com
Date: Thu, 27 Jun 1996 08:25:06 -0700
To: aprssig@tapr.org
Message-ID: <199606271525.IAA27861@m1.sprynet.com>
Rendered body type: text/plain

```
The Garmin puts out all standard $gp strings.  The main ones you want to use
are $GPGGA (L/L and Altitude), $GPGLL (Lat/Lon) and $GPRMC (L/L w CSE/SPD).  One
other one that IS going to become useful soon on APRS is the $GPRTE (Waypoints
and Route).

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

979. Re: [APRSSIG:2436] GPS Sentences & APRS

From: Ron Malinowski <weather@xnet.com>
Date: Thu, 27 Jun 1996 10:44:17 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606271544.KAA18190@flood.xnet.com>
Rendered body type: text/plain

```
At 08:01 AM 6/27/96 -0500, you wrote:
>I have my Garmin 45 working nicely with the pico packet for stand alone
>reporting. All is well. I am using the GPCGGA (or something very similar)
>sentence. In this mode I report position and altitude...I would think that
>position, course and speed would be more appropriate for a car and the
>other common sentence would do that GPRMC?
>
>My questions:

>2. Will the Garmin output this sentence?

N9QGS reply:

I use a KPC-3, the Garin 45 spits al streams out, I dont think there is a
way to tell it what to sent (initalization string), and will support the
$GPRMC, just set up the pico for that string, I assume Pico you had to tel
it somewhere $GPGGA, I would figure just chage this to reflect string
captured, this is how it works with Kantronics.  Good luck
```

980. Re: [APRSSIG:2437] packet radio pioneers

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Thu, 27 Jun 96 08:51:57 PDT
To: aprssig@tapr.org
Message-ID: <9606271551.AA10712@eng.adaptec.com>
Rendered body type: text/plain

```
Just a quick note to the sig on "metricom."

I've had a couple of talks with them, and one buddy is
an ex-employee(he took his stock and bought a candle
shop ;-)

The system is very much like a cellular approach to packet
radio(and many of the founders/technical types of the
company ARE hams...) In fact, they started with AX25
as a beginning point and moved on if memory serves...
Originally, the modems were built to be a self-locating
radio system to report meter readings for power companies.
The internet happened, and they were sitting on this
cellular packet system that just fit.  Basically, they
attach little 1W Spread spectrum(hopping)radios to
light poles, and put central hubs in every neighborhood.
Typically, your packets are only a couple of hops from
a higher speed hub.

Thruput varies with one amateur user I know claiming somewhere
between 9600 to 14.4 REAL thruput...as opposed to divide by
4 for our ham packet systems.

Hope this shines some lite on the technology.


Steve KA6S
```

---

981. Re: [APRSSIG:2442] Davis WX station

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Thu, 27 Jun 1996 09:36:34 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960627153634.006871b4@mailhost.primenet.com>
Rendered body type: text/plain

```
Davis offers a fine software package with their WeatherLink option
($165.00). It not only has a nice way of tracking and viewing the data, but
also, allows you to store information without having to leave your computer
turned on. The WxLink comes with a small mini computer that plugs into the
Wx Monitor then into your computer. I hope that this information is helpful.
AA7MH and I are testing the U-2000 and the Wx Monitor II, side by side,
including software, and at this time, though both are accurate, Davis is
leading in the software and data collection area, also the ease of use and
functionality. The test will continue and then we will have some true
empirical data to put out to anyone who is interested without all the
corporate PR & BS.

73, Alan


At 09:30 AM 6/27/96 -0500, you wrote:
>        I am interested in a WX station, the Davis looks good for the $$$.
>
>I wonder what software is available for the Davis (besides APRS)???
>
>I looked at autowx61.exe but I think it is only for the Peet products.
>
>Your comments are welcome reply to
>
>.........    cdavidso@neocomm.net
>cdavidso@neocomm.net
>http://www.neocomm.net/~cdavidso/
>WB4PAN@WB4QOJ.VA.USA.NOAM
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV
```

---

982. Re: [APRSSIG:2446] SIGPLOT.BAS program

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 27 Jun 1996 12:24:23 -0500
To: aprssig@tapr.org

Message-ID: <199606271724.MAA30707@tbc1.tbcnet.com>
Rendered body type: text/plain

```
At 10:33 6/27/96 -0500, you wrote:
>Golly, I'm sure glad someone else asked where to find SIGPLOT.BAS!  I hope
>whomever has the answer posts it here so I can acquire it also.  (Oops.
>Guess I took up a lot of bandwidth unnecessarily...)    :)
>
>Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us  FAX: (206) 545-7916
>

In every distribution copy of dosAPRS is SIGPLOT.BAS.

jbl

-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

---

983. Re: [APRSSIG:2448] Re: GPS Sentences & APRS

From: schiers@ames.net
Date: Thu, 27 Jun 96 12:27:26 -0500
To: aprssig@tapr.org
Message-ID: <199606271730.MAA07596@tapr.org>
Rendered body type: text/plain

```
I appear to have the answer, thanks to N4NEQ, KU0G and an N9...thank you
all.

Simply changing GPSTEXT to $GPRMC should do exactly what I want.
(PicoPacket and Garmin 45 in stand-alone mode, single port), reporting
position, course and speed...instead of the default position and altitude,
which is of very little significance unless you are driving up Pike's
Peak.

I will confirm this works when I get home. Thanks to all who have or, may
reply. It sure is nice to get good help this quickly. 73,

hasan schiers, N0AN--
----------------------------------------------------------
schiers@ames.net
----------------------------------------------------------
```

---

984. WinAPRS status

From: Mark Sproul <sproul@ap.org>
Date: Thu, 27 Jun 1996 13:29:55 -0400
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <v03006f03adf870f68be5@[165.1.27.20]>
Rendered body type: text/plain

```
To all WinAPRS users

There have been several comments about the next release of WinAPRS, I will
be releasing soon, this weekend at the latest.

I hope that you dont mind that I took a few weeks to relax after spending
all winter in front of the keyboard.  Also I do a lot of travel during the
summer.  I was just down in Texas and met with several of the APRS users in
Amarillo.

I am TRYING VERY hard to complete the HSP support, it is not finished and
probably wont be in this release, but I AM WORKING on it very hard. (DLLs
are a pain to work with)

The new features for this release are

       Airport display and list
       Winds Aloft display
       Global labels
       Symbol list
       Ability to display ONLY weather stations

       Bugs that have been fixed
       Crash on incoming packet if no windows were open
       HF/VHF terminal window was backwards if both were open
       Several packet parsing errors that caused strange behavior
```

I am updating the documentation for these new features.

I greatly appreciate DETAILED REPRODUCABLE bug reports, I have had several people send very complete comprehensive reports on how they were able to re-create a problem and the steps required to do so. Sending me a Windows stack dump does NOT help at all.

I keep all bug reports that users send and all feature requests

Items that are currently being worked on

HSP (number one priority)
Pico-packet support
Davis weather support (Waiting on sample unit to test with)

Thanks for all of your support.

Mark Sproul

```
__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

985. APRS QSL cards

From: ku0g@sprynet.com
Date: Thu, 27 Jun 1996 11:49:54 -0700
To: aprssig@tapr.org
Message-ID: <199606271849.LAA19922@m1.sprynet.com>
Rendered body type: text/plain

I asked Bob if his APRS QSL card could be reproduced in quantity so that APRS geeks could get them customized for use as their own QSL cards.

He contacted the company that made his APRS cards and it looks like they could do them as follows:

$110 for 500
$165 for 1000

Bob would have to pay for the initial run of the basic artwork which is $900 for 10,000 cards. He would be reimbursed as the orders came in....

These cards are the same as Bobs cards, but the USA map on Bobs card is reduced by about 25% so that it fits in the top three quarters of the card. Then the bottom quarter has your callletters in BIG BLACK letters on the RED background that currently surrounds Bob's cards. Your name address and personal information appears in black letters on a white background in the lower right.

To see the following diagram in its proper format, expand your message window to full-screen...

```
     -----------------------------------------------------------
     |   ---------------------------------------------------   |
     |   |                                                 |   |
     |   |                                                 |   |
     |   |                                                 |   |
     |   |             BLACK APRS MAP OF USA               |   |
     |   |        with 4 color stations and objects        |   |
     |   |                                                 |   |
     |   |                                                 |   |
     |   |                                                 |   |
     |   ---------------------------------------------------   |
     |   *   *  *   *   * *    * *   -----------------------   |
     |   *  *   *   *  *   *  *      | James  R. Duncan    |   |
     |   * *    *   *  *   *  *  ** | 4719  N.W.  78th St |   |
     |   *  *   *   *  *   *  *   * | Kansas City MO 64151|   |
     |   *   *   * *    * *    * *   -----------------------   |
     -----------------------------------------------------------
```

The last time Bob asked the SIG, he only got 4 replies, so he dropped the idea. We would need 20 orders for 500 or 10 orders for 1000 to make it worthwhile...

SEND REPLIES TO ME, KU0G and lets see if there is interest...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

986. Re: [APRSSIG:2441] Voice REPEATERs on APRS

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Thu, 27 Jun 1996 15:07:24 -0400
To: aprssig@tapr.org
Cc: rick_o@jericho.com
Message-ID: <31D2DBEC.1A6B@jericho.com>
Rendered body type: text/plain

Thank you all for the feed back. I was hoping someone had a secret they would share but sounds like a new theory. Some are working on it and if I get the info I will post.

Again, Thank You
73
rick_o@jericho.com
Rick O'Hearn
KF4CDO

aprssig@tapr.org wrote:
>
> > Rick O'Hearn asked if anyone had a source of Lat and Long of repeaters?
>
> > Someone wrote: I'll presume that you'll want voice repeaters.... Not
> quite the forum for such a question (IMHO) but here's what I know ...
>
> APRSdos REPLY COMMENT: Actually, the subject is IDEAL for APRS. I prefer to
> think of APRS as an INFORMATION RESOURCE for mobile navigators. Some of
> my early maps actually had our local voice repeaters on the map. APRS
> can display the location AND RADIO RANGE of all FM voice rpeaters on its
> MAPS. This would be a nice aid for the traveler. All it takes is for
> someone to build a BACKUP file for the repeaters in their area. Just
> use the INPUT-ADD to add the repeaters to the map. The ANTENNA symbol.
> THen save the file as 2mVA.bk for all VIRGINIA 2m repeaters for
> example. THen any mobiler can LOAD or REPLAY the file and see the
> repreaters on the map.
>
> THis is a good example of a simple thing that APRS users can do to serve
> their community and further demonstrate the potential of APRS.
>
> Be sure to enter the PHG of the voice repeaters so that their radio
> ranges can be plotted using the MAPS-PLOTS-POWER command!
>
> de wb4apr@amsat.org

---

987. Mobile this weekend!

From: ku0g@sprynet.com
Date: Thu, 27 Jun 1996 12:59:17 -0700
To: aprssig@tapr.org
Message-ID: <199606271959.MAA08198@m1.sprynet.com>
Rendered body type: text/plain

Karla and I are planning a trip to the National Model Railroad Association's Gateway Regional convention in St. Louis this weekend! We should depart Kansas City around 0800 Friday arriving St. Louis area around 1200! Hope to see a lot on APRS in St. Louis and in central Missouri as we run around! Our return trip is set for Saturday with a noon departure for Kansas City...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

988. Re: [APRSSIG:2455] Re: Voice REPEATERs on APRS

From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 27 Jun 1996 15:14:02 -0700
To: aprssig@tapr.org
Message-ID: <31D307AA.107D@worldnet.att.net>
Rendered body type: text/plain

```
> > > APRSdos REPLY COMMENT: Actually, the subject is IDEAL for APRS.  I prefer to
> > think of APRS  as an INFORMATION RESOURCE for mobile navigators.  Some of
> > my early maps  actually had our local voice repeaters on the map.  APRS
> > can display the  location AND RADIO RANGE of all FM voice rpeaters on its
> > MAPS.  This  would be a nice aid for the traveler.  All it takes is for
> > someone to  build a BACKUP file for the repeaters in their area.  Just
> > use the  INPUT-ADD to add the repeaters to the map.  The ANTENNA  symbol.
> > THen save the file as 2mVA.bk for all  VIRGINIA 2m repeaters for
> > example.  THen any mobiler can LOAD or REPLAY  the file and see the
> > repreaters on the map.
> >
> > THis is a good example of a simple thing that APRS users can do to serve
> > their community and further demonstrate the potential of APRS.
> >
> > Be sure to enter the PHG of the voice repeaters so that their radio
> > ranges can be plotted using the MAPS-PLOTS-POWER command!
> >
> > de wb4apr@amsat.org

Great idea if it would work, but having done a Alabama repeater map for some of
the folks in Alabama, that is of course still handed out at the local Ham store
has so many repeaters on it that in no way would these all fit on an APRS map of
that state. I doubt that i could fit all the local vice repeaters on my local map.

--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

989. Re: [APRSSIG:2445] Re: GPS-20 *HELP!

From: Assi Ben-Shalom <assib@techunix.technion.ac.il>
Date: Fri, 28 Jun 1996 00:54:44 +0300 (IDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960628004811.28835A-100000@techunix.technion.ac.il>
Rendered body type: text/plain

```
Hi,
The GPS-20 seems to have poor preformance compared with other GPSes.
When I first hooked up mine I only got a fix after about 3 hours with
an active antenna put in clear sky view.
Now that my GPS has built the almanc I put it on my windows where it
has a pretty good sky view, with a homemade 1/4 Lambda antenna with a
ground plane and it wont get a fix.
Some time ago I got to play with a Trimble ScoutMaster and on the same
spot on my window it got a fix after about 15 minutes.
Yesterday, on my way home I took the GPS in my car, I mounted the homemade
antenna on the dashboard and still couldnt get a fix.
Maybe we should all build active antennas ?
 bye, Assi
----------------------
Assi Ben-Shalom 4Z7ABA
----------------------
```

---

990. LORAN principle

From: Al@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Thu, 27 Jun 96 08:17:46 -07
To: aprssig%tapr.org@w6dnt.ampr.org, alchan%ix.netcom.com@w6dnt.ampr.org,
alChan%aol.com@w6dnt.ampr.org, al.chan%toadhall.com@w6dnt.ampr.org
Message-ID: <222@w6dnt.ampr.org>
Rendered body type: text/plain

```
A week ago, Al Chan wrote:

AC> Since we know the locations of the satellites; and we know they
AC> are broadcasting UTC time super-accurately, why not use the
AC> LORAN theory. The RATIO of the time difference (of arrival of
AC> the signals) from two satellites should give us a good
AC> hyperbola. And a third satellite will solve the ambiguity.

    And then Gerald J. Creager wrote:

GC> Wrong, and wrong.  We have an idea from the broadcast ephemeris
GC> where the satellites are, within 20 or so meters.  That's not
GC> precise.  We are concerned with which integer wavelength of the
GC> GPS signal (OK, really which chip from the SS signal, but for
GC> our purposes it's the same) we are receiving.  Not just getting
GC> atime hack.  And finally, the GPS NAV timing signal is broadcast
GC> in Z code, which is based in seconds since start of week.  You
GC> then have to do significant table lookups and logic trails to
GC> make sure you know how many leap seconds, and when, to add 'em
GC> in.

Who is right? I was reading a book, "GPS Made Easy," by Lawrence Letham,
published by Rock Mountain Books, Canada. On page 8 ff. Chapter One, Mr.
Letham described the principle of Loran as I mentioned above. The 3rd
satellite gives the intersection of the two hyperbolas to resolve the
ambiguity; and the 4th one resolve altitude.

AC> Is there any reason why not have LORAN in the sky?

GC> Wavelength is too long?  LORAN is reasonably precise for local
GC> areas without LF/MF multipath and fading, say, within 100 km of
GC> the chain.  LORAN in the sky might just improve that somewhat,
GC> but maintaining the absolute and timing relationships of the
GC> stations (satellites would be interesting.

The Loran principle can be applied to microwave (1.5 GHz) as well as LF/MF.
The wavelength of 1.5 GHz is not too long. Loran DOES use timing
relationship. That's the only way Loran CAN work.

GC> Nope.  The RATIO is nice, but absolute differences are used
GC> after the integer ambiguity is resolved, either by measurement,
GC> algorithm or guess.

Both ratio and differences are necessary. The ratio determines the shape and
curve of the hyperbola. According to Mr. Letham, the GPS works on the very
same principles. (page 8, Introduction.) Please investigate. Thank you.




-al chan      w6dnt
 """"""""""""""""""""""""""""""""""""""
              Al@w6dnt.ampr.org
```

---

991. STS-78 element set JSC-910 (27-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 27 Jun 1996 17:53:48 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606272253.RAA13593@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Thu, 27 Jun 1996 13:40:16 -0500
> Subject: STS-78 element set JSC-910 (27-Jun-96)
>
>
>
> STS-78
> 1 23931U 96036A   96179.72098478  .00082101  00000-0  13950-3 0  9105
> 2 23931  39.0147 322.3735 0007095 321.6787  38.3687 16.02034320  1157
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96179.72098478   =     yrday.fracday
> Element set:     910
> Inclination:       39.0147 deg
> RA of node:       322.3735 deg
> Eccentricity:     .0007095
> Arg of perigee:   321.6787 deg
> Mean anomaly:      38.3687 deg
> Mean motion:   16.02034320 rev/day
> Decay rate:    8.21010E-04 rev/day^2
> Epoch rev:            115
> Checksum:             307
>
>
> Gil Carman
```

---

992. STS-78 Rev 116 Orbital Data

From: kene@fs.loral.com (Ken Ernandes)
Date: Thu, 27 Jun 1996 15:52:53 -0400
To: grcc@ams.gsfc.nasa.gov, ststle@spacelink.msfc.nasa.gov, sarex@amsat.org,
        shuttle.keps@totrbbs.atl.ga.us, slnews@spacelink.msfc.nasa.gov,
        lundyjd@fafb.af.mil
Message-ID: <m0uZN30-003E3IC@fs.loral.com>
Rendered body type: text/plain

STS-78 ORBITAL DATA

Below is the current State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector. Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

```
Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96179.79171643518
                        06/27/1996  19:00:04.299 UTC
EFG E:                          -18282316 ft
    F:                            5889501 ft
    G:                           10288763 ft
    Edot:                        -1047.19 ft/s
    Fdot:                       -21742.65 ft/s
    Gdot:                        10586.89 ft/s
ndot/2 (drag):              0.00058677574 rev/day^2
nddt/6:                       1.43365E-08 rev/day^3
Bstar:                        9.65070E-05 1/Earth Radii
Elset #:                               25
Rev @ Epoch:              116.13499195031
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 1.0 drag multiplier:

```
STS-78
1 23931U 96036A   96179.79171644  .00058678  14336-7  96507-4 0   252
2 23931  39.0145 321.8991 0006994 324.4579  84.1395 16.02040975  1169
```

```
Satellite: STS-78
Catalog number: 23931
Epoch time:      96179.79171644
Element set:      25
Inclination:       39.0145 deg
RA of node:       321.8991 deg
Eccentricity:    0.0006994
Arg of perigee:   324.4579 deg
Mean anomaly:      84.1395 deg
Mean motion:   16.02040975 rev/day
Decay rate:    5.86776e-04 rev/day^2
Epoch rev:             116
Checksum:              347
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

---

993. Re: Garmin 45

From: Paul Sadowski <sadowski@cris.com>
Date: Thu, 27 Jun 1996 19:17:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960627192046.0f173dae@pop3.cris.com>
Rendered body type: text/plain

Just to let everyone know... this weekend on, Garmin GPS 45's for sale
for $240 at boat US... $230 if you are a member and got the flyer in
the mail... Not bad - seeing it has a BNC for an external antenna,
and the voltage regulator built in.... not to mention the case an
buttons an such.... FYI....

ALOHA

Al
AH6LS

---

994. Re: [APRSSIG:2420] Re: Repeater Maped

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Thu, 27 Jun 1996 19:54:17 -0400
To: aprssig@tapr.org
Message-ID: <31D31F29.51A29A6B@codger.physics.duq.edu>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Usually repeater owners have that information already OR you could contact the
> Frequency Coordinators in each state! Lat/Long information is generally required
> on all coordination applications.

Good luck.

The Western PA repeater council gives *NO* information. Period.

I've been after them for two years to find the best frequency to put my mobile repeater, which will only be used for emergencies. All I get is "There are no two meter channels available".

I've heard that other coordinators aren't so tight-lipped about such information.

995. Garmin-20, Deaf??

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Thu, 27 Jun 1996 22:20:07 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960628022007.0067a12c@avery.med.virginia.edu>
Rendered body type: text/plain

I've got to add my sentiments to the others re. this unit. I have a Garmin-45 with which I am quite pleased. The Garmin-20 will lock if I use an active (pre-amp) Garmin fixed-base (marine) antenna and a short (30 ft) run of coax...but conditions have to be perfect and even then the lock takes quite a while. With a 60 ft. run of mini RG-8 coax from the pre-amp on my tower GPS antenna, the Garmin-45 locks in about a minute with good to adequate signal strengths shown on 4-6 satellites .....the Garmin-20 won't lock after hours......on my outside deck with the Garmin-45 standard antenna, I get lock in about a minute with good signal strength....put the antenna on the Garmin-20 and after multiple hours we're still not there.

I have my unit in a cast aluminum box with a BNC connector for the RF, 7805 regulator, floated with two signal diodes in series between the center (gnd) lead of the 7805 and the true ground to give an output voltage of 5.4 volts. (without floating, the voltage is 4.88 volts).

Any ideas??? Got a good design for a pre-amp??? I want the unit for APRS.
I could make it work as a stationary unit for a TAC, but the sensitivity/lock-in time seems to be a major problem for mobile operation.

--de WB4QKT
Stacey E. (Chuck) Mills
E-mail: sem2r@galen.med.virginia.edu

996. Re: [APRSSIG:2458] Re: GPS-20 *HELP!

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 27 Jun 1996 21:26:57 -0500
To: aprssig@tapr.org
Message-ID: <v02130500adf8ed3f2778@[199.1.11.156]>
Rendered body type: text/plain

>Now that my GPS has built the almanc I put it on my windows where it
>has a pretty good sky view, with a homemade 1/4 Lambda antenna with a
>ground plane and it wont get a fix.

I waited to get a fix for 45 min after the almanac was built then I did a power reset and got a fix in 2 min.

Do a sigplot, let it run for 2 hr and send us (FTP APRS file area) the screen save of the results of your homemade 1/4 Lambda antenna.

I guess I should say that Sigplot is a basic program and it is part of the ZIP file in the FULL DOS aprs (The APRSxxx.zip file that is over 1 meg).

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

997. APRS Sarex report (4)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 27 Jun 1996 22:56:25 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960627224350.13341F-100000@arctic>

Rendered body type: text/plain

```
SAREX PACKET was first heard at 1130z on Wed 26 June and also on the
next 2 passes.  Today, the 27th, no packets were heard here on the East
coast.  We are still waiting on the first report of an APRS position
report.  Keep trying!  The Shuttle Columbia  callsign is W5RRR-1.  The
following logs what we have heard on the USA east coast and via Internet.

DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East coast
26  1350  1750z packets over USA
26  1500  1900z ?
27  0740  1140z nothing heard
27  0910  1310z nothing heard
27  1040  1540z voice heard
27  1210  1710z voice heard
27  1345  1745z voice heard
27  1510  1910z ?

Remember, in SPACE mode, the GRID SQUARE POSIT is inserted in your
BEACON.  Do not send any APRS packets except your BEACON.  Use the
XMIT-BEACON command.  Do not send APRS messages!

Later when things calm down, sending your POSIT might be OK,  but that is
a much longer packet and is not needed if you send a SPACE MODE BEACON.
The SPACE MODE BEACON will put you on the map (using the gridsquare format)

de wb4apr@amsat.org
```

---

998. Mobile Trip Cancelled.

From: ku0g@sprynet.com
Date: Thu, 27 Jun 1996 20:35:12 -0700
To: aprssig@tapr.org
Message-ID: <199606280335.UAA01733@m1.sprynet.com>
Rendered body type: text/plain

Due to circumstances over which I have absolutely no control, we will NOT be going mobile to St. Louis this weekend.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

999. Re: [APRSSIG:2454] APRS QSL cards

From: rwf <rwf@mindspring.com>
Date: Fri, 28 Jun 1996 01:41:34 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960628054134.009d60d8@mindspring.com>
Rendered body type: text/plain

KU0G wrote:

>To see the following diagram in its proper format, expand your message
window to
>full-screen...
>

And don't to forget to select a monospaced font as well. Proportional spaced ones will screw up the pic.

1000. [APRSSIG:2436] GPS Sentences & APRS

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 28 Jun 1996 06:41:14 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Message-ID: <01BB64BC.CED7D0A0@gwyn.paccomm.com>
Rendered body type: text/plain

```
----------
From: 	schiers@ames.net[SMTP:schiers@ames.net]
Sent: 	Thursday, June 27, 1996 4:01 AM
To: 	aprssig@tapr.org
Subject: 	[APRSSIG:2436] GPS Sentences & APRS

............

My questions:

1. Will the pico packets gps mode support this other sentence?

YOU CAN SPECIFY ANY SENTENCE YOU LIKE - IT DEFAULTS TO $GPGGA. CODE NOW IN
PRELIMINARY TESTING WILL ALLOW YOU TO SPECIFY UP TO FOUR DIFFERENT
SENTENCES TO BE TRANSMITTED.

2. Will the Garmin output this sentence?

What changes will I need to make to the pico and Garmin parms in order to
achieve this?

FOR THE PICOPACKET: GIVE THE COMMAND GPSTEXT FOLLOWED BY THE STRING YOU
WISH TO BE USED. FOR EXAMPLE: GPSTEXT $GPXYZ <CR>

NOTE TO THE PROTOCOL POLICE: I'M RESPONDING IN UPPER CASE TO DIFFERENTIATE
MY RESPONSES FROM HASAN'S TEXT. USING MS EXCHANGE IN 'FORWARD' MODE INSTEAD
OF 'REPLY' MODE TO AVOID THE UNWANTED WINMAIL.DAT ATTACHMENT.
```

1001. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 28 Jun 1996 06:42:12 -0700
To: aprssig@tapr.org
Message-ID: <31D3E134.5A2C@worldnet.att.net>
Rendered body type: text/plain

```
Well it made another pass this orning in packet mode. sure seen a lot of
stations getting conformation, but when i went to do a (F)ile (S)ave APRS
chrashed to Dos. I'm using version 76e beta. Also if nobody seen my
gridsquare on APRS then it must not be working Hi. I can't realy tell
because half the pass i transmitted then switched to receive for the
other half. And yes i did have it in space mode and hit the X-B to tx. Is
there any way to tell if you in fact are in the correct mode?, on the
upper left it sez Armed!. By the way didn't see anyone on the APRS map.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1002. Re: [APRSSIG:2462] Re: Garmin 45

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Fri, 28 Jun 1996 07:42:50 -0700
To: aprssig@tapr.org
Message-ID: <31D3EF6A.7505@worldnet.att.net>
Rendered body type: text/plain

```
Paul Sadowski wrote:
>
> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
> for $240 at boat US... $230 if you are a member and got the flyer in
>
> Al
> AH6LS

Magellan is a better deal since it INCLUDES bracket and cable which is
almost $50 extra with Garman 45.  Same store.

Bud (WB4LTF)
```

1003. Re: [APRSSIG:2469] GPS Sentences & APRS

From: schiers@ames.net
Date: Fri, 28 Jun 96 08:04:33 -0500
To: aprssig@tapr.org
Message-ID: <199606281308.IAA23484@tapr.org>
Rendered body type: text/plain

```
In <722233@bbs.ames.net>, on 06/28/96 at 07:16 AM,
   aprssig@tapr.org said:

>1. Will the pico packets gps mode support this other sentence?

>YOU CAN SPECIFY ANY SENTENCE YOU LIKE - IT DEFAULTS TO $GPGGA. CODE NOW
>IN  PRELIMINARY TESTING WILL ALLOW YOU TO SPECIFY UP TO FOUR DIFFERENT
>SENTENCES TO BE TRANSMITTED.

There was no signature on this message, so I don't know who to thank. In
case is was Gwynn, let me say:

Setup: Garmin 45, PicoPacket (1 port) , BlackJack dash antenna (KU0G):

1. I have it working perfectly now with GPSTEXT set to $GPRMC. 2. The pico
packet is one of the nicest tnc's I have ever used. 3. Service at PacComm
is outstanding (customer support).

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

1004. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 28 Jun 1996 08:11:34 -0700
To: aprssig@tapr.org
Message-ID: <31D3F626.21A5@worldnet.att.net>
Rendered body type: text/plain

```
Another packet pass this mrning at 7:59am. Let me know if there was
anybody watching heir APRS screen.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1005. Re: [APRSSIG:2457] Re: Voice REPEATERs on APRS

From: schiers@ames.net
Date: Fri, 28 Jun 96 08:14:55 -0500
To: aprssig@tapr.org
Message-ID: <199606281316.IAA23610@tapr.org>
Rendered body type: text/plain

```
In <721766@bbs.ames.net>, on 06/27/96 at 04:54 PM,
   aprssig@tapr.org said:

> I doubt that i could fit all the local vice repeaters on my local map.
                                          ^^^^
This quote from EER is just toooo juicy to pass up.

No wonder we have a crime problem.

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

1006. APRS Sarex report (5)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 28 Jun 1996 09:43:24 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960628092915.1451A-100000@arctic>
Rendered body type: text/plain

```
This morning's 0730 EDT (1130z) pass was the best for packet so far.  I
copied 22 SAREX packets but still no APRS position reports were seen.
Nothing was heard on the next 0905 EDT pass.  We are still waiting on the
first report of an APRS position report.  Keep trying!  The Shuttle
Columbia  callsign is W5RRR-1.  Here is the updated log for the East
Coast:

DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
```

```
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East coast
26  1350  1750z packets over USA
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z nothing heard
```

Remember, in SPACE mode, the GRID SQUARE POSIT is inserted in your BEACON. Do not send any APRS packets except your BEACON. Use the XMIT-BEACON command. Do not send APRS messages!

Look on the ALL-BEACONS page to see the list of separate packets heard. Unfortunately it does not show the TO callsin, but it does give more information than the LATEST and D pages show.

Later when things calm down, sending your POSIT might be OK, but that is a much longer packet and is not needed if you send a SPACE MODE BEACON. The SPACE MODE BEACON will put you on the map (using the gridsquare format)

de wb4apr@amsat.org

1007. Re: [APRSSIG:2464] Garmin-20, Deaf??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 28 Jun 1996 09:52:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960628094634.1451B-100000@arctic>
Rendered body type: text/plain

I looked up the specs for the GPS-20, and it is supposed to have a sensitivity of -166 dBW minimum. This is 6 dB better than their TRACKPAC models (-160 dBW). There are 3 people that have reported difficulty in getting a FIX with their GPS-20's. (Porbably half of the usrs have not finished putting their units together yet.)

How many of you have your GPS-20 hooked up an ARE getting good sesnsitivity and fixes?

Reply to me direct, and BRIEFLY (1 screen) and I will summarize.

de wb4apr@amsat.org

1008. RE: [APRSSIG:2470] STS-78

From: Clarke_Tom%PAX6@mr.nawcad.navy.mil
Date: Fri, 28 Jun 1996 09:56:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <PAX6/A0023305/P04/PAXMB1*@MHS>
Rendered body type: text/plain

I am glad to see that I am not the only one experiencing such problems. I had my machine on for several days and nothing appeared except the "armed" indicator! Wouldn't you know it on the way to work this morning I heard packets on 145.55 as my HT scanned past! I wonder if there is a change needed to the filter setting? Good luck de Tom Clarke W4OKW, Pax River, MD.

```
 ----------
|From: "aprssig@tapr.org"@PMDF@PAXMB1
|To: clarke tom; "aprssig@tapr.org"@PMDF@PAXMB1
|Subject: [APRSSIG:2470] STS-78
|Date: Friday, June 28, 1996 8:37AM
|
|<<File Attachment: 00000000.TXT>>
|Well it made another pass this orning in packet mode. sure seen a lot of
|stations getting conformation, but when i went to do a (F)ile (S)ave APRS
|chrashed to Dos. I'm using version 76e beta. Also if nobody seen my
|gridsquare on APRS then it must not be working Hi. I can't realy tell
|because half the pass i transmitted then switched to receive for the
|other half. And yes i did have it in space mode and hit the X-B to tx. Is
|there any way to tell if you in fact are in the correct mode?, on the
```

```
|upper left it sez Armed!. By the way didn't see anyone on the APRS map.
|--
|Bill KE4EER
|ke4eer@worldnet.att.net
|ke4eer@amsat.org
|
```

1009. STS-78

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 28 Jun 1996 10:19:53 +0000
To: aprssig@tapr.org
Message-ID: <199606281424.KAA00574@hemisphere.neocomm.net>
Rendered body type: text/plain

```
I heard two packet  from the shuttle this morning about 07:30.

w5rrr-1*>n3cxp:#337-is your STS-78 QSO number.

w5rrr-1*>SAREX:#336-is your STS-78 QSO number.

My kepplarian data (latest data 1 days old) put the shuttle
over Australia about 07:30 ???

Space mode is armed an ready!!

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
```

1010. Re: [APRSSIG:2475] APRS Sarex report (5)

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 28 Jun 1996 09:49:04 -0700
To: aprssig@tapr.org
Message-ID: <31D40D00.2759@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> This morning's 0730 EDT (1130z) pass was the best for packet so far.  I
> copied 22 SAREX packets but still no APRS position reports were seen.
> Nothing was heard on the next 0905 EDT pass.  We are still waiting on the
> first report of an APRS position report.  Keep trying!  The Shuttle
> Columbia  callsign is W5RRR-1.  Here is the updated log for the East
> Coast:
>
> DAY EDT   ZULU  COMMENTS
> --------  ----- -------------
> 21  1745  2145z Voice KO4HD Fl Keys
> 21        2238z Voice Guiccone San DIego, and W5GEL Texas
> 22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
> 23  1535  1935z voice heard in S. Fla
> 23        2110z Voice heard in Calif
> 24  0740  1140z nothing heard on next 4 passes
> 24  1355  1755z voice reported in Texas           END FIELD DAT
> 24  1530  1930z nothing heard on next 3 passes
> 25  1045  1445z I missed the pass
> 25  1230  1620z Voice over usa.  THey said Packet soon!
> 25  1400  1750z Voice over USA
> 26  0730  1130z Packet reported fm Alabama
> 26  0904  1304z Packet reported in Houston & East coast
> 26  1350  1750z packets over USA
> 26  1500  1900z ? (I missed it. Anyone else have a report?)
> 27  0725  1125z nothing heard this pass and the 0900 EDT pass
> 27  1035  1435z voice heard on this and 1610z, and 1745z passes
> 27  1510  1910z ? (i missed it.  Anyone else have a report?)
> 28  0725  1125z 22 packets copied in Maryland
> 28  0900  1300z nothing heard
>
> Remember, in SPACE mode, the GRID SQUARE POSIT is inserted in your
> BEACON.  Do not send any APRS packets except your BEACON.  Use the
> XMIT-BEACON command.  Do not send APRS messages!
>
> Look on the ALL-BEACONS page to see the list of separate packets heard.
> Unfortunately it does not show the TO callsin, but it does give more
> information than the LATEST and D pages show.
>
> Later when things calm down, sending your POSIT might be OK,  but that is
> a much longer packet and is not needed if you send a SPACE MODE BEACON.
> The SPACE MODE BEACON will put you on the map (using the gridsquare format)
```

>
> de wb4apr@amsat.org

Sorry Bob but i don't think APRS is working, i know i had no problem
contacting the shuttle (Like before Hi) so it should have sent my gridsquare.

--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

1011. Re: [APRSSIG:2473] STS-78

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 28 Jun 1996 10:51:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960628104848.1451H-100000@arctic>
Rendered body type: text/plain

On Fri, 28 Jun 1996, William Nolle wrote:

> Another packet pass this mrning at 7:59am. Let me know if there was
> anybody watching heir APRS screen.

APRSdos REPLY COMMENT: Really? I didnt hear any. But I am frsutrated by
a 150 foot coax run, local pagers, and the fact that my PA amp (with
receive pre-amp) smoked yesterday. SO I am listiening with somewhat poor
ears.. PS congratulations on at least one packet even though no one has
reported a POSIT yet.

Why cant you set two memories, one to 145.55 and one to 144.49 and
switch to the UPLINK when you hit X-B and leave it on DOWNLINK inbetween?

de wb4apr@amsat.org

1012. Re: Garmin-20, Deaf??

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Fri, 28 Jun 1996 10:08:21 -0500
To: aprssig@tapr.org
Cc: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Message-ID: <v02140b00adf9a3d84f6b@[204.251.33.73]>
Rendered body type: text/plain

Stacey,

I just finished two GPS-20 units in a cast aluminum boxes (with a
PicoPacket attached to the inside of the lid). Initial fix under trees
(using the Trimble antenna from PacComm) took 15 min on one and 10 min on
the other. Now get fix on either unit in 1-2 min under trees if unit has
been off a day or two and in about 20 secs if unit has been off for a short
time.

Performance almost identical to my Garmin GPS 45 using the same antenna in
same location.

Using 7805 barefoot (5.1 V on one and 4.95 on other).

Ron W5RKN

>Date: Thu, 27 Jun 1996 22:20:07 -0400
>From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
>To: aprssig@tapr.org
>Subject: Garmin-20, Deaf??
>Message-ID: <2.2.32.19960628022007.0067a12c@avery.med.virginia.edu>
>
>I've got to add my sentiments to the others re. this unit. I have a
>Garmin-45 with which I am quite pleased. The Garmin-20 will lock if I use
>an active (pre-amp) Garmin fixed-base (marine) antenna and a short (30 ft)
>run of coax...but conditions have to be perfect and even then the lock takes
>quite a while. With a 60 ft. run of mini RG-8 coax from the pre-amp on my
>tower GPS antenna, the Garmin-45 locks in about a minute with good to
>adequate signal strengths shown on 4-6 satellites .....the Garmin-20 won't
>lock after hours......on my outside deck with the Garmin-45 standard
>antenna, I get lock in about a minute with good signal strength....put the
>antenna on the Garmin-20 and after multiple hours we're still not there.
>
>I have my unit in a cast aluminum box with a BNC connector for the RF, 7805
>regulator, floated with two signal diodes in series between the center (gnd)

```
>lead of the 7805 and the true ground to give an output voltage of 5.4 volts.
>(without floating, the voltage is 4.88 volts).
>
>Any ideas???  Got a good design for a pre-amp???  I want the unit for APRS.
>I could make it work as a stationary unit for a TAC, but the
>sensitivity/lock-in time seems to be a major problem for mobile operation.
>-------
>--de WB4QKT
>Stacey E. (Chuck)  Mills
>E-mail: sem2r@galen.med.virginia.edu
```

1013. 1278 TNC

From: jhaskell@iquest.net (Jon R. Haskell)
Date: Fri, 28 Jun 96 10:29 EST
To: aprssig@tapr.org
Message-ID: <m0uZfUA-00495iC@iquest.net>
Rendered body type: text/plain

```
I am having difficulty in getting the APRS and my older 1278 to communicate.
Since the MFG documentation refers to using a 7 Bit setting, I have been
using that parameter and adjusting the others. A local ham said he could
never get APRS to operate with 7 Bit and suggested I use 8 Bit....problem
is, I can't seem to force the 1278 to operate with that parameter...aarrgh!
Any body been there, done it, and got the T-shirt, using an older 1278?
Jon  KB9CML
```

1014. Re: [APRSSIG:2463] Re: Repeater Maped

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Fri, 28 Jun 96 08:33:52 PDT
To: aprssig@tapr.org
Message-ID: <9606281533.AA24677@eng.adaptec.com>
Rendered body type: text/plain

```
christen@codger.physics.duq.edu wrote
>
> The Western PA repeater council gives *NO* information.  Period.
>
> I've been after them for two years to find the best frequency to put my mobile
> repeater, which will only be used for emergencies.  All I get is "There are no
>  two meter channels available".
>
> I've heard that other coordinators aren't so tight-lipped about such
> information.


Uhm...I would suspect that our local coordination group is as tight
lipped as you are sugesting.  NARCC which coordinates Northern CA
has a policy of keeping their dbase completely private.  They only
release a portion of it too the league each year for the repeater
directory.

I'll wager that this policy is more pervasive than you imagine.

Steve KA6S
```

1015. Garmin 45 vs Magellen trailblazer

From: kc4zgq@ix.netcom.com (JOHN F. KRAUS II)
Date: Fri, 28 Jun 1996 08:54:52 -0700
To: aprssig@tapr.org
Message-ID: <199606281554.IAA11541@dfw-ix12.ix.netcom.com>
Rendered body type: text/plain

```
Good morning to the sig.
I have a couple of questions about the garmin 45 vs the magellen
trailblazer.  I have a tracker built and plan to use it mobile as soon
as a permanant wide-relay digi is online [waiting for crystals now].
However I am still undecided as to which gps unit I will buy

1:   Does the Magellen have the 99km limit ?

2:   What is the battery life IE how may days/ positions can I expect
     from a set of batteries.  I plan to use it for hiking and
     backpacking as well as a stand alone tracker with a kpc-3.

3:   I would apperciate any comments from owners of each unit
     concerning their personal opinions on durability, customer
     support, ease of use, and overall satisfaction with the unit.
```

Please reply directly to me via e-mail unless the answer is of use to
the sig. The addresses are below.

Please send e-mail to

<KC4ZGQ@IX.NETCOM.COM> or <JKHAM@DELPHI.COM> John F. Kraus II RN

1016. RE: [APRSSIG:2475] APRS Sarex report (5)

From: Clarke_Tom%PAX6@mr.nawcad.navy.mil
Date: Fri, 28 Jun 1996 12:26:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <PAX6/A0023375/P04/PAXMB1*@MHS>
Rendered body type: text/plain

I wonder if the digi is enabled?

Tom Clarke (The "other" Tom Clarke, hereabouts), W4OKW
clarke_tom%pax6@mr.nawcad.navy.mil

```
 ----------
|From: "aprssig@tapr.org"@PMDF@PAXMB1
|To: clarke tom; "aprssig@tapr.org"@PMDF@PAXMB1
|Subject: [APRSSIG:2475] APRS Sarex report (5)
|Date: Friday, June 28, 1996 11:15AM
|
|<<File Attachment: 00000000.TXT>>
|This morning's 0730 EDT (1130z) pass was the best for packet so far.  I
|copied 22 SAREX packets but still no APRS position reports were seen.
|Nothing was heard on the next 0905 EDT pass.  We are still waiting on the
|first report of an APRS position report.  Keep trying!  The Shuttle
|Columbia  callsign is W5RRR-1.  Here is the updated log for the East
|Coast:
|
|DAY EDT   ZULU  COMMENTS
|--------  ----- -------------
|21  1745  2145z Voice KO4HD Fl Keys
|21        2238z Voice Guiccone San DIego, and W5GEL Texas
|22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
|23  1535  1935z voice heard in S. Fla
|23        2110z Voice heard in Calif
|24  0740  1140z nothing heard on next 4 passes
|24  1355  1755z voice reported in Texas          END FIELD DAT
|24  1530  1930z nothing heard on next 3 passes
|25  1045  1445z I missed the pass
|25  1230  1620z Voice over usa.  THey said Packet soon!
|25  1400  1750z Voice over USA
|26  0730  1130z Packet reported fm Alabama
|26  0904  1304z Packet reported in Houston & East coast
|26  1350  1750z packets over USA
|26  1500  1900z ? (I missed it. Anyone else have a report?)
|27  0725  1125z nothing heard this pass and the 0900 EDT pass
|27  1035  1435z voice heard on this and 1610z, and 1745z passes
|27  1510  1910z ? (i missed it.  Anyone else have a report?)
|28  0725  1125z 22 packets copied in Maryland
|28  0900  1300z nothing heard
|
|Remember, in SPACE mode, the GRID SQUARE POSIT is inserted in your
|BEACON.  Do not send any APRS packets except your BEACON.  Use the
|XMIT-BEACON command.  Do not send APRS messages!
|
|Look on the ALL-BEACONS page to see the list of separate packets heard.
|Unfortunately it does not show the TO callsin, but it does give more
|information than the LATEST and D pages show.
|
|Later when things calm down, sending your POSIT might be OK,  but that is
|a much longer packet and is not needed if you send a SPACE MODE BEACON.
|The SPACE MODE BEACON will put you on the map (using the gridsquare format)
|
|de wb4apr@amsat.org
|
|
|
|
|
|
|
|
|
|
|
```

|
|

1017. Re: [APRSSIG:2476] Re: Garmin-20, Deaf??

From: Joseph Agrelo <jagrelo@cris.com>
Date: Fri, 28 Jun 1996 12:34:14 -0700
To: aprssig@tapr.org
Message-ID: <31D433B6.ECE@concentric.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> I looked up the specs for the GPS-20, and it is supposed to have a
> sensitivity of -166 dBW minimum.  This is 6 dB better than their TRACKPAC
> models ( -160 dBW).  There are 3 people that have reported difficulty in
> getting a FIX with their GPS-20's.  (Porbably half of the usrs have not
> finished putting their units together yet.)
>
> How many of you have your GPS-20 hooked up an ARE getting good sesnsitivity
> and fixes?
>
> Reply to me direct, and BRIEFLY (1 screen) and I will summarize.
>
> de wb4apr@amsat.org

I'm using my GPS-20 with the PacComm/Trimble $50 active antenna and it works
perfect, satelite acquisition time is even better than I expected.

My *uneducated* guess would be a antenna problem.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
      E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

1018. Re: [APRSSIG:2481] Re: Garmin-20, Deaf??

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Fri, 28 Jun 1996 09:38:08 -0700 (PDT)
To: "Ronald G. Parsons" <w5rkn@amsat.org>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960628093606.25896A-100000@spork.callamer.com>
Rendered body type: text/plain

```
Good comments regarding the Garmin 20.  I too need a preamp and a filter I
would think.  The MAR 6 does not now seem the best answer but at least a
start.  Can either of you tell me what the INITIAL lockup time was for
your Garmin 20 without a pre-amp and with clear sky horizon?  Cliff K7RR
```

1019. Re: [APRSSIG:2471] Re: Garmin 45

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Fri, 28 Jun 1996 10:07:34 -0700 (PDT)
To: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960628100709.25896D-100000@spork.callamer.com>
Rendered body type: text/plain

```
How does one get the discount coupon for this store?  Cliff K7RR

On Fri, 28 Jun 1996, B.G. Gotshall wrote:

> Paul Sadowski wrote:
> >
> > Just to let everyone know... this weekend on, Garmin GPS 45's for sale
> > for $240 at boat US... $230 if you are a member and got the flyer in
> >
> > Al
> > AH6LS
>
> Magellan is a better deal since it INCLUDES bracket and cable which is
> almost $50 extra with Garman 45.  Same store.
```

```
>
> Bud (WB4LTF)
>
>
```

1020. Re: [APRSSIG:2474] Re: Voice REPEATERs on APRS

From: ku0g@sprynet.com
Date: Fri, 28 Jun 1996 11:15:22 -0700
To: aprssig@tapr.org
Message-ID: <199606281815.LAA27792@m1.sprynet.com>
Rendered body type: text/plain

```
On Fri, 28 Jun 1996, schiers@ames.net wrote and ku0g@sprynet.com added to the
clutter:
>In <721766@bbs.ames.net>, on 06/27/96 at 04:54 PM,
>   aprssig@tapr.org said:
>
>> I doubt that i could fit all the local vice repeaters on my local map.
>                                         ^^^^
>This quote from EER is just toooo juicy to pass up.
>
>No wonder we have a crime problem.
>
>hasan schiers, N0AN--
>-----------------------------------------------------------
>schiers@ames.net
>

YOU SHOULD TAKE A LISTEN TO 146.82 IN KANSAS CITY SOME EVENING!!!  I'LL READILY
SECOND HASAN'S STATEMENT!!!

-----------------------------------------------------------
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

1021. vhf

From: N8CHB <n8chb@tir.com>
Date: Fri, 28 Jun 1996 18:18:46 +0100
To: aprssig@tapr.org
Message-ID: <31D413F6.2154@tir.com>
Rendered body type: text/plain

```
Hello,

 This may hve bin asked be 4 so pls excuse the bandwidth.
  I hve bin doing some ant testing on vhf
 over the past few days and wondering abt
 the reasoning 4 hving more than one WIDE in the path?
 example:  APRS VIA WIDE, WIDE, WIDE, WIDE, etc

 It would seem to me that more than one wide would
 lesson chances of being heard rather than
 extend ur range. Wouldn't using just one wide also
 decrease collisions and allow weaker signals from
 vehicles and low power rigs to be heard.

 Thanks fer the time and still hve not figured out
 how to disply a house on hf and a star on vhf
 putting "-, #" don't fly and can find no info
 in hf.txt abt it.

 73

 Roger N8CHB
```

1022. Re: [APRSSIG:2475] APRS Sarex report (5)

From: N5RKN@aol.com
Date: Fri, 28 Jun 1996 14:44:38 -0400
To: aprssig@tapr.org
Message-ID: <960628144436_566155279@emout07.mail.aol.com>
Rendered body type: text/plain

```
We heard W5RRR-1 on the 26th at the APRS station setup at the NWS in
Midland..
```

```
That was the last heard.... HOWEVER, I just got a good voice copy on MIR as
our
female astronaut/cosmonaut was in a great pass over within the last hour.  No
packet, just voice.  But, they sounded like they had landed next door.
 Unfortunately,
we were mobile with just a 1/4 wave antenna.
  73'  Robert
```

1023. Re: [APRSSIG:2487] Re: Garmin-20, Deaf??

From: Assi Ben-Shalom <assib@techunix.technion.ac.il>
Date: Fri, 28 Jun 1996 22:10:55 +0300 (IDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960628213346.18174A-100000@techunix.technion.ac.il>
Rendered body type: text/plain

```
Hi,
This is my first attempt with GPS recievers + antennas.
The papers we recieved with the GPS-20 suggested we build 1/4 Lambda
antenna's, now such antennas tend to look to the horizon which tends
to be good with the LEOs such as the KO-23... , I once made calculations
and found that 66 % of the passes are below 30 Deg elevation.
So the antenna suggested seems logical, today I recieved a copy
of an article in QST about a homemade GPS antenna.
Now the aurther sais - it is better to have an antenna that looks
streight up then to the horizon because it is most likely that
the horizon will be blocked by obsticles when you are mobile.
What say the gps experts ??
Maybe we should build patch antennas ?
bye, Assi
----------------------
Assi Ben-Shalom 4Z7ABA
----------------------
```

1024. Re: [APRSSIG:2483] Re: Repeater Maped

From: rwf <rwf@mindspring.com>
Date: Fri, 28 Jun 1996 15:25:35 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960628192535.009a3d10@mindspring.com>
Rendered body type: text/plain

```
At 10:42 AM 6/28/96 -0500, it was written:
>Uhm...I would suspect that our local coordination group is as tight
>lipped as you are sugesting.  NARCC which coordinates Northern CA
>has a policy of keeping their dbase completely private.  They only
>release a portion of it too the league each year for the repeater
>directory.
>
>I'll wager that this policy is more pervasive than you imagine.
>
>Steve KA6S
>
>

Quite so...   repeater owners do not usually want exact addresses or
coordinates given to the public.  The coordinators honor this.  Until the
average ham could USE coordinates (APRS, GPS, etc)- no one really had a use
for that info except for coordination (or site jumping) issues.

Now, of course, we can use the info for other purposes but I'll bet the
policy will remain the same.

Try using the town name and looking the town up in that Net resource that
gives lat/long of the center of all known towns.  That will give you a
pretty close location most of the time. (Unless you have a guy like  the guy
here locally who kept having his repeater be too close in miles to a
co-channel machine)  He was told to move it, so he just renamed the Mtn and
left it at the same place.  He has since renamed it twice more.  It is
currently named after the owner of the tower.

Sorry- I can't locate the town name database, but I'm sure someone will have
it here and speak up.



                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
```

      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

1025. Re: [APRSSIG:2486] Re: Garmin-20, Deaf??

From: rwf <rwf@mindspring.com>
Date: Fri, 28 Jun 1996 15:25:38 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960628192538.0099b4b4@mindspring.com>
Rendered body type: text/plain

```
At 11:37 AM 6/28/96 -0500, it was written:
There are 3 people that have reported difficulty in
>> getting a FIX with their GPS-20's.  (Porbably half of the usrs have not
>> finished putting their units together yet.)
>>
>> How many of you have your GPS-20 hooked up an ARE getting good sesnsitivity
>> and fixes?
>>
>> Reply to me direct, and BRIEFLY (1 screen) and I will summarize.
>>
>> de wb4apr@amsat.org
>
>I'm using my GPS-20 with the PacComm/Trimble $50 active antenna and it works
>perfect, satelite acquisition time is even better than I expected.
>
>My *uneducated* guess would be a antenna problem.
>
>73 De Joe N2OOC


I agree as well.  Sticking wires in antenna connectors at 1.5 GHz and having
something work is a little different than loading up a bedspring or rain
gutter on HF.  Guys, get a real antenna. Call up Paccomm and get that
trimble antenna.  I can't even buy 'em from Motorola at cost for that price!

Using a real antenna on a GPS vs a piece of wire (or even the helix that
comes with it) is like going from a handie talkie/rubber duck in the car to
a 25 watt rig and 5/8 antenna!

Ralph
```

1026. Re: [APRSSIG:2490] vhf

From: rwf <rwf@mindspring.com>
Date: Fri, 28 Jun 1996 15:36:12 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960628193612.00675f4c@mindspring.com>
Rendered body type: text/plain

```
At 01:40 PM 6/28/96 -0500, it was written:
 wondering abt
> the reasoning 4 hving more than one WIDE in the path?
> example:  APRS VIA WIDE, WIDE, WIDE, WIDE, etc
 <snip>
> Roger N8CHB


Maybe to perk up development of the WIDE-N scheme of Bob's (and others).  I
hope that soon we will see digis that do not digi the same packet more than
once.  Then you can use 10 wides and go all the way to canada.

I'd like to see all of the TNC code writers go ahead and get on the stick
with a means to do this soon!



I do have my 2 digis set to 3 wides right now.  They only beacon every 10
minutes. It also made for some nice propo during the band opening recently.

My little peeve right now is the inexcusable use of RELAY at the end of a
path.  Twice this week, a mobile stand alone (airborne- even) tracker has
done this and caused every APRS station for probably 3 states to redigi him
once a minute.  We couldn't even watch TV this past weekend due to the TVI
from my APRS antenna which is just above a highly amplified TV antenna.
Usually my own transmissions are far enough apart to not really matter, but
this was every minute.  Grrr... my wife is really down on APRS right now  :)

ralph  (or rwf to those who have a problem with me not using my name)
```

1027. Re: [APRSSIG:2491] Re: APRS Sarex report (5)

From: Eric Roby <eric@ncweb.com>
Date: Fri, 28 Jun 1996 16:15:36 -0400
To: aprssig@tapr.org
Message-ID: <31D43D68.75E5@ncweb.com>
Rendered body type: text/plain

N5RKN@aol.com wrote:
>
> We heard W5RRR-1 on the 26th at the APRS station setup at the NWS in
> Midland..
> That was the last heard.... HOWEVER, I just got a good voice copy on MIR as
> our
> female astronaut/cosmonaut was in a great pass over within the last hour. No
> packet, just voice. But, they sounded like they had landed next door.
> Unfortunately,
> we were mobile with just a 1/4 wave antenna.
> 73' Robert

A 1/4 wave will work just fine for a qso with MIR. I have talked to
them on a 1/4 wave on my truck. Most of the time on 2M if you can hear
them they can hear you.

73 Eric N8RPX

1028. Re: Garmin-20, Deaf??

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Fri, 28 Jun 1996 16:35:53 -0400
To: aprssig@tapr.org
Message-ID: <199606282037.QAA93560@avery.med.Virginia.EDU>
Rendered body type: text/plain

At 02:43 PM 6/28/96 -0500, you wrote:
[snip]
>>
>>I'm using my GPS-20 with the PacComm/Trimble $50 active antenna and it works
>>perfect, satelite acquisition time is even better than I expected.
>>
>>My *uneducated* guess would be a antenna problem.
>>
>>73 De Joe N2OOC
>
>
>I agree as well. Sticking wires in antenna connectors at 1.5 GHz and having
>something work is a little different than loading up a bedspring or rain
>gutter on HF. Guys, get a real antenna. Call up Paccomm and get that
>trimble antenna. I can't even buy 'em from Motorola at cost for that price!
>
>Using a real antenna on a GPS vs a piece of wire (or even the helix that
>comes with it) is like going from a handie talkie/rubber duck in the car to
>a 25 watt rig and 5/8 antenna!
>
>Ralph

Well, I agree in principle, and I 've ordered a Trimble active
antenna.....BUT, I have a Garmin-45 and a Garmin active "marine" antenna and
the undeniable fact is that with either the 45's detachable antenna or the
Garmin active antenna (admitted through 80 ft of mini RG-8) my Garmin-45
gets solid locks in no time (1-2 minutes), showing mid-scale readings on 4-6
satellites with either setup. My Garmin-20 won't lock at all on either of
these antennas unless I take the active antenna down from my tower and
shorten the coax to the point (30 ft) where the Garmin-45 shows full max
readings on 4-6 satellites...then and only then can I get a lock (at least I
could a few days ago, I'll repeat it over the weekend). That sure sounds
like my Garmin-20 is a lot less sensitive than the Garmin-45 that I have. I
don't think it's unreasonable to aim for sensitivity equal to the Garmin-45.
Ron Parsons described exactly that (equal sensitivity / lock time) in his
note on the Garmin-20 vs. -45.

My Garmin-20 did lock with the "short coax" active antenna above,
and so it shouldn't require "sky search" only two days later from the same
QTH. The clock is essentially "right on" from this setup. Appropriate
voltage is present on the antenna connector. The RG-174 pigtail is
connected to a through case BNC connector, regulated voltage is 5.4 volts.
NMEA text lines appear instantly on turn on, list satellites in view, and
show transient signal strengths on 0-2 satellites, but that's it after
running multiple hours. I will climb the tower, bring down my active
antenna and shorten the coax, just to confirm that I can still get lock

with the higher signal strengths, but if the 45 can lock easily in this setting, the 20 should as well. It's more than an antenna problem, at least in my case.

Thanks for your help and comments.

Stacey E. Mills
E-Mail: sem2r@galen.med.virginia.edu
Office Phone: 804-982-4406
Office Fax: 804-924-8767

1029. Re: [APRSSIG:2492] Re: Garmin-20, Deaf??

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Fri, 28 Jun 1996 17:30:17 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960628213017.00751274@seism1.ess.sunysb.edu>
Rendered body type: text/plain

MIME-version: 1.0
X-Mailer: Windows Eudora Pro Version 2.2 (32)
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7BIT

At 02:21 PM 6/28/96 -0500, you wrote:

>The papers we recieved with the GPS-20 suggested we build 1/4 Lambda
>antenna's, now such antennas tend to look to the horizon which tends
>to be good with the LEOs such as the KO-23... ,

GPS sats have nothing to do with KO-23 and the likes.

>I once made calculations
>and found that 66 % of the passes are below 30 Deg elevation.

GPS sat passes are all over the place at the same time, and you have to look everywhere at the same time to be able to get 4 decent signals.

>So the antenna suggested seems logical,

No, at least not for this reason.
What is true is that from a geometrical point of view, you will get a more precise solution if the sats are near the horizon (max distance between each sat). But trees are likely to grow closer to the horizon than right above our heads, so you still want your antenna to see something straight up.

> today I recieved a copy
>of an article in QST about a homemade GPS antenna.
>Now the aurther sais - it is better to have an antenna that looks
>streight up then to the horizon because it is most likely that
>the horizon will be blocked by obsticles when you are mobile.

A patch antenna is by nature somehow directional normal to the patch surface. I suspect the author just put this comment afterward to "justify" the choice of the design versus this fact.
The best antenna for GPS would be this patch "which looks straight up", but sees even better horizontally at the same time!

The qst patch has for advantages to be easy to build and to give reproducible results (not everybody agree on this one, though) without adjustments.

Compared to my garmin 45 helix (connected at the handheld), my patch (with 2.5 m of ordinary coax) gives -similar- results (both antenna at the same place, i.e. on the roof of the car).
The patch does see better vertically than horizontally, and that can be annoying with some sats configurations.
But if I compare the helix with ~2m of coax (so I can move the GPS inside the car and drive), the patch is far better. The worse is the helix fixed to the gps inside the car, near the windshield.
Now with the canopy we have here on Long Island I consistently get poor results, with both antennas, on my way home!

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/

1030. Re: [APRSSIG:2494] Re: Garmin-20, Deaf??

From: ku0g@sprynet.com
Date: Fri, 28 Jun 1996 15:13:34 -0700
To: aprssig@tapr.org
Message-ID: <199606282213.PAA26829@m1.sprynet.com>
Rendered body type: text/plain

```
Please don't forget The Blackjack GPS Patch Antenna as a good place to start for
the GPS-20!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

1031. Nothing heard on sarex yet

From: KD4EMI@aol.com
Date: Fri, 28 Jun 1996 19:10:17 -0400
To: aprssig@tapr.org
Message-ID: <960628191017_342870174@emout15.mail.aol.com>
Rendered body type: text/plain

```
Ive been "ARMED" on the sarex pair since Tuesday...

No contact yet.
MIke
KD4EMI@AOL.COM
```

1032. GPS-20 with different antennas

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Fri, 28 Jun 1996 18:45:24 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00adfa1cbdb6da@[204.251.33.78]>
Rendered body type: text/plain

```
I tested acquisition times on a GPS-20 with three different antennas:

1. A Trimble amplified antenna (from PacComm) 3-4 m of coax
2. The quadrifilar antenna from a GPS 45 very close to GPS
3. A patch antenna from QST with about 2 feet of RG-58

Prior to testing, a fix was obtained and the GPS turned off for several minutes.

In terms of getting a fix after the GPS had been off several minutes, all
three acquired a fix in 1-2 minutes. After the GPS had been off about 10
seconds, the acquisition was 20-30 secs with all three antennas.

In other words, there was no observable difference between the three antennas.

The site was about 30-40% covered with trees.


Ron W5RKN

also:
rparsons@bga.com
```

1033. Re: [APRSSIG:2482] 1278 TNC

From: Larry Miller <lmiller@ezl.com>
Date: Fri, 28 Jun 1996 19:11:16 -0500
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.32.19960629001116.00678664@www.ezl.com>
Rendered body type: text/plain

```
At 10:40 AM 6/28/96 -0500, Jon R. Haskell wrote:
>I am having difficulty in getting the APRS and my older 1278 to communicate.

>Any body been there, done it, and got the T-shirt, using an older 1278?
>Jon  KB9CML
>
Jon...
  You don't mention the model number or indicate how old your 1278 is.  I
have a 1278 B, S/N 30034041, that I have been using for quite a long time
with APRS.

  It even works well after doing a reset.  Following the reset, all I put in
is mycall, start APRS and it works fine.

  I don't have a T-Shirt though!
```

```
Larry
* * * * * * *
E-Mail
  Personal:  lmiller@ezl.com
  Business:  lmiller@email.usps.gov
  Ham Radio: n9lbg@kd9sg.#sil.il
```

1034. GPS-20 Engine- No signal?

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 29 Jun 1996 00:27:34 -0400
To: aprssig@tapr.org
Message-ID: <199606290027.UAA24248@smtp2.erols.com>
Rendered body type: text/plain

```
About three weeks ago, I got the GPS20 engine from TAPR. Put it in a RS box,
used a 7805 regulator to
feed it 5.01vdc, etal.

Took it outside, hooked it to a laptop with dosAPRS (also had winAPRS and
the GPS version of Precison Mapping 2.0). Left it on for an hour using the
antenna from my GARMIN 45. GPS time came up, bunch of sat numbers came up,
GPS sentences came across. Also the GPS time is 5 min off.

BUT, no signal strengths from any sats. And of course, no lat/log. Checked
out to make sure the input voltages were right, checked to see if I had 5vdc
on the center pin of the antenna connector - it did. Even tried using the
"1.8 inch" wire antenna. Nothing works. Put the GARMIN antenna back on my
GARMIN 45, the Garmin 45 got lock in 2 min.

I have tried this three more times... no signal levels from the sats. My
neighbors are wondering why I'm setting in the front yard<g>.

I have read the threads about the long time it takes to initialize the G20.
About you need a real antenna.

Any other ideas... other than a dead receiver?

thanks in advance,

Kent

KQ4KK
```

1035. GPS20 DEAF!!?

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 29 Jun 1996 00:32:58 -0400
To: aprssig@tapr.org
Message-ID: <199606290032.UAA24511@smtp2.erols.com>
Rendered body type: text/plain

```
One more thought on the deaf GPS20s..

At Dayton, Bob said all you need is the 1.8 inch wire. "It works fine".

If Bob's worked... whats wrong with ours?


He may have a different batch GPS20?

I got mine in this last batch from TAPR .... AFTER Dayton.

Anyone else have a new batch GPS20 that is deaf?  (or an old batch?)



Kent

KQ4KK
```

1036. SAREX "contact" again!

From: byoung@qni.com
Date: Fri, 28 Jun 1996 19:41:50 -0500
To: aprssig@tapr.org
Message-ID: <9606290041.AA08693@qni.com>
Rendered body type: text/plain

APRS/STS-78 hunters,

Well, for what it's worth, I've seen my second "CONGRATS!!! YOUR
PACKET WAS DIGIPEATED!! EVERYONE ELSE SHOULD SEE YOU TOO!
message. Anybody "see me" today?

I followed Bob's "instructions" for checking APRS system status
after the "contact", and here's the information:

(H)eard: 10 packets @ 0600 and 27 packets @ 0800
(D)igipeaters used: *W5RRR-1 >W5HUQ
(A)ll beacons: totally blank
(P)ositions: just mine :^)

I've done a (F)ile, (S)ave and am pressing on. I haven't lost
faith yet....

Bill Young
byoung@qni.com
KB0UZQ

1037. APRS 74 Help

From: Howard King <hking@cyberlink-inc.com>
Date: Fri, 28 Jun 1996 20:04:04 -0500
To: APRSSIG@tapr.org
Message-ID: <2.2.32.19960629010404.0067daf0@cyberlink-inc.com>
Rendered body type: text/plain

I am looking for some information re: APRS software. What is the latest version?
Is there a version running under windows 95? I have a Wizard weather system,
have these people released their source code to Bob?

Thanks for your help!

Howard W9OCK

1038. Re: [APRSSIG:2493] Re: Repeater Mapping

From: gphowell@interramp.com
Date: Fri, 28 Jun 96 21:19:45
To: aprssig@tapr.org
Message-ID: <199606290123.BAA42033@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

I doubt ANY coordinator would release specific lat and long info without
permission from the repeater owner. Too much liability for releasing
precise locations for any nut case with a sledge hammer and some time on
his hands to visit. One our our local mountain top sites has been broken
into several times despite the fact that it is co-located with an active
(people around all the time) commercial site.
--
----
gphowell@interramp.com

1039. APRS report

From: james.mollica@compudata.com (JAMES MOLLICA)
Date: Fri, 28 Jun 96 10:47:00 -0400
To: aprssig@tapr.org
Message-ID: <8C36287.01F401B7E8.uuout@compudata.com>
Rendered body type: text/plain

BB>coast. We are still waiting on the first report of an APRS position
  >report. Keep trying! The Shuttle Columbia callsign is W5RRR-1. The

Just checked my log file and found this.

```
26-Jun-96  13:12:57  W5RRR-1*>N2OIJ <I;0,0>:
#130-is your STS-78 SAREX QSO number.

26-Jun-96  13:13:03  K1HJC>W5RRR-1*>FN43HB [UI]:
APRS 0.5 on line.
26-Jun-96  13:13:03  W5RRR-1*>SAREX <UI>:
#130-is your STS-78 SAREX QSO number.

26-Jun-96  13:13:04  W5RRR-1*>KA1ZAD <I;0,0>:
#127-is your STS-78 SAREX QSO number.

26-Jun-96  13:13:04  W5RRR-1*>KA1ZAD <UA,F>
```

```
26-Jun-96  13:13:09  W5RRR-1*>KA1ZAD <I;0,0>:
#127-is your STS-78 SAREX QSO number.

26-Jun-96  13:13:09  W5RRR-1*>KA1ZAD <UA,F>
26-Jun-96  13:13:12  W5RRR-1*>KA1ZAD <I;0,0>:
#127-is your STS-78 SAREX QSO number.

26-Jun-96  13:13:15  N2MRH-2*>W5RRR-1 [C,P]
```

 * 1st 2.00 #1439 * N2NRD @ AMSAT.ORG

1040. Re: [APRSSIG:2504] GPS20 DEAF!!?

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Fri, 28 Jun 96 22:44:24 EDT
To: aprssig@tapr.org
Message-ID: <199606290244.CAA43699@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

I hope you guys put bypass caps (1 to 10 uF range) between ground and the input and output of the 7805 regulator. If you don't it may oscillate at RF and could screw up the GPS-20 receiver sensitivity.

Just my $0.02

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

1041. SAREX digipeater?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 28 Jun 1996 23:51:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960628234308.16285B-100000@arctic>
Rendered body type: text/plain

Someone asked if the DIGI was in fact enabled on SAREX, since we are not seeing any APRS packets.

APRSdos REPLY COMMENT: Yes, because KE4EER has digipeated one packet. SO far, his one packet is the only reported UI frame. We are stiii waiting for the first report of a POSIT! Boy, i wonder if we are really trying.

Comment, if you are not participating because you dont have a radio that can operate split on 144.49 up and 145.55 down, then put it on the uplink. There are more than enough of us listening on the downlink and we will see your POSIT.

For those of you ready to condem this suggestin, think about it, The shuttle is operating in full duplex mode so just because you listen on the downlink, there is absolutely nothing that you can hear that will tell you ANYTHHIHNG about colision avoidance on the uplink.

We need to see lots of people trying!

de wb4apr@amsat.org

1042. Re: [APRSSIG:2490] vhf

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 00:02:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960628235841.16285E-100000@arctic>
Rendered body type: text/plain

On Fri, 28 Jun 1996, N8CHB wrote:

>   I hve bin doing some ant testing on vhf
> over the past few days and wondering abt
> the reasoning 4 hving more than one WIDE in the path?
> example: APRS VIA WIDE, WIDE, WIDE, WIDE, etc
> extend ur range. Wouldn't using just one wide also
> decrease collisions and allow weaker signals from
> vehicles and low power rigs to be heard.

APRSdos REPLY COMMENT: Absolutely! There should never (except for the

usual exception for emergencies and very special circumstances) there
should never be more than 2 WIDES in a row. A packet you discribe with 4
WIDES could generate DOZENS of duplicates and totaly saturate the net.
After 2 wides, you must comit to a given diretion and choose specific
DIGI's beyond that: VIA WIDE,WIDE,W3XXX,W4YYY....

de wb4apr@amsat.org

1043. Re: [APRSSIG:2495] Re: vhf

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 00:12:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629000917.16285I@arctic>
Rendered body type: text/plain

On Fri, 28 Jun 1996, rwf wrote:
>
> My little peeve right now is the inexcusable use of RELAY at the end of a
> path. Twice this week, a mobile stand alone (airborne- even) tracker has
> done this and caused every APRS station for probably 3 states to redigi him
> once a minute. We couldn't even watch TV this past weekend due to the TVI

APRSdos REPLY COMMENT: AGREE! No one should ever use RELAY *ANYWHERE* in
a digi string, EXCEPT the first position. Any station that does so, is just
totally un-informed and inconsiderate.

de wb4apr@amsat.org

1044. Re: [APRSSIG:2493] Re: Repeater Maped

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 00:25:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629001332.16285J@arctic>
Rendered body type: text/plain

On Fri, 28 Jun 1996, rwf wrote:
>
> Quite so...   repeater owners do not usually want exact addresses or
> coordinates given to the public. The coordinators honor this. Until the
> average ham could USE coordinates (APRS, GPS, etc)- no one really had a use
> for that info except for coordination (or site jumping) issues.

APRSdos REPLY COMMENT: APRS has always NOT plotted Grid Squares below the
8 mile range in order to maintain the ambiguity of the position. I had
designed this so that Repeater owners could identify their REPEATER
locations using Grid Squares and thereby not reveal their exact location.
The problem is, that the repeater would then appear as a GRID SQUARE, and
not the ANTENNA symbol.

NOT A PROBLEM NOW. As a result of improvements in the SAREX mode, the
next version of APRS allows ANY position report to maintain POSITION
AMBIGUITY! Simply by using the SPACE character in place of a mnumerical
digit in the POSIT, this will tell APRS to maintain the ambguity at that
resolution as follows:

```
     3859.11N    Exact position to nearest 60 feet
     3859.1 N    Symbol and Calsign will not display below 8 miles
     3859   N    Symbol and Callsign will not display below 128 miles
     38     N    Symbol and Callsign will not display below 256 miles
                  (this really only was put in for the DX cluster mode
                  (where stations are plotted according to callsing prefix)
```

P.S. I just finished MD2mrptr.bk, NJ2,rptr.bk and PA2mrptr.bk which can
be loaded or replayed to show the locations of all 2m repeaters in those
states... (They will be posted in a few days...)

de wb4apr@amsat.org

1045. Re: [APRSSIG:2505] SAREX "contact" again!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 00:35:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629003353.16285K-100000@arctic>
Rendered body type: text/plain

Be sure you dont have a kantronices TNC that is echoing its OWN
transmitted packets or that your own radio is echoing back the audio.

If it was, you woul dget an instant congratulations message EVERY time it
transmited. The fact that you are seeing it ONLY when the shuttle is in
view, tells me you are getting DIGIPEATED and SOMEONE OUTTHERE should
have seen your packet. Is anyone else out there in California listening?
hi hi

de wb4apr@amsat.org

1046. Re: [APRSSIG:2508] APRS report

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 00:38:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629003755.16285N@arctic>
Rendered body type: text/plain

On Fri, 28 Jun 1996, JAMES MOLLICA wrote:

> BB>coast. We are still waiting on the first report of an APRS position
>   >report. Keep trying! The Shuttle Columbia callsign is W5RRR-1. The
>
> Just checked my log file and found this.
>
> 26-Jun-96 13:13:03 K1HJC>W5RRR-1*>FN43HB [UI]:
> APRS 0.5 on line.

APRSdos REPLY COMMENT: BINGO! THere it is guys, the first one!

de wb4apr@amsat.org

1047. Cause of GPS20 DEAF!!?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 00:43:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629003915.16285O-100000@arctic>
Rendered body type: text/plain

On Fri, 28 Jun 1996, Dale Heatherington wrote:

> I hope you guys put bypass caps (1 to 10 uF range) between ground and
> the input and output of the 7805 regulator. If you don't
> it may oscillate at RF and could screw up the GPS-20 receiver
> sensitivity.

APRSdos REPLY COMMENT: Of COURSE! This is a certain cause to prevent
operation. THanks for the reminder. Every monolithic Regulator chip
requires these capacitors if lead lenght is more than a few inches
ANSD/OR if there is no other filtering on the bus in the immmediate
vicinity of the regulator.

de wb4apr@amsat.org

1048. Re: [APRSSIG:2483] Re: Repeater Maped

From: fe2o3!rusty@ernest.itg.ti.com (Rusty Haddock-KD4WLZ)
Date: Sat, 29 Jun 96 00:13 CDT
To: aprssig@tapr.org
Message-ID: <9606290449.AA22713@fe2o3.LONESTAR.ORG>
Rendered body type: text/plain

I only said that the repeater coordinators HAD the information.
I didn't say that they'd necessarily give it out. Yes, quite a
number of repeater owners would rather keep their exact location
a secret. Many times getting a repeater atop a tall building or
on a comms tower is done as a favor, hush-hush, or "put it up but
don't bother us about it"-type of deal. As soon as another group
finds this building/tower/etc and it's better than what they've
got this other group may start saying to the building/tower/etc
owners "Us too, us too!". Well, sometimes that gets them up
there and then again sometimes it gets everyone kicked out of the
"pool". Sometimes a number of repeaters get installed and then
someone forgets that they're guests on that high spot, make a
nuisance or slob of themselves, and things get ruined for
everyone even remotely involved, or the Amateur Service in
general. It's not a pretty sight, lemme assure you.

Surely, anyone who wants to take the time can DF just about any
repeater, get a GPS near the thing, make a listing of the
repeater locations you've found, and hand it out. You may get

some people mad -- you might not care either. :->

BUT passing that "freely" available (no, make that freely
determineable) information around might cause a repeater site to be
lost, maybe a damned good repeater site. Heck, it might even mean
losing a digi or a node site along with a voice repeater. It's
happened before and it can happen again. Please think about those
kind of repercussions before passing around exact locations of
someone else's property without getting their OK first!

Food for thought.   Now to go get some for my tummy. :-O

73

        -Rusty-

```
--
   _____        Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
|\/   o \   o
|   (  -<  O o  I planted my antenna farm and what popped up was aluminum
|/\__V__/       and copper tubing.  Strange thing is... I used steel seeds!
```

1049. Re: [APRSSIG:2407] MacAPRS v2.5

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 29 Jun 1996 00:52:56 -0500
To: aprssig@tapr.org
Message-ID: <v02130500adfa6b97bad0@[199.1.11.203]>
Rendered body type: text/plain

IF anyone HAS Macaprs 2.5.0 please post to the APRSsig FTP site.
IF you can't get it there, then E-mail the attachment to me and I
will POST it.

The version 2.4.5 and 2.5.0 history files are also missing from
both WWW sites.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

1050. GRID-IN-BEACON FORMAT

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 29 Jun 1996 01:51:35 -0500
To: aprssig@tapr.org
Message-ID: <v02130500adfa78e2da58@[199.1.11.116]>
Rendered body type: text/plain

```
----------------------------------------------------------------------
     GRID-IN-TO FORMAT:         WB4APR>FM19SX,W5RRR:...

     GRID-IN-BEACON FORMAT:     WB4APR>APRS,W5RRR:@FM19sx]...
                                                  @ means APRS is online
                                                  / means TNC BEACON only
----------------------------------------------------------------------
```

Then what happens if our BTEXT is say ? : [FM19sx]

which I thought was one of the old standards.

Then If we had:

```
------------
UNP      APRS VIA W5RRR-1    and  NOT   UNP  gridsq VIA W5RRR-1
BTEXT    [gridsq]
B        what ever
-------------
```

Then transmitting using a tracker or comm program :

we would see a dig back that looked like:

KC5EJK>W5RRR-1*>APRS:[EM12ou]

Would this not then be received and plotted on ALL version of APRS ???

Just a second note to say that to do the GRID-IN-TO FORMAT command
I think you would type to your TNC:

UNP FN43HB via W5RRR-1

And if you were that lucky person K1HJC   M. Morgan, you would see:

K1HJC>W5RRR-1*>FN43HB [UI]:

--

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

1051. Re: [APRSSIG:2507] Re: Repeater Mapping

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Sat, 29 Jun 1996 03:24:55 -0400
To: aprssig@tapr.org
Message-ID: <31D4DA47.3146@codger.physics.duq.edu>
Rendered body type: text/plain

gphowell@interramp.com wrote:
>
> I doubt ANY coordinator would release specific lat and long info without
> permission from the repeater owner. Too much liability for releasing
> precise locations for any nut case with a sledge hammer and some time on
his hands to visit.

The crux of the argument seems to be "precise locations". Seems to me that degrees and minutes (not seconds) would be plenty ambiguous; that gives about a mile in any direction.

As for the "nut case with a sledge hammer", I don't think it'll make any difference. The approximate locations of major repeaters is well known, and even if not, it's a simple job to DF it.

1052. Re: [APRSSIG:2510] SAREX digipeater?

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sat, 29 Jun 1996 04:31:25 -0700
To: aprssig@tapr.org
Message-ID: <31D5140D.2AD3@worldnet.att.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> Someone asked if the DIGI was in fact enabled on SAREX, since we are not
> seeing any APRS packets.
>
> APRSdos REPLY COMMENT: Yes, because KE4EER has digipeated one packet.
> SO far, his one packet is the only reported UI frame. We are stiii
> waiting for the first report of a POSIT! Boy, i wonder if we are really
> trying.
>
> We need to see lots of people trying!
>
> de wb4apr@amsat.org

Yes Yes i'm sure trying, missed a couple of passes last night but watch for me today Hi. Each pass i see many people getting conformation back from the shuttle. I think V76e may have a problem saving the file tough, i will check that again. Well have to get ready for the first pass of the day.

--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

1053. stuff

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 29 Jun 1996 05:52:41 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), tprs-board@tapr.org (TPRS Board),
        tapr-sys@tapr.org (TAPR SYS), aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199606291052.FAA18880@tapr.org>
Rendered body type: text/plain

New addition to the TAPR Virtual Meeting Space!

TPRS (Texas Packet Radio Society) has provided the audio from the day long digital forum held this past June in conjunction with the DFW HamCom convention.

Thanks to Dave Wolf, WO5H, President of TPRS and the TPRS group for allowing TAPR to link to this page and provide additional RealAudio resources.

```
Check it out!

Talks include:
        DXng by Packet,
                Presley Smith, N5VGC
        Spread Spectrum an Overview,
                Greg Jones, WD5IVD and Tom McDermott, N5EG
        Exploring the Internet,
                Lee Ziegenhals, N5LYT
        Beginning Digital Communications,
                Greg Jones, WD5IVD
        How to use TexNet,
                Jim Neely, WA5LHS
        APRS: Radiolocation by Packet,
                Mike Heskett, WB5QLD
        9600 baud,
                Tom McDermott, N5EG
        Packet and the NWS, and
                Bob Morgan, WB5AOH
        Accessing the PACSATs.
                Robert Diersing, N5AHD

Lots of good pictures as well!

You can get to the page via

http://www.tapr.org under the Virtual Meeting page

or

http://www.tprs.org

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```

1054. Re: [APRSSIG:2504] GPS20 DEAF!!?

From: Bernard Pidoux F6BVP <pidoux@ccr.jussieu.fr>
Date: Sat, 29 Jun 1996 14:41:20 +0200
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960629144150.269f6fd8@moka.ccr.jussieu.fr>
Rendered body type: text/plain

```
At 19:48 28/06/1996 -0500, you wrote:
>One more thought on the deaf GPS20s..
>
>At Dayton, Bob said all you need is the 1.8 inch wire. "It works fine".
>
>If Bob's worked... whats wrong with ours?
>
I was one of the first to ask this question to Bob.
>
>He may have a different batch GPS20?
>
>I got mine in this last batch from TAPR .... AFTER Dayton.
>
>Anyone else have a new batch GPS20 that is deaf?  (or an old batch?)
>
>
>
>Kent
>
>KQ4KK
>
>
>

I have just been able to receive my first GPS sats with a report of MAX 41
using SIGPLOT.BAS without any preamplifier.

I just cut a piece of RG213U coax and made a 2 turns helix with the inner
wire that I soldered to a female N connector. Then I made a ground plane
loop with the outter
mass wire. I soldered the coax cable coming with the GPS20 kit ant put the
"antenna"
outside of my window of a 3rd floor flat surrounded by other buildings in Paris.
The part of the sky that the "loop antenna" can see is probably no more than
30 deg as
the street is not large...
```

No, I have no idea of the resonant frequency of my antenna... but I think this is encouraging... at least for me and probably others.

So, GPS-20 is not DEATH !

73 de

Bernard, f6bvp
AMSAT France President
web server: http://ourworld.compuserve.com/homepages/amsat_f

1055. Security Concerns (was: Repeater Maped)

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 29 Jun 1996 08:45:15
To: APRSSIG@tapr.org
Message-ID: <199606291245.IAA07139@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi again,

On Fri, 28 Jun 1996 Steve (KA6G) responded, as had others:

>> The Western PA repeater council gives *NO* information.

>Uhm...I would suspect that our local coordination group is
>as tight lipped as you are sugesting ... I'll wager that this
>policy is more pervasive than you imagine.

I suspect (and, for those of you in areas less susceptible to the plague of vandalism than I am) that this is done for the protection of all those thousands of dollars worth of equipment these many clubs have invested, not to mention that of other users of a given repeater site.

You may remember that I operated APRS at Field Day, which we conduct AT the repeater site. I intentionally fudged the location I was transmitting (it was the county's Emergency Operations Center's coordinates which is about three miles away.) Our repeater site also houses that county's sherriff, fire, ambulance and other "official" communication equipment.

There's also an old fire tower on that site. Until two years ago, there was also a small cabin for the person on that firewatch, which hasn't been manned for quite a few years.

About two years ago some miscreant decided to toast his marshmallows by the flames he graciously provided to the cabin.

I think these coordinators are well aware of the potential for such happenstances and this may be, at least, a contributing reason for their "tight-lipped-ness." I can't say as I blame them, which is why I fudged the location I transmitted.
73 de

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Set coordinates 2-7-1, Chewbacca...

1056. Re: [APRSSIG:2480] Re: STS-78

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 29 Jun 1996 08:46:10
To: APRSSIG@tapr.org
Message-ID: <199606291245.IAA23212@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

On Fri, 28 Jun 1996 Bob Bruninga wrote:

>Why cant you set two memories, one to 145.55 and one to 144.49

A better question: Why can't you set an odd offset on the rig (such as you'd do if a repeater's output was 146.43 & it's input was one megahertz up, ie: 147.43.)? Here in the New York

City area (almost 200 2 meter repeaters here) this is a common
situation. Most modern rigs (both my Yaesu FT-530 HT & FT-5100
mobile) allow for this by first setting the basic frequency into memory, then programming in the odd offset. By doing so,
you'd automatically be monitoring the downlink and transmitting
on the uplink. 73

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Set coordinates 2-7-1, Chewbacca...

1057. re: shuttle

From: KD4EMI@aol.com
Date: Sat, 29 Jun 1996 09:29:54 -0400
To: aprssig@tapr.org
Message-ID: <960629092952_343345529@emout07.mail.aol.com>
Rendered body type: text/plain

well I confirmed that the rig is on the right splits, using regular APRS
in Space mode...

Its sitting there..ARMED...so far no joy..
Mike
KD4EMI@AOL.COM

1058. Validation

From: wilbert harris <woharris@hooked.net>
Date: Sat, 29 Jun 1996 07:23:11 -0700
To: aprssig@tapr.org
Message-ID: <199606291423.HAA13495@mom.hooked.net>
Rendered body type: text/plain

Hi Bob: Name is willie. Bob i'm validated with you. I have a new call and would
like to get re-validated. Can't find my old # for validation.
My old call was KE6KQE..New call is W6HST..
Name is:
Wilbert O. Harris
25 Sylvia cir.
Novato, Ca. 94947
E-Mail woharris@hooked.net

You should have all the info with you. Want to get re-set-up on APRS..
Thanks ahead of time..Really like APRS..

73,s de Willie..W6hst (former Ke6Kqe)

1059. APRS Shuttle digipeat heard

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sat, 29 Jun 1996 09:36:51 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00adfaef9e4279@[204.251.33.90]>
Rendered body type: text/plain

Just received a posit from WB4LTF

WB4LTF>W5RRR-1*>EL98IP:Orlando Fl

at 0933 CDT 1433 UTC

Shuttle only about 8 degrees elevation here.

Ron W5RKN

also:
rparsons@bga.com

1060. posit report via SAREX

From: msjth@uxa.ecn.bgu.edu (jay hainline)
Date: Sat, 29 Jun 1996 09:46:59 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606291446.JAA24820@uxa.ecn.bgu.edu>
Rendered body type: text/plain

On an STS-78 pass this morning, I copied the posit packet from N8DEU, EM64QS, Tim at Huntsville,AL at 1436z June 29. He was the only posit that I plotted on APRS with several packets copied from W5RRR-1 acking connects. I sent my posit several times but did not see myself being digipeated. Wonder if anyone may have seen me?

73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

1061. GPS20 deaf?

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 29 Jun 1996 14:56:54 -0400
To: aprssig@tapr.org
Message-ID: <199606291456.KAA15271@smtp2.erols.com>
Rendered body type: text/plain

Well, I have bypass caps between ground and the input and output of the 7805.

This morning, I sat it out for 1 hour. Got half scale on sat 27. Then it left the horizon and nothing.

Any other ideas?

thanks,

Kent

KQ4KK

1062. Re: [APRSSIG:2518] Re: MacAPRS v2.5

From: Mark Haas <mhaas@onramp.net>
Date: Tue, 1 Jan 1957 10:06:31 -0500
To: aprssig@tapr.org
Message-ID: <v0300760363b2f2cf24fb@[199.1.11.166]>
Rendered body type: text/plain

>IF anyone HAS Macaprs 2.5.0 please post to the APRSsig FTP site.
>IF you can't get it there, then E-mail the attachment to me and I
>will POST it.
>
>The version 2.4.5 and 2.5.0 history files are also missing from
>both WWW sites.
>
>73
>
>Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

Bob,

I got an email from Keith that he was going to be posting the "new" version today. We'll see!!

Mark

Mark Haas
IEEE Computer Society Vice President for Conferences & Tutorials
m.haas@computer.org
mhaas@ieee.org
+1-214-516-6253
KC5HTN

1063. Signal level from Shuttle?

From: Ed Troy <etroy@aeroconsult.com>
Date: Sat, 29 Jun 1996 11:17:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960629151708.006f68a8@popmail.voicenet.com>
Rendered body type: text/plain

I've been monitoring 145.55 continuously since the launch, and I have not heard any signals from the shuttle. I've heard MIR 5x9 every day, even on a handheld. Is the signal level from the shuttle considerably lower than that from MIR?

Ed

1064. Re: [APRSSIG:2399] DFjr Question?

From: rsellers@misha.net (Roger Sellers)
Date: Sat, 29 Jun 1996 12:42:24 -0500
To: aprssig@tapr.org
Message-ID: <199606291742.MAA13146@misha.net>
Rendered body type: text/plain

```
>Has anyone out there connected their GPS to the DFjr using the
>Multi-Port Adapter (MPA) and noticed any garbled data in the
>beggining of the NMEA $GPSRMC data stream, specifically the time
>portion right after the $GPRMC(garble)?
>
>We have *one* customer having such a problem. It would be much
>appreciated if someone else could check it out, we can't seem to
>reproduce the problem here, thus unable to fix it.
>
  Hi Joe,
  I will be as Sooooooonnnn As I get mine. I was told mine will ship week of
July 23.

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

1065. Re: [APRSSIG:2471] Re: Garmin 45

From: rsellers@misha.net (Roger Sellers)
Date: Sat, 29 Jun 1996 12:42:25 -0500
To: aprssig@tapr.org
Message-ID: <199606291742.MAA13148@misha.net>
Rendered body type: text/plain

```
>Paul Sadowski wrote:
>>
>> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
>> for $240 at boat US... $230 if you are a member and got the flyer in
>>
>> Al
>> AH6LS
>
>Magellan is a better deal since it INCLUDES bracket and cable which is
>almost $50 extra with Garman 45.  Same store.
>
>Bud (WB4LTF)
>
>
  For those un-initiated ones that have never heard of this store or dont
have one locally, How asbout an address and/or phone number to go with this.

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

1066. Re: [APRSSIG:2532] Signal level from Shuttle?

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sat, 29 Jun 1996 12:52:33 -0700
To: aprssig@tapr.org
Message-ID: <31D58981.3C27@worldnet.att.net>
Rendered body type: text/plain

```
Ed Troy wrote:
>
> I've been monitoring 145.55 continuously since the launch, and I have not
> heard any signals from the shuttle.  I've heard MIR 5x9 every day, even on a
> handheld.  Is the signal level from the shuttle considerably lower than that
> from MIR?
>
> Ed

I believe it is a lot lower Ed, altough you should have heard it. Just now it
made a pass using voice and they where saying something about being given
another day. And someone posted they had a beacon from N8DEU he also showed on
my map but that may have been direct since his location is only 25 miles from
me. Strange mine didn't make it at the same time his did, except i was running
APRS.
```

```
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1067. Re: [APRSSIG:2443] Re: GPS-20 *HELP!

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Sat, 29 Jun 1996 14:05:51 -0400
To: aprssig@tapr.org
Message-ID: <199606291805.NAA05377@tapr.org>
Rendered body type: text/plain

```
At 09:50 >where my GP-20 has sat for hours without a clue.
>
>The dipole I've been using is a short (~5 in) chunk of RG-58, with
>a BNC connector (which is what's on the outside of my boxed GP-20)
>on one end.  On the other end I've separated the shield and coax
>(at 1.8 inches long, each), bent them each 90 degrees in different
>directions, making a "T".
>
>Unfortunately I don't have any commercial antennas, without ripping
>apart my Icom, which I really don't want to do.
>
>Maybe I'll try your groundplane, and find a good, clear parking lot
>to hang out in for about 20 minutes.
>
>David, n0oxh

  David, my *first* fix took 1 1/2 hrs. with a good ant in the clear.

     Charlie K3VDB
>
>
```

1068. Re: MacAPRS v2.5

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sat, 29 Jun 1996 14:31:41 -0500
To: aprssig@tapr.org
Message-ID: <v02140b03adfb34215ae9@[204.251.33.80]>
Rendered body type: text/plain

```
Note that the date of your e-mail is 1 Jan 1957. If Keith ships "today"
that's about right for software release timing :-)

Ron W5RKN


>Date: Tue, 1 Jan 1957 10:06:31 -0500
>From: Mark Haas <mhaas@onramp.net>
>To: aprssig@tapr.org
>Subject: Re: MacAPRS v2.5
>Message-ID: <v0300760363b2f2cf24fb@[199.1.11.166]>
>
>>IF anyone HAS Macaprs 2.5.0 please post to the APRSsig FTP site.

...

>I got an email from Keith that he was going to be posting the "new" version
>today. We'll see!!
>
>Mark
>
>---------------------------------------------------------------
>Mark Haas

Ron W5RKN

also:
rparsons@bga.com
```

1069. SUBSCRIBE

From: Spirited01@aol.com
Date: Sat, 29 Jun 1996 15:39:53 -0400
To: APRSSIG@tapr.org
Message-ID: <960629153953_343591667@emout14.mail.aol.com>
Rendered body type: text/plain

Looking for maps of the Chicago, Illinois area.
Particularly the NW suburb of Elgin, Illinois.

Tnx de Bill n9gvd

1070. STS78 Activity Report

From: james keck <jkeck@smartlink.net>
Date: Sat, 29 Jun 1996 12:44:58 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960629194458.0069dc00@smartlink.net>
Rendered body type: text/plain

Absolutely frustrating. Nothing heard on any of the 5 passes this Saturday morning. The pass at 0725 to 0733 PDT was above 40 degrees and should have brought some activity.

Bob asked about West Coast stations monitoring. I am located 35 miles North of Los Angeles and have been set up in the Space Mode and Armed using APRS76e for the past three days. I did not record any activity on Thursday or Friday and wanted to actually observe the Saturday passes and see if there were some problems.

Jim, N6HNY
Santa Clarita, CA

1071. Re: [APRSSIG:2535] Re: Signal level from Shuttle?

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Sat, 29 Jun 1996 14:37:24 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199606291937.OAA04543@crasher2.ttgcitn.com>
Rendered body type: text/plain

At 01:14 PM 6/29/96 -0500, William Nolle wrote:
>made a pass using voice and they where saying something about being given
>another day. And someone posted they had a beacon from N8DEU he also showed on

FYI, since it was mentioned :-)

Space Shuttle Goes for Record
There were high fives and smiles all round aboard shuttle Columbia today, as mission control confirmed the medical research flight will last a record-breaking 17 days. With the theme from the movie ``Mission Impossible'' playing in the background, spacecraft communicator Chris Hadfield told the crew the mission manager had agreed to let them break the previous record, which was also set by Columbia. That means Columbia is scheduled to return home on the morning of July 7. Columbia's crew is studying the effects of space travel on the human body.

(from Reuters National Summary, 6/29/96, 3pm EDT)

Looks like there's a decent amount of time ahead :-) -rt

--
#!/bin/sh
# Ryan Tucker <rtucker@ttgcitn.com>
# President, TTGCITN Communications
lynx http://www.ttgcitn.com

1072. Re: [APRSSIG:2532] Signal level from Shuttle?

From: msjth@uxa.ecn.bgu.edu (jay hainline)
Date: Sat, 29 Jun 1996 14:53:27 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199606291953.OAA28966@uxa.ecn.bgu.edu>
Rendered body type: text/plain

>I've been monitoring 145.55 continuously since the launch, and I have not
>heard any signals from the shuttle. I've heard MIR 5x9 every day, even on a
>handheld. Is the signal level from the shuttle considerably lower than that
>from MIR?
>
>Ed
>
Yes, signals are weak. I am using a 10 element horizontal yagi with a
Mirage amp with built in preamp for receive. On the pass this morning,
I could hear it with a Ringo dual band verticle but it was not full
quieting which is what you need to copy fm packet.
73, Jay...

Jay Hainline KA9CFD EN40
Macomb,IL
msjth@uxa.ecn.bgu.edu

1073. Re: [APRSSIG:2519] GRID-IN-BEACON FORMAT

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 16:28:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629161855.20844A-100000@arctic>
Rendered body type: text/plain

```
> APR summarized the GRIDSQUARE FORMATS AS:
>      GRID-IN-TO FORMAT:         WB4APR>FM19SX,W5RRR:...
>      GRID-IN-BEACON FORMAT:     WB4APR>APRS,W5RRR:@FM19sx]...
>                                                  @ means APRS is online
>                                                  [ means TNC BEACON only
> ---------------------------------------------------------------------

Robert Winingham noted that the formats would actually look like the
following on an AEA tnc which uses a non-standard TAPR display format
>
>      KC5EJK>W5RRR-1*>APRS:[EM12ou]
>
>      K1HJC>W5RRR-1*>FN43HB [UI]:

AND I was wrong about the old grid square format that WOULD be [EM12ou]
and not /EM12ou] as I indicated.  ALso, my display above was the
transmitted packet and mine did not show the *'s that the receiving TNC
would add on the display.  Thanks for pointing that out.

de wb4apr@amsat.org
```

1074. APRS Sarex report (6)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 17:20:25 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960629165044.20844F-100000@arctic>
Rendered body type: text/plain

```
Finally seeing some APRS reports.  SAREX signals appear quite weak and
the orientation of the shuttle favors looking aft, meaning you will get
the best singals after it passes you.  With 3 KHz doppler, you might
consider listening on 145.555 and transmitting on 144.485 in this case.
(Note +5 to listen, -5 to transmit.  Reverse these during approach).
* PLEASE include in your reports your LOCATION on this earth, and the
* TIMEZONE of all TIME references.  I am having to send back a request for
* this information on almost EVERY report that comes in...  Thanks.

DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes

25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East coast
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
26  1350  1750z packets over USA
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z nothing heard  (tho 27 pkts reported in TX by KB0UZQ?)
28  1036  1436z voice heard
28        1915z packets heard in Calif
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z packets. KE6AFE Posit reported?
```

```
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64OS,W5RRR-1*:Tim at Huntsville, AL
29        1911z WB6LLO APRS success reported in Calif?
```

WB6LLO reports APRS "SUCCESS" but no one has reported seeing his packet?
Reports from South America include NO SAREX, voice or packets heard.

Remember, in SPACE mode, the GRID SQUARE POSIT is inserted in your
BEACON. Do not send any APRS packets except your BEACON. Use the
XMIT-BEACON command. Do not send APRS messages!

Look on the ALL-BEACONS page to see the list of separate packets heard.
Unfortunately it does not show the TO callsign, but it does give more
information than the LATEST and D pages show.

Later when things calm down, sending your POSIT might be OK, but that is
a much longer packet and is not needed if you send a SPACE MODE BEACON.
The SPACE MODE BEACON will put you on the map (using the gridsquare format)

de wb4apr@amsat.org

1075. Garmin-20 Deaf!!!

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Sat, 29 Jun 1996 17:35:09 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960629213509.00754a0c@avery.med.virginia.edu>
Rendered body type: text/plain

Hello Group,
The bypass capacitors question/solution was a good one.
Unfortunately, I've had them present between the supply-ground and regulated
output-ground from the beginning. I started with 0.27 uF and the comment
did cause me to up them to 1.0 uF, but this has had no effect. I've tried
batteries as well as power supplies.....

I still get no lock with an antenna setup which will give lock in
about 2 minutes on the Garmin -45. My reading of the comments shows a
definite biphasic set of responses....some (like Ron Parsons) have no
problem, and others are clearly in the deaf mode.....I'd be happy to send my
board to Ron P. or Bob B. to have someone perform and independent "hearing
test."

--de WB4QKT
Stacey E. (Chuck) Mills
E-mail: sem2r@galen.med.virginia.edu

1076. STS78 Packet Frequency?

From: james keck <jkeck@smartlink.net>
Date: Sat, 29 Jun 1996 14:47:48 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960629214748.006af8a0@smartlink.net>
Rendered body type: text/plain

I just read a message that appeared on our Packet Bulletin Board,
in this message it stated that 144.49 was being used for both the
uplink and downlinking of packet.
It further stated that Voice Operations would be conducted on
145.55 downlink and the 144.9XX series for the uplink.

If this is correct, many of us are listening to the wrong
channel.

Any comments?

73, N6HNY

1077. Re: [APRSSIG:2525] Re: STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sat, 29 Jun 1996 18:01:06 -0700
To: aprssig@tapr.org
Message-ID: <31D5D1D2.26EB@worldnet.att.net>
Rendered body type: text/plain

Arte Booten wrote:
>
> Hi All,
>

```
> On Fri, 28 Jun 1996 Bob Bruninga wrote:
>
> >Why cant you set two memories, one to 145.55 and one to 144.49
>
>      A better question:  Why can't you set an odd offset on the
> rig (such as you'd do if a repeater's output was 146.43 & it's
> input was one megahertz up, ie: 147.43.)?  Here in the New York
> City area (almost 200 2 meter repeaters here) this is a common
> situation.  Most modern rigs (both my Yaesu FT-530 HT & FT-5100
> mobile) allow for this by first setting the basic frequency in-
> to memory, then programming in the odd offset.  By doing so,
> you'd automatically be monitoring the downlink and transmitting
> on the uplink.  73
>
> Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
>  (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> Set coordinates 2-7-1, Chewbacca...

Art your right, (Head down and red faced) i should have known that. Thanks
maybe that will work better now.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1078. Re: [APRSSIG:2545] STS78 Packet Frequency?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 19:26:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629192534.21841B-100000@arctic>
Rendered body type: text/plain

```
On Sat, 29 Jun 1996, james keck wrote:

>     I just read a message that appeared on our Packet Bulletin Board,
>  in this message it stated that 144.49 was being used for both the
>  uplink and downlinking of packet.
*** WRONG ***.  Downlink is on 145.55 for packet

>     It further stated that Voice Operations would be conducted on
>  145.55 downlink and the 144.9XX series for the uplink.
*** CORRECT

de wb4apr@amsat.org
```

1079. Re: [APRSSIG:2430] Re: GPS-20 *HELP!

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Sat, 29 Jun 1996 20:22:27 -0400
To: aprssig@tapr.org
Message-ID: <199606300023.TAA21606@tapr.org>
Rendered body type: text/plain

```
TNX Bob;...It seams all it needed was more time. It took
 aprox 1 1\2 hrs under a clear sky and then it was ok.

     However Tom Clark sugests a 28 ohn resistor to rase the ground
 of the 6805 to get the out put to 5.3V. I thought of trying a diode.
 But one way or the other I want to get that Voltage just above 5.0V.

       TNX again,

     -73- Charlie K3VDB
```

1080. Re: [APRSSIG:2432] Re: GPS-20 *HELP!

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Sat, 29 Jun 1996 20:27:20 -0400
To: aprssig@tapr.org
Message-ID: <199606300027.TAA21634@tapr.org>
Rendered body type: text/plain

```
At 02:30 AM 6/27/96 -0500, you wrote:
>>> The only thing I can see that is a bit strange is the out put
>>> of the 7805 is 4.88v with or with out load.
>
>How accurate is your voltmeter? 4.88 is within 2.5% of 5v. Few voltmeters
>have greater accuracy.
```

```
>
        TNX Steve:.....It seams 1 1\2 under a clear sky is all it needed.


     -73-  Charlie  K3VDB
             -73-  For Now Charlie K3VDB
    __  _    ______   __       _    ______    ______
   / / / )  /_/____)  \ \ ___ / )  / /__  )  / /__  )
  / /<  /     __/_/    \ \   / /  / /  / /  / / _/ /
 / /  | |   __/__/      \ \ / /  / /__/ /  / /__/ /
/_/___|_|_/_____/________\_X_/__/_/____/__/_/____/
 \ On Satellites KO-23 KO-25  AO-13 modes B & S /
  \          E- Mail  k3vdb@amsat.org          /
   \------------------------------------------/
```

1081. MacAPRS 2.6.0!!!

From: Keith Sproul <ksproul@rci.rutgers.edu>
Date: Sat, 29 Jun 96 21:07:33 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.836096853.ksproul@niflheim.rutgers.edu>
Rendered body type: text/plain

The long-awaited MacAPRS update is now up on the TAPR and RUTGERS FTP sites.

The new version is 2.6.0 and has a couple of major new features, and many small
things enhanced or fixed.

There were a couple of small bugs in version 2.5.0 so I did not want
to put it up after Dayton. And we were busy getting more features between
the Mac and Windows version to be the same.

New Features:

        * Global Labels
        If you have a favorite set of labels that you would like to see on ALL
        of your maps, put them in normal DOS LABEL format, put them in a file
        and put that file in a folder called LABELS in the MacAPRS folder.
        These labels will appear on ALL maps.

        * Global Label List (so you can see what the labels are)

        * Icon List
        A window that shows all of the ICONs (More of a help/info
        screen than anything else)

        * Lots of new stuff having to do with complex weather display.
        Check out
        http://www-ns.rutgers.edu/~ksproul/APRS/APRSWIND.html
        for more details.
        This has to do with the balloon stuff I am working on.

Minor fixes:

        * The problem where a station would mysteriously move has been fixed.
        Thanks to W5UGQ and KB5WIO for helping track this one down.

        * Many small things having to do with weather input.

        * A couple minor problems with call-book data.

        * Lots of minor improvements in many different areas.
        Too many to mention

Keith & Mark Sproul
(the Sproul Brothers)

1082. GEORGIA Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 22:50:14 -0400 (EDT)
To: aprssig@tapr.org
Cc: rwf <rwf@mindspring.com>
Message-ID: <Pine.SUN.3.91.960629224638.23045A-100000@arctic>
Rendered body type: text/plain

I was working like gangbusters on Georgia maps, but stopped waiting for
the client to send me the maps of the Marathon course. Now it has been

over a week, and Im not sure where I was. Nor whcih computer has the
lates of my work. But Ralph wanted what I have, so I just uploaded it as
GAmaps03.zip. in tapr.org   in tapr/SIG/aprssig/files/upload

I have LOTS more street level maps, but was waiting for the Marathon
route before I spent the time integrating them in to the package.

So what will be in the final version will be more detail from Ga Tech on
up north along the Marathon route..

de wb4apr@amsat.org

1083. DFjr results..the real thing

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Sat, 29 Jun 96 20:14:07 PDT
To: aprssig@tapr.org
Message-ID: <9606300314.AA07963@eng.adaptec.com>
Rendered body type: text/plain

I finally got a chance to give the DFjr a serious test
drive today. I took part in the SF Bay area "Pack a
lunch" t-hunt. This hunt has no physical boundaries
except you must be heard at the start...and this was
the first time my partner in crime(wb6w) and myself
had tried this type of hunt. We were also using the
DFjr as our main instrument(the quad & SSB rig were
along too, but we only used that to get an initial
bearing.)

The hunt started in Pleasanton. For those of you
not familiar with this area..Pleasanton sits in a valley
about in the middle of the range of hills that separate
SF bay from California's central valley. Everyone
got bearings pointing out along the Altamont Pass
which is how you get to the valley from there. This
is a narrow valley with hills perhaps 500 to 1000 feet
above the valley floor. We were getting doppler
readings about 40% of the time we were in the pass.
I compared notes with one Roanoke user who didn't get
any doppler readings until he got onto the valley
floor!   So, maybe here the DFjr was giving us
some advantage(though the direction at that point
was obvious...no other way the signal could get there!)

As we cleared the Altamont pass, and started down into
the central valley we got some very strong readings
pointing NE. We actually had the Smeter moving on
the radio at this point, though that only lasted
while we still had elevation. Once we were on the
valley floor we had pretty consistant Doppler headings
the entire run! We put the unit in and out of
averaging mode, and found that we liked the raw
data mode better when the signal was week mainly
cause we could use our own judgment about when
to believe the bearings we were seeing...and the
fact that there is a "LOW" signal indicator
helps with this too!

We followed the bearings out the 580 freeway until
it becomes the 205. Finally, we got a bearing
saying go North young man as we hit the 5
freeway, which is one of the two main arteries
running N/S thru the Central valley. At this
point we'd probably already gone 30 miles.

The bearing pointed right up the freeway for
about 30 miles...and we as we had guessed
the signal started bearing to the West as
we approached Stockon. We got off the freeway
just short of our first chance to cross the
delta water way because we had a pretty good
hard right indicated from the DFjr. The
signal was essentially full scale on the
meter at this point too.

We followed our nose on surface streets till we
ran into the delta channel. At this point
we figured we were within a few hundred
yards of the T, but it looked like it was

on the other side of the channel. We back tracked too the freeway, and crossed the channel, and got back off as soon as we could.

This is when it got interesting instead of easy. The signal had dropped significantly by coming across the river? We ran up and down the river on either side of the freeway, and started getting south bearing vectors? We did see one of the other hunters...we weren't that far off if others were around. The signal dropped down to the S1/S2 range on the meter? The best we could figure is that the guy must be running some sort of super beam and we were on the very back side of it...we didn't particularly like that theory though cause we should have seen a much stronger signal than we were.

When all else fails...follow your instruments.

The DFjr was reliably pointing South now...so we went south. Within a few minutes we got to an intersection we had already traversed and the signal was still s2? The meter had been full scale when we had been here before and the bearings had been north towards the river?

Anyway...south we went along a frontage road to the freeway...and south and south a good 5 or 8 miles. The vector was creeping slowly towards a 90 degree vector...and just at about at a sign that announced a county park, the vector stayed 90 reliably, and even went beyond 90 a bit...time for a right turn. We come barrowling down the road towards a levy and this park at which point our proximty detector(HT with no antenna) goes off. The only parking was IN the park...$4 later.sheesh. This is where we finally found the T...why hadn't we found him here earlier as we headed north on the freeway...because he was in a boat and he moved!

We essentially followed him down the channel as he relocated the boat! We think he moved when we got near the river...we didn't see him...but he must have seen us or one of our co-horts.

We weren't the first hunter to located him. Another Roanoke Doppler equipped team got there first by about 10 minutes. They had taken roughly the same track as we did, i.e. all the way to Stockton, then back. Total distance traveled was about 70 miles! The next team rolled in about 10 minutes after we got there... also Roanoke equipped.

It's hard to say who won this one.... if the boat had stayed put another 5 minutes..we would have found him in the channel 30 minutes earlier....but he didn't. I guess the winner was anyone who managed to keep up with him!

Overall, the DFjr performed admirably. We NEVER got the Quad out, and this was definately a weak signal hunt at the beginning. The boat was running 20W into a gain vertical... and some how bouncing up the Altamont pass successfully. We always had some sort of doppler indication on the signal! Hey...I think I got my money's worth!

Steve KA6S

1084. Re: [APRSSIG:2550] MacAPRS 2.6.0!!!

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 29 Jun 96 23:14:29 -0400
To: <aprssig@tapr.org>
Message-ID: <199606300311.XAA14663@bridge.net>
Rendered body type: text/plain

```
>The long-awaited MacAPRS update is now up on the TAPR and RUTGERS FTP sites.
>
Thank goodness. I was afraid you guys had given up on the Mac version!
```

1085. SAREX QSL #'s

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 29 Jun 1996 23:15:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960629230842.23045B@arctic>
Rendered body type: text/plain

```
Also, when you detect packets from the shuttle, it would be nice if you
mentioned what the current QSL serial number is...

DOnt forget, tell me your CALL, YOur location (generally) and time in UTC!

And if you see an APRS POSIT, quote it exactly..

PRELIMINARY unofficial RESULTS:
1) not a lot of opportunities
2) weak signals
3) APRS is NOT interfereing with the QSO ROBOT! hi hi
4) Not enough APRS stations trying???? (How can we prove or disprove this?)

Here, when I listen on the packet uplink, I do NOT hear but an
occassional other local attempting packet uplink.  I contrast this with
some of the earlier SAREX packet missions where several statiosn were
usually heard...  But then, these are working hour passes and that was
years ago...

de wb4apr@amsat.org
```

1086. Re: [APRSSIG:2550] MacAPRS 2.6.0!!!

From: jms@pobox.com (Johnie Stafford)
Date: Sat, 29 Jun 96 22:46 CDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <m0uaDSp-00020gC@kb5yvf.usl.edu>
Rendered body type: text/plain

```
>>>>> "ks" == Keith Sproul <ksproul@rci.rutgers.edu> writes:

 ks> The long-awaited MacAPRS update is now up on the TAPR and RUTGERS FTP sites.

 ks> The new version is 2.6.0 and has a couple of major new features, and many small
 ks> things enhanced or fixed.

The other day I asked if there is a Linux version of APRS and got no
response, I'll take that as a 'no'.

So, is there a source distribution of either DOS/Win APRS or Mac APRS
available anywhere?

APRS sounds like something I'd like to play around with, but I only
have Linux at home.

        Johnie

--
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
 Johnie Stafford          |  Internet E-mail: jms@pobox.com
 KB5YVF - Lafayette, LA   | Ham Radio Packet: kb5yvf@k5arh.#lftla.la.us.noam
                          |          WWW URL: http://www.pobox.com/~jms
          pobox.com for lifetime email -- mail info@pobox.com
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
```

1087. FL APRS Page Updated

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 30 Jun 1996 00:20:24 -0400

To: aprssig@tapr.org
Cc: ldevillo@magg.net
Message-ID: <199606300420.AAA25835@grumpy.magg.net>
Rendered body type: text/plain

Several new updates have been added to the Florida APRS Home Page. A few bits of new news and quite a few new Links to ARES/RACES groups in the state and also FEMA, the Red Cross and some others.

I have also added a survey to the page so please fill this form out when you check in. The form is geared to get a better understanding of where APRS activity is going on Florida and also to get a list of active APRS users on Internet. Those of you with Java Compatable browsers will have a good laugh when you click on to the form page. I hope you can all read FAST!
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

1088. X-APRS

From: Keith Sproul <ksproul@rci.rutgers.edu>
Date: Sun, 30 Jun 96 1:22:03 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.836112123.ksproul@niflheim.rutgers.edu>
Rendered body type: text/plain

>The other day I asked if there is a Linux version of APRS and got no
>response, I'll take that as a 'no'.

At Dayton, we had an ALPHA version of X-APRS running.
We got lots of good comments on this, from people that recognized that it was indeed a SUN running X-Windows and not Microsoft Windows.

X-APRS is a a fully compatible version of APRS that runs under X-Windows.

We do not have a time estimate for the release of X-APRS yet, but we might have it in beta by the end of the year (NO PROMISES).

For those note familiar with Unix systems, X-Windows is the Graphical User Interface that runs on UNIX systems.

>So, is there a source distribution of either DOS/Win APRS or Mac APRS
>available anywhere?

No, Source is NOT available.

Keith

1089. Re: [APRSSIG:2547] Re: STS78 Packet Frequency?

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Sun, 30 Jun 1996 01:40:02 -0700
To: aprssig@tapr.org
Message-ID: <31D63D62.10EF@worldnet.att.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Sat, 29 Jun 1996, james keck wrote:
>
> >   I just read a message that appeared on our Packet Bulletin Board,
> > in this message it stated that 144.49 was being used for both the
> > uplink and downlinking of packet.
> *** WRONG ***. Downlink is on 145.55 for packet
>
> >   It further stated that Voice Operations would be conducted on
> > 145.55 downlink and the 144.9XX series for the uplink.
> *** CORRECT
>
> de wb4apr@amsat.org

Guess thats why I never saw my reply!!!
Thanks to those who saw it and reorted it!!!

Bud WB4ltf

1090. Re: [APRSSIG:2534] Re: Garmin 45

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Sun, 30 Jun 1996 01:27:16 -0700
To: aprssig@tapr.org
Message-ID: <31D63A64.5DF2@worldnet.att.net>
Rendered body type: text/plain

```
Roger Sellers wrote:
>
> >Paul Sadowski wrote:
> >>
> >> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
> >> for $240 at boat US... $230 if you are a member and got the flyer in
> >>
> >> Al
> >> AH6LS
> >
> >Magellan is a better deal since it INCLUDES bracket and cable which is
> >almost $50 extra with Garman 45.  Same store.
> >
> >Bud (WB4LTF)
> >
> >
>   For those un-initiated ones that have never heard of this store or dont
> have one locally, How asbout an address and/or phone number to go with this.
>
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@misha.net
> E-Mail Work: rsellers@snds.comThere are 30 stores nation wide. Depends which  one you are near.

Bud. WB4LTF
```

1091. Re: [APRSSIG:2554] SAREX QSL #'s

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 30 Jun 1996 05:02:27 -0700
To: aprssig@tapr.org
Message-ID: <31D66CD3.5F54@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Also, when you detect packets from the shuttle, it would be nice if you
> mentioned what the current QSL serial number is...
>

Well seen some packets this morning, signal was very weak, i did get a message
on my V screen stating CONGRATS!! your oacket was digipeated, Does it mean my
beacon was finally digipeated?. If so did anyone see me, i'm starting to think
this is not working hi. Here are the beacons i seen.

W5RRR-1>W5JXM #672
W5RRR-1>WA2IWW #673

--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1092. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 30 Jun 1996 05:32:33 -0700
To: aprssig@tapr.org
Message-ID: <31D673E1.758C@worldnet.att.net>
Rendered body type: text/plain

```
I have a question. I'm running version 76e beta. Why can't i save any
files. Yes i have LOG on but when i do a F-S and enter the name and then
look at it not all the info is in there. Like the last pass Columbia made
i seen two packets yet it only saved one?. By the way those packets where
from W4JXM in Louisville.KY and WA2IWW in Murray.NY, of course they where
not running APRS or a gridsquare cause they didn't show on my map, these
guys must not have heard about APRS yet Hi Hi..
--
Bill KE4EER
ke4eer@worldnet.att.net
```

ke4eer@amsat.org

1093. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 30 Jun 1996 06:43:32 -0700
To: aprssig@tapr.org
Message-ID: <31D68484.16C9@worldnet.att.net>
Rendered body type: text/plain

```
I got 4 packet beacons the second pass this morning. What i would like
to know when it tells a user the following.

VE3HIR:#731-IS YOUR STS-78 SAREX QSO NUMBER
K0UWO:#729-IS YOUR STS-78 SAREX QSO NUMBER
N1UZN:#732-IS YOUR STS-78 SAREX QSO NUMBER

By the way these are the ones i heard this morning on the second pass.
Now this is the one that puzzles me.

W5RRR-1>SAREX:#729-IS YOUR STS-78 SAREX QSO NUMBER

Now as you can see that is K0UWO's confirmation number.

--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1094. Re: [APRSSIG:2561] STS-78

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 09:24:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960630091940.25426B-100000@arctic>
Rendered body type: text/plain

```
On Sun, 30 Jun 1996, William Nolle wrote:

> I have a question. I'm running version 76e beta. Why can't i save any
> files. Yes i have LOG on but when i do a F-S and enter the name and then
> look at it not all the info is in there. Like the last pass Columbia made
> i seen two packets yet it only saved one?. By the way those packets where

APRSdos REPLY COMMENT: There are two subtle notes about FILE-SAVE:
1) It does not save the DIGI'S-PAGE
2) If you give it the name of BACKUP, then it will NOT save the LOG and
   track history files.  This is since it always saves BACKUP when it
   exits APRS, it doesnt waste space with the LOG and TRACK history
   unless you give it another name.

It only saves what it sees on the L, P, Heard, and other lists.
APRS listening to only one station W5RRR will only show one entry on the
L page, even if 100 QSO packets were logged, since ALL 100 were from the
same station.  Look on the ALL-BEACONS page to see the multiple packets...


de wb4apr@amsat.org
```

1095. Re: [APRSSIG:2562] STS-78

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 09:28:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960630092528.25426C@arctic>
Rendered body type: text/plain

```
On Sun, 30 Jun 1996, William Nolle wrote:

> I got 4 packet beacons the second pass this morning.
> VE3HIR:#731-IS YOUR STS-78 SAREX QSO NUMBER
> K0UWO:#729-IS YOUR STS-78 SAREX QSO NUMBER
> N1UZN:#732-IS YOUR STS-78 SAREX QSO NUMBER
>
> Now this is the one that puzzles me.
>
> W5RRR-1>SAREX:#729-IS YOUR STS-78 SAREX QSO NUMBER

APRSdos REPLY COMMENT: W5RRR-1 sent 10 disconnects to K0UWO and never got
an ACK.  THen it reverts to its UNPROTO TO call which is SAREX.  YOu will
notice this on all TNC's that have timed out on a disconnect sequence, that
```

they will dumpt their SEND buffer to the UNPROTO callsign.

de wb4apr@amsat.org

1096. APRS Sarex report (7)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 09:53:59 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960629193401.21841D-100000@arctic>
Rendered body type: text/plain

I am surprised that the SAREX activity has been much higher than I thought:
* SAREX active every day for 10 days except for the 22nd
* There have been 11 voice passes and 10 packet robot passes so far
* There have been 15 passes with no activity (not counting the 5 on 22nd)
* So on a pass/pass basis, SAREX has been active on almost 60% of the
  passes (except for 22 June).

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z packets. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#'s 672. KE4EER gets "CONGRATS" (Anyone see it?)
30  0720  1120z QSO#'s 729
30  0850  1250z nothing heard in MD
```

Still need someone who saw WB6LLO, KE4EER and KB0UZQ APRS packets.
I still have two passes un accounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass.

APRS NOTE: Look on the ALL-BEACONS page to see the list of separate packets heard. Unfortunately it does not show the TO callsign, but it does give more information than the LATEST and D pages show.

ALSO check the OCT demb terminal mode and hit the TNC UNPROTO comand to confirm that it is setup for GRIDSQUARE via W5RRR-1.

de wb4apr@amsat.org

1097. Re: [APRSSIG:2564] Re: STS-78

From: byoung@qni.com
Date: Sun, 30 Jun 1996 10:59:33 -0500
To: aprssig@tapr.org
Message-ID: <9606301559.AA21938@qni.com>
Rendered body type: text/plain

Bob's comment in message #2564 regarding what the SAREX ROBOT
does when it issues a disconnect and gets no response would
explain what I saw this AM:

(H)eard Log: 1 @ 0600 CDT
(D)igipeaters Used: *W5RRR-1 > SAREX

No "CONGRATS!!!..." message this morning (darn it!). I've had
two times where APRS 7.6e (beta) has told me that I've
digipeated, but nobody thus far has seen it. I'm going to check
my TNC as per Bob's message #2565 to *ENSURE* that I'm set for
"GRIDSQUARE via W5RRR-1".

On the bright side, we still have all week to keep trying...

Bill Young
byoung@qni.com
KB0UZQ
Smithville (Kansas City), MO

1098. Re: Garmin 20 TAPR kit,,sucess

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sun, 30 Jun 1996 09:59:16 -0700 (PDT)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960630094734.7480F-100000@spork.callamer.com>
Rendered body type: text/plain

Hi Bob and the newgroup. Bob, you indicated wanting to know of sucess
with newer users such as myself. Yes, mine works fine obtaining a lockon
just minutes ago. A suggestion for others: I made a temporary antenna by
stripping back 1 7/8 inches of the provided RG174 coax outter covering,
then unbraided the shield finally twisting the shield into four "ground
planes". The inner conductor was left intact with the polyethlene
covering. All this does is make a simple antenna BUT has the advantage of
preventing shorts to the internal conductor, which would be disaster.
     I could NOT get a lockon inside the house. The unit had to be placed
outside. Once that was done, lockon occurred in 17 minutes with a brand
new unit never have been in this area. Cliff Buttschardt K7RR

1099. RE: Doppler on SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 13:06:53 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960630130311.26676A-100000@arctic>
Rendered body type: text/plain

WB4APR SAID:-> and the orientation of the shuttle favors looking aft,
meaning you will get the best singals after it passes you. With 3 KHz
doppler, you might consider listening on 145.555 and transmitting on
144.485 in this case. (Note +5 to listen, -5 to transmit. Reverse these
during approach).

TO WHICH N4NR POINTED OUT I SAID IT BACKWARDS! He is correct, of course.

1100. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 30 Jun 1996 12:09:37 -0700
To: aprssig@tapr.org
Message-ID: <31D6D0F1.1DBF@worldnet.att.net>
Rendered body type: text/plain

Well i missed the 4th and 5th pass, but with the path that i got the
Congrats!! with was after i had set my radio to 145.555 and the offset to
144.485 guess that does work pretty good that way. And by he way Bob i
did save the files by another name.
--
Bill KE4EER
ke4eer@worldnet.att.net
ke4eer@amsat.org

1101. Re: [APRSSIG:2568] RE: Doppler on SAREX

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 30 Jun 1996 12:52:42 -0700
To: aprssig@tapr.org
Message-ID: <31D6DB0A.44E5@worldnet.att.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> WB4APR SAID:-> and the orientation of the shuttle favors looking aft,
> meaning you will get the best singals after it passes you. With 3 KHz
> doppler, you might consider listening on 145.555 and transmitting on
> 144.485 in this case. (Note +5 to listen, -5 to transmit. Reverse these
> during approach).
>
> TO WHICH N4NR POINTED OUT I SAID IT BACKWARDS! He is correct, of course.

You know it doesn't take to many of you to totally confuse an old man like
myself. WHAT IS BACKWARDS does it take +5 to listen and -5 to transmit
when it's coming at you now RIGHT.
--
Bill (KE4EER)
ke4eer@worldnet.att.net
ke4eer@amsat.org

1102. Re: [APRSSIG:2527] Validation

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 13:57:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960630135715.26676E-100000@arctic>
Rendered body type: text/plain

V# for W6HST is 98303

de wb4apr@amsat.org

1103. Re: APRS Sarex report (7)

From: Timothy_A._Cunningham@ccgate.genrad.com
Date: Sun, 30 Jun 96 13:15:45 EST
To: aprssig@tapr.org, Bob Bruninga <bruninga@nadn.navy.mil>
Cc: amsat-bb@amsat.org
Message-ID: <9605308361.AA836169645@ccgate.genrad.com>
Rendered body type: text/plain

Bob,

Below are some QSL/QRZ beacons with some of the call signs you
were looking for. Times are specified in CDST.

```
W5RRR-1>QRZ [06/28/96  06:31:08] <UI>:
#439-N1PPP N2UME KB2KEI VE3EFX N9MYK N5SRY N1JEZ W5HUQ N8ULU N9AB
KE4MOG N3CXP KC4ZGQ KB5GON N9JGQ KC5TGC KC5JPG WB9UQE N5LRL N9PKI
KB5VHG N8QJL KB5JRA KE4EER N5ZNL WA5NOM WA4JAV N5TIM W9NTP N5VWM
K5VAS KG5IT ZL1HAU ZL3UCP JA5DTP

W5RRR-1>QSL [06/28/96  06:31:09] <UI>:
N9JGQ/343 N8ULU/340 KB5VHG/320 WA4JAV/313 K5VAS/307 ZL3UCP/302
JA5DTP/297
ZS5TM/289 ZS5MMD/288 ZS5NAC/284 JR8XPV/227 JA7TQK/228 JR5EBL/225
KD6VXJ/221
KO4GA/215


W5RRR-1>QRZ [06/29/96  09:33:51] <UI>:
#596-W9IXX WB4FIN AE0G N8DEU VE3EFX N8TN WB4LTF WA0ZZG WB5HJV N9ABK
N0NTW AA0W N0PGE KB8KPV N0WTA CALL KD6DUR W6JRY KB7WFO K6GZ KB7SOR
WB9AWX KE6AFE WA6LIE KK6BY WA6LXB VE7ITC VE7XQ AC6GN VK5ANK ZS6BMN
ZS5DU WB6LLO WB6UCD N6HNY

W5RRR-1>QSL [06/29/96  09:33:52] <UI>:
CALL/544 VK6JKR/513 ZL2AYO/497 JJ2RYW/471 EA8BRW/432 KF9WW/406
N7UFT/404
W7ZXQ/394 VK2ZM/384 VE1KK/360 VE3EFX/354 KB2RCT/353 N9JGQ/343
N8ULU/340
KB5VHG/320


W5RRR-1>QST [06/29/96  09:35:35] <I S0 R0>:
Best Wishes to today's Sarex Schools Maple Grove and Anacortes


W5RRR-1>QRZ [06/29/96  09:35:52] <UI>:
#605-VE2ZAZ AB4DQ KD4UPF VE3NBJ AL7EV W4JXM N8NYU KD4DBC N9PKI W9IXX
WB4FIN AE0G N8DEU VE3EFX N8TN WB4LTF WA0ZZG WB5HJV N9ABK N0NTW AA0W
N0PGE KB8KPV N0WTA CALL KD6DUR W6JRY KB7WFO K6GZ KB7SOR WB9AWX
```

```
KE6AFE WA6LIE KK6BY WA6LXB

W5RRR-1>QSL [06/29/96  09:35:54] <UI>:
N8NYU/570 WB4FIN/567 N8DEU/566 N9PKI/563 CALL/544 VK6JKR/513
ZL2AYO/497
JJ2RYW/471 EA8BRW/432 KF9WW/406 N7UFT/404 W7ZXQ/394 VK2ZM/384
VE1KK/360
VE3EFX/354


W5RRR-1>QST [06/30/96  04:49:49] <I S1 R0>:
processed some metals in a
high temperature furnace.
We have had 700 confirmed packet contacts so far.  Let's go for 1000
before our 17 day mission is over.
All of the SAREX school contacts have been very enjoyable for the
crew.
Today Chuck
W5RRR-1>QST [06/30/96  04:49:50] <I S2 R0>:
 will talk with students in Toowomba, Australia.
73's from Tom, Kevin, Susan, Rick, Chuck, Mongo and Bob
```

73's de Tim - N8DEU
n8deu@amsat.org

o

______________________________ Reply Separator _________________________________
Subject: APRS Sarex report (7)
Author: Bob Bruninga <bruninga@nadn.navy.mil> at CCGATE
Date: 6/30/96 11:12 AM

I am surprised that the SAREX activity has been much higher than I thought:
* SAREX active every day for 10 days except for the 22nd
* There have been 11 voice passes and 10 packet robot passes so far
* There have been 15 passes with no activity (not counting the 5 on 22nd)
* So on a pass/pass basis, SAREX has been active on almost 60% of the
  passes (except for 22 June).

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice Guiccone San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z packets. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#'s 672. KE4EER gets "CONGRATS" (Anyone see it?)
30  0720  1120z QSO#'s 729
```

30 0850 1250z nothing heard in MD

Still need someone who saw WB6LLO, KE4EER and KB0UZQ APRS packets. I still have two passes un accounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass.

APRS NOTE: Look on the ALL-BEACONS page to see the list of separate packets heard. Unfortunately it does not show the TO callsign, but it does give more information than the LATEST and D pages show.

ALSO check the OCT demb terminal mode and hit the TNC UNPROTO comand to confirm that it is setup for GRIDSQUARE via W5RRR-1.

de wb4apr@amsat.org

1104. Repeater locations

From: "Chris T. Thompson" <104357.130@CompuServe.COM>
Date: 30 Jun 96 15:34:34 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <960630193433_104357.130_IHS82-1@CompuServe.COM>
Rendered body type: text/plain

I've been reading the mail here about the disclosure of repeater locations for maps and such and have the following comment.

Our club repeater site is locked inside a steel cargo container and is surrounded by 10 foot high fencing with razor wire at the top and bottom. As a club rule we do not disclose more information on the location of it than the city its located in. For that matter, I don't believe more than 30 of the clubs 200+ members know where it is. And guess what. At least once a year somebody risks life and limb to either break in or vandalize it.

Please take my advise and keep this kind of information quiet. There aren't that many bad eggs in this hobby but it only takes one or two to ruin your day and your machine.

Chris N1NIQ

1105. Re: [APRSSIG:2570] RE: Doppler on SAREX

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 30 Jun 1996 15:24:06 -0500
To: aprssig@tapr.org
Cc: ke4eer@worldnet.att.net
Message-ID: <v02130500adfc8faeaa1d@[199.1.11.116]>
Rendered body type: text/plain

Just replace the word "MIR" with the word "Space shuttle" and note the Shuttle packet uplink frequency is 144.490 and is not simplex but is "SPLIT" mode.

[Info via Dave Mullenix, N9LTD]
* MORE MIR OPERATING HINTS *
============================
...comments on the effect that Doppler shift plays in communicating with a simplex communications satellite such as the Amateur Radio station on Mir.

Doppler shift is nothing new in satellite communications, but it takes on an interesting "twist" when a simplex communications link is employed. Doppler shift is the apparent frequency change observed as the result of the motion of either the transmitter or the receiver in a communications link. Both the satellite's motion and the Earth's rotation contribute to Doppler shift, with the satellite's motion playing the larger role. Doppler shift's magnitude is determined by the rate of motion, while its polarity is determined by the direction of motion. The polarity is also determined by whether the transmitter or the receiver is in motion.

When Mir is approching your ground station, the spacecraft appears to be moving towards you at a high rate of speed. This motion causes the signal received from Mir to appear about 3.5 kHz ABOVE Mir's actual transmitting frequency of 145.550 MHz. At the same time, while Mir races toward your ground station, it receives signals from your uplink transmitter about 3.5 kHz ABOVE your actual transmitting frequency.

No Doppler shift compensation is performed on the Mir spacecraft.
All compensation must all be handled by individual ground stations.

In order to compensate for the effects of Doppler shift, ground stations wishing to communicate with Mir must tune their receivers several kilohertz ABOVE 145.550 MHz at the time of acquisition of signal (AOS), AND their transmitters several kilohertz BELOW 145.550 MHz. This involves transmitting and receiving on separate (split) frequencies approximately 7 kHz apart. Most ground stations use transceivers that transmit on the same frequency on which they receive (simplex), and if they tune their transceivers 3.5 kHz (or 5 kHz if their equipment tunes in 5 kHz steps) above 145.550 MHz at the start of a pass, their uplink signals are received 7 kHz (or 8.5 kHz) ABOVE what the Mir space station receiver is tuned to. The chances of establishing a radio contact under these conditions are extremely remote, even if there are no other ground stations competing for Mir's uplink receiver.

Around the time of closest approach (TCA), which also occurs around the time of maximum elevation for satellites such as Mir in circular orbits, the Doppler shift between Mir and the ground station approaches zero. It then quickly reverses polarity as Mir recedes at an ever increasing rate away from the ground station. At TCA, it is safe for ground stations to set their transceivers to 145.550 MHz and not worry about Doppler shift. As Mir recedes however, stations should tune their receivers several kilohertz BELOW 145.550 MHz, and their uplink transmitters several kilohertz ABOVE 145.550 MHz to compensate for the increasing Doppler shift. Failure to properly compensate for the Doppler shift on the uplink would, again, result in the ground station's signal falling outside the passband of the narrowband FM receiver on Mir shortly after TCA. As Doppler shift increases, so must the split between the ground station's transmitting and receiving frequencies. As DOWNLINK signals drift DOWN in frequency during a pass, UPLINK signals must drift UP. T/R offset is zero at TCA, and maximum at AOS and LOS.

The effects of Doppler shift play a greater role in packet radio communications than they do in FM voice communications. 1200 baud packet radio communications (1 kHz shift AFSK on a narrowband FM carrier) occupy a much greater signal bandwidth than does FM voice, 1200 baud Manchester encoded FSK, or even 9600 baud FSK packet. If an uplink signal isn't properly centered within the passband of the FM receiver on Mir, it will be received with severe distortion if it is received at all. Tests have shown that a 1200 baud FM packet signal must be strong enough to produce at least 25 dB of receiver quieting for an acceptable bit error rate performance. Along the same lines, if other stations are competing with one another on the uplink frequency, it would take a signal strength at least 25 dB above the SUM TOTAL OF ALL OTHER SIGNALS on frequency to be received reliably on Mir because of the capture effect of FM. If just one bit of a packet frame is received in error, then the entire packet frame is damaged and must be re-sent by the transmitting station until it is received cleanly without error. Incidientially, a signal 25 dB (300 times) stronger than the sum total of all others is an ASTRONOMICAL signal level even if only a few other ground stations are colliding with one another on Mir's uplink frequency. That's why QRM is so damaging and following proper operating procedures is so important when communicating with Mir.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

1106. ad4bl: SAREX

From: ad4bl@juno.com (Linda G Mullen)
Date: Sun, 30 Jun 1996 15:30:53 PST
To: aprssig@tapr.org
Message-ID: <19960630.155915.3006.3.ad4bl@juno.com>
Rendered body type: text/plain

I am using APRS 74.B in space mode and everytime my system transmits the beacon, I get a message that my packet was digipeated and the Mode is
reset
to Sucess. I have tried to turn ECHO off but it doesn't stay off. I am
using a KPC-3
TNC. Is there another parm that needs to be changed?

APRS SAREX report...copied the signals, but were so weak that it didn't
even show
on the radio display. Time was 1045Z location: 3013.81N 08540.35W

AT 1609z I heard KC7NHZ calling another station from the
Shuttle...transmission
time was short but fairly clear.

Linda AD4BL

1107. APRS/GPS/DFjr T-Hunting

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Sun, 30 Jun 1996 16:36:47 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199606302141.QAA03499@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

The equipment has finally been put together and ran thru its paces. It tool a bit of wire routing and hair pulling, but I finally got all the equipment to talk to each other and working. I took my pile of electronics out on a "special" t-hunt this weekend.

Sometime saturday morning, I got a call from a fellow ham on the repeater stating that he thought he was hearing a call for help on the 52 freq. I usually monitor that frequency, but that morning I wasn't scanning. After a QSY I found him. Sure enuf, a fellow ham (call intentionaly left out!) was stranded on the Buffulo River without a paddle. Seems he'd forgot to "train the XYL" in seamanship of a canoe. Three rapids and a dumped boat later, thier stuff was scattered. My thought was to get a desciption of his location from him, but that would take up a lot of time and battery, not to mention the ham was not from "down south". So, I thought, what a great way to use the DFjr, APRS thangy!

There a now fewer access roads to the river, thanks to the *$$%^(# Park Service, so I needed help from a few of my APRS buds. After getting the initial fix and plotting it we had a starting point. Unfortunately, there were two roads, 4 miles apart on the river, on different sides but it took about 35 miles to go around. In these hills your signal is bounced from one end to the other and can get ya turned around in a hurry. So, I took another heading at a new location and got a report from a QTH DF. We now had a "good" fix. We called the ham on the radio and told him to gather up his stuff, the wet XYL and climb in the canoe, as he was less than a few hundred yards to his take-out point and could float there in a few minutes!!!

I think he was being confused by the wet XYL, but ya never know......the next time it could be a REAL emergency!

Without the DFjr, GPS and APRS, we would not have found him so easily. My hats off to Bob and Joe for the hard work and time that it took in developing this software and equipment. I just can't wait to try it out on a "real" t-hunt.....grin...
--
KC5JGV
Marshall, Arkansas

1108. Re: [APRSSIG:2556] FL APRS Page Updated

From: BordingK@aol.com
Date: Sun, 30 Jun 1996 18:07:20 -0400
To: aprssig@tapr.org, kd4ujk@jaxnet.com
Message-ID: <960630180719_424867652@emout07.mail.aol.com>
Rendered body type: text/plain

FYI

1109. Re: [APRSSIG:2555] Re: MacAPRS 2.6.0!!!

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Sun, 30 Jun 1996 19:10:13 -0400
To: aprssig@tapr.org
Message-ID: <31D70955.2661@codger.physics.duq.edu>
Rendered body type: text/plain

Johnie Stafford wrote:

> The other day I asked if there is a Linux version of APRS and got no
> response, I'll take that as a 'no'.

Currently, that answer is correct. There is a Linux version coming. Release date, as I understand it, is "Real Soon Now".

(Back when I ran a phone BBS, "Real Soon Now" meant that it was actively being worked on, but was not ready for release.)

1110. Re: [APRSSIG:2573] Repeater locations

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Sun, 30 Jun 1996 19:29:01 -0400
To: aprssig@tapr.org
Message-ID: <31D70DBD.3452@codger.physics.duq.edu>
Rendered body type: text/plain

```
Chris T. Thompson wrote:

> For that matter, I don't believe more than 30 of the clubs
> 200+ members know where it is.  And guess what.  At least once a year somebody
> risks life and limb to either break in or vandalize it.

My point is that even though you take great pains to keep its location
secret, anyone that wants to can find it.  Just plunk a DFjr or Roanoke
unit on the car and drive straight to it.  (Or a DDDF or a beam.  Even
body-shielding an HT.)

Making the degrees and minutes publicly available would give a one mile
ambiguity.  Or, using tenths of degrees gives approximately a six mile
ambiguity.  This would be sufficient resolution for mapmaking, but not
to physically find a repeater.
```

1111. DFjr - Where to find

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Sun, 30 Jun 1996 19:35:27 -0400
To: aprssig@tapr.org
Message-ID: <31D70F3F.2C48@codger.physics.duq.edu>
Rendered body type: text/plain

```
Who is the contact for the DFjr?  I ran into a pocketful of nickels and
am thinking of getting one.
```

1112. NMEA decode wanted.

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Sun, 30 Jun 1996 19:53:01 -0400
To: aprssig@tapr.org
Message-ID: <199606302353.SAA17609@tapr.org>
Rendered body type: text/plain

```
Hi Gang;

   Can anyone point me towasds a PC program that decodes the NMEA
 sentences and displays them in some order on the screen.

    TNX Charlie K3VDB
```

1113. Re: [APRSSIG:2580] DFjr - Where to find

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 30 Jun 1996 19:07:01 -0700
To: aprssig@tapr.org
Message-ID: <31D732C5.2255@worldnet.att.net>
Rendered body type: text/plain

```
Paul Christenson wrote:
>
> Who is the contact for the DFjr?  I ran into a pocketful of nickels and
> am thinking of getting one.

Paul i think you will find their web site here. It will also have an order
form, and info about the DFjr.

http://home.navisoft.com//agrelo/ae.htm
--
Bill WA8INZ Former (KE4EER)
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

1114. APRS and SAREX!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 21:38:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960630212530.770A-100000@arctic>
Rendered body type: text/plain

```
I really dont think but a few of us are trying.

1)  Stats are running VERY LOW,  WIth all my SAREX and APRtrak efforts
```

```
    this is going to be very embarrassing..  We are NOT lighting up the
    map like I promised!
2)  There are 80 stations on my local 145.79 map.  I have been sending a
    BULLETIN about SAREX to the net all week.  Only ONE station has
    indicated he is trying.  And I hear NO ONE on the uplink locally.
3)  IS SOMEONE IN YOUR AREA BEACONING BULLETINS ABOUT SAREX???  If not,
    how do you expect them to know about it?  I would guess there are onlyu
    30 stations here on the sig trying.  COmpare that to 10,000 trying
    to connect.

*** IF you WERE trying, and WERE on 144.49 TRANSMIT and were on 145.55
RECEIVE and EVERYTHING WAS PROPERLY CONIFIGURED **AND** YOU WERE
OPERATING DURING A SAREX PACKET PASS, then tell me  how many passes.
If you were doing somethig wrong, then dont count it.  I only want to
count stations that were legitimately sending GOOD APRS packets during
GOOD PACKET passes.  THanks,  SNED TO ME PERSONALLY, I wll tally it up.

 de wb4apr@amsat.org
```

1115. PicoPacket w/Built-in GPS

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 30 Jun 1996 23:03:26
To: APRSSIG@tapr.org
Message-ID: <199607010303.XAA29602@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi all,

     After about three days of puzzling over it, rewiring the
connectors three or four times and innumerable (so it seemed)
false starts, I finally got the bloody thing working!  We're
so used to needing to put those pesky resistors and capacitors
in the connector that I overlooked something PaccComm thought-
fully provided in the PicoPacket:  They INCLUDE THESE COMPON-
ENTS INSIDE THE TNC!  If you're gonna use the thing with an HT,
there's no need to go piddling with them, making for a fragile
connector which will eventually be prone to fixing or replace-
ment.

     Before you fire up APRS with this unit, remember to edit
your "inittapr.tnc", "restore.tnc" and "cfig75b.apr" files so
the proper parameters are set when you enter and leave the pro-
gram.  The ones I've set (in addition to the defaults) are:

INITTAPR.TNC

GPSI GPSItext
GPSTE $GPGGA
LOC Every 1200
LPATH APRS VIA WA2JNF-4,KA3ODJ-8,WIDE
MY N2ZRC-9
MYA ARTEMX
U APRS VIA WA2JNF-4,KA3ODJ-8,WIDE

RESTORE.TNC

Similar to above, except LOC 300 (for when I'm mobile.)

CFIG75B.APR

Change the callsign to some SSID other than your base (DON'T
change the number of characters in either of these statements!)

Change the symbol to something other than that of your base (I
use > which is a car.)

     The only problems I've seen so far are due to the physical
layout of my shack and apartment.  The window of my shack faces
west, and is the ONLY one on this side of the building that
does!  All the others face north.  Thus, I could only make the
antenna see one quadrant of the sky (which makes for very in-
termittent locks.)  I now have the antenna at the end of a hoc-
key stick which extends beyond the corner of the building and
allows it to see from west to north to east.  It looks WEIRD,
but I got a lock and haven't lost it yet.

     The other problem lies with my great fortune in living a
half an air mile, and in line of sight with, the two tallest
buildings in The Bronx.  Officially named Tracy Towers, I call
```

them "Pager Heaven!" There are numerous high-power pager repeaters there and are extremely annoying at times (does anybody happen to have a 105 howitzer I can borrow 8-).) I have the DCI 2 meter and 70cm filters on my main (mobile) rig but, because of the physical layout of the shack, can't use them on the HT with which I'm running APRS at the moment.

Those of you in the NY-NJ-CT-PA area, keep a lookout for N2ZRC-9! I'll be putting this sucker to work soon. 73 de

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Set coordinates 2-7-1, Chewbacca...

1116. Re: Linix version of APRS

From: Mark Sproul <sproul@ap.org>
Date: Sun, 30 Jun 1996 23:16:37 -0400
To: aprssig@tapr.org
Message-ID: <v03007605adfcf2c235ac@[165.1.27.20]>
Rendered body type: text/plain

>Johnie Stafford wrote:
>
>> The other day I asked if there is a Linux version of APRS and got no
>> response, I'll take that as a 'no'.
>
>Currently, that answer is correct. There is a Linux version coming.
>Release date, as I understand it, is "Real Soon Now".
>

NO NO NO, it is NOT real soon,

we had a demo show maps at Dayton. This was ONLY the map display portion and proof of concept. We WILL have a fully functional, fully compatible version for X-Windows. The current SCHEDULE is

we MIGHT, I repeat MIGHT have beta around X-mas, we hope to release at Dayton (does this have a familiar ring to it or what?)

DO NOT bug us about it, if you have specific questions ok, we are still busy on WinAPRS.

Just for those curious, it will again be the same source code, after porting to MS-Windows, the port to get maps drawing on X-Windows took 3 days. I expect the X version to be WONDERFULLY easy compaired to MS-Windows. We have most of the port already designed, just all of the implementation yet to do.

Mark

```
____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

1117. Re: [APRSSIG:2570] RE: Doppler on SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 23:31:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960630233024.1447A-100000@arctic>
Rendered body type: text/plain

On Sun, 30 Jun 1996, William Nolle wrote:

> You know it doesn't take to many of you to totally confuse an old man like
> myself. WHAT IS BACKWARDS does it take +5 to listen and -5 to transmit
> when it's coming at you now RIGHT.

APRSdos REPLY COMMENT: Yes, correct, hi hi Comming AT you...

de wb4apr@amsat.org

1118. Re: [APRSSIG:2575] ad4bl: SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 30 Jun 1996 23:55:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960630235406.1447G-100000@arctic>
Rendered body type: text/plain

```
On Sun, 30 Jun 1996, Linda G Mullen wrote:

> I am using APRS 74.B in space mode and everytime my system transmits the
> beacon, I get a message that my packet was digipeated and the Mode is
> reset
> to Sucess.  I have tried to turn ECHO off but it doesn't stay off.  I am
> using a KPC-3
> TNC.  Is there another parm that needs to be changed?
>
APRSdos REPLY COMMENT: I forget the exact command, but its something like
MXMT OFF to turn the monitoring of your own transmitted packets OFF.

de wb4apr@amsat.org
```

1119. Re: [APRSSIG:2581] NMEA decode wanted.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 1 Jul 1996 00:04:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960701000308.1447J-100000@arctic>
Rendered body type: text/plain

```
On Sun, 30 Jun 1996, Charles E. Heisler wrote:

>    Can anyone point me towasds a PC program that decodes the NMEA
>  sentences and displays them in some order on the screen.

APRSdos REPLY COMMENT:  I assume you have used the APRS GPS satelltie
display under the alt-SETUP-GPS-PLOTS display?

de wb4apr@amsat.org
```

1120. Re: [APRSSIG:2585] Re: Linix version of APRS

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Mon, 01 Jul 1996 00:05:37 -0400
To: aprssig@tapr.org
Message-ID: <31D74E35.103E5C07@codger.physics.duq.edu>
Rendered body type: text/plain

```
Mark Sproul wrote:
>
> >Johnie Stafford wrote:
> >
> >> The other day I asked if there is a Linux version of APRS and got no
> >> response, I'll take that as a 'no'.
> >
> >Currently, that answer is correct.  There is a Linux version coming.
> >Release date, as I understand it, is "Real Soon Now".
> >
>
> NO NO NO, it is NOT real soon,
>
> we had a demo show maps at Dayton.  This was ONLY the map display portion
> and proof of concept.  We WILL have a fully functional, fully compatible
> version for X-Windows.  The current SCHEDULE is
>
> we MIGHT, I repeat MIGHT have beta around X-mas,  we hope to release at
> Dayton (does this have a familiar ring to it or what?)

Sounds exactly like the description of "Real Soon Now" that I'm used to...  <G>

"RSN" has also been known to mean "It'll be out by Christmas.  Couldn't tell you
which year, though."

Didn't intend to mislead anyone; I thought I described what "Real Soon Now"
really meant...  just a stock answer to the eternal question.  On the order of
"When it's ready".
```

1121. APRS Sarex report (8)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 1 Jul 1996 00:29:26 -0400 (EDT)

To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960701001209.1447L-100000@arctic>
Rendered body type: text/plain

Last report, I observed that the SAREX activity actually has been pretty high (about 60%). But I just realized that this does NOT include the scheduled School contacts which we would not hear on 145.55. So I will try to include that in the next report..

* SAREX active every day for 11 days except for the 22nd
* There have been 12 voice passes and 14 packet robot passes so far
* There have been 18 passes with no activity (not counting the 5 on 22nd)
  (many of these could be SCHOOL passes)
* So on a pass/pass basis, SAREX has been active on almost 60% of the
  passes (except for 22 June). 33% have been packet!

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z packets. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#'s 672. KE4EER gets "CONGRATS" (Anyone see it?)
30  0720  1120z QSO#'s 729. (27 pkts copied in MD) (4 were APRS)
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
```

Still need someone who saw WB6LLO, KE4EER and KB0UZQ APRS packets. I still have two passes un accounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass.

APRS NOTE: Look on the ALL-BEACONS page to see the list of separate packets heard. Unfortunately it does not show the TO callsign, but it does give more information than the LATEST and D pages show.

ALSO check the OCT demb terminal mode and hit the TNC UNPROTO comand to confirm that your TNC is setup for GRIDSQUARE via W5RRR-1.

de wb4apr@amsat.org

July 1996

Original source file: aprssig.9607
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-07/TAPR-APRS_1996-07.txt

1. Re: [APRSSIG:2559] Re: Garmin 45

```
From: rsellers@misha.net (Roger Sellers)
Date: Sun, 30 Jun 1996 23:50:22 -0500
To: aprssig@tapr.org
Message-ID: <199607010450.XAA09404@misha.net>
Rendered body type: text/plain
```

```
>Roger Sellers wrote:
>> >Paul Sadowski wrote:
>> >> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
>> >> for $240 at boat US... $230 if you are a member and got the flyer in
>> >> Al
>> >> AH6LS
>> >
>> >Magellan is a better deal since it INCLUDES bracket and cable which is
>> >almost $50 extra with Garman 45.  Same store.
>> >Bud (WB4LTF)
>> >
>>   For those un-initiated ones that have never heard of this store or dont
>> have one locally, How about an address and/or phone number to go with this.
>>
>> There are 30 stores nation wide. Depends which  one you are near.
>
>Bud. WB4LTF
 Ok, so my message was about as vague... lets try Chicago area or if not
close.. an 800 or any number will do.

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

2. STS-78

```
From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 01 Jul 1996 04:52:12 -0700
To: aprssig@tapr.org
Message-ID: <31D7BBEC.6380@worldnet.att.net>
Rendered body type: text/plain
```

```
Well first pass was voice, better luck for APRS next pass. This pass was
much better (Stronger signal) then any of the other once.
--
Bill WA8INZ Former (KE4EER)
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

3. Re: [APRSSIG:2591] Re: Garmin 45

```
From: Paul Sadowski <sadowski@cris.com>
Date: Mon, 1 Jul 1996 06:20:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960701062343.0eaf901c@pop3.cris.com>
Rendered body type: text/plain
```

```
FYI Folks

1 800 555 1212  is 800 (and 888) directory information.  In other words
if you call that number and give the operator the name of the company (and
if they have multiple locations - a location or area of the country), the
operator can give you ANY 800 or 888 toll free number.

BTW, I goofed in the original posting and said "this weekend on" .... for
some reason this laptop has a goofy keyboard mouse interaction... it should
have read "this weekend on 28-29 June"  sorry... sale over - but I'm sure
that price will be seen again...

I too have owned both a Garmin and Magellan...   got rid of the Magellan..


ALOHA
AH6LS
```

```
At 12:03 AM 7/1/96 -0500, you wrote:
>>Roger Sellers wrote:
>>> >Paul Sadowski wrote:
>>> >> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
>>> >> for $240 at boat US... $230 if you are a member and got the flyer in
>>> >> Al
>>> >> AH6LS
>>> >
>>> >Magellan is a better deal since it INCLUDES bracket and cable which is
>>> >almost $50 extra with Garman 45.  Same store.
>>> >Bud (WB4LTF)
>>> >
>>>   For those un-initiated ones that have never heard of this store or dont
>>> have one locally, How about an address and/or phone number to go with this.
>>>
>>> There are 30 stores nation wide. Depends which  one you are near.
>>
>>Bud. WB4LTF
> Ok, so my message was about as vague... lets try Chicago area or if not
>close.. an 800 or any number will do.
>
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@misha.net
>E-Mail Work: rsellers@snds.com
>
>
>
```

---

4. Re: [APRSSIG:2579] Re: Repeater locations

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Mon, 01 Jul 1996 09:58:54 -0400
To: aprssig@tapr.org
Cc: rick_o@jericho.com
Message-ID: <31D7D99E.47A3@jericho.com>
Rendered body type: text/plain

```
Hi all again,
        I feel bad for bringing up a topic that has the potential to
start a war.  But then again I sometimes think anything could start a war
here.(I'll try to watch my spelling)

        I was looking for a simple non-exact way to plot the location of
(voice and DigGi) repeaters to determin my range to them.  But thank you
all I guess I'll keep lookin'.

Rick_O@jericho.com



>
> Chris T. Thompson wrote:
>
> > For that matter, I don't believe more than 30 of the clubs
> > 200+ members know where it is.  And guess what.  At least once a year somebody
> > risks life and limb to either break in or vandalize it.
>
> My point is that even though you take great pains to keep its location
> secret, anyone that wants to can find it.  Just plunk a DFjr or Roanoke
> unit on the car and drive straight to it.  (Or a DDDF or a beam.  Even
> body-shielding an HT.)
>
> Making the degrees and minutes publicly available would give a one mile
> ambiguity.  Or, using tenths of degrees gives approximately a six mile
> ambiguity.  This would be sufficient resolution for mapmaking, but not
> to physically find a repeater.
```

---

5. Re: [APRSSIG:2559] Maridian XL

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Mon, 01 Jul 1996 10:03:26 -0400
To: aprssig@tapr.org
Cc: rick_o@jericho.com
Message-ID: <31D7DAAE.16E2@jericho.com>
Rendered body type: text/plain

```
Hi all,
        I have my eye on a Meridian XL for $289.... Wondering if anyone
has any opinions about how well it will interface with aprs and if
```

```
anyone has checked it out as far as how well it tracks.

Thanks all,
rick_o@jericho.com
Rick O'Hearn
KF4CDO
36'46"N76'06"W

aprssig@tapr.org wrote:
>
> Roger Sellers wrote:
> >
> > >Paul Sadowski wrote:
> > >>
> > >> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
> > >> for $240 at boat US... $230 if you are a member and got the flyer in
> > >>
> > >> Al
> > >> AH6LS
> > >
> > >Magellan is a better deal since it INCLUDES bracket and cable which is
> > >almost $50 extra with Garman 45.  Same store.
> > >
> > >Bud (WB4LTF)
> > >
> > >
> >   For those un-initiated ones that have never heard of this store or dont
> > have one locally, How asbout an address and/or phone number to go with this.
> >
> > Roger Sellers
> > Amateur Radio: KB9LBU
> > E-Mail Home: rsellers@misha.net
> > E-Mail Work: rsellers@snds.comThere are 30 stores nation wide. Depends which  one you are near.
>
> Bud. WB4LTF
```

---

6. STS-78: Real-Time World Map Display

From: Bob Derderian <n2iph@cyberenet.net>
Date: Mon, 01 Jul 1996 06:55:05 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <31D7AE88.4370@cyberenet.net>
Rendered body type: text/plain

```
http://flight.jsc.nasa.gov/realtime/
```

---

7. Re: [APRSSIG:2588] Re: NMEA decode wanted.

From: Jim Clark <JClark9701@gnn.com>
Date: Mon, 01 Jul 1996 07:16:25 -0700
To: aprssig@tapr.org
Message-ID: <31D7DDB9.155D@gnn.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Sun, 30 Jun 1996, Charles E. Heisler wrote:
>
> >    Can anyone point me towasds a PC program that decodes the NMEA
> >  sentences and displays them in some order on the screen.
>
> APRSdos REPLY COMMENT:  I assume you have used the APRS GPS satelltie
> display under the alt-SETUP-GPS-PLOTS display?
>
> de wb4apr@amsat.org
Bob, post the question in rec.boats or I think the new one is
rec.boats.electronics. A page exists with all the specs. on NMEA but I
don't know where.

Jim N5TJZ S/V Wandering Spirit
```

---

8. Aligator

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Sun, 30 Jun 1996 23:04:43 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607011223.HAA11109@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
* break * *break * *break* the war "air" around here.
```

I'm sure the Florida APRS users ploted the ValuJet crash..... well, did you here the two aligators talking?

What did one Florida aligator said to the other?

"This airline food aint so bad is it?????"

Sorry, about take up the "bandwidth" but it sure beats wars!

--
KC5JGV
Marshall, Arkansas

9. SARS

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 01 Jul 1996 06:58:17 -0600
To: aprssig@tapr.org
Message-ID: <31D7CB69.844@slkc.uswest.net>
Rendered body type: text/plain

Heard packets on 145.55 this pass (1246Z), but didn't copy any solid enough to get a decode. They exhibited a lot of doppler and matched the predicted orbital times, so I'm assuming that it was STS-78 - this time I tried matching doppler on the up/down (let's see Bob, that's 145.555/144.485 approaching and 145.455/144.495 receding, right?) and thought I might have heard a digi in response, but without the decode I can't be sure.

73
Doug
KC7CO

10. Garmin 20, deaf >> dead

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Mon, 01 Jul 1996 08:58:19 -0400
To: aprssig@tapr.org
Cc: "Stacey E. Mills" <sem2r@virginia.edu>
Message-ID: <199607011300.JAA127536@avery.med.Virginia.EDU>
Rendered body type: text/plain

Well, after leaving my "deaf" GPS-20 running over the weekend for several hours, I came in to find that the unit had quit all together....no NMEA output of any kind. Voltage in was fine at regulated (5.14 v)....output connections all fine, switching to my GPS-45 with the same software/cabling worked fine, etc ,etc,. The failure was spontaneous with no "help" on my part.

After multiple repeat tries, scrutinizing the board, etc, I can find no abnormalities. I guess it's send back time...such is life.

Stacey E. Mills
E-Mail: sem2r@galen.med.virginia.edu
Office Phone: 804-982-4406
Office Fax: 804-924-8767

11. APRS in ECUADOR

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Mon, 1 Jul 1996 06:14:39 -0700
To: aprssig@tapr.org
Message-ID: <199607011314.GAA05049@poseidon>
Rendered body type: text/plain

ATTN: APRS USERS..   Filed: 011300GMT JUL 96

Have received several packet messages from TED/HC5K, in Ecuador concerning his forthcoming APRS involvement from his QTH. He hasn't mentioned his town. Hi...

He has a PacComm Tiny-2/MK2, GPS and a KAM+ and wants to run a GATEWAY with the Kam and asked for HELP. Gonna run GPS tracking from his car and get his mobile Gated on 30M/10151/LSB. Has been copying 30M and gave me calls of 15 APRS users, mostly from midwest/east and from FL to Canada, so is copying you'all.
Also he is the only SYSOP in Ecuador.

His US packet address: HC5K@NO8M.#NE0H.OH.USA.NA
Internet: etjm@az.pro.ec

He lacks good maps of his area, so if anyone can QSO and possibly provide couple good maps for his area/town, wherever that is, would

```
be nice to help him out. Says he has good local paper maps of his area.

  Gave him aprssig@tapr.org address and how to join the SIG and hints
on setting up KAM to Gate HF traffic. Info on setting up and using his
GPS mobile for his local tracking.
   So if any APRS user, would like to help the Gentelman out further,
drop him a line if you like.
       APRS, TRY IT, YOU'LL LIKE IT...

  73's & Enjoy, Bill/WB6LPG @ KA6EYH
NNNN
WBB/WB6LPG
```

12. Re: [APRSSIG:2573] Repeater locations

From: N8CHB <n8chb@tir.com>
Date: Mon, 01 Jul 1996 15:19:21 +0100
To: aprssig@tapr.org
Message-ID: <31D7DE68.5611@tir.com>
Rendered body type: text/plain

```
Chris T. Thompson wrote:
>
> I've been reading the mail here about the disclosure of repeater locations for
> maps and such and have the following comment.
>
> Our club repeater site is locked inside a steel cargo container and is
> surrounded by 10 foot high fencing with razor wire at the top and bottom.  As a
> club rule we do not disclose more information on the location of it than the
> city its located in.  For that matter, I don't believe more than 30 of the clubs
> 200+ members know where it is.  And guess what.  At least once a year somebody
> risks life and limb to either break in or vandalize it.
>
> Please take my advise and keep this kind of information quiet.  There aren't
> that many bad eggs in this hobby but it only takes one or two to ruin your day
> and your machine.
>
> Chris N1NIQ
///////////////////

What's needed possibly is a little reversed psychology.
Forget all the security measures and mount the repeater
on a US Mail box in a highly visible area.
Put a sign on it telling what it is and value.
Next tell everyone where it's located and nobody will care.

Moral is:
        When one can openly admit they have no control
over something, the need for an other to take it will be gone.

73

Roger N8CHB
```

13. Re: [APRSSIG:2594] Re: Repeater locations

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Mon, 1 Jul 1996 10:35:15 -0500
To: aprssig@tapr.org
Message-ID: <199607011535.KAA03894@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
At 05:39 AM 7/1/96 -0500, Rick O'Hearn wrote:
>       I feel bad for bringing up a topic that has the potential to
>start a war.  But then again I sometimes think anything could start a war
>here.(I'll try to watch my spelling)
>
>       I was looking for a simple non-exact way to plot the location of
>(voice and DigGi) repeaters to determin my range to them.  But thank you
>all I guess I'll keep lookin'.

No problem.  I think it brought up a very valid topic -- since APRS is quite
exact, and it's the least expensive tool of its kind, it has great potential
for stuff like that.  Every tool has two sides, a good side and a bad side.
Look at hammers, knives, screwdrivers, WWW browsers, et al.  APRS is no
different -- it can be used for good (finding repeaters as you drive along
so you can chat) or bad (finding repeaters as you drive along so you can get
a new black blinky box for your shack).

Keep that in mind.  I can't see any of the active list members using it for
bad purposes, but we aren't the only ones using it.  I'm not saying that
```

```
APRS should be turned into an exclusive tool for personal friends of Bob,
nor am I saying it should be pruned into APRS Lite or something.  I am
saying that we should remember that every feature stuck into it has the
potential for abuse, and ergo, the attention of less-understanding powers
that be.  -rt

--
#!/usr/bin/perl
# Ryan Tucker <rtucker@ttgcitn.com> - President, TTGCITN Communications
# A famous Canadian is concerned for my mental well-being.  Why?
print "You will be Enlightened.";exec("lynx http://www.ttgcitn.com");
```

14. Re: [APRSSIG:2599] SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 1 Jul 1996 11:56:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960701115529.3457C-100000@arctic>
Rendered body type: text/plain

```
On Mon, 1 Jul 1996, Doug Wetzel wrote:

> I tried matching doppler on the up/down (let's see Bob, that's
> 145.555/144.485 approaching and 145.455/144.495 receding, right?) and
                                      545
Typo I assume?

de wb4apr@amsat.org
```

15. GPS-20 Lock Sucess

From: randyh@gvgadg.gvg.tek.com (Randy Hall)
Date: Mon, 01 Jul 1996 09:15:44 -0700
To: aprssig@tapr.org
Message-ID: <9607011616.AA17031@gvgadg.gvg.tek.com>
Rendered body type: text/plain

```
Hi,

I too got my GPS-20 running this weekend. I wired the GPS-20 up on a hunk of
perf board along with a Maxim switching regulator board to provide the
GPS-20 with 5VDC.

I have a GPS-26, the Garmin active antenna. I connected this to a 20 foot
extension cable and ran the cable through the window. I had to try several
places outside to get a lock. I ended up puting it up on the patio rafters
so that it could see more of the sky. Its first lock took 20-30 minutes.
Relocks take only a couple of minutes now.

I checked the current draw. GPS-20 by itself is about 70mA. Their lit says
max of around 180 mA. The active antenna draws about 10-15 mA more.

I am watching the data on a terminal program on a PC.

Now waiting for my LCD display module, then into a box.

Randy
WA2AGE



-----------------------------------------------------------------------
|                                    O-                                |
|                                                                      |
|                 Thank you AOL, 24 disks and counting.                |
|                                                                      |
| Randy Hall WA2AGE  randyh@gvgadg.gvg.tek.com   Grass Valley Products|
-----------------------------------------------------------------------
```

16. Re: [APRSSIG:2598] Aligator

From: jkerns@usit.net (jim kerns)
Date: Mon, 01 Jul 1996 12:15:37 -0400
To: aprssig@tapr.org
Message-ID: <199607011624.MAA23954@use.usit.net>
Rendered body type: text/plain

```
>* break * *break * *break* the war "air" around here.
>
>I'm sure the Florida APRS users ploted the ValuJet crash.....
>well, did you here the two aligators talking?
```

>
>What did one Florida aligator said to the other?
>
>"This airline food aint so bad is it?????"
>
>
>Sorry, about take up the "bandwidth" but it sure beats wars!
>--
>KC5JGV
>Marshall, Arkansas
>
>
>I CERTINALLY HOPE NONE OF OUR READERS HAD FAMILY ON THE VALUE JET THAT
CRASHED. (POOR TASTE FOR OPEN CHANNEL TO READ !!!!
Jim in Tn.

---

17. Re: [APRSSIG:2603] Re: Repeater locations

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 1 Jul 1996 12:33:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960701122723.3457J-100000@arctic>
Rendered body type: text/plain

On 1 Jul 96, Ryan Tucker wrote about the concenrs over EXACT rptr locations:

> No problem. I think it brought up a very valid topic -- since APRS is quite
> exact, and it's the least expensive tool of its kind, it has great potential
> for stuff like that. Every tool has two sides, a good side and a bad side.
> Look at hammers, knives, screwdrivers, WWW browsers, et al. APRS is no
> different ...

APRSdos REPLY COMMENT: I though I posted a response that announced the
next version of APRS *CAN* maintain position ambiguity. Just use the
"SPACE" character instead of a numeral in the APRS posit format. Then
APRS will NOT display the object below a certain display scale:

3958.11N	Exact location
3958.1 N	Will not display below 8 miles
3958 N	Will not display below 128 miles.
39 N	Will not display below 512 miles.

de wb4apr@amsat.org

---

18. Re: [APRSSIG:2602] Re: Repeater locations

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 01 Jul 96 12:40:07 EDT
To: aprssig@tapr.org
Message-ID: <199607011640.QAA65476@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

>>
>> I've been reading the mail here about the disclosure of repeater locations for
>> maps and such and have the following comment.
>>
>> Our club repeater site is locked inside a steel cargo container and is
>> surrounded by 10 foot high fencing with razor wire at the top and bottom. As a
>> club rule we do not disclose more information on the location of it than the
>> city its located in. For that matter, I don't believe more than 30 of the clubs
>> 200+ members know where it is. And guess what. At least once a year somebody
>> risks life and limb to either break in or vandalize it.
>>
>> Please take my advise and keep this kind of information quiet. There aren't
>> that many bad eggs in this hobby but it only takes one or two to ruin your day
>> and your machine.
>>
>> Chris N1NIQ

How do you keep the location of a powerful emitter of RF secret?
Any moron with a scanner connected to a hand held yagi beam
can find it sooner or later!

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

19. Re: [APRSSIG:2570] RE: Doppler on SAREX

```
From: Gary Arnold <garnold@naples.net>
Date: Mon, 01 Jul 1996 13:33:55 -0700
To: aprssig@tapr.org
Message-ID: <31D83633.25C2@naples.net>
Rendered body type: text/plain
```

```
William Nolle wrote:
>
> Bob Bruninga wrote:
> >
> > WB4APR SAID:-> and the orientation of the shuttle favors looking aft,
> > meaning you  will get the best singals after it passes you.  With 3 KHz
> > doppler, you might consider listening on 145.555 and transmitting on
> > 144.485 in this case. (Note +5 to listen, -5 to transmit.  Reverse these
> > during approach).

If aft is favored it might explain why signals have only rarely been
heard on this mission.  The spacecraft rarely flies belly down and nose
foreward on orbit.  Quite often it is nose down, which would point the
aft-favoring antenna into deep space.

Suggest checking NASA TV where possible for updates on spacecraft
attitude.  Quite often they show spacecraft attitude over the positional
map of the globe.  With an aft favored antenna, nose straight up would be
the ideal position for SAREX.

73,
Gary WB2WPA
___________________________________________
Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I'm writing an unauthorized autobiography."
           -- Steven Wright, perpipheral visionary
```

---

20. Repeat

```
From: w6dnt@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Mon, 01 Jul 96 10:38:17 GMT
To: aprssig%tapr.org@w6dnt.ampr.org, alChan%aol.com@w6dnt.ampr.org,
        al.chan%toadhall.com@w6dnt.ampr.org,
        alchan%ix.netcom.com@w6dnt.ampr.org
Message-ID: <294@w6dnt.ampr.org>
Rendered body type: text/plain
```

```
What causes an old message on this forum to be repeated after an
elapse time of 22 days?

-al.
```

---

21. Re: [APRSSIG:2609] RE: Doppler on SAREX

```
From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 01 Jul 1996 12:56:05 -0700
To: aprssig@tapr.org
Message-ID: <31D82D55.E96@worldnet.att.net>
Rendered body type: text/plain
```

```
Gary Arnold wrote:
>
> If aft is favored it might explain why signals have only rarely been
> heard on this mission.  The spacecraft rarely flies belly down and nose
> foreward on orbit.  Quite often it is nose down, which would point the
> aft-favoring antenna into deep space.
>
> Suggest checking NASA TV where possible for updates on spacecraft
> attitude.  Quite often they show spacecraft attitude over the positional
> map of the globe.  With an aft favored antenna, nose straight up would be
> the ideal position for SAREX.
>
> 73,
> Gary WB2WPA
```

Well Gary i looked this morning and it was tail down pointing right at us. Maybe
that's why the last couple of voice passes have been pretty good..
--
Bill WA8INZ Former (KE4EER)
ke4eer@worldnet.att.net
ke4eer@amsat.org

22. Re: [APRSSIG:2606] Re: Aligator

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 01 Jul 1996 12:59:34 -0700
To: aprssig@tapr.org
Message-ID: <31D82E26.6D69@worldnet.att.net>
Rendered body type: text/plain

```
jim kerns wrote:
>
> >* break * *break * *break* the war "air" around here.
> >
> >I'm sure the Florida APRS users ploted the ValuJet crash.....
> >well, did you here the two aligators talking?
> >
> >What did one Florida aligator said to the other?
> >
> >"This airline food aint so bad is it?????"
> >
> >
> >Sorry, about take up the "bandwidth" but it sure beats wars!
> >--
> >KC5JGV
> >Marshall, Arkansas
> >
> >
> >I CERTINALLY HOPE NONE OF OUR READERS HAD FAMILY ON THE VALUE JET THAT
> CRASHED.  (POOR TASTE FOR OPEN CHANNEL TO READ !!!!
>   Jim in Tn.

And i also second that. BAD BAD TASTE!!!
--
Bill WA8INZ Former (KE4EER)
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

23. WINAprs v110 posted

From: "Warren Walker" <wmwalker@village.yvv.com>
Date: Mon, 1 Jul 1996 14:39:31 -0400
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199607011837.OAA24008@yvv.com>
Rendered body type: text/plain

Looks like WINAprs version 110 has been posted on aprs.rutgers.edu/APRS/
(FTP)

24. SAREX 7/1

From: Doug_Wetzel@acs.uswest.com
Date: Mon, 1 Jul 1996 10:13:54 -0500
To: aprssig@tapr.org
Message-ID: <1d81d590@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Again, heard packets on the 1423Z orbit this morning, but after four or five,
voice comm came up working several stations in the west. Packet levels were not
strong enough to decode at AOS, but the voice carrier was full quieting at max
el. Still APRSing for the next pass...

73
Doug
KC7CO
DN40BM
Salt Lake City

25. Re: [APRSSIG:2613] WINAprs v110 posted

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 01 Jul 1996 16:22:54 -0700
To: aprssig@tapr.org
Message-ID: <31D85DCE.5986@concentric.net>
Rendered body type: text/plain

```
Warren Walker wrote:
>
> Looks like WINAprs version 110 has been posted on aprs.rutgers.edu/APRS/
> (FTP)

No response from server! hmmm...I thought there FTP was down.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

26. Re: [APRSSIG:2613] WINAprs v110 posted

From: bob <w2g3zfj@unix.asb.com>
Date: Mon, 1 Jul 1996 16:54:02 -0400
To: aprssig@tapr.org
Message-ID: <199607012054.QAA23238@unix.asb.com>
Rendered body type: text/plain

```
Hi There


I can't seem to find this URL, is it correct? The old one (which still has
winaprs beta) was www-ns.rutgers.edu/pub/hamradio/aprs/.

Any chance of someone putting winaprs110.zip on TAPR?

Thanks

bob w2/g3zfj
w2g3zfj@unix.asb.com
www.asb.com/usr/w2g3zfj/aprs1.htm


At 13:52 01/07/96 -0500, you wrote:
>Looks like WINAprs version 110 has been posted on aprs.rutgers.edu/APRS/
>(FTP)
>
>
>
>
```

---

27. Re: [APRSSIG:2614] SAREX 7/1

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 01 Jul 1996 15:47:43 -0700
To: aprssig@tapr.org
Message-ID: <31D8558F.1561@worldnet.att.net>
Rendered body type: text/plain

```
Doug_Wetzel@acs.uswest.com wrote:
>
> Again, heard packets on the 1423Z orbit this morning, but after four or five,
> voice comm came up working several stations in the west.  Packet levels were not
> strong enough to decode at AOS, but the voice carrier was full quieting at max
> el.  Still APRSing for the next pass...
>
> 73
> Doug
> KC7CO
> DN40BM
> Salt Lake City

Doug are you sure you heard packet. The first two passes this morning where voice!
the 3th pass was nothing at all. I didn't stick around for the nest two.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

28. MFJ Data Radio & KPC3

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 01 Jul 96 17:00:42 EDT
To: aprssig@tapr.org
Message-ID: <199607012100.VAA13864@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
I stupidly attempted to connect an MFJ-8621 data radio
to a Kantronics KPC-3.  Forget it!  The MFJ radio
has no squelch and the KPC-3 has a dumb "energy present"
carrier detector.  The no-signal white noise from the
data radio keeps the KPC-3 carrier detector ON all the time.

I suppose I should have tested them together *before*
I spent $30 for the GPS eprom from Kantronics.

Too bad. They would have made a nice pair... unless
someone has a fix for this?



--------------------------------------------------
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp:  The only x86 operating system that
is more stable than most people who use it.
```

---

29. Re: [APRSSIG:2615] Re: WINAprs v110 posted

From: Mark Sproul <sproul@ap.org>
Date: Mon, 1 Jul 1996 17:09:24 -0400
To: aprssig@tapr.org
Message-ID: <v03007600adfdeeea8930@[165.1.27.20]>
Rendered body type: text/plain

```
>Warren Walker wrote:
>>
>> Looks like WINAprs version 110 has been posted on aprs.rutgers.edu/APRS/
>> (FTP)
>
>No response from server! hmmm...I thought there FTP was down.
>


Version 1.1.0 is now up on TAPR in case you are having problems getting
into RUTGERS


Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

30. Re: [APRSSIG:2616] Re: WINAprs v110 posted

From: Mark Sproul <sproul@ap.org>
Date: Mon, 1 Jul 1996 17:15:41 -0400
To: aprssig@tapr.org
Message-ID: <v03007601adfdf012cee1@[165.1.27.20]>
Rendered body type: text/plain

```
>Hi There
>
>
>I can't seem to find this URL, is it correct? The old one (which still has
>winaprs beta) was www-ns.rutgers.edu/pub/hamradio/aprs/.
>
>Any chance of someone putting winaprs110.zip on TAPR?


Its up there NOW,  the CORRECT URL is http://aprs.rutgers.edu/



Mark
```

```
_____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

31. [APRSSIG:2615] Re: WINAprs v110 posted -Reply

From: Bruce Leonard <bleonard@mail.phbtsus.com>
Date: Mon, 01 Jul 1996 15:21:27 -0600
To: aprssig@tapr.org
Message-ID: <s1d7ed09.062@mail.phbtsus.com>
Rendered body type: text/plain

```
I too tried the FTP site with no success...

73
kj7hz
Bruce Leonard
```

32. Re: [APRSSIG:2616] Re: WINAprs v110 posted

From: sparks@communique.net (Jan R. Edwards)
Date: Mon, 1 Jul 1996 16:55:30 -0500
To: aprssig@tapr.org
Message-ID: <v01530500adfdf96e25e4@[204.27.122.187]>
Rendered body type: text/plain

```
>Hi There
>
>
>I can't seem to find this URL, is it correct? The old one (which still has
>winaprs beta) was www-ns.rutgers.edu/pub/hamradio/aprs/.
>
>Any chance of someone putting winaprs110.zip on TAPR?
>
>Thanks
>
>bob w2/g3zfj
>w2g3zfj@unix.asb.com
>www.asb.com/usr/w2g3zfj/aprs1.htm

Bob,

This is the correct URL:

ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/

73
Jan Edwards WB5TKC
sparks@communique.net
```

33. re: WinAPRS v 1.1.0 Is on TAPR

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 1 Jul 96 18:00:57 EDT
To: aprssig@tapr.org
Cc: w2g3zfj@unix.asb.com
Message-ID: <CMM-RU.1.4.836258457.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>Any chance of someone putting winaprs110.zip on TAPR?


We put WinAPRS 1.1.0 up on TAPR this afternoon..

It is in

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/



Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

34. Re: [APRSSIG:2613] WINAprs v110 posted

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 1 Jul 1996 17:07:40 -0500
To: aprssig@tapr.org
Message-ID: <199607012207.RAA12437@tbc1.tbcnet.com>
Rendered body type: text/plain

```
At 13:52 7/1/96 -0500, you wrote:
>Looks like WINAprs version 110 has been posted on aprs.rutgers.edu/APRS/
>(FTP)
>
>

it's here...
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/

jbl
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

---

35. Re: [APRSSIG:2618] MFJ Data Radio & KPC3

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 1 Jul 1996 17:12:12 -0500
To: aprssig@tapr.org
Message-ID: <199607012212.RAA12519@tbc1.tbcnet.com>
Rendered body type: text/plain

```
I thot the command published in the manual
CD software
put the tnc into a quasi-DCD mode.

Or at least it did on mine.  I was able to operate it w/o squelch on 2 radios.

jbl


At 16:02 7/1/96 -0500, you wrote:
>I stupidly attempted to connect an MFJ-8621 data radio
>to a Kantronics KPC-3.  Forget it!  The MFJ radio
>has no squelch and the KPC-3 has a dumb "energy present"
>carrier detector.  The no-signal white noise from the
>data radio keeps the KPC-3 carrier detector ON all the time.
>
>I suppose I should have tested them together *before*
>I spent $30 for the GPS eprom from Kantronics.
>
>Too bad. They would have made a nice pair... unless
>someone has a fix for this?
>
>
>
>--------------------------------------------------
>Dale Heatherington, WA4DSY
>e-mail - wa4dsy@wa4dsy.radio.org
>Web page - http://www.wa4dsy.radio.org
>Running OS/2 Warp:  The only x86 operating system that
>is more stable than most people who use it.
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

---

36. Re: [APRSSIG:2612] Re: Aligator

From: KD4EMI@aol.com
Date: Mon, 1 Jul 1996 18:15:11 -0400
To: aprssig@tapr.org
Message-ID: <960701181511_345635938@emout19.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-07-01 14:55:49 EDT, you write:

>
>jim kerns wrote:
>>
```

>> >* break * *break * *break* the war "air" around here.
>> >
>> >I'm sure the Florida APRS users ploted the ValuJet crash.....
>> >well, did you here the two aligators talking?
>> >

Really !!
Ive really pissed off some people in my life (ask any HAM in South Florida)
but a joke like that on an open forum is not too smart....
Especially since my friend was flying out that day on VALUE JET and it took
me about 3 hours to find out she was not on that flight. Man was I
worried...
BTW, no one did plot the location of the crash. I havent seen it on the map
here since it happened....
We did getr lots of msgs and plots of the brothers to the rescue shoot down,
and I have logs of various airplanes of them flying around down there...
Mike
KD4EMI@AOL.COM

---

37. HELP WITH TNC CODE

From: KD4EMI@aol.com
Date: Mon, 1 Jul 1996 18:15:09 -0400
To: aprssig@tapr.org
Message-ID: <960701181508_345635997@emout09.mail.aol.com>
Rendered body type: text/plain

I got to thinking..Ive got the BASIC stamp thing kinda worked out but
thought about TNC EPROMS..

What does the code look like in those things...?

Ive seen other EPROMS with TAPR stuff, or other code used in certain TNC'S...
Is this hard to learn ? What is it...? Can I use it to reprogram a TNC and
burn my own code ?

Can you send some examples of TNC code ?
Why dont we write some code to add some accesory functions, then just sell
reprogrammed EMPROMS for cheap ??

Any help would be apprec..
Mike
KD4EMI@AOL.COM

---

38. Re: [APRSSIG:2618] MFJ Data Radio & KPC3

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 1 Jul 1996 17:15:59 -0500
To: aprssig@tapr.org
Message-ID: <199607012215.RAA12624@tbc1.tbcnet.com>
Rendered body type: text/plain

Dale,
Try these commands:

interface terminal

and

cd software

Out of the box, the kpc3 won't work with aprs or a non-squelch radio.

There are some changes you haveta make.

jbl

At 16:02 7/1/96 -0500, you wrote:
>I stupidly attempted to connect an MFJ-8621 data radio
>to a Kantronics KPC-3. Forget it! The MFJ radio
>has no squelch and the KPC-3 has a dumb "energy present"
>carrier detector. The no-signal white noise from the
>data radio keeps the KPC-3 carrier detector ON all the time.
>
>I suppose I should have tested them together *before*
>I spent $30 for the GPS eprom from Kantronics.
>
>Too bad. They would have made a nice pair... unless
>someone has a fix for this?
>

>
>
>--
>Dale Heatherington, WA4DSY
>e-mail - wa4dsy@wa4dsy.radio.org
>Web page - http://www.wa4dsy.radio.org
>Running OS/2 Warp: The only x86 operating system that
>is more stable than most people who use it.
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

39. RE: [APRSSIG:2618] MFJ Data Radio & KPC3

From: Ley-QSTO04 John <jley@commerce.wes.mot.com>
Date: Mon, 01 Jul 96 17:19:00 PDT
To: aprssig <aprssig@tapr.org>
Message-ID: <31D86A0B@pcgateway2.wes.mot.com>
Rendered body type: text/plain

I am using a MFJ 8621 and KPC-3 - they work very well together, PROVIDED that you set carrier detect to SOFTWARE(default is INTERNAL). Once done, the combo is fine.

John Ley
KB9LPX

"Someday, I'll get the hinge of all this..."

From: aprssig[SMTP:aprssig@tapr.org]
Sent: Monday, July 01, 1996 16:02
To: aprssig
Subject: [APRSSIG:2618] MFJ Data Radio & KPC3

I stupidly attempted to connect an MFJ-8621 data radio to a Kantronics KPC-3. Forget it! The MFJ radio has no squelch and the KPC-3 has a dumb "energy present" carrier detector. The no-signal white noise from the data radio keeps the KPC-3 carrier detector ON all the time.

I suppose I should have tested them together *before* I spent $30 for the GPS eprom from Kantronics.

Too bad. They would have made a nice pair... unless someone has a fix for this?

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp: The only x86 operating system that
is more stable than most people who use it.

40. Re: [APRSSIG:2554] SAREX QSL #'s

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 01 Jul 1996 18:23:21
To: APRSSIG@tapr.org
Message-ID: <199607012223.SAA26965@mail-e2b-service.gnn.com>
Rendered body type: text/plain

On Sat, 29 Jun 1996 Bob Bruninga wrote:

>...4) Not enough APRS stations trying???? (How can we prove or
>disprove this?)...

I dunno if this qualifies as proof, but I usually see many more APRS stations on my screen than I have this past week. I wonder if all these have moved (temporarily, of course) to the SAREX frequency pair.

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)

```
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Set coordinates 2-7-1, Chewbacca...
```

---

41. Re: [APRSSIG:2628] Re: MFJ Data Radio & KPC3

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 01 Jul 96 18:34:12 EDT
To: aprssig@tapr.org
Message-ID: <199607012234.WAA41118@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Mon, 1 Jul 1996 17:21:18 -0500 (CDT) you wrote:

>Dale,
>Try these commands:
>
>interface terminal
>
>and
>
>cd software
>
>Out of the box, the kpc3 won't work with aprs or a non-squelch radio.
>
>There are some changes you haveta make.
>
>jbl
>

*** It works!  Thanks for the tip.  ***

Gotta love this mail list!




Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.
```

---

42. Re: [APRSSIG:2618] MFJ Data Radio & KPC3

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 1 Jul 1996 18:58:16 -0000
To: aprssig@tapr.org
Message-ID: <199607012258.RAA22185@tapr.org>
Rendered body type: text/plain

```
On  1 Jul 96 at 16:02, Dale Heatherington wrote:

> I stupidly attempted to connect an MFJ-8621 data radio
> to a Kantronics KPC-3.  Forget it!  The MFJ radio
> has no squelch and the KPC-3 has a dumb "energy present"
> carrier detector.  The no-signal white noise from the
> data radio keeps the KPC-3 carrier detector ON all the time.
>
> I suppose I should have tested them together *before*
> I spent $30 for the GPS eprom from Kantronics.
>
> Too bad. They would have made a nice pair... unless
> someone has a fix for this?


at the command prompt enter the following:

int terminal
cd software

That will fix it.

Sam
```

---

43. Re: [APRSSIG:2618] MFJ Data Radio & KPC3

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 1 Jul 1996 18:07:33 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB6778.3C358EE0@lub21.onramp.net>

Rendered body type: text/plain

```
Dale, all you have to do is set CD SOFTWARE on the KPC-3.

Larry Griffin - AB5GE

----------
From: 	Dale Heatherington[SMTP:wa4dsy@wa4dsy.radio.org]
Subject: 	[APRSSIG:2618] MFJ Data Radio & KPC3

I stupidly attempted to connect an MFJ-8621 data radio
to a Kantronics KPC-3.  Forget it!  The MFJ radio
has no squelch and the KPC-3 has a dumb "energy present"
carrier detector.  The no-signal white noise from the
data radio keeps the KPC-3 carrier detector ON all the time.

... unless someone has a fix for this?
```

44. Re: [APRSSIG:2626] Re: Aligator

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 1 Jul 96 19:24:13 -0400
To: <aprssig@tapr.org>
Message-ID: <199607012321.TAA01339@bridge.net>
Rendered body type: text/plain

```
>BTW, no one did plot the location of the crash. I havent seen it on the map
>here since it happened....

Not true. Someone (I think N2CZF, if not forgive me) did plot it when it
first happened. I woke up (I work nights) and flipped on the computer
screen to see what was on APRS, saw the posit and then turned on the TV
to see what had happened. APRS, a great way to keep informed of current
events!

Steve, KO4HD
```

45. Re: [APRSSIG:2626] Re: Aligator

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 01 Jul 96 19:40:28 EDT
To: aprssig@tapr.org
Message-ID: <199607012340.XAA80060@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Mon, 1 Jul 1996 17:20:22 -0500 (CDT) you wrote:

>In a message dated 96-07-01 14:55:49 EDT, you write:
>
>>
>>jim kerns wrote:
>>>
>>> >* break * *break * *break* the war "air" around here.
>>> >
>>> >I'm sure the Florida APRS users ploted the ValuJet crash.....
>>> >well, did you here the two aligators talking?
>>> >
>
>Really !!
>Ive really pissed off some people in my life (ask any HAM in South Florida)
> but a joke like that on an open forum is not too smart....

Funny thing, the human mind.  If you read the joke literally there
is absolutly nothing to be upset about.  Gators dining on the contents
of scattered airline food trays in a swamp isn't too disgusting (although
the airline food *is*).   Some readers of the joke created a morbid
image in their own mind about what was meant by the term "airline food"
and cried "bad taste" .   Well, I agree. Airline food does taste bad. ;-)

Now, if those who created this morbid image in their own minds
had simply remained quiet on the side lines instead of generating
a reply which *QUOTED THE (alleged) OFFENSIVE JOKE* this thread would
be dead by now.
```

46. winAPRS 1.1 Airports?

From: Kent V Hufford <khufford@erols.com>
Date: Mon, 01 Jul 1996 21:16:29 -0400
To: aprssig@tapr.org
Message-ID: <199607020116.VAA19506@smtp1.erols.com>
Rendered body type: text/plain

I just downloaded waprs110.zip, unziped it, got it working.

Still no support for HSP... coming..

Does address the correct VHF port when you open the converse mode.

Tried running the airports list. NO list. Did I miss something?

Still NO help file inside winAPRS.

Does is support the dfJR correctly yet? ... to include the dual port adaptor? HSP?

thanks,

Kent

KQ4KK

---

47. APRS Sarex Report (9)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 1 Jul 1996 22:16:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960701221540.6581C-100000@arctic>
Rendered body type: text/plain

Random (not shcools) SAREX activity is still tracking about 60% of USA passes and has been active every day for 12 days except for the 22nd.   There have been 15 voice passes and 16 packet robot passes so far. There have been 19 passes with no activity (not counting the 5 on 22nd), but many of these could be SCHOOL passes.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass (Any reports of activity?)
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z QSO#586. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#672. KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30  0720  1120z QSO#729.
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
```

Still need someone who saw WB6LLO and KB0UZQ APRS packets.
I still have three passes unaccounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass.

de wb4apr@amsat.org

48. Re: [APRSSIG:2618] MFJ Data Radio & KPC3

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 1 Jul 1996 22:18:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960701221819.6581D-100000@arctic>
Rendered body type: text/plain

On Mon, 1 Jul 1996, Dale Heatherington wrote:

> I stupidly attempted to connect an MFJ-8621 data radio
> to a Kantronics KPC-3. Forget it! The MFJ radio
> has no squelch and the KPC-3 has a dumb "energy present"
> carrier detector. The no-signal white noise from the
> data radio keeps the KPC-3 carrier detector ON all the time.

APRSdos REPLY COMMENT: SImply set CD SOFTWARE and it will work perfectly

de wb4apr@amsat.org

49. Re: [APRSSIG:2599] SAREX

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 1 Jul 1996 23:10:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960701230857.10798E-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 1 Jul 1996, Doug Wetzel wrote:

> 145.555/144.485 approaching and 145.455/144.495 receding, right?

This is confusing....is this correct information? And, If we must leave our station unattended, what is suggested?

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

50. Re: [APRSSIG:2595] Re: Maridian XL

From: dkaszubski@why.net (dkaszubski)
Date: Mon, 01 Jul 1996 22:20:47 -0700
To: aprssig@tapr.org
Message-ID: <31D8B1AF.3DC1@why.net>
Rendered body type: text/plain

Rick O'Hearn wrote:
>
> Hi all,
>   I have my eye on a Meridian XL for $289.... Wondering if anyone
> has any opinions about how well it will interface with aprs and if
> anyone has checked it out as far as how well it tracks.
>
> Thanks all,
> rick_o@jericho.com
> Rick O'Hearn
> KF4CDO
> 36'46"N76'06"W
> At first glance, the Meridian XL seems to be a better buy until you try to use it as a handheld GPS receiver. I originally purchased one from West Marine in Dallas after the sales pitch and used it on the way home in my truck. The receiver works well, aquiring initial lock in about 10 minutes out of the box. A Garmin took almost 20 minutes in the same parking lot. Set-up is easy with the menus and scroll buttons. Output is NMEA standard and can be configured for 9600 baud. No problems were encountered interfacing to my KPC-3 for standalone tracker. Not until later did I notice the rapid battery consumption.
6 hours with fresh alkalines was the max, forget ni-cads! Sure, you could use the supplied power/data cable in a vehicle, it works very well and is routed out the side of the case, unlike the rear blob mount on a Garmin 45. Also, on the road I noticed a lag in my displayed location and speed, up to several minutes and miles per hour. External amplified antennas provided no help. The single biggest drawback is the display.

```
Large numbers and configurable display but poor contrast and lighting,
even with adjustments.  You must also look straight at it due to
distortion caused by the curved faceplate.  Side by side comparison with
a Garmin 45 told me I had made the wrong choice.  Good thing WEST has a
no-questions asked return policy for 30 days.  The Garmin is a much
better unit in my opinion, even though it doesn't include the power/data
cable.  You get what you pay for in this case.

btw:  My first Garmin 45 was not without it's share of problems!  The
internal regulator was bad since running it on 12 volts caused it to get
very hot and blew up one set of internal batteries!  The second one
continues to work very well, even the display doesn't go black sitting in
the car in the hot Texas sun.  THE Magellan always required a long cool
down period before I could see anything.

Just my opinion, there is no comparison!

> > > >> Just to let everyone know... this weekend on, Garmin GPS 45's for sale
> > > >> for $240 at boat US... $230 if you are a member and got the flyer in the mail

Wish they would have done this a few months ago!  Still no regrets...

Dave Kaszubski  WB3FYV
also:  ustuia6v@ibmmail.com
Benbrook, Texas
N 32 40.319'   W 097 26.844'

President of the Texas Utilities Amateur Radio Club,
Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
```

---

51. Re: [APRSSIG:2603] Re: Repeater locations

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 1 Jul 1996 23:32:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960701232834.10798H-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 1 Jul 1996, Ryan Tucker wrote:

(snip)
> No problem.  I think it brought up a very valid topic -- since APRS is quite
> exact, and it's the least expensive tool of its kind, it has great potential
> for stuff like that.

"quite exact" ..... No I don't think so.

GPS is quite exact (debatable) but GPS is *not* APRS.
If APRS is quite exact, why does Bob warn us on the intro screen
NOT TO BE USED FOR NAVAGATION?

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

52. Re: [APRSSIG:2607] Re: Repeater locations

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 1 Jul 1996 23:41:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960701233939.10798J-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 1 Jul 1996, Bob Bruninga wrote:

>
> APRSdos REPLY COMMENT: I though I posted a response that announced the
> next version of APRS *CAN* maintain position ambiguity.  Just use the
> "SPACE" character instead of a numeral in the APRS posit format.  Then
> APRS will NOT display the object below a certain display scale:
>
>    3958.11N    Exact location
>    3958.1 N    Will not display below 8 miles
>    3958   N    Will not display below 128 miles.
>    39     N    Will not display below 512 miles.

Ok, but what will *older* versions do when they see this? Not *everyone*
jumps on the latest version as soon as it is released.

Richard Amirault              N1JDU           Boston, Massachusetts USA
```

```
amirault@tiac.net        "Go Fly A Kite"
```

---

53. Re: [APRSSIG:2637] APRS Sarex Report (9)

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 01 Jul 1996 23:31:14 -0700
To: aprssig@tapr.org
Message-ID: <31D8C232.7157@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Random (not shcools) SAREX activity is still tracking about 60%
> of USA passes and has been active every day for 12 days except for the
> 22nd.    There have been 15 voice passes and 16 packet robot passes so far.
> There have been 19 passes with no activity (not counting the 5 on 22nd),
> but many of these could be SCHOOL passes.
>
> DAY EDT   ZULU  COMMENTS
> --------  ----- -------------
> 30  0545  0945z QSO#672. KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
>
> de wb4apr@amsat.org

Well i didn't even know i finally made it the RIGHT way Hi Hi.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

54. Re: [APRSSIG:2641] Re: Repeater locations

From: Ryan Tucker <rtucker@moocow1.ttgcitn.com>
Date: Mon, 1 Jul 1996 23:38:30 -0500
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199607020438.XAA07187@crasher2.ttgcitn.com>
Rendered body type: text/plain

```
At 10:46 PM 7/1/96 -0500, Richard Amirault wrote:
>"quite exact" ..... No I don't think so.
>
>GPS is quite exact (debatable) but GPS is *not* APRS.

It's a quite exact interface to GPS.

>If APRS is quite exact, why does Bob warn us on the intro screen
>NOT TO BE USED FOR NAVAGATION?

It reserves the right to be not quite exact without warning.  Also, it's
probably to release Bob from legal liability should someone navigate
themselves off of a missing bridge using APRS.  Oh well... now accepting
nominations for the 1997 Darwin Award.  -rt

--
#!/usr/bin/perl
# Ryan Tucker <rtucker@ttgcitn.com> - President, TTGCITN Communications
# A famous Canadian is concerned for my mental well-being.  Why?
print "You will be Enlightened.";exec("lynx http://www.ttgcitn.com");
```

---

55. Re: [APRSSIG:2636] winAPRS 1.1 Airports?

From: steve <steve@muskoka.com>
Date: Tue, 02 Jul 1996 01:06:35 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960702050635.00665478@muskoka.com>
Rendered body type: text/plain

```
At 20:28 7/1/96 -0500, you wrote:
>        I just downloaded waprs110.zip, unziped it, got it working.
>
>        Still no support for HSP... coming..
>
>        Does address the correct VHF port when you open the converse mode.
>
>        Tried running the airports list.  NO list. Did I miss something?
>
>        Still NO help file inside winAPRS.
>
>        Does is support the dfJR correctly yet? ... to include the dual port
>adaptor? HSP?
```

```
>
>thanks,
>
>Kent
>
>KQ4KK
>
>
Hello everyone,

As Kent has mentioned I too found the same thing when I unzipped the
Waprs110.zip.
However it just came to me that when I unzipped the new waprs I forgot to
put in the -d switch to create a directory. In there you will find the
labels directory. I assume that the airport list will follow. Once you load
the new waprs bring up the N.J map and you will see all of the exits marked
along the turnpike...

I will have to send Mark a note now if he does not see this , and appologize
for not taking the time to think..

Chow............
Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS
Int: steve@muskoka.com
```

56. Re: [APRSSIG:2639] Re: SAREX

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 2 Jul 1996 00:47:15 -0500
To: aprssig@tapr.org
Message-ID: <v02130502adfe646e4736@[199.1.11.110]>
Rendered body type: text/plain

```
>On Mon, 1 Jul 1996, Doug Wetzel wrote:
>
>> 145.555/144.485 approaching and 145.455/144.495 receding, right?
>
>This is confusing....is this correct information? And, If we must leave our
>station unattended, what is suggested?
>
>Richard Amirault              N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"

If you are confused then take a walk to the nearest train tracks
and listen as a train passes.**  This works better than talking about
the "Red Shift"

For a Unattended stations generally better to just leave a midpoint
145.55 and 144.490

BUT this flight due to the Micro-gravity lab, the shuttle is not in the
usually attitude and people have reported the the signal level is better
after the shuttle passes . So xmit on 144,493,500 Hz.

The shuttle antenna is not like the MIR external antenna but is a loop type
placed in a window to earth side (Velcro or duct tape I guess).

-- Gerald  Creager can jump in here now as that's all I know about it ---


73

PS ** Don't stand ON the tracks  :-)




Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

57. STS-78 Element Set: 180

From: "Arthur J. Martin" <amartin@world2u.com>
Date: Tue, 2 Jul 1996 02:15:26 -0400 (EDT)
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <199607020615.CAA25597@ants3.world2u.com>
Rendered body type: text/plain

I haven't seen an orbital update recently, but it is attached. Please let me know if anyone has difficulties processing the attachment. If so, I'll try to get it into the body of the message.

73 de Art
=========
[Attachment: SHUTTLE.HTM; text/plain; 3,989 bytes]

---

58. DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 02 Jul 1996 02:17:30 -0700
To: aprssig@tapr.org
Message-ID: <31D8E92A.7425@worldnet.att.net>
Rendered body type: text/plain

For those of you who either own or are planning to buy a DFjr, I have uploaded two files called dfjr.zip and dfjr.txt to tapr in the upload directory. this is two PCX files of the front and back of a quick reference card that i made for my sunvisor in my pickup. Joe has one included in his DFjr package but it's so small i couldn't read it. If those of you who cannot print or resize a PCX file let me know and i can do other formats also.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

59. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Tue, 02 Jul 1996 06:18:16 -0600
To: aprssig@tapr.org
Message-ID: <31D91388.41A1@slkc.uswest.net>
Rendered body type: text/plain

> 145.555/144.485 approaching and 145.455/144.495 receding, right?

Sorry folks, I fat fingered this -

145.555/144.485 at acquisition and approach
145.550/144.490 at pass midpoint
145.545/144.495 until los

If you are lucky enough to have a discriminator meter in your rx, you can watch the doppler happen - just remember that the downlink starts above center and moves down in frequency during the pass, the uplink starts below center and moves up.

Doug
KC7CO
Radio Free Utah

---

60. Airport List

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 2 Jul 96 8:19:19 EDT
To: aprssig@tapr.org, steve@muskoka.com
Message-ID: <CMM-RU.1.4.836309959.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

If you have the CD of maps, there is a file on there called AIRPORT.DAT.

If this file is in the DATA folder, the AIRPORT LIST will work.

This is a feature that has been in MacAPRS since version 1.0, and turns out to be VERY useful. There are also a lot of things, (Both currently implemented, and things to come) that depend on this data base.

(If you don't have the CD, we will be putting the file up on TAPR soon).

Keith Sproul

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

61. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Tue, 02 Jul 1996 06:48:15 -0600
To: aprssig@tapr.org
Message-ID: <31D91A8F.34C1@slkc.uswest.net>
Rendered body type: text/plain

021242Z Pass in Salt Lake City
No packets, no voice heard from Columbia

Doug
KC7CO

---

62. Re: [APRSSIG:2642] Re: Repeater locations

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jul 1996 09:17:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960702091400.25275D-100000@arctic>
Rendered body type: text/plain

On Mon, 1 Jul 1996, Richard Amirault wrote:

```
> > APRSdos COMMENT:  next version of APRS can maintain position ambiguity.
> >  Just use the  "SPACE" character  in the APRS posit format.  Then
> > APRS will NOT display the object below a certain display scale:
> >
> >    3958.1 N    Will not display below 8 miles
> >    3958   N    Will not display below 128 miles.
> >    39     N    Will not display below 512 miles.
>
> Ok, but what will *older* versions do when they see this?
```

APRSdos REPLY COMMENT: They will plot it at exactly the location assuming
00's where the spaces are. These exact locations will NOT be where the
object is unless the object is actually at 00.

de wb4apr@amsat.org

---

63. Re: [APRSSIG:2618] MFJ Data Radio & KPC3

From: AC6JA@aol.com
Date: Tue, 2 Jul 1996 09:21:32 -0400
To: aprssig@tapr.org
Message-ID: <960702092130_229463503@emout18.mail.aol.com>
Rendered body type: text/plain

you can switch the kpc-3 to use data carrier detect by changing the cd
command from the default of "internal" to "software". that's all there is to
it! now the kpc-3 can be attached to an open squelched rig and will only
respond to digital signals, a much better way to go anyways.
good luck!

---

64. Re: [APRSSIG:2637] APRS Sarex Report (9)

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 02 Jul 1996 09:32:41 -0400
To: aprssig@tapr.org
Message-ID: <31D924F9.5F19@cyberenet.net>
Rendered body type: text/plain

APR wrote:

```
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
```

=== snip ===

I too heard strong voice transmissions on the 0720 pass, but was not able
to make contact. Should have jotted down the calls of those who did I guess
for verification but didn't think of it at the time.

On the 0850 pass I also heard a couple of packet bursts and thought this
was my chance but after those opening packets, nothing heard.

I didn't listen to the later passes 'cause I was asleep (work nights).

Hoping for more activity this week, sure would be nice if they would
announce the uplink freq. they are listening on as they fly by, all it

takes is "W5RRR listening 95", what's so hard about that?

73...Bob

NNNN

---

65. Re: [APRSSIG:2636] winAPRS 1.1 Airports?

From: Mark Sproul <sproul@ap.org>
Date: Tue, 2 Jul 1996 09:31:52 -0400
To: aprssig@tapr.org
Message-ID: <v03007601adfed51cc7cb@[165.1.27.20]>
Rendered body type: text/plain

```
>        I just downloaded waprs110.zip, unziped it, got it working.
>
>        Still no support for HSP... coming..
>
>        Does address the correct VHF port when you open the converse mode.
>
>        Tried running the airports list.  NO list. Did I miss something?
>
>        Still NO help file inside winAPRS.
>
>        Does is support the dfJR correctly yet? ... to include the dual port
>adaptor? HSP?
>
>thanks,
>
>Kent
>
>KQ4KK

You need to have the AIRPORT.DAT file in a directory called DATA, the file
is on our CD-ROM and up on the FTP sites (I think)


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

66. Air port list for WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Tue, 2 Jul 1996 09:40:21 -0400
To: aprssig@tapr.org
Message-ID: <v03007602adfed6e031fc@[165.1.27.20]>
Rendered body type: text/plain

```
Sorry, I forgot to include the airport data file.


It is now posted on both rutugers and TAPR

Instructions

Download the file

create a directory called DATA, place the AIRPORT.DAT file in that
directory and try DISPLAY AIRPORTS and AIRPORT list.


Refer to the web page documentation for the WINDS ALOFT information.


Have fun

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
```

____

67. Re: [APRSSIG:2532] Signal level from Shuttle?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 2 Jul 1996 08:59:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607021359.IAA14728@solar.cs.tamu.edu>
Rendered body type: text/plain

On this mission, the Shuttle's radio is a Motorola HT (MX-300) detuned for EMI/RFI considerations to 2.5 watts. The antenna i a cavity resonator in one of the forward windows, with a pattern that approximates a 1/4 wave groundplane. Mir uses an external 1/4 wave groundplane, and a 10 or 25 watt radio (I'm not sure which radio's primary right now...)

Of these considerations, by far and away the most significant is the antenna orientation and masking. When the Shuttle's antenna favors you, it's full quieting on a handheld. When the Shuttle's antenna is blocked from you, it's pretty slim pickin's.

73, Gerry

---

68. STS-78 element set JSC-912 (29-Jun-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 2 Jul 1996 09:10:23 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607021410.JAA14989@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> Date: Sat, 29 Jun 1996 19:05:41 -0500
> Subject: STS-78 element set JSC-912 (29-Jun-96)
>
>
>
> STS-78
> 1 23931U 96036A   96181.96411433  .00105182  00000-0  16973-3 0  9129
> 2 23931  39.0113 307.3007 0005684 333.0653  27.0064 16.02876374  1513
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96181.96411433    =    (29-Jun-96   23:08:19.47 UTC)
> Element set:     912
> Inclination:       39.0113 deg
> RA of node:       307.3007 deg            Space Shuttle Flight STS-78
> Eccentricity:     .0005684               Keplerian element set JSC-912
> Arg of perigee:   333.0653 deg           from NASA flight Day 10 vector
> Mean anomaly:      27.0064 deg
> Mean motion:   16.02876374 rev/day                Gil Carman
> Decay rate:    1.05182e-03 rev/day^2       NASA Johnson Space Center
> Epoch rev:             151
> Checksum:              278
>
>
> Gil Carman
>
>
>
```

```
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
*******************************************************************************
```

---

69. Texas Maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 2 Jul 1996 09:14:55 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607021414.JAA15058@solar.cs.tamu.edu>
Rendered body type: text/plain

Finally!

I've got an anonymous FTP site available for APRS activities, but primarily for Texas Map Updates.

ftp://dillo.tamu.edu/APRS

```
Anyone with updates to Texas maps, please post 'em to upload, and send me mail
about it (n5jxs@tamu.edu) so I can check 'em and place them appropriately in
the archive.  Anyone wanting the stuff I've done so far, go for it. Mostly
updates to the original maps Bob abd other folk have done, some new ones.

73, gerry
n5jxs@tamu.edu
```

---

70. SAREX

From: Doug Wetzel <dwetzel@uswest.com>
Date: Tue, 02 Jul 1996 08:21:00 -0600
To: aprssig@tapr.org
Message-ID: <31D9304C.7DEB@uswest.com>
Rendered body type: text/plain

```
021413Z Pass

Voice full quieting from Columbia

Doug
KC7CO
```

---

71. Re: [APRSSIG:2562] STS-78

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 2 Jul 1996 09:28:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607021428.JAA15218@solar.cs.tamu.edu>
Rendered body type: text/plain

```
William Nolle sez:
>
> I got 4 packet beacons the second pass this morning. What i would like
> to know when it tells a user the following.
>
> VE3HIR:#731-IS YOUR STS-78 SAREX QSO NUMBER
> K0UWO:#729-IS YOUR STS-78 SAREX QSO NUMBER
> N1UZN:#732-IS YOUR STS-78 SAREX QSO NUMBER
>
> By the way these are the ones i heard this morning on the second pass.
> Now this is the one that puzzles me.
>
> W5RRR-1>SAREX:#729-IS YOUR STS-78 SAREX QSO NUMBER

It retried out and the TNC was flushing the buffer to the unproto list.
That's all.  I do not recall what we set RETRY to but it's about 4, based on
many empirical tests on earlier misions.
```

---

72. STS-78 Rev 159 Orbital Data

From: Ken Ernandes <70511.3107@compuserve.com>
Date: 30 Jun 96 08:32:59 EDT
To: Shuttle Data List <ststle@spacelink.msfc.nasa.gov>,
        cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
        SAREX <sarex@amsat.org>,
        Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>
Message-ID: <960630123258_70511.3107_IHD50-1@CompuServe.COM>
Rendered body type: text/plain

```
S T S - 7 8   O R B I T A L   D A T A

Below is the current State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector.  Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96182.50020601852
                        06/30/1996  12:00:17.800 UTC
EFG E:                           11127723 ft
    F:                           16719977 ft
    G:                           -8508816 ft
    Edot:                       -19573.47 ft/s
    Fdot:                         6632.62 ft/s
    Gdot:                       -12550.80 ft/s
ndot/2 (drag):              0.00092026487 rev/day^2
nddt/6:                       3.52416E-08 rev/day^3
```

```
Bstar:                        1.42657E-04 1/Earth Radii
Elset #:                               34
Rev @ Epoch:              159.60642138422
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 1.5 drag multiplier:

```
STS-78
1 23931U 96036A   96182.50020602  .00092026  35242-7  14266-3 0   347
2 23931  39.0142 303.7075 0006937 341.9766 236.3355 16.03034716  1598

Satellite: STS-78
Catalog number: 23931
Epoch time:      96182.50020602
Element set:      34
Inclination:       39.0142 deg
RA of node:       303.7075 deg
Eccentricity:    0.0006937
Arg of perigee:   341.9766 deg
Mean anomaly:     236.3355 deg
Mean motion:   16.03034716 rev/day
Decay rate:    9.20265e-04 rev/day^2
Epoch rev:             159
Checksum:              291
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

---

73. Cows In Space goes National!

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 2 Jul 1996 09:36:12 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607021436.JAA15378@solar.cs.tamu.edu>
Rendered body type: text/plain

For what it's worth, APRS will be noted prominantly in my presentation to the GIS/LIS conference on GPS data acquisition of realtime data for GIS 17-21 NOV in Denver. I got the notice of acceptance last week and have gone crazy building the GIS and populating it.

I only THOUGHT I was busy before...

gerry

---

74. Re: [APRSSIG:2657] Re: Signal level from Shuttle?

From: ku0g@sprynet.com
Date: Tue, 2 Jul 1996 08:03:04 -0700
To: aprssig@tapr.org
Message-ID: <199607021503.IAA06869@m1.sprynet.com>
Rendered body type: text/plain

Just a note....From NASA Select TV (Satellite S2, Xpndr 9), Columbia is now in the normal payload bay-to-earth configuration. This means that the entire upper surface of the spacecraft is facing ground. Hopefully signals will now be much stronger! Get ready for the full-quiet signals!

At this writing Columbia is approximatly halfway between the tip of South Africa and the west coast of Austrailia on track for a central U.S. pass....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

75. Re: [APRSSIG:2623] re: WinAPRS v 1.1.0 Is on TAPR

From: Joseph Agrelo <jagrelo@cris.com>
Date: Tue, 02 Jul 1996 10:08:06 -0700
To: aprssig@tapr.org
Message-ID: <31D95776.14A8@concentric.net>
Rendered body type: text/plain

Keith Sproul wrote:

```
> We put WinAPRS 1.1.0 up on TAPR this afternoon..
>
> It is in
>
> ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/

Thanks Keith & Mark.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

76. Shuttle Track

From: ku0g@sprynet.com
Date: Tue, 2 Jul 1996 08:10:26 -0700
To: aprssig@tapr.org
Message-ID: <199607021510.IAA08858@m1.sprynet.com>
Rendered body type: text/plain

```
In my previous posting I mentioned the track of Columbia for the current orbit.
 On watching the projected ground track display on NASA Select, this pass looks
like this...

Encounter the California coast near LAX, ENE bound.
Peak of orbit near Des Moines and crossing the Atlantic coast somewhere around
Jacksonville, FL.  This should be the best pass of the day for those of us in
the central and southern states.

Pegasus was launched from an L-1011 aircraft near Vandenburg AFB, CA and is now
in orbit!

At 1500 CDT Vice President Gore will announce the winner of the bid for
construction of the X-33 spacecraft which is the next generation of re-usable
orbiters.  The speech will be from JPL...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

77. SIG Archives?

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 02 Jul 96 11:32:22 EDT
To: <aprssig@tapr.org>
Message-ID: <960702153221_71301.3106_FHJ55-1@CompuServe.COM>
Rendered body type: text/plain

```
Does anyone know what's going on with the archiving of messages from this SIG?
The FTP server hasn't been updated for a week. I follow the SIG from the
archives and the blackout has left me wondering what's going on.

Please respond direct e-mail and not to the SIG (obviously! ;-)  ).

Thanks!

  ...mike musick/N0QBF
     71301.3106@compuserve.com
```

---

78. Orbit 190

From: ku0g@sprynet.com
Date: Tue, 2 Jul 1996 08:59:40 -0700
To: aprssig@tapr.org
Message-ID: <199607021559.IAA21332@m1.sprynet.com>
Rendered body type: text/plain

```
Columbia crosses over LAX 1048 CDT....Possible WEAK carrier

Columbia over Nevada desert 1050 CDT..Nothing heard...
```

(Orbital track from NASA Screen will take Columbia across
AZ, NM, central TX, LA, Gulf Coast and, finally FL peninsula...)

1051 No signals heard...

1052 No signals heard...

1053 No signals heard...

1054 Columbia over NM/TX...No signals heard...

1055 Weak carrier detected. No audio/packet tones discernable...

1056 Crossing Gulf coast...Packet signals heard!!! Too low in level for decoding...

1057 Over Gulf of Mexico headed toward west tip of Cuba..
Signal lost....Good luck Florida!!!

Did anyone plot me???? I sent beacons and posits every 15 seconds for the duration of this pass....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

79. Re: [APRSSIG:2668] Orbit 190

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 02 Jul 1996 11:15:13 -0700
To: aprssig@tapr.org
Message-ID: <31D96731.4F10@worldnet.att.net>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Columbia crosses over LAX 1048 CDT....Possible WEAK carrier
>
> Columbia over Nevada desert 1050 CDT..Nothing heard...
> (Orbital track from NASA Screen will take Columbia across
> AZ, NM, central TX, LA, Gulf Coast and, finally FL peninsula...)
> 1055 Weak carrier detected. No audio/packet tones discernable...
>
> Did anyone plot me???? I sent beacons and posits every 15 seconds for the
> duration of this pass....
>
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com

No Jim. i had the same problem on this pass, very weak signal here also.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

80. SAREX

From: Doug Wetzel <dwetzel@uswest.com>
Date: Tue, 02 Jul 1996 10:22:34 -0600
To: aprssig@tapr.org
Message-ID: <31D94CCA.767@uswest.com>
Rendered body type: text/plain

021547Z Pass

No packets, no voice from Columbia this pass.

73
Doug
KC7CO
Radio Free Utah

---

81. Re: Space mode

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jul 1996 13:35:05 -0400 (EDT)
To: Doug Wetzel <dwetzel@uswest.com>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960702133223.19485A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 2 Jul 1996, Doug Wetzel wrote:

> Bob, is there a way to get OUT of space mode once you are in it without
> shutting down APRS and restarting?

APRStrak REPLY COMMENT:   Yes, the alt-S-MODES-SPACE is a toggle in all
APRS versions.  In the next version it will have a command alt-S-MODE-NORMAL.

After changing modes you will want to re-enter your UPOROTO digipeater too.

de wb4apr@amsat.org
```

---

82. Re: [APRSSIG:2657] Re: Signal level from Shuttle?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jul 1996 13:39:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960702133726.19485C@arctic>
Rendered body type: text/plain

```
On Tue, 2 Jul 1996, Gerald J Creager wrote:

> On this mission, the Shuttle's radio is a Motorola HT (MX-300) detuned for
> 2.5 watts.  The antenna i a cavity resonator in one
> of the forward windows, with a pattern that approximates a 1/4 wave

APRSdos REPLY COMMENT: Not one of the "side" windows?  THis means it is
pointed straight up on this mission, right?  So most of the energy
goes striaght out to space?

de wb4apr@amsat.org
```

---

83. DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 02 Jul 1996 14:45:42 -0700
To: aprssig@tapr.org
Message-ID: <31D99886.665D@worldnet.att.net>
Rendered body type: text/plain

```
Well finally got my DFjr (After the long wait). I had received one of the
antenna switchers that Joe posted a message about on the sig, but got the
new one delivered to the door the next day. After taking a trip to town
to pickup some additional cables needed i tested it out this morning
(Just the DFjr only). I learned one thing right of the bat, i needed a
better quick reference card. The one Agrelo included with the package
just wasn't bif enough for an old man like me to see (It was just to
small), so the first thing i did was to use Corel Draw and make one the
way i wanted it about 4" x 7" to fit on my sunvisor in the pickup Hi.
Well the test went just great, i tuned to a reapeater frequency and took
a ride around the block and the DFjr didn't have any problem pointing me
in the right direction. I do have to do something with all those wires
tough. By the way for this test i was using an HTX202 and worked just
fine. The antenna system is easy to put together but you do have to be
very carefull with those washers Agrelo uses at each antenna. I assembled
all 4 and then checked them with my ohm meter and found one shorted so i
took that one apart and after re-assembling that antenna it was ok, you
have to be very carefull when doing the assembly work on the antenna
system. Anyway for those of you that can't read that realy fine print on
the quick reference card that Joe send you i uploaded the file in PCX
format to the tapr site called DFJR2.ZIP it has both front and back for
the carr visor card, let me know if you would like something added or
changed on it. Anyway all in all it was fun so far. Now the part that i
always have problems with GPS, TNC, Laptop combination.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

84. 6M

From: steve <steve@muskoka.com>
Date: Tue, 02 Jul 1996 16:08:48 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960702200848.00669030@muskoka.com>

Rendered body type: text/plain

Bob,

I also put the frequency counter on my icom and it is bang on freq.. I also checked the mitreks and got the same results.. The midland I assume should be on.. I hope this will not lead to something bitter like I am having with the rest of the goons up here..

Chow for now....

Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS
Int: steve@muskoka.com

---

85. FM Radio on 121.6 for DFjr

From: Dave Kaplan <dkaplan@pionet.net>
Date: Tue, 2 Jul 1996 15:45:04 -0500
To: aprssig@tapr.org
Message-ID: <9607022045.AA14437@ELWOOD.pionet.net>
Rendered body type: text/plain

Since the DFjr want to see an FM signal I find myself wondering:

1. What will an FM receiver do to a AM ELT (Crash Beacon) signal on 121.6 or 121.5?

2. Where can I find a FM receiver (built up or a kit) that will tune for 121.5/121.6?

I want to use the DFjr in conjunction with APRS to hunt ELT signals with Civil Air Patrol. Now I just need to find a way to attach that antenna set to an airplane!

Dave

---

86. Re: logging all calls

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jul 1996 16:22:02 -0400 (EDT)
To: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960702161912.7455A-100000@arctic>
Rendered body type: text/plain

On Tue, 2 Jul 1996, Larry Keeran wrote:

> What would it take to search thru the .bk or .log files and collect
> the call letters and lat/long (posits) of stations that I have heard?

APRSdos REPLY COMMENT: I wrote that a few years ago, and it is included in all copies of APRS. It is called something like SUMMARIZ.bas. It will build a single HST file of all calls you have ever heard. Then you can replay it at any time to see where someone lives...

de wb4apr@amsat.org

---

87. APRS Sarex report (10)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 2 Jul 1996 16:31:27 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960701222945.6581E-100000@arctic>
Rendered body type: text/plain

Not much new today. No packets detected anywhere. But sometime before the 02 1413 pass, the shuttle maneuvered to payload bay down and during that pass voice contacts were MUCH stronger. Statistics today worsened due to 6 no-activity passes. But there was one good voice pass giving us 13 days of SAREX activity. There have now been 16 voice passes and 16 packet robot passes so far. There are now 25 passes with no activity (not counting the 5 on 22nd), but many of these could be SCHOOL passes.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
```

```
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAT
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass (Any reports of activity?)
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z QSO#586. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#672. KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30  0720  1120z QSO#729.
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD working Michigan
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
02  0422  0822z no packets detected in MD
02  0540  0940z no packets detected in MD
02  0722  1122z no packets detected in MD
02  0842  1242z nothing
02        1413z Voice full quieting over Utah
02        1547z nothing heard
02        1726z nothing heard
```

Still need someone who saw WB6LLO and KB0UZQ APRS packets.
I still have three passes unaccounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass.

de wb4apr@amsat.org

---

88. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Tue, 02 Jul 1996 15:29:02 -0600
To: aprssig@tapr.org
Message-ID: <31D9949E.7016@slkc.uswest.net>
Rendered body type: text/plain

Late update on the 021722Z Pass

Eight or ten packets heard at various times (this was a low el pass, <5 deg), but too noisy to decode. No voice on this pass.

73
Doug
KC7CO

---

89. Sorry

From: steve <steve@muskoka.com>
Date: Tue, 02 Jul 1996 17:40:15 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960702214015.00669de0@muskoka.com>
Rendered body type: text/plain

Sorry to All,

I hit the wrong button on my mailer... I am very sorry for the mistake..Please disregard..If you want to flame me I deserve it for not being more careful..

Once again my sincere appologies...

Chow....
Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS
Int: steve@muskoka.com

---

90. Ultimeter

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Tue, 02 Jul 1996 17:05:40 -0500
To: aprssig@tapr.org
Message-ID: <199607022209.RAA25224@sparc.isl.net>
Rendered body type: text/plain

Where are the best places to purchase an Ultimeter II?

Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

---

91. reply to [APRSSIG:2675] FM Radio on 12.6 for DFjr

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 2 Jul 1996 17:07:17 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960702170717.208140da@exame2.dseg.ti.com>
Rendered body type: text/plain

Dave Kaplan says:

>Since the DFjr want to see an FM signal I find myself wondering:

>1. What will an FM receiver do to a AM ELT (Crash Beacon) signal on 121.6
>or 121.5?

>2. Where can I find a FM receiver (built up or a kit) that will tune for
>121.5/121.6?

>I want to use the DFjr in conjunction with APRS to hunt ELT signals with
>Civil Air Patrol. Now I just need to find a way to attach that antenna set
>to an airplane!

>Dave

Dave:

1. The DFjr makes its own FM from the signal as a consequence of the pseudo rotation of the receiving antenna. This is independent of the modulation on the original signal.

2. Looks like just putting a mixing element between the DFjr antenna and and ordinary amateur 2 meter receiver and injecting a signal of about 25 Mhz would produce a frequency component right in the middle of the 2 meter band. (121.5 Mhz + 25 Mhz = 146.5 Mhz) This signal would carry all the information present in the original signal.

3. Might have to extend the length of the DFjr antenna X arms and the length of the whips to work properly at 121.5 Mhz.

4. Probably need to get Joe Agrelo to comment on all the above suggestions just to be sure!

5. Don't have any suggestions about mounting the antennas on an airplane!

73 Claude
K5DTN

---

92. Re: [APRSSIG:2634] Re: Aligator

From: n2czf@magg.net (Richard Garcia)
Date: Tue, 2 Jul 1996 18:10:41 -0400

To: aprssig@tapr.org
Message-ID: <199607022210.SAA14557@grumpy.magg.net>
Rendered body type: text/plain

```
Yes, twas I, I will admit to it.

>>BTW, no one did plot the location of the crash. I havent seen it on the map
>>here since it happened....
>
>Not true. Someone (I think N2CZF, if not forgive me) did plot it when it
>first happened. I woke up (I work nights) and flipped on the computer
>screen to see what was on APRS, saw the posit and then turned on the TV
>to see what had happened. APRS, a great way to keep informed of current
>events!
>
>Steve, KO4HD
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

93. GPS-20

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Tue, 2 Jul 1996 15:58:19 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960702155442.25810B-100000@cks>
Rendered body type: text/plain

```
Well, I just had a very worthwhile conversation with a knowledgeable
person at Garmin and they have my blessings again.  I was faxed a data
sheet on the GPS20 and GPS25 and it sure looks to me like the maximum
velocity is 999knots.  Am I not picking up the decimal point?
```

---

94. Re: [APRSSIG:2640] Re: Maridian XL

From: Dale Seaburg <dseaburg@web-access.net>
Date: Tue, 02 Jul 1996 18:18:18 -0500
To: aprssig@tapr.org
Message-ID: <31D9AE3A.4A16@web-access.net>
Rendered body type: text/plain

```
dkaszubski wrote:
>
> Rick O'Hearn wrote:
> >
> > Hi all,
> >         I have my eye on a Meridian XL for $289.... Wondering if anyone

snip---
> At first glance, the Meridian XL seems to be a better buy until you try
> to use it as a handheld GPS receiver.  Set-up is easy with the menus and scroll buttons.

snip---
I have to throw my two-cents worth in here.  I too bought a Meridian XL because it
was the cheapest at the time and came with the power/data cable.  I agree that is
fairly easy with the menu system.

My main gripe is with its seeming inaccuracy in altitude.  I even called the
factory on this one, but got NO satisfaction.  They said it was S.A!  Let me
explain:

When I initialized with my rough coordinates (Lat, Long, Elev and time), the
altitude would seem to stay locked in with some reasonable change, but over a long
time (hours) it would drift considerably.  I would see (standing still with
anywhere from 5 to 8 sat's) elevations change from -900 ft to well over 25,000 ft.
I beg your pardon, 25K'!!!  I don't think so.  Can't blame THAT on S.A!  I
basically gave up on expecting anything reliable from the altitude reading.  Now, I
wish I too, had purchased a Garmin 45.  Oh well...

Dale Seaburg  KG5LT
dseaburg@web-access.net
```

---

95. Re: [APRSSIG:2681] reply to FM Radio on 12.6 for DFjr

From: Joseph Agrelo <jagrelo@cris.com>
Date: Tue, 02 Jul 1996 19:51:05 -0700
To: aprssig@tapr.org
Message-ID: <31D9E019.3D75@concentric.net>

Rendered body type: text/plain

Claude 995-5040 pager 4541 wrote:
>
> Dave Kaplan says:
>
> >Since the DFjr want to see an FM signal I find myself wondering:
>
> >1. What will an FM receiver do to a AM ELT (Crash Beacon) signal on 121.6
> >or 121.5?
>
> >2. Where can I find a FM receiver (built up or a kit) that will tune for
> >121.5/121.6?
>
> >I want to use the DFjr in conjunction with APRS to hunt ELT signals with
> >Civil Air Patrol. Now I just need to find a way to attach that antenna set
> >to an airplane!
>
> >Dave
>
> Dave:
> 1. The DFjr makes its own FM from the signal as a consequence of the
>   pseudo rotation of the receiving antenna. This is independent of the
>   modulation on the original signal.
>
> 2. Looks like just putting a mixing element between the DFjr antenna and
>   and ordinary amateur 2 meter receiver and injecting a signal of about
>   25 Mhz would produce a frequency component right in the middle of the 2
>   meter band. (121.5 Mhz + 25 Mhz = 146.5 Mhz) This signal would carry
>   all the information present in the original signal.
>
> 3. Might have to extend the length of the DFjr antenna X arms and the
>   length of the whips to work properly at 121.5 Mhz.
>
> 4. Probably need to get Joe Agrelo to comment on all the above suggestions
>   just to be sure!
>
> 5. Don't have any suggestions about mounting the antennas on an airplane!
>
>   73 Claude
>   K5DTN

We are currently testing an AM man overboard system to be used with the DFjr. Testing will start after the holiday weekend, and then we will try to make a modification to support this feature. How this feature will be implemented is yet to be determined. Please be patient and we will let you know as soon as it's done.

The antenna system is broad banded enough that the X-arms shouldn't need to be lengthened, for example: a very fluent user of the DFjr succesfully DFed a 224MHz signal using the 2 meter array.

Mounting the DFjr antenna array on an airplane! may be the TASK of the century;-) but not impossible, since the fuselage is oval (most likely), you may want to drill a hole through that expensive toy (aircraft) for the center mount of the X-arms and use a longer bolt. But! now the the 4 independant, capacitivley coupled, magnets to ground becomes a major issue, without this! no workey! If you could some how have 4 ground radials pointing downwards instead of the magnets, this would work. If ELT's were at a higher frequency, the antenna array could be significantly smaller.

Well... this is starting to look like the APRS/DFjr SIG, lets try to keep more of this directed to me personaly, so we don't upset too many TAPR/APRS/SIG people. Who knows, maybe we'll have a AGRELO/DFSIG someday! Of coarse, if it directly involves the connection of the DFjr with all the APRS versions, then I think that's ok. The DFjr & APRS support each other, naturaly.

We'll keep you posted on the AMplitude stuff.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
1145 Catalyn St. Schenectady, NY 12303 USA
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products

Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

96. Re: [APRSSIG:2672] Re: Signal level from Shuttle?

From: mbary@nmaa.org (Mark L. Bary)
Date: Tue, 02 Jul 1996 20:58:09 -0700
To: aprssig@tapr.org
Message-ID: <31D9EFD1.D9@nmaa.org>
Rendered body type: text/plain

Bob Bruninga wrote:

> APRSdos REPLY COMMENT: Not one of the "side" windows? THis means it is
> pointed straight up on this mission, right? So most of the energy
> goes striaght out to space?

Except when the Shuttle is on it's back! Then the antenna is pointed down and forward.

My understanding is that much of the time the shuttle is _normally_ on it's back with the payload bay looking down at the Earth; this mission has it "right side up" more often than other missions. Another source says this mission has the Shuttle "swapping ends" more often than in other missions too (i.e. sometimes the nose is pointing in the direction of flight, sometimes the tail).

Now, if they just had a good mag mount..... or how about an EVA to attach one of those thru the glass antennas?! Let's see, at about $50 per antenna mount, I think they could affort to let it burn up during reentry. And if it didn't, think of the advertisement campaign a company could mount!! Hmmm. But of course NASA wouldn't pay off-the-shelf prices, so I guess it would run them about $1,500 per antenna. Well, at that rate they might have to ask everybody to send in a "green stamp" for the QSL card...

Please flame me direct if you didn't see the attempt at humor in the above paragraph.... 8-)

73
Mark
N4EOC
Germantown, MD
MBary@nmaa.org

---

97. Re: [APRSSIG:2644] Re: Repeater locations

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 2 Jul 1996 21:06:15 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9607022142.C19524-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

The discussion on QUITE EXACT is interesting. The only thing that would make it not exact would be the map. I believe that you could not really rely on APRS for navigation until you insure that your map is 'exact' within the APRS program.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

---

98. Shuttle APRS

From: Larry Griffin <largriff@onramp.net>
Date: Tue, 2 Jul 1996 21:26:20 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB685D.22941D40@lub16.onramp.net>
Rendered body type: text/plain

Bob,

When APRS or APRTrak is Armed in Space Mode, is it triggered by _any_ transmission from W5RRR-1 or only packets _digipeated_ by W5RRR-1. With all the Robot QSO connections going on, could it be that our stations are not getting triggered because we never see any digipeats?

AB5GE - Larry Griffin <largriff@onramp.net>

99. Re: [APRSSIG:2688] Shuttle APRS

From: ku0g@sprynet.com
Date: Tue, 2 Jul 1996 21:07:13 -0700
To: aprssig@tapr.org
Message-ID: <199607030407.VAA17451@m1.sprynet.com>
Rendered body type: text/plain

```
I suspect this is the case, Larry!  With so much activity on packet uplink, I'm
surprised that anybody gets through at all, much less unproto digipeats...

I'm getting up for all three morning passes tomorrow and hopefully I'll get a
success bell this time!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

100. Re: [APRSSIG:2673] DFjr

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Wed, 03 Jul 1996 01:41:35 -0400
To: aprssig@tapr.org
Message-ID: <31DA080F.5A9EF09F@codger.physics.duq.edu>
Rendered body type: text/plain

```
William Nolle wrote:

> I learned one thing right of the bat, i needed a
> better quick reference card.
[...]
> so the first thing i did was to use Corel Draw and make one the
> way i wanted it.

Which version of Corel Draw did you use?  If you can write in version 4 (or 3),
I'd like to get a copy of the .CDR file itself.

If not, could you make a Postscript version available?  That would probably be
more useful than the .PCX version (at least a lot clearer for those of us with
Postscript printers).

Thanks.
```

---

101. Re: [APRSSIG:2675] FM Radio on 121.6 for DFjr

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Wed, 03 Jul 1996 02:12:38 -0400
To: aprssig@tapr.org
Message-ID: <31DA0DF3.73620269@codger.physics.duq.edu>
Rendered body type: text/plain

```
Dave Kaplan wrote:
>
> Since the DFjr want to see an FM signal I find myself wondering:
>
> 1.  What will an FM receiver do to a AM ELT (Crash Beacon) signal on 121.6
> or 121.5?

The FM receiver will see it as an unmodulated carrier.  It should work just
fine.

> 2.  Where can I find a FM receiver (built up or a kit) that will tune for
> 121.5/121.6?

Some of the recent HTs (and mobile rigs) will tune down to the aircraft band
without any problem.  Some of them go to AM mode; however, some can disable
that switch to AM, leaving the rig in FM.  (I believe the Standard C508 is
like this, and costs less than the DFjr.)

A cheaper possibility is to pick up a crystal controlled scanner at the next
hamfest.  Most "high band" scanners should not have any problem with air band
frequencies.

I don't know if any of the Ramsey kits will go that low.  Their FR-146
receiver is listed for 130-180 MHz; maybe a component swap (or an extra turn
on a coil) will put it into the 120 range.  I've found that if you catch one
of the techs at a hamfest, they'll tell you exactly what you need to do to
modify the kit.  A crystal change in the synthesizer for their 2m transceiver
kit should also do the trick.. and still allow operation on 2m.

Just some ideas...  and getting the antennas put on a CAP plane should be no
```

```
trouble at all.
```

---

102. Re: [APRSSIG:2677] APRS Sarex report (10)

From: N5RKN@aol.com
Date: Wed, 3 Jul 1996 02:19:16 -0400
To: aprssig@tapr.org
Message-ID: <960703021916_569078005@emout15.mail.aol.com>
Rendered body type: text/plain

```
Gee, Bob.... don't we get any credit down here in West Texas for the shuttle
copy we got on the 26th?  Per msg sent your way..
  Robert
```

---

103. Re: [APRSSIG:2678] SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 02:29:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703022653.18529B@arctic>
Rendered body type: text/plain

```
On Tue, 2 Jul 1996, Doug Wetzel wrote:

> Late update on the 021722Z Pass
>
> Eight or ten packets heard at various times (this was a low el pass, <5
> deg), but too noisy to decode.  No voice on this pass.

APRSdos REPLY COMMENT: If it was SAREX then it would have been bursts of
packets every 3 seconds.  It has a rythm.  Unless you heard that rythm,
then the packets you heard could have been someone using the wrong offset
or weak intermod?  Unless you are convinced it was the shuttle, Id prefer
to not list it.

de wb4apr@amsat.org
```

---

104. Re: [APRSSIG:2688] Shuttle APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 02:40:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703023814.18529C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 2 Jul 1996, Larry Griffin wrote:

> When APRS or APRTrak is Armed in Space Mode, is it triggered by _any_
> transmission from W5RRR-1 or  only packets _digipeated_ by W5RRR-1.
ANSWER *** Only packets ORIGINATED by W5RRR-1

> all the Robot QSO connections going on, could it be that our stations are
> not getting triggered because we never see any digipeats?

APRSdos REPLY COMMENT: Nope, the opposite.  If we ever got 100% of all
SAREX users to use APRS, then we WOULD have a problem, since everyone's
APRS would not trigger until the W5RRR-1 eventually sent its BEACON TEXT.

de wb4apr@amsat.org
```

---

105. Bill Made it in spades!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 02:44:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703024207.18529D-100000@arctic>
Rendered body type: text/plain

```
Looks like we finally got our confirmation of Bills' UPLINKS!  and he got
more APRS posits through in one pass than have been reported on all other
passes combines. hi hi

de wb4apr@amsat.org

---------- Forwarded message ----------
Date: Wed, 3 Jul 1996 01:59:09 -0400
From: kc4nhb@iu.net
To: Bob Bruninga <bruninga@nadn.navy.mil>
Subject: Re: APRS Sarex report

I copied the following aprs packets at my home qth in Vero Beach, FL (EL97sn).
All times are UTC.
```

```
02-Jul-96  15:57:48  WA8INZ>W5RRR-1*>EM64SX <UI>:
@021000/3458.49N/08629.87W/Bill's Laptop Doppler..

02-Jul-96  15:57:59  WA8INZ>W5RRR-1*>EM64SX <UI>:
Bill,Hazel Green,AL v76..

02-Jul-96  15:57:59  WA8INZ>W5RRR-1*>EM64SX <UI>:
@021000/3458.49N/08629.87W/Bill's Laptop Doppler..

02-Jul-96  15:58:30  WA8INZ>W5RRR-1*>EM64SX <UI>:
Bill,Hazel Green,AL v76..
```

73 de Roger Snyder, KC4NHB
Internet: kc4nhb@iu.net
AX.25 packet: KC4NHB @ N4XEO.#FTP.FL.USA.NOAM
Satellite: KC4NHB @ KO-23 or KO-25

106. APRTRAK6.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 02:50:43 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960703024514.18529E@arctic>
Rendered body type: text/plain

The latest version of APRtrak6 is posted for ftp from tapr.org. You will find it in the tapr/SIG/aprssig/files/upload area.

It brings aprtrak up to about the equivalent of aprs76e which many of us are using already on this mission. I will post more about it tomorrow.

A few of you volunteered to beta test it, so that is the purpose of posting it. If it looks good, then I will post it on the AMSAT site...

de wb4apr@amsat.org

107. "CONGRATS!!!..." message on 0430CDT shuttle pass.

From: byoung@qni.com
Date: Wed, 3 Jul 1996 04:59:01 -0500
To: aprssig@tapr.org
Message-ID: <9607030959.AA18481@qni.com>
Rendered body type: text/plain

Fellow APRS/SAREX people,

It's 0450CDT. My station has just finished beeping at me! I woke up (so did my wife, and I'll hear about that later I'm sure...), ran in, and starting (X)mitting (B)eacons just to "make sure".

Bottom Line: I have received my *THIRD* "CONGRATS!!!" message! CHECK YOUR "LOGS"! *SOMEBODY* tell me they saw my beacon on this pass!

I'll submit a full "contact report" later, I'm going back to bed till the next pass...

Bill Young
byoung@qni.com
KB0UZQ

108. SAREX

From: Mike Heskett <mheskett@StarText.NET>
Date: Wed, 3 Jul 1996 06:30:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607031130.GAA25481@lepton.startext.net>
Rendered body type: text/plain

This morning at 0430 CDT (0930Z) I copied packet Shuttles QSOs # 889 - 893, PLUS the following packet

```
KC5EJK>APRS,W5RRR-1*: [EM12ou]
```

The next pass at 0607 CDT (1107 Z) I heard some packet, but did not decode.

```
===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
Mike Heskett    email   mheskett@startext.net
WB5QLD          packet  WB5QLD@WO5H.#DFW.TX.USA.NOAM
```

```
Hurst, TX
O-
```

---

109. Shuttle Pass Results

From: Larry Griffin <largriff@onramp.net>
Date: Wed, 3 Jul 1996 06:44:04 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB68AB.08DB32A0@larry.onramp.net>
Rendered body type: text/plain

```
Copied during one of the overnight (morning of 7/3/96) passes over Lubbock TX.

W5RRR-1>KK5XJ:#888-is your STS-78 SAREX QSO number.
W5RRR-1>KK5XJ:#889-is your STS-78 SAREX QSO number.
W5RRR-1>K0RZ:#891-is your STS-78 SAREX QSO number.

KC5EJK>APRS,W5RRR-1*:[EM12ou]

AB5GE - Larry Griffin <largriff@onramp.net>
```

---

110. Re: GPS-20

From: Antonio Fernandez <100341.640@CompuServe.COM>
Date: 03 Jul 96 07:53:42 EDT
To: "INTERNET:aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <960703115341_100341.640_EHQ45-1@CompuServe.COM>
Rendered body type: text/plain

```
Hi
In response to Bob's request:
I use my GPS-20 for TAC application with no problems, it locks in after
a few minutes even with not very good visibility (usually 3 or four sats,
3-D or 2-D fix).
It takes a few minutes before the DCD 1pps signal is detected by the
computer (when running Showtime).
Haven't tested it in mobile apps. I will use the LCD display for the latter.
Best 73 de Toni, ea4le
```

---

111. Re: [APRSSIG:2695] Bill Made it in spades!

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 06:58:35 -0700
To: aprssig@tapr.org
Message-ID: <31DA7C8B.C41@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Looks like we finally got our confirmation of Bills' UPLINKS!  and he got
> more APRS posits through in one pass than have been reported on all other
> passes combines. hi hi
>
> de wb4apr@amsat.org
>
> ---------- Forwarded message ----------
> Date: Wed, 3 Jul 1996 01:59:09 -0400
> From: kc4nhb@iu.net
> To: Bob Bruninga <bruninga@nadn.navy.mil>
> Subject: Re: APRS Sarex report
>
> I copied the following aprs packets at my home qth in Vero Beach, FL (EL97sn).
> All times are UTC.
>
> 02-Jul-96  15:57:48  WA8INZ>W5RRR-1*>EM64SX <UI>:
> @021000/3458.49N/08629.87W/Bill's Laptop Doppler..
>
> 02-Jul-96  15:57:59  WA8INZ>W5RRR-1*>EM64SX <UI>:
> Bill,Hazel Green,AL v76..
>
> 02-Jul-96  15:57:59  WA8INZ>W5RRR-1*>EM64SX <UI>:
> @021000/3458.49N/08629.87W/Bill's Laptop Doppler..
>
> 02-Jul-96  15:58:30  WA8INZ>W5RRR-1*>EM64SX <UI>:
> Bill,Hazel Green,AL v76..
>
> 73 de Roger Snyder, KC4NHB
> Internet: kc4nhb@iu.net
> AX.25 packet: KC4NHB @ N4XEO.#FTP.FL.USA.NOAM
> Satellite: KC4NHB @ KO-23 or KO-25
```

```
Thank you Roger. Well i don't understand this satellite packet i guess. I used
my laptop for the first time to do this so i could watch the shuttle using
Traksat, but i could just barely hear the packet that pass. In fact i didn't
see any packet bracons from anyone else. (Strange stuff Hi). Well Bob what
better way to advertise my new (old) call Hi.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

112. Re: [APRSSIG:2693] Re: SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Wed, 03 Jul 1996 06:17:55 -0600
To: aprssig@tapr.org
Message-ID: <31DA64F3.17FE@slkc.uswest.net>
Rendered body type: text/plain

```
> then the packets you heard could have been someone using the wrong offset
> or weak intermod?  Unless you are convinced it was the shuttle, Id prefer
> to not list it.
>
> de wb4apr@amsat.org

I can't vouch for the rhythm - I don't have intermod on the downlink,
but I have heard the wrong offset.  Of course, it could have been the
enormous mother ship that caused the massive power outage here in the
west <big g!>

Doug
KC7CO
```

113. Re: [APRSSIG:2690] Re: DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 07:16:49 -0700
To: aprssig@tapr.org
Message-ID: <31DA80D1.6242@worldnet.att.net>
Rendered body type: text/plain

```
P. Christenson wrote:
>
> William Nolle wrote:
>
> > I learned one thing right of the bat, i needed a
> > better quick reference card.
> [...]
> > so the first thing i did was to use Corel Draw and make one the
> > way i wanted it.
>
> Which version of Corel Draw did you use?  If you can write in version 4 (or 3),
> I'd like to get a copy of the .CDR file itself.
>
> If not, could you make a Postscript version available?  That would probably be
> more useful than the .PCX version (at least a lot clearer for those of us with
> Postscript printers).
>
> Thanks.

Well i don't realy know what version i have, that may sound strange but it's on a
486/33 that i haven't used for a long time. Yes i can output the postscript
version. Mine are perfectly clear and crisp printed on my LJ4 on heavy bussiness
card stock then laminated. I may as well upload a zip file with all common file
formats (The files are not that big).
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

114. Re: [APRSSIG:2649] SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Wed, 03 Jul 1996 06:46:13 -0600
To: aprssig@tapr.org
Message-ID: <31DA6B95.6BF6@slkc.uswest.net>
Rendered body type: text/plain

```
031234Z Pass

Many packets from Columbia, too noisy to decode in part due to a local
on the downlink freq at closest approach.   @#$@*&%!
```

Doug
KC7CO

115. Position tracking multiple gliders - what technology?

From: Ian Lewis <Ian.Lewis@cl.cam.ac.uk>
Date: Wed, 03 Jul 1996 13:51:17 +0100
To: aprssig@tapr.org
Message-ID: <E0ubROp-0000n5-00@heaton.cl.cam.ac.uk>
Rendered body type: text/plain

As a new joiner of this SIG (and swamped by the volume...) could someone be kind enough to describe the basics of a simple configuration to track multiple gliders in flight back to a ground-station?

GPS has now become standard for pilots in gliding competitions, and we log the tracks to dataloggers for subsequent analysis for confirmation of the turnpoints being rounded and calculation of the round-trip speed.

It seems likely that we will progress to a radio-based real-time tracking method when that becomes feasible.

We can have 40-50 gliders in a competion, flying at groundspeeds up to 150mph, on tasks taking them 100 miles from the home airfield (and back).

I've seen something of the bits that would go in each glider (GPS + NMEA i/f, KPC-3, radio) but am clueless as to the hardware/software configuration back at base. Would we have to dedicate a frequency to this use, if so how often could we record the position of each glider? For other than spectating use we need a fix every 10 seconds, but this can be buffered up if necessary.

The GPS/KPC-3/radio combination is a bit awkward - can you get this stuff combined into one (cheap) unit?

Eagerly awaiting any advice,
Ian
Glider pilot B21, in Cambridge, England.
email: ijl20@cl.cam.ac.uk

116. This last pass

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 07:56:55 -0700
To: aprssig@tapr.org
Message-ID: <31DA8A37.3F3D@worldnet.att.net>
Rendered body type: text/plain

Well the pass that just went by (#th one i guess) was sleeping the first two. This one i again used my laptop but changed the Doppler thing hi was very very strong in fact full scale on my Alinco DR130 and i heard packet trough it's whole footprint. I bet someone must have seen me on this pass. I must be having a problem running in space mode on the laptop because i didn't even see one beacon in the H,V,P,A list at all?.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

117. Re: [APRSSIG:2673] DFjr

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 3 Jul 1996 07:59:36 -0500
To: <aprssig@tapr.org>
Message-ID: <199607031308.IAA09065@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

>Now the part that i always have problems with GPS, TNC, Laptop
combination.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Been there, done that, tripped over all the wires, and still got the t-shirt!

Shout if'n ya need help.
--
KC5JGV
Marshall, Arkansas

118. Re: [APRSSIG:2675] FM Radio on 121.6 for DFjr

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 3 Jul 1996 08:01:25 -0500
To: <aprssig@tapr.org>
Message-ID: <199607031308.IAA09067@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> From: Dave Kaplan <dkaplan@pionet.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:2675] FM Radio on 121.6 for DFjr
> Date: Tuesday, July 02, 1996 3:57 PM
>
> Since the DFjr want to see an FM signal I find myself wondering:
>
> 1.  What will an FM receiver do to a AM ELT (Crash Beacon) signal on
121.6
> or 121.5?
>
> 2.  Where can I find a FM receiver (built up or a kit) that will tune
for
> 121.5/121.6?
>
> I want to use the DFjr in conjunction with APRS to hunt ELT signals with
> Civil Air Patrol.  Now I just need to find a way to attach that antenna
set
> to an airplane!
>
> Dave


I use a Radio Shack scanner. The thing works just fine.

--
KC5JGV
Marshall, Arkansas
```

---

119. Re: [APRSSIG:2680] Ultimeter

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 3 Jul 1996 08:02:39 -0500
To: <aprssig@tapr.org>
Message-ID: <199607031308.IAA09070@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
----------
> From: Tony Drumm <tdrumm@sparc.isl.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:2680] Ultimeter
> Date: Tuesday, July 02, 1996 5:15 PM
>
> Where are the best places to purchase an Ultimeter II?
>
> Tony Drumm
> Rochester, MN
> internet: tdrumm@isl.net
> Packet:   aa0sm@wd0gnk.#semn.mn.usa.na

They take orders direct. I don't have the number here, but you can find it
in the back of any Popular Mechanics/Science Magazine.

--
KC5JGV
Marshall, Arkansas
```

---

120. 4th of July

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 3 Jul 1996 08:12:02 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607031312.IAA09135@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I hope everyone enjoys themselves during tomorrows birthday celebration.
Keep yourself and your family safe by driving slow!
Be carefull of the dry grass when you shoot the fireworks.
And most of all, have FUN!
--
KC5JGV
Marshall, Arkansas
```

121. RE: [APRSSIG:2685] Re: reply to FM Radio

From: Clarke_Tom%PAX6@mr.nawcad.navy.mil
Date: Wed, 03 Jul 1996 08:56:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <PAX6/A0025861/P04/PAXMB1*@MHS>
Rendered body type: text/plain

```
Whoa!!  Don't drill any holes yet!  The FAA (Friendly Aviation Admin!) has
some pretty firm ideas about who and what can be done to a certificated wind
wagon (aircraft)
.  Get together with a licenced A&P mechanic or talk with your local Flight
Standards District Office (FSDO) to find out the proper path.  It can be
done, but must be approved and the airworthiness of the flying machine not
be compromised.

Tom Clarke
clarke_tom%pax6@mr.nawcad.navy.mil
 ----------
|From: "aprssig@tapr.org"@PMDF@PAXMB1
|To: clarke tom; "aprssig@tapr.org"@PMDF@PAXMB1
|Subject: [APRSSIG:2685] Re: reply to FM Radio on
|Date: Tuesday, July 02, 1996 8:57PM
|
|<<File Attachment: 00000000.TXT>>
|Claude 995-5040 pager 4541 wrote:
|>
|> Dave Kaplan says:
|>
|> >Since the DFjr want to see an FM signal I find myself wondering:
|>
|> >1.  What will an FM receiver do to a AM ELT (Crash Beacon) signal on
121.6
|> >or 121.5?
|>
|> >2.  Where can I find a FM receiver (built up or a kit) that will tune
for
|> >121.5/121.6?
|>
|> >I want to use the DFjr in conjunction with APRS to hunt ELT signals with
|> >Civil Air Patrol.  Now I just need to find a way to attach that antenna
set
|> >to an airplane!
|>
|> >Dave
|>
|> Dave:
|>  1. The DFjr makes its own FM from the signal as a consequence of the
|>     pseudo rotation of the receiving antenna. This is independent of the
|>     modulation on the original signal.
|>
|>  2. Looks like just putting a mixing element between the DFjr antenna and
|>     and ordinary amateur 2 meter receiver and injecting a signal of about
|>     25 Mhz would produce a frequency component right in the middle of the
2
|>     meter band. (121.5 Mhz + 25 Mhz = 146.5 Mhz) This signal would carry
|>     all the information present in the original signal.
|>
|>  3. Might have to extend the length of the DFjr antenna X arms and the
|>     length of the whips to work properly at 121.5 Mhz.
|>
|>  4. Probably need to get Joe Agrelo to comment on all the above
suggestions
|>     just to be sure!
|>
|>  5. Don't have any suggestions about mounting the antennas on an
airplane!
|>
|>     73 Claude
|>        K5DTN
|
|
|We are currently testing an AM man overboard system to be used with the
DFjr.
|Testing will start after the holiday weekend, and then we will try to make
a
|modification to support this feature. How this feature will be implemented
|is yet to be determined. Please be patient and we will let you know as soon
as
|it's done.
```

```
|
|The antenna system is broad banded enough that the X-arms shouldn't need to
be
|lengthened, for example: a very fluent user of the DFjr succesfully DFed a
|224MHz
|signal using the 2 meter array.
|
|Mounting the DFjr antenna array on an airplane! may be the TASK of the
|century;-)
|but not impossible, since the fuselage is oval (most likely), you may want
to
|drill
|a hole through that expensive toy (aircraft) for the center mount of the
|X-arms and
|use a longer bolt. But! now the the 4 independant, capacitivley coupled,
|magnets to ground
|becomes a major issue, without this! no workey! If you could some how have
4
|ground
|radials pointing downwards instead of the magnets, this would work. If
ELT's
|were
|at a higher frequency, the antenna array could be significantly smaller.
|
|Well... this is starting to look like the APRS/DFjr SIG, lets try to keep
|more of
|this directed to me personaly, so we don't upset too many TAPR/APRS/SIG
|people.
|Who knows, maybe we'll have a AGRELO/DFSIG someday! Of coarse, if it
directly
|involves
|the connection of the DFjr with all the APRS versions, then I think that's
ok.
|The DFjr & APRS support each other, naturaly.
|
|We'll keep you posted on the AMplitude stuff.
|
|73 De Joe N2OOC
|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
|            Agrelo Engineering
|       Joe Agrelo/President
|  1145 Catalyn St. Schenectady, NY 12303 USA
|           (518)381-1057
|           (518)381-1058
|    E-Mail: Jagrelo@concentric.net
|  WEB: http://home.navisoft.com/agrelo/ae.htm
|Designer & Manufacturer of intelligent microprocessor
|     based Doppler and talking products
|   Experts in Microchip & Motorola processors
|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
|
```

---

122. Re: [APRSSIG:2707] Re: DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 08:58:06 -0700
To: aprssig@tapr.org
Message-ID: <31DA988E.6994@worldnet.att.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> >Now the part that i  always have problems with GPS, TNC, Laptop
> combination.
> > --
> > Bill WA8INZ
> > ke4eer@worldnet.att.net
> > ke4eer@amsat.org
>
> Been there, done that, tripped over all the wires, and still got the
> t-shirt!
>
> Shout if'n ya need help.
> --
> KC5JGV
> Marshall, Arkansas

Thanks Scott, yes i'm going to need help for sure. Never could get anyone
to answer me on how APRS is setup for that since that's all i will use
the laptop for (Well almost). People seam to forget when you get older
```

things don't come as easy as when your 18-30!. And what may forget is
that we all go trough this you can be assured of that. Many tough feel
they have to flame those people or tell them it's all in the doc's. Well
better get off that topic or my mailbox will be full of fire again Hi.
Thanks again Scott.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

123. Re: [APRSSIG:2700] Re: GPS-20

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 03 Jul 96 10:17:42 EDT
To: aprssig@tapr.org
Message-ID: <199607031417.OAA58799@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

I have 3 GPS-20 units from TAPR.

Here are the results. All used the same power supply (5.02 volts)
and antenna (garmin active antenna). When locked, signal
level is 1/2 to 2/3 scale.

1. Locked after about 25 minutes the first time.
    After being off for several days it took over an hour
    to relock.
    After being off for 15 hours it relocked in less than 3 minutes!
    In short, it's inconsistant.

2. Initial lock took over 2 hours.
    After being off overnight it locked in less than 2 minutes.

3. Never got initial lock after 15 hours. No signal from any satelite.

Do these things have any controls to tweek?

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

124. Sarex

From: ad4bl@juno.com (Linda G Mullen)
Date: Wed, 3 Jul 1996 09:27:31 PST
To: aprssig@tapr.org
Message-ID: <19960703.092739.2646.2.ad4bl@juno.com>
Rendered body type: text/plain

I copied pass of Columbia 14:18-14:20z at my location
3013.81n/08540.35w
this was a voice pass very clear. The speaker was the Canadian VE3CSA
speaking in French

Linda AD4BL

---

125. making maps

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 03 Jul 1996 09:34:30 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960703143430.00afbf7c@144.188.134.33>
Rendered body type: text/plain

OK, time for a dumb question. What is the latest and greatest map making
.exe? I would be making maps from files off of the ftp site, if that makes
any difference. That last time I used MK100K2A.exe. It worked, but seemed
limited to small (DOS size maps) only. How are these large Winaprs maps
being made? thanks.

Paul, WD9ABE

---

126. SAREX/APRS reception report

From: "Ralph R. Swick" <kd1sm@zipnet.net>
Date: Wed, 3 Jul 1996 10:41:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199607031441.KAA03954@zip0.zipnet.net>
Rendered body type: text/plain

Pass of 3 July, 0935-0940 UTC

SAREX robot handing out many QSO numbers (I copied #s 907-922).
Didn't see the packet fly by on my View screen, but after LOS
my Digis page showed, in addition to W5RRR-1

N1JDU 030939 FN42LK

Congratulations, Richard.

Did anyone see my digipacket? APRtrak congratulated me at 0938z
that I had been digipeated...

For tomorrow I'm going to set up a second receiver to log everything
to disk.

-Ralph kd1sm
 kd1sm@zipnet.net

---

127. APRS Sarex report (11)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 11:03:30 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960703094739.14732E-100000@arctic>
Rendered body type: text/plain

Packets really popping this morning! (3 July). Apparently the new shuttle
orientation since midday yesterday has improved performance.
Overall packet statistics were improved by todays passes giving us 14
days of SAREX activity, 17 voice passes and 19 packet passes. There are
now 25 passes with no activity (not counting the 5 on 22nd and any SCHOOL
passes). Eight APRS stations have been successful (15 pkts). Email shows
the seven APRS stations are trying every pass: WA8INZ,WB6LLO,KB0UZQ,KD4EMI
N2THO,WB4APR,KC5EJK. Other stations catching passes when they can are
N3MNT,N3IVO,N8EDU,AD4BL,N2QAE,WA1LOU,KC7CO,N1CPE,WB5QLD,K1HJC,KE6AFE,KU0G
WB4LTF,N5RKN,KC4NHB,AB5GE. Comparing our success rate 15 pkts (for 23
people) to 1100 QSO#s could imply 1700 packet stations worldwide trying
conventional SAREX. All things being equal, that sounds about right? If
you have other data or are not listed, pse report.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAY
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass (Any reports of activity?)
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z QSO#586. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
```

```
          1920z Voice reported in Honduras
30  0545  0945z QSO#672. KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30  0720  1120z QSO#729.
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD working Michigan
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
02  0422  0822z no packets detected in MD
02  0540  0940z no packets detected in MD
02  0722  1122z no packets detected in MD
02  0842  1242z nothing
02        1413z Voice full quieting over Utah
02        1547z nothing heard in MD. But following heard in Florida
               WA8INZ>W5RRR-1*>EM64SX:@021000/3458.49N/08629.87WyBills Laptop
               WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76
02        1726z nothing heard (weak packets heard in Utah)
03  0530  0930z KB0UZQ gets CONGRATS (still waiting for confirmation)
03  0534  0934a 21 pkts hrd in Dallas, 26 in MD.  QSO#893-914. And 2 APRS
                KC5EJK>W5RRR-1*>APRS:[EM12OU]
03  0707  1107z 6 Pkts heard in MD.  QSO#971-975
03  0838  1238z 39 pkts heard in Dallas, 3 in MD.  QSO#1010-1035.
                KC5EJK>W5RRR-1*>APRS:[EM12OU]
03  1020  1420z Weak voice (canadian) heard in MD for 1st half of pass
03        1550z out of view of east coast
03        1720z out of view of east coast
```

Still need someone who saw KE6AFE, WB6LLO and KB0UZQ APRS packets. I still have three passes unaccounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass. (stupid me, was not in auto mode for todays sleeptime passes (tho I was up till 0230 making a rush map of Fon Du Lak wisconsin!)

de wb4apr@amsat.org

---

128. WinAPRS 1.1.0 Impressions

From: schiers@ames.net
Date: Wed, 03 Jul 96 08:05:56 -0500
To: aprssig@tapr.org
Cc: winaprs@tapr.org
Message-ID: <199607031507.KAA18774@tapr.org>
Rendered body type: text/plain

Below follow my impressions/bugs/features not implemented yet for WinAPRS 1.1.0:

Caveat: this is not all-inclusive, merely things that have jumped out at me as I have used the program since its first beta. These are OPINIONS based on my use of the program. As with any opinion, with it and a quarter you can still get a cup of coffee.

Things I like:

1. The presentation of information is outstanding. Clear, easy to understand.
   (Maps and Lists), easy to manipulate. The program has a very "uncluttered"
   look to it. The program is very easy to "learn"...little to remember at this point.

2. The windowed approach contributes greatly to #1 above.

3. Support for the U-2000 works, without any funny stuff like trying to turn off
   FIFO (buffered uarts) . It does not appear to be hardware dependent.

4. All I/O functions are smooth. I have never seen an I/O error, glitch, over-run,
   etc.....ever.

5. Under Win95 it multi-tasks very well with other high demand programs, i.e.,

multi-media.

6. The "potential features" are very impressive. Their current state is not.

7. Dual port gateway function is really slick with a DSP-2232, (with the noted exception of VHF auto transmissions described below).

8. CD ROM callbook support is a real plus.

9. The vast majority of the things it currently does, it does very well, and in a way that I find comfortable, pleasing, informative and intuitive.

Basic Features Not Yet Implemented or Features that don't work properly:

1. Time out for graying and deletion of stations (nothing ever disappears from the lists).

2. In dual port mode, no auto-transmit of any information on VHF. No positions, no weather, no I.D....in other words, if left unattended, the vhf port transmits nothing about the source station on a timed or automatic basis. The only way to get info out is to force a transmission from the drop down menu. HF timed automatic transmission works perfectly. Since I am at work all day, this means I make no transmissions on VHF from 7:00 a.m. until 4:00 p.m....other than gateway transmissions from HF, a very significant limitation.

3. Rain amounts for both R and P do not reset on the hour and day...they are just total accumulation from last program start. They both read the same at all times.

4. There is no bulletin alert....it is just "another" message in the list, but in Blue.

5. There appears to be a "message to me" alert, but it only works sporadically.

6. Logging: lots of things don't work, i.e., NMEA logging, Weather logging, etc. The only logging that works for me is full APRS logging.

7. File Save command appears to do nothing.

8. With sufficient dorking around, it is still not too hard to make the program crash, either itself, or at times, even the operating shell (Win95).

9. There are many things that do not yet work right or are not present as compared to the "basic" set of features in dosAPRS

10. There is no support for Relative Humidity ...the field is missing. (I have the sensor operating properly).

11. Single station tracking/replay is not present.

Summary:

0. WinAPRS has a wonderful start and virtually unlimited potential. But it has "just started". In no way is it a "ready" product.

1. The current feature set in WinAPRS 1.1.0 cannot be even remotely compared to dosAPRS.

2. WinAPRS has the overall feel of a beta. Too many basic features one expects from vanilla APRS are either missing or don't work right. It is a "work in progress" or "developmental" work. My personal opinion is that it is not at "release" level at this time. This is NOT a

criticism, it is a descriptor. Nor am I saying that it shouldn't have been released. I am simply saying that out of the hundreds of "shareware" programs I have used for dos, os/2 and windows, WinAPRS is in the least developed state of any program that I have ever "paid" for.

3. Bug fixes and basic feature implementation have been slow.

4. I know there are lots of good reasons for this, BUT, someone needs to say these things, and since I anticipate being flamed for some of my observations (which could be in error), I am going to say this stuff anyway. The Bros. Sproul are:

 a. Really nice guys.
 b. Very likely not to acknowledge email, esp. bug reports. (they do keep them and maintain a list)
 c. Very busy.
 d. Available by phone....sounds crazy, but it's true...I feel sorry for them.
 e. Have not made an effective effort to keep their "customer base" informed about program development, future updates, known bugs....even to the point of messages on this list being circulated about their "kidnapping". While tongue in cheek....the point has merit.

Am I glad I registered it? You bet!

Do I run the program? 24 hrs/day.

Do I enjoy using the program? Absolutely.

Would I recommend it to others?

Conditionally. If you need all the "basic" features of vanilla APRS, I would not recommend it. The lack of gray out/deletion based on when last heard is a major problem. The lack of proper updating of the rain amounts makes any "real" use for weather problematic. If you are not concerned about the two items above and just want something that has an excellent look and feel with potential for incredible development, that runs beautifully in a multi-tasking environment then you are in for a treat!

Without doing a full comparison of dosAPRS with WinAPRS, I would make the following observations:

There is no way to fairly compare the two programs. In it's current state of development, I would regard WinAPRS as, at best, APRS-lite. dosAPRS is a mature product that continues to develop, but with its own set of limitations, i.e., mediocre I/O, hardware dependencies, a cluttered appearance and feature laden to the point of intimidation. It has so many features and levels of features that it is difficult to organize and remember. The learning curve for dosAPRS is steep, for WinAPRS it is shallow...but given the relative number of features currently available, the only thing I would say is that presentation of features in a windowed environment always has the potential to be much more user friendly than in a "text" based environment. It should also be noted that the hardware requirements for WinAPRS are far greater than that required of dosAPRS.

WinAPRS is in its infancy and has a very long way to go before it can be considered to be anything more than a precursor to what APRS's basic functions allow it to be. While there are some very advanced functions built into WinAPRS (winds aloft, airport locations, advanced labelling), the lack of implementation of some of the essential "basic" features is a real drawback.

If I have made any mistakes in my descriptions, assessments, etc. please forgive me and feel free to point them out. I am a registered user of both dosAPRS and WinAPRS.

73,

hasan schiers, N0AN--
----
schiers@ames.net
----

129. Re: [APRSSIG:2705] tracking glide!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 11:23:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703110436.23519A-100000@arctic>
Rendered body type: text/plain

```
On Wed, 3 Jul 1996, Ian Lewis wrote:

> We can have 40-50 gliders in a competion, flying at speeds up to 150mph,
> on tasks taking them 100 miles from the home airfield (and back)....
> could we record the position of each glider?  For other than spectating use
> we need a fix every 10 seconds, but this can be buffered.

ANSWER: Using the slotted assignments of the KPC-3, and allowing 2 seconds
per position report, you would need 100 seconds for 50 gliders.  (With good
solid state TR radios, you could probably assign every second and set
each of 60 aircraft to once a minute, but this would take careful
design and every aircraft would have to use an assigned time slot.  If
you went with random transmits then you would need to make the rate about
once every 4 minutes for a reasonable success rate.
Going to 9600 baud would not help much, since the slot assignments are
only to the nearest second.  I think PacComm has a way to assign sub
second time slots but they have not announced it.  If so, you should
be able to get down to probably a 15 second update rate for 60 units.

> The GPS/KPC-3/radio combination is a bit awkward - can you get this stuff
> combined into one (cheap) unit?

APRSdos REPLY COMMENT: PacComm makes an all-in one unit that includes the
TNC, GPS and RADIO all in one!

de wb4apr@amsat.org
```

---

130. SAREX Digipeat! (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 11:34:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703112814.23519B-100000@arctic>
Rendered body type: text/plain

```
Here is KB0UZQ's confirmation.  Now any body see KG0DW?
de wb4apr@amsat.org

---------- Forwarded message ----------
Date: 03 Jul 96 10:50:09 EDT
From: Stephen A. Davis <75076.675@CompuServe.COM>

Well, I think I had success with SAREX here in Des Moines [EN30co] !!  I came up
to my machine this morning to attend the 07:38 AM CDT pass of the shuttle, but
found already on my monitor the following message (machine was set up for
unattended operation while I slept)(using v7.6e) :
CONGRADS YOUR PACKET WAS DIGIPEATED! EVERYONE ELSE SHOULD SEE YOU TOO!
I pressed the 'A' key, but no entries; pressed 'L' and saw:

KG0DW 010922 @010922/Hello COLUMBIA from Steve in Des Moines!  <<<my beacon
W5RRR-1 030608 #953-is your STS-78 SAREX QSO number.   <<<Why was this in the
Latest Beacon list??

APR COMMENT: *** Because that was the latest packet heard from W5RRR-1 *****

BUT, when I press 'V' for the View buffer I got:

W5RRR-1>WB4FIN:#901-is your STS-78 SAREX QSO number.   *** the 0935z pass
W5RRR-1>W4JXM:#952-is your STS-78 SAREX QSO number.    *** the 1107z pass
W5RRR-1>KB5JRA:#953-is your STS-78 SAREX QSO number.
KB0UZQ>EMZ9QJ,W5RRR-1*:

BTW, maybe a bug in v76e space mode: I had activated the LOG under the 'C' key,
and then did a Files-Save- for a backup, but when I tried to replay from the
bakup (using Files-Replay, then name of bk file) my computer locked up....
Since it locked up before I left the program, I've lost my other logs!
{Lucky I wrote this other stuff down before I tried to get fancy!}.

Anyhow, do I now look for a QSO or a QRZ listing of my call somewhere (and
WHERE), or I have done it as far as APRS/SAREX is concerned by getting
Digipeated??  Let me know as I am new to this space talk stuff...

APR REPLY:  You have to wait for someone to report capturing your packet.
```

```
You will not get a copy unless you saw it on the VIEW screen live.  But
the Congrats message tells you that APRS saw it!
```

---

131. SAREX

From: Doug_Wetzel@acs.uswest.com
Date: Wed, 3 Jul 1996 09:25:17 -0500
To: aprssig@tapr.org
Message-ID: <1da98670@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
031409Z Pass

Very weak voice heard from Columbia.  This was a high elevation pass, does
anyone know what the vehicle attitude was on this rev?  Sounded like the antenna
was shielded by the body -

Or maybe it WAS that giant mother ship......

Doug
KC7CO
Radio Free Utah
```

---

132. Re: [APRSSIG:2712] Re: DFjr

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 3 Jul 1996 11:10:19 -0500
To: <aprssig@tapr.org>
Message-ID: <199607031611.LAA11255@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
----------
> From: William Nolle <ke4eer@worldnet.att.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:2712] Re: DFjr
> Date: Wednesday, July 03, 1996 9:02 AM
>
> J. Scott Ratchford, KC5JGV wrote:
> >
> > >Now the part that i  always have problems with GPS, TNC, Laptop
> > combination.
> > > --
> > > Bill WA8INZ
> > > ke4eer@worldnet.att.net
> > > ke4eer@amsat.org
> >
> > Been there, done that, tripped over all the wires, and still got the
> > t-shirt!
> >
> > Shout if'n ya need help.
> > --
> > KC5JGV
> > Marshall, Arkansas
>
> Thanks Scott, yes i'm going to need help for sure. Never could get
anyone
> to answer me on how APRS is setup for that since that's all i will use
> the laptop for (Well almost). People seam to forget when you get older
> things don't come as easy as when your 18-30!. And what may forget is
> that we all go trough this you can be assured of that. Many tough feel
> they have to flame those people or tell them it's all in the doc's. Well

> better get off that topic or my mailbox will be full of fire again Hi.
> Thanks again Scott.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

I'm glad to help! Once you've hanged yourself in all those wires (I built
a fiberglass junction box) and gotten the machines to talk "at" each
other, the fun begins!

First delete the ????.apr file in your root directory and boot APRS. By
deleting that file you'll have to re-enter all your id, port, and
verification info.....BUT this also gives ya a clean slate to start on. Do
all that, and then hit <ALT-S> (D)f df(J)r.......then <ALT-S> (G)ps
(S)pm.....then....<ALT-S> (S)ave..... I think all that is right. Anyway
your reseting the coinfig to Single port mode on account of the Multi-Port
adapter from Agrelo Eng. and your setting the DFjr.
```

NOW......then GPS rate is set thru your DFjr....menu 4?? I think. (Look at your BIG card) I set mine to 15 secs. That gives me a good rate as I travel and *just* enuf for a good map.

UNDERSTAND that the DFjr must be on for GPS data to flow EVEN it your not DFing at the time.

AS FAR AS the other stuff is concerned, i.e. FLAMES....... a little LESS ATTITUDE and MORE LISTENING and maybe your mailbox would stay COOL!!!!

I'll be around for more info giving if'n ya need it!
--
KC5JGV
Marshall, Arkansas

---

133. Re: [APRSSIG:2716] SAREX/APRS reception report

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 12:29:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703122810.23519F-100000@arctic>
Rendered body type: text/plain

On Wed, 3 Jul 1996, Ralph R. Swick wrote:

> Pass of 3 July, 0935-0940 UTC
> SAREX robot handing out many QSO numbers (I copied #s 907-922).
> Didn't see the packet fly by on my View screen, but after LOS
> my Digis page showed, in addition to W5RRR-1
>
> N1JDU 030939 FN42LK

APRSdos REPLY COMMENT: But was there an ASTERIX indicating the packet was digipeated by W5RRR-1? You called him by name, is he a local to you?

de wb4apr@amsat.org

---

134. [APRSSIG:2686] Re: Signal level from Shuttle?

From: ttyamada@CCGATE.HAC.COM
Date: Wed, 03 Jul 96 09:49:22 PST
To: aprssig@tapr.org
Message-ID: <9606038364.AA836413309@CCGATE.HAC.COM>
Rendered body type: text/plain

>>>>>> clip <<<<<<<
Now, if they just had a good mag mount..... or how about an EVA to attach one of those thru the glass antennas?! Let's see, at about $50 per antenna mount, I think they could affort to let it burn up during reentry. And if it didn't, think of the advertisement campaign a company could mount!! Hmmm. But of course NASA wouldn't pay off-the-shelf prices, so I guess it would run them about $1,500 per antenna. Well, at that rate they might have to ask everybody to send in a "green stamp" for the QSL card...

Please flame me direct if you didn't see the attempt at humor in the above paragraph.... 8-)

73
Mark
N4EOC
Germantown, MD
MBary@nmaa.org

>>>>>>> end of clip <<<<<<<<<

How about a "Tethered antenna", but use strong coax! :-)

73, Ted (KJ6ZJ)

The following is an attached File item from cc:Mail. It contains information that had to be encoded to ensure successful transmission through various mail systems. To decode the file use the UUDECODE program.

```
--------------------------------- Cut Here ---------------------------------
begin 644 rfc822.txt
M4F5C96EV960Z(&)Y(&-C;6%I;"!F<F]M(&5D96XN:&%C+F-O;0T*1G)O;2!A
M<')S<VEG0'1A<'(N;W)G#0I8+45N=F5L;W!E+49R;VTZ(&%P<G-S:6=`=&%P
M<BYO<F<-"E)E8V5I=F5D.B!F<F]M(#(P-"XQ-RXR,3<N,C`@8GD@141%%3BY(
M04,N0T]-("A0341&(%8T+C,M-R`C-3@X-"D-"B!I9"`\,#%)-DQ62TPX,58T
M,#`S,%E(0$5$14XN2$%#+D-/33X[(%1U92P@,B!*=6P@,3DY-B`Q.#HT,#HQ
M-2!04U0-"E)E8V5I=F5D.B!F<F]M('1A<'(N;W)G("AL;V-A;&AO<W0@6S$R
M-RXP+C`N,5TI(&)Y('1A<'(N;W)G("@X+C<N-2\X+C<N,R\Q+CDI#0H@=VET
M:"!33510(&ED(%5!03`X-C$T.R!4=64L(#(@2G5L(#$Y.38@,C`Z,#(Z,SD@
M+3`U,#`@*$-$5"D-"D1A=&4Z(%1U92P@,#(@2G5L(#$Y.38@,C`Z,#(Z,SD@
M+3`U,#`@*$-$5"D-"D9R;VTZ(&UB87)Y0&YM86$N;W)G("A-87)K($PN($)A
M<GDI#0I3=6)J96-T.B!;05!24U-)1SHR-C@V72!293H@4VEG;F%L(&QE=F5L
M(&9R;VT@4VAU=='1L93\-"E-E;F1E<CH@87!R<W-I9T!T87!R+F]R9PT*5&\Z
M(&%P<G-S:6=`=&%P<BYO<F<-"E)E<&QY+71O.B!A<')S<VEG0'1A<'(N;W)G
M#0I-97-S86=E+6ED.B`\,S%$.45&1#$N1#`;FUA82YO<F<^#0I-24U%+79E
M<G-I;VXZ(#$N,`T*6"U-86EL97(Z($$$@,BXP,2`H5VEN,S8[(%1)*$DI
M#0I#;VYT96YT+71Y<&4Z('1E>'0O<&QA:6X[(&-H87)S970]=7,M87-C:6D-
M"D-O;G1E;G0M5')A;G-F97(M16YC;V1I;F<Z(#=B:70-"D]R:6=I;F%T;W(Z
M(&%P<G-S:6=`=&%P<BYO<F<-"E!R96-E9&5N8V4Z(&)U;&L-"@T*4&%T(&AA
M;V-E<W-I;F<@4VAU='1L92!D871A+B`@4VEG;F%L(&QE=F5L<R!A<F4@;F]T
M=&%S:6]N($)E(&%N('!R;V)L96TN("!)(&!!I8&=I=F4@=&AE(&UO9&5R
M-&%C:6YG(&]F('1H92!R861I;W,-"@T*+2TM($UA<FL@4&%T(&AA;V-E
M```


end

---

## 135. Information for the shuttle log...

From: byoung@qni.com
Date: Wed, 3 Jul 1996 12:09:02 -0500
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <9607031709.AA12628@qni.com>
Rendered body type: text/plain

APRS/STS-78 peers,

Here's (some) of the information from the passes I got this AM.

I got my third "CONGRATS!!!..." message on the 0435CDT pass.
(Did *ANYBODY* "see" me?  Please, oh please, oh please?)

```
(H)eard Log:  (this info upto 11:30CDT from earlier passes)
12 @ 7
2  @ 6
8  @ 4

(V)iew:  (this info upto 11:30CDT from earlier passes)
W5RRR-1>W9HAD:#1017-IS YOUR STS-78 SAREX QSO NUMBER.
W5RRR-1>KB5RZY:#1018-IS YOUR STS-78 SAREX QSO NUMBER.
W5RRR-1>KB5RZY:#1018-IS YOUR STS-78 SAREX QSO NUMBER.
W5RRR-1>SAREX:#1017-IS YOUR STS-78 SAREX QSO NUMBER.

(D)igipeaters used: (this info from 06305CDT)
*W5RRR-1  >KC5EIB

(L)atest Bcns: (this info from 06305CDT)
030607 #948-IS YOUR STS-78 SAREX QSO NUMBER.
```

I did NOT record on paper all the "transient" info (V,A,D, etc, etc...) after the 0430CDT pass, but I DID do a (F)ile, (S)ave. That one woke me from a very sound sleep when the PC "beeped" to let me know I'd digipeated. (I was groggy enough that it took a few seconds to remember why is was standing in front of the APRS station...)I'll be able to (F)ile, (L)oad when I get home tonight and see what additional information I can provide.

Bill Young
byoung@qni.com
Located in Smithville, MO (30 miles north of KC. MO)
KB0UZQ

---

136. Re: [APRSSIG:2722] Re: DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 12:21:45 -0700
To: aprssig@tapr.org
Message-ID: <31DAC849.68E@worldnet.att.net>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:

>
> AS FAR AS the other stuff is concerned, i.e. FLAMES....... a little LESS
> ATTITUDE and MORE LISTENING and maybe your mailbox would stay COOL!!!!
>
> I'll be around for more info giving if'n ya need it!
```

> --
> KC5JGV
> Marshall, Arkansas

Ok will do Hi. Thanks for the help, will give that try.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

137. Re: [APRSSIG:2717] APRS Sarex report (11)

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 3 Jul 96 14:01:19 -0400
To: <aprssig@tapr.org>
Message-ID: <199607031758.NAA11580@bridge.net>
Rendered body type: text/plain

>03   1550z out of view of east coast

I heard nothing until just before LOS, when a got several short (about 1 sec) full quieting carriers, no modulation. The doppler shift was dead on -3.1 kHz, could have been from nothing else.

Steve KO4HD

---

138. Re: [APRSSIG:2722] Re: DFjr

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 03 Jul 1996 14:11:42 -0700
To: aprssig@tapr.org
Message-ID: <31DAE20E.5E94@concentric.net>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:

> UNDERSTAND that the DFjr must be on for GPS data to flow EVEN it your not
> DFing at the time.
> KC5JGV
> Marshall, Arkansas

Hi Scott & Bill,

Correct! but don't forget you can turn the DF port off, and run GPS *only* if so desired. The display will still show bearings, but now if you see something you like on the DFjr display, press MENU, then ENTER, walla! a GPS POSIT then DF report gets sent to APRS, over riding the DF PORT OFF feature.

Like this:

```
$GPRMC,194616,A,4306.37,N,07448.67,W,000.0,360.0,010396,013.9,W*73
%279/8
```

Have a great, safe weekend guys, and happy APRS/DFjr'ing.
I'm out of here!

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
1145 Catalyn St. Schenectady, NY 12303 USA
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

139. Re: [APRSSIG:2728] Re: DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 13:31:58 -0700
To: aprssig@tapr.org
Message-ID: <31DAD8BE.41E9@worldnet.att.net>
Rendered body type: text/plain

Joseph Agrelo wrote:
>
> J. Scott Ratchford, KC5JGV wrote:
>
> > UNDERSTAND that the DFjr must be on for GPS data to flow EVEN it your not
> > DFing at the time.
> > KC5JGV
> > Marshall, Arkansas
>
> Hi Scott & Bill,
>
> Correct! but don't forget you can turn the DF port off, and run GPS
> *only* if so desired. The display will still show bearings, but now if
> you see something you like on the DFjr display, press MENU, then ENTER,
> walla! a GPS POSIT then DF report gets sent to APRS, over riding the
> DF PORT OFF feature.
>
> Like this:
>
> $GPRMC,194616,A,4306.37,N,07448.67,W,000.0,360.0,010396,013.9,W*73
> %279/8
>
> Have a great, safe weekend guys, and happy APRS/DFjr'ing.
> I'm out of here!
>
> 73 De Joe N2OOC

Thanks for the info Joe and Scott!....
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

140. DFjr Card

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 13:38:11 -0700
To: aprssig@tapr.org
Message-ID: <31DADA33.2B7F@worldnet.att.net>
Rendered body type: text/plain

Per request i uploaded a new DFjr quick reference card file. On this one
i cleaned up the text around the circle of LED's a little. The file is in
the following formats now, EPS, PCX, TIF. By the way had 2 laminated this
morning with some heavy plastic (Ended up being .030) for only $2.00 for
two on a page. Just right for my sunvisor pocket, they are 4.5" x 8".

Question for Joe, i noticed to calibrate to 0 you must press the
Menu,Sub,Enter keys all at once is that right?.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

141. Re: [APRSSIG:2730] DFjr Card

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 03 Jul 1996 16:19:09 -0700
To: aprssig@tapr.org
Message-ID: <31DAFFED.33F5@concentric.net>
Rendered body type: text/plain

William Nolle wrote:

> Question for Joe, i noticed to calibrate to 0 you must press the
> Menu,Sub,Enter keys all at once is that right?.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Yup! don't need to press to hard either. Press and hold MENU,
then press and hold SUB, then press ENTER, release all!. This will ensure
a clean three button press transition, even though there are debouncing
enhancments to the code as well as hardware caps.

The buttons are Panasonic Soft touch (R) and only require 100 grams of force.

Bill, I noticed you used a comma (I think) for the Increment degree value,
symbol on the reference card you posted. Here is the degree symbol °, copy & past
it, if you need it.:-)

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
1145 Catalyn St. Schenectady, NY 12303 USA
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

142. Map ratios in MacAPRS

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Wed, 3 Jul 1996 15:22:22 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae0081b20ed8@[204.251.33.23]>
Rendered body type: text/plain

A square area on the screen (equal number of pixels horiz. and vert.) for
the 100K USGS derived maps describe a rectangle on the ground with the
vert. to horiz. ratio of 1.15 (i.e., not square).

This causes circles to be ellipses. Even the USA map appears squished
(excuse the technical jargon) vertically.

Is this

1. A programming error in the display software?
2. A programming error in the map construction?
3. Something else?

Ron W5RKN

also:
rparsons@bga.com

143. Wisconsin and Ecuador MAPS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 16:26:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703161720.23519M-100000@arctic>
Rendered body type: text/plain

I posted a file called ATI.zip on the tapr site in the upload directory that
contains an 4.5 mile map of Fond du Lac Wisconsin and a 128 mile map of
Ecuador south america.   There are two other maps whcih contain slight
mods due to the new detail in those 2 maps. SO there is a new SAnorth.map
and a new WIMlwkee.map as well. I have no room to include these in
standard distribution. Is W9LZQ in Onalaska still here on the SIG and
can add this and the new WIwest.map to his distributions?

The company ATI wants to put up a digi in Fond du Lac and wants to find
any HAMS in the area...

If W9LZQ is not on the SIG, does anyone see him on their APRS map and can
inform him?

de wb4apr@amsat.org

144. Re: [APRSSIG:2732] Map ratios in MacAPRS

From: Mark Sproul <sproul@ap.org>
Date: Wed, 3 Jul 1996 17:17:55 -0400
To: aprssig@tapr.org
Cc: ksproul@hardees.rutgers.edu
Message-ID: <v03007602ae0092f8515b@[165.1.27.20]>
Rendered body type: text/plain

>A square area on the screen (equal number of pixels horiz. and vert.) for
>the 100K USGS derived maps describe a rectangle on the ground with the
>vert. to horiz. ratio of 1.15 (i.e., not square).
>
>This causes circles to be ellipses. Even the USA map appears squished
>(excuse the technical jargon) vertically.
>

>Is this
>
>1. A programming error in the display software?
>2. A programming error in the map construction?
>3. Something else?
>
>

This is a "FEATURE", it makes the math of map calculation MUCH MUCH easier. This was a specific design criteria and we did know that this would happen when we made the decission to do it this way.

The calculations for the map screen x,y pairs and the object screen x,y pairs goes thru the same "squaring", therefore everything still registers properly.

On slower computers it is VERY important to keep it this way. With newer higher speed machines we have been discussing some rather elaborate options but have not started implementing them yet.

In the mean time the circles arent perfect (unless you are at or near the equator)

Mark

```
___________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

145. Re: [APRSSIG:2732] Map ratios in MacAPRS

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 16:36:29 -0700
To: aprssig@tapr.org
Message-ID: <31DB03FD.97D@worldnet.att.net>
Rendered body type: text/plain

Ronald G. Parsons wrote:
>
> A square area on the screen (equal number of pixels horiz. and vert.) for
> the 100K USGS derived maps describe a rectangle on the ground with the
> vert. to horiz. ratio of 1.15 (i.e., not square).
>
> This causes circles to be ellipses. Even the USA map appears squished
> (excuse the technical jargon) vertically.
>
> Is this
>
> 1. A programming error in the display software?
> 2. A programming error in the map construction?
> 3. Something else?
>
> Ron W5RKN
>
> also:
> rparsons@bga.com

I wonder if your using a laptop and getting the squished map?. If so i went trough that a couple of years ago and had to take 2 laptops back till i wised up and took a disk with me that had APRS on it.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

146. Re: [APRSSIG:2731] Re: DFjr Card

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 16:41:06 -0700
To: aprssig@tapr.org
Message-ID: <31DB0512.2BE1@worldnet.att.net>
Rendered body type: text/plain

Joseph Agrelo wrote:
>

> Bill, I noticed you used a comma (I think) for the Increment degree value,
> symbol on the reference card you posted. Here is the degree symbol °, copy & past
> it, if you need it.:-)
>
> 73 De Joe N2OOC

Yes Joe i was aware of that but CorelDraw does not have a symbol for that, or at
least i haven't found it hi. I will look again and if i find it i will correct
that Hi. Is everything else correct?.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

147. Re: [APRSSIG:2736] Re: DFjr Card

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 17:19:46 -0700
To: aprssig@tapr.org
Message-ID: <31DB0E22.73C4@worldnet.att.net>
Rendered body type: text/plain

William Nolle wrote:
>
> Joseph Agrelo wrote:
> >
> > Bill, I noticed you used a comma (I think) for the Increment degree value,
> > symbol on the reference card you posted. Here is the degree symbol °, copy & past
> > it, if you need it.:-)
> >
> > 73 De Joe N2OOC
>

I fixed it Joe and uploaded the new files to tapr. Couldn't paste it tough because i
have CorelDraw on another computer Hi. The files are called DFJR4.ZIP and DFJR4.TXT

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

148. Re: [APRSSIG:2732] Map ratios in MacAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 3 Jul 96 19:01:21 -0400
To: <aprssig@tapr.org>
Message-ID: <199607032258.SAA10098@bridge.net>
Rendered body type: text/plain

>A square area on the screen (equal number of pixels horiz. and vert.) for
>the 100K USGS derived maps describe a rectangle on the ground with the
>vert. to horiz. ratio of 1.15 (i.e., not square).
>
>This causes circles to be ellipses. Even the USA map appears squished
>(excuse the technical jargon) vertically.
>
>Is this
>
>1. A programming error in the display software?
>2. A programming error in the map construction?
>3. Something else?
>

This is a consequence of trying to depict a (roughly) spherical surface
on a flat surface (in this case a computer screen). All maps and charts
suffer from distortion. The manner in which the surface is depicted on a
map is called the projection, and many different projections that have
been used over the history of cartography. Each has advantages and
disadvantages that make it suitable for certain uses. MacAPRS, like many
low end computer programs, uses a linear projection, where a degree of
longitude is the same distance regardless of the lattitude. (In reality,
of course, a degree of longitude varies from infitesimally small at the
poles, to about 60 nmi at the equator.) The major advantage of a simple
projection like this is computation speed. Given the x,y coords of a
mouse click, one simple needs to multiply by a scale factor and add an
offest to get the lat/lon. Other projections require the use of complex
spherical trig formulas. (i.e. don't try this on your PC AT!) The linear
projection has its major distortion at the poles, none at the equator,
and is not too bad for the middle lattitudes where most of us live.

Steve KO4HD

---

149. Need latest Keps!!!

From: ku0g@sprynet.com
Date: Wed, 3 Jul 1996 16:39:33 -0700
To: aprssig@tapr.org
Message-ID: <199607032339.QAA24881@m1.sprynet.com>
Rendered body type: text/plain

Could someone PLEASE post the latest set of keps for Columbia? The keps from early on 7/2 placed the shuttle nearly 180 degrees off on its orbit display in Logsat...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

150. Shuttle Posit

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 3 Jul 1996 21:03:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960703210141.4921B-100000@laraby.tiac.net>
Rendered body type: text/plain

Running AprTrak all day.

Not successful in seing my own Digipeat, but today at

08:47am WB4LTF Casselberry, Florida

came thru with a grid sq posit. Heard in Boston.

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

151. Re: [APRSSIG:2739] Need latest Keps!!!

From: "Jerry" <jerdptro@xnet.com>
Date: Wed, 3 Jul 1996 20:05:46 +0000
To: aprssig@tapr.org
Message-ID: <199607040105.UAA17123@flood.xnet.com>
Rendered body type: text/plain

Attached are latest sts78 keps...
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

---

152. Re: [APRSSIG:2696] APRTRAK6.zip

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 3 Jul 1996 21:07:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960703210542.4921C-100000@laraby.tiac.net>
Rendered body type: text/plain

On Wed, 3 Jul 1996, Bob Bruninga wrote:

> The latest version of APRtrak6 is posted for ftp from tapr.org. You will
> find it in the tapr/SIG/aprssig/files/upload area.
>
> It brings aprtrak up to about the equivalent of aprs76e which many of us
> are using already on this mission. I will post more about it tomorrow.
>

Good! I am running older version, without much luck, was about to switch
to regular APRS for rest of mission but will try this version of APRTRAK.

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

153. Re: [APRSSIG:2716] SAREX/APRS reception report

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 3 Jul 1996 21:20:37 -0400 (EDT)
To: "Ralph R. Swick" <kd1sm@zipnet.net>
Cc: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>, Boston APRS <aps@ieee.org>,

```
        bruce@testware.com, eparish@netcom.com, eric@waaf.com,
        jgarrett@world.std.com, martin01@aol.com,
        neil%starfleet.bbn.com@bbn.com, northup@sw.stratus.com,
        phil@temples.com, pozerss@cliffy.polaroid.com,
        schwarm@spectre.mitre.org, warakois@world.std.com, aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960703211546.4921E-100000@laraby.tiac.net>
Rendered body type: text/plain
```

```
On Wed, 3 Jul 1996, Ralph R. Swick wrote:

> Pass of 3 July, 0935-0940 UTC
>
> SAREX robot handing out many QSO numbers (I copied #s 907-922).
> Didn't see the packet fly by on my View screen, but after LOS
> my Digis page showed, in addition to W5RRR-1
>
> N1JDU 030939  FN42LK
>
> Congratulations, Richard.

Thanks! I never saw it on my own screen, but at least I got thru!

>
> Did anyone see my digipacket?  APRtrak congratulated me at 0938z
> that I had been digipeated...
>
> For tomorrow I'm going to set up a second receiver to log everything
> to disk.
>
> -Ralph kd1sm
>  kd1sm@zipnet.net
>
>

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

154. APRS via PACSATS

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 22:44:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703223659.6850A-100000@arctic>
Rendered body type: text/plain
```

```
---------- Forwarded message ----------
This message is to confirme contact with W9ODI at 15:15 utc the 3 of july.
The contact was made in conv with io-26 digipeater (itmsat-1).  W9ODI Chuck
in Mundelein Ill  VE2KAD Jean-F in Rawdon Quebec FN36CB
------------
APR COMMENT: We have many digipeaters in SPACE.  If you are frustrated
with trying to work the shuttle when most of the time it is not in packet
mode, consider that a simple mod to most standard TNC's will put you and
your 2mFM RIG on several PACSAT uplinks!  THen we could play mobile
position reporting for real!  All the time!

I have been told that all you have to do is XOR the TNC data with the
1200 HZ clock and plug that into the MIC jack!  We need someone to get
excited about this mod, figure out how to do it, and enlighten us!

Any volunteer wanna take this on?  I know most of us dont have time, but
surely someone does...
```

---

155. APRS DFjr

```
From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 03 Jul 1996 21:49:19 -0700
To: aprssig@tapr.org
Message-ID: <31DB4D4F.7DC3@worldnet.att.net>
Rendered body type: text/plain
```

```
I was trying to setup APRS with the DFjr using the MPA and what i was
wondering it still has the window in the upper right corner asking to move
the cursor to your qth then press I-M position. Is that going to be there
all the time even when running mobil?, or did i do something wrong. I
didn't have a GPS hooked to it yet. I got the following string but it was
in the HOST directory only.

WA8INZ-14 032011 @31954/0000.00N/0000.00W/newuser/303/108/DFjr

Also why does it show the newuser when i entered a validation number for
the DF,GPS
```

```
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

156. Re: [APRSSIG:2664] Re: Signal level from Shuttle?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 3 Jul 1996 21:54:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607040254.VAA01845@solar.cs.tamu.edu>
Rendered body type: text/plain

```
ku0g@sprynet.com sez:
>
> Just a note....From NASA Select TV (Satellite S2, Xpndr 9), Columbia is now in
> the normal payload bay-to-earth configuration.  This means that the entire upper
> surface of the spacecraft is facing ground.  Hopefully signals will now be much
> stronger!  Get ready for the full-quiet signals!

Except that, neither W1 nor W6 are facing earth.  they are the aft-most
windows in the forward flight deck.
```

157. Re: [APRSSIG:2672] Re: Signal level from Shuttle?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 3 Jul 1996 22:00:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607040300.WAA01898@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Bob Bruninga sez:
>
> APRSdos REPLY COMMENT: Not one of the "side" windows?  THis means it is
> pointed straight up on this mission, right?  So most of the energy
> goes striaght out to space?

W1 and W6 (the 2 usual SAREX windows) are the aft-most windows next to the
pilot and CDR on the forward flight deck.  W7, W8 was tried for STS-50 and
while we had a lot of QSOs, VSWR was hign and impossible to correct in that
installation.

gerry
```

158. Re: [APRSSIG:2732] Map ratios in MacAPRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 23:21:21 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703231721.7539B-100000@arctic>
Rendered body type: text/plain

```
On Wed, 3 Jul 1996, Ronald G. Parsons wrote:

> A square area on the screen (equal number of pixels horiz. and vert.) for
> the 100K USGS derived maps describe a rectangle on the ground with the
> vert. to horiz. ratio of 1.15 (i.e., not square).
>
> This causes circles to be ellipses. Even the USA map appears squished
> (excuse the technical jargon) vertically.

APRSdos REPLY COMMENT:  THe aspect ratio is not constant.  It varies with
latitude.  You dont notice this at most scales, but it is very noticable
with the USA or WORLD maps.  I vary the aspect ratio of the screen
proportional to the latitude of the CENTER point.  Center yoru screen on
IOWA and see how the USA width is different then if you center it on
Texas.  THis was done to elminate the distortion of a Mercator Map
when displayed on a flat screen as you move north...

de wb4apr@amsat.org
```

159. (no subject)

From: Ken Ernandes <kene@fairchild.lmco.com>
Date: Tue, 02 Jul 1996 16:30:56 -0400
To: sarex@amsat.org
Message-ID: <m0ubC5Z-003E3OC@fairchild.lmco.com>
Rendered body type: text/plain

```
S T S - 7 8   O R B I T A L   D A T A

Below is the current State Vector and Keplerian Elements for STS-78.
```

```
The vector data comes from NASA; the orbital parameters were computed
from the vector.  Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96184.79212847222
                        07/02/1996  19:00:39.899 UTC
EFG E:                          -11118937 ft
    F:                          -17395653 ft
    G:                            6965669 ft
    Edot:                        13776.76 ft/s
    Fdot:                       -14359.83 ft/s
    Gdot:                       -13782.80 ft/s
ndot/2 (drag):              0.00222533628 rev/day^2
nddt/6:                       2.05935E-07 rev/day^3
Bstar:                        3.23539E-04 1/Earth Radii
Elset #:                               42
Rev @ Epoch:              196.41489023199

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 3.3 drag multiplier:

STS-78
1 23931U 96036A   96184.79212847  .00222534  20594-6  32354-3 0   423
2 23931  39.0125 288.3022 0006159   0.4467 148.9133 16.04106692  1967

Satellite: STS-78
Catalog number: 23931
Epoch time:      96184.79212847
Element set:      42
Inclination:       39.0125 deg
RA of node:       288.3022 deg
Eccentricity:    0.0006159
Arg of perigee:     0.4467 deg
Mean anomaly:     148.9133 deg
Mean motion:   16.04106692 rev/day
Decay rate:    2.22534e-03 rev/day^2
Epoch rev:            196
Checksum:             299

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org
```

---

160. STS-78 No Bulletin

From: pat.kilroy@gsfc.nasa.gov (Pat Kilroy)
Date: Tue, 2 Jul 1996 17:10:55 -0400
To: sarex@amsat.org
Message-ID: <v02130500adff3bbbcaf8@[128.183.24.111]>
Rendered body type: text/plain

```
Tuesday, July 2, 1996

Re: the posting a day or so ago on updating element sets:

According to Gil Carman, WA5NOM, the STS-78 flight vector at about
1100 UTC this morning showed that the actual pass times are running
2.0 seconds later than predictions from element set #913 issued
yesterday, so #913 is still good through today.

For those who are using Gil's TLEs see previous SAREX Bulletin #2 :

>SB SAREX @ AMSAT $STS-78.002
>STS-78 SAREX Mission Begins
>
>Silver Spring, Maryland  USA
>June 20, 1996 @ 20:00 UTC
>...
>At this time, there are no trim burns planned from Rev 4 until the deorbit
>burn, so the Spacelab mission orbit should be fairly stable.  However, this
>is a fairly low altitude flight (146 x 150 n.mi., decaying to 138 x 149 by
>deorbit), so the drag values will be higher than a 190 n.mi. orbit and
```

```
>increasing.  This means that new orbital elements will be sent out no more
>than once a day by the SAREX Working Group.  A day will be skipped if it
>looks like the previous set is still good to within 10 seconds.
>...

Also SAREX Bulletin #15:

>SB SAREX @ AMSAT $STS-78.015
>STS-78 SAREX Update and Keps 15
>
>Silver Spring, Maryland USA
>June 26, 1996 @ 23:00 UTC
>...
>AMSAT member Gil Carman, WA5NOM, reports that it's important on this
>flight to keep updated to the latest elements.  Even though there are
>no orbit adjust burns, the low altitude and the attitude changes
>between tail down and tail forward make the drag variations very
>significant.
>
>For example, element set #909 is 5 seconds later than set #908 now,
>and will be 14 seconds later by this time tomorrow.  Ten seconds is
>about the maximum allowable tracking error for a high elevation
>pass on orbits this low in altitude to keep [the orbiter] in a 35
>degree (e.g., KLM-22C main lobe) antenna pattern.  Of course,
>amateurs who use a lower gain antenna need not be concerned as
>much.
>
>The orbiter is rising EARLIER than earlier element sets predict,
>by a matter of minutes from the prelaunch set.
>


Hope this helps some.  We'll check again tomorrow morning.

Good luck to all,

Pat WD8LAQ
SAREX Volunteer

========================================================================
Patrick L. Kilroy                  Phone:   301-286-5910
TRMM Project Parts Engineer        Fax:     301-286-1695
NASA/Goddard Space Flight Center   E-mail:  pat.kilroy@gsfc.nasa.gov
Building 6, Code 311               WWW URL: http://epims1.gsfc.nasa.gov/
Greenbelt, Maryland  20771                        people/pat_kilroy.html
=========================================================================

..
```

---

161. Re: [APRSSIG:2743] Re: SAREX/APRS reception report

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 23:37:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703233505.7539E-100000@arctic>
Rendered body type: text/plain

```
On Wed, 3 Jul 1996, Richard Amirault wrote:
> On Wed, 3 Jul 1996, Ralph R. Swick wrote:
> > SAREX robot handing out many QSO numbers (I copied #s 907-922).
> > Didn't see the packet fly by on my View screen, but after LOS
> > my Digis page showed, in addition to W5RRR-1
> >
> > N1JDU 030939  FN42LK

APRSdos REPLY COMMENT: This report is confusing.  THe DIGIS page does not
show times. THis is not a packet from the D page. It does not
indicate if the packet was heard direct or via W5RRR-1
Can any one confirm if this was a valid digipeat?
de wb4apr@amsat.org
```

---

162. Re: [APRSSIG:2745] APRS DFjr

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 23:39:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960703233826.7539F-100000@arctic>
Rendered body type: text/plain

```
On Wed, 3 Jul 1996, William Nolle wrote:
```

> I was trying to setup APRS with the DFjr using the MPA and what i was
> wondering it still has the window in the upper right corner asking to move
> the cursor to your qth then press I-M position. Is that going to be there
> all the time even when running mobil?, or did i do something wrong. I

APRSdos REPLY COMMENT: It will be there until you get a POSIT, OR until you restart the program. Once you re-start APRS it will go away.

de wb4apr@amsat.org

---

163. Re: [APRSSIG:2686] Re: Signal level from Shuttle?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 3 Jul 1996 22:36:48 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607040336.WAA02349@solar.cs.tamu.edu>
Rendered body type: text/plain

OK, OK... I *can* see the humopr, but I just gotta respond :-)

Mark L. Bary sez:
>
> Except when the Shuttle is on it's back! Then the antenna is pointed
> down and forward.

Which turns out to be a pretty near optimal orientation for RF emmissions toward the earth.

The antenna's patern is best described as a torus of nearly unity gain at the maximal widths of the torus, with a half-cone angle of about 85 degrees and a half-cone of virtual exclusion of about 5 degrees. This ignores the angle of takeoff of the torus of about 7.5 degrees at the feedpoint, generally caused by its cavity nature. Oh, yes... This sounds an awful lot like a 1/4 wave ground plane.

> My understanding is that much of the time the shuttle is _normally_ on
> it's back with the payload bay looking down at the Earth; this mission
> has it "right side up" more often than other missions. Another source
> says this mission has the Shuttle "swapping ends" more often than in
> other missions too (i.e. sometimes the nose is pointing in the direction
> of flight, sometimes the tail).

One-wng-low is not unusual for missions with significant pointing requirements. One of our nightmares earlier in the program was trying to determine attitudes from the Attitude TimeLine (ATL) before the FAO folks started helping with that. WA5NOM and I spent a lot fo modelling and database time attempting to determine the best window for ops. And for those of you who understand the Right Hand Rule of spacecraft attitudes, more'n once, Gil and I really could have used splints after a long ATL interpretation session.

> Now, if they just had a good mag mount..... or how about an EVA to attach
> one of those thru the glass antennas?! Let's see, at about $50 per
> antenna mount, I think they could affort to let it burn up during
> reentry. And if it didn't, think of the advertisement campaign a company
> could mount!! Hmmm. But of course NASA wouldn't pay off-the-shelf
> prices, so I guess it would run them about $1,500 per antenna. Well, at
> that rate they might have to ask everybody to send in a "green stamp" for
> the QSL card...

the glass is too thick! We investigated the Thru-the-Glass technology a couple of years ago several times, to make sure we didn't miss something. It *can* be done, but it's more efficient to send the AF out by laser, decode taht and then transmit it. Oh, and we considered THAT once too.

The most promising option, IF they were'nt winding down the Spacelab module program, is to use a SAFEX-like antenna on the aft endcone vent plate, and incorporate that as a programmatic engineering change. Then, it's normally there, but if someone has a requirement for that vent plate, it's an added cost and impact to the design for them to use it!

Oh, yes... nothing magnetic to stick the mag-mount to.... darn it!

> Please flame me direct if you didn't see the attempt at humor in the
> above paragraph.... 8-)
OK!

Gerry

---

164. APRS Sarex report (12)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 3 Jul 1996 23:58:51 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960703122959.23519G-100000-100000@arctic>
Rendered body type: text/plain

More data came in for 3 July so here it is again updated. Packets really popping this morning! (3 July). Apparently the new shuttle orientation since midday yesterday has improved performance. Overall packet statistics were improved by todays passes giving us 14 days of SAREX activity, 17 voice passes and 19 packet passes. There are now 25 passes with no activity (not counting the 5 on 22nd and any SCHOOL passes).

Eight APRS stations have been successful (20 pkts). Email shows that seven APRS stations are trying every pass: WA8INZ,WB6LLO,KB0UZQ,KD4EMI N2THO,WB4APR,KC5EJK. Other stations catching passes when they can are N3MNT,N3IVO,N8EDU,AD4BL,N2QAE,WA1LOU,KC7CO,N1CPE,WB5QLD,K1HJC,KE6AFE,KU0G WB4LTF,N5RKN,KC4NHB,AB5GE,KG0DW,KD1SM,N1JDU,KF4DYS,KK6IB,N6HNY. Comparing our success rate 20 pkts (for 29 people) to 1100 QSO#s could imply 1700 packet stations worldwide trying conventional SAREX, all things being equal. That sounds about right? If you have other data or are not listed, pse report.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAY
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass (Any reports of activity?)
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z QSO#586. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#672. KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30  0720  1120z QSO#729.
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD working Michigan
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
02  0422  0822z no packets detected in MD
02  0540  0940z no packets detected in MD
02  0722  1122z no packets detected in MD
02  0842  1242z nothing
02        1413z Voice full quieting over Utah
02        1547z nothing heard in MD. But following heard in Florida
               WA8INZ>W5RRR-1*>EM64SX:@021000/3458.49N/08629.87WyBills Laptop
               WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76
02        1726z nothing heard (weak packets heard in Utah and Honduras)
```

```
03  0530  0930z KB0UZQ gets 3rd CONGRATS (still waiting for confirmation)
03  0534  0934a 21 pkts hrd in Dallas, 26 in MD.  QSO#893-914. And 2 APRS
                KC5EJK>W5RRR-1*>APRS:[EM12OU]
                N1JDU>W5RRR-1?>FN42LK (not confirmed via RRR-1 yet)
                KD1SM got a congrats!  (Anyone get a copy?)
03  0707  1107z 6 Pkts heard in MD.  QSO#971-975
                KG0DW got a congrats!  (Anyone get a copy?)
                KB0UZQ>EM22QJ,W5RRR-1*:
03  0838  1238z 39 pkts heard in Dallas, 3 in MD, 34 in FL.  QSO#1010-1035
          1238z WB6LLO 030540 /261214/3247.03N/11711.35WSdm12js0
                Above rcvd twice by KK6IB only 30 mi away. Suspect Direct?
          1238z N6HNY>DM04RK,W5RRR-1*:DM04RK
                KC5EJK>W5RRR-1*>APRS:[EM12OU]
          1244z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d
          1247z WB4LTF>W5RRR-1*>EL98IP:Casselberry Fl
03  1020  1420z Weak voice (canadian) heard in MD for 1st half of pass
03        1550z KO4HD reports carrier bursts near end but no audio
03        1720z out of view of east coast
```

Still need someone who saw KE6AFE and WB6LLO APRS packets.
I still have three passes unaccounted for.. If you have raw data to fill in or correct entries above, please send them to me. I would also like to get the QSO#'s for every packet pass. (stupid me, was not in auto mode for todays sleeptime passes (tho I was up till 0230 making a rush map of Fon Du Lak wisconsin!)

de wb4apr@amsat.org

165. STS-78 Rev 212 Orbital Data

From: Ken Ernandes <kene@fairchild.lmco.com>
Date: Wed, 03 Jul 1996 15:45:49 -0400
To: sarex@amsat.org
Message-ID: <m0ubXrS-003E53C@fairchild.lmco.com>
Rendered body type: text/plain

STS-78 ORBITAL DATA

Below is the current State Vector and Keplerian Elements for STS-78. The vector data comes from NASA; the orbital parameters were computed from the vector. Hourly vector updates are available from NASA GSFC OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov (UserID = oig / Password = goddard1).

```
Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96185.79263657407
                        07/03/1996  19:01:23.799 UTC
EFG E:                           -7073087 ft
    F:                          -20595669 ft
    G:                             951611 ft
    Edot:                        16957.19 ft/s
    Fdot:                        -6584.72 ft/s
    Gdot:                       -15968.89 ft/s
ndot/2 (drag):              0.00221036406 rev/day^2
nddt/6:                       2.03162E-07 rev/day^3
Bstar:                        3.19594E-04 1/Earth Radii
Elset #:                               45
Rev @ Epoch:              212.48868163110
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this vector using a 3.3 drag multiplier:

```
STS-78
1 23931U 96036A   96185.79263657  .00221036  20316-6  31959-3 0   450
2 23931  39.0119 281.5668 0005956   9.0094 166.9158 16.04199967  2129
```

```
Satellite: STS-78
Catalog number: 23931
Epoch time:      96185.79263657
Element set:      45
Inclination:       39.0119 deg
RA of node:       281.5668 deg
Eccentricity:    0.0005956
Arg of perigee:     9.0094 deg
Mean anomaly:     166.9158 deg
Mean motion:   16.04199967 rev/day
```

```
Decay rate:    2.21036e-03 rev/day^2
Epoch rev:             212
Checksum:              336

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org
```

---

166. Re: [APRSSIG:2746] Re: Signal level from Shuttle?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 00:06:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704000238.7539K-100000@arctic>
Rendered body type: text/plain

```
On Wed, 3 Jul 1996, Gerald J Creager wrote:

> Except that, neither W1 nor W6 are facing earth.  they are the aft-most
> windows in the forward flight deck.

APRSdos REPLY COMMENT: Ger, this is still meaningless to me.  There are
two windows forward, and two to the sides of the "windshield" areent there?
Then there are two little windows that are the aft-most looking into the
payload bay.  Which ones are you talking about as being the aft most?

Most of us dont know where the "forward flight deck" ends and what ever
else begins.

Are these two windows the ones facing mostly sideways?  Put the answer in
laymans terms relative to the most casual observer, hi hi  Thanks.


de wb4apr@amsat.org
```

---

167. Hurricane posit extractor

From: KSwaggart@aol.com
Date: Thu, 4 Jul 1996 00:44:43 -0400
To: aprssig@tapr.org
Message-ID: <960704004443_230802822@emout10.mail.aol.com>
Rendered body type: text/plain

```
Hi APRSers!

I've uploaded WXHURR1.ZIP and .TXT to tapr/SIG/aprssig/files/upload

This APRS utility reads the marine tropical storm warnings from the National
Hurricane Center and creates an APRS backup file, which can then be loaded
into APRS. It plots both the storms position and max radius of storm winds
and the projected track. It is based on WB4APR's NWSPARSE.BAS, but highly
modified.

The executable and source code are included, as well as some short
instructions with the Internet address to retrieve the warnings. Also, I
included one of the Boris warnings so you can see how it works.

It was debugged on TS Boris warnings. Boris hit the west coast of Mexico last
weekend.

If there are any minor changes to the marine tropical advisory format, it
will have to be modified - I tried to cover all the situations I've seen so
far.

Hope this is of some use this Hurricane season.

73, Ken, W7KKE
kswaggart@aol.com
```

---

168. Darn the luck.

From: "David W. McNeil" <ki5vm@flash.net>
Date: Thu, 04 Jul 1996 00:15:30 -0500
To: aprssig@tapr.org
Message-ID: <31DB5372.55FF@flash.net>
Rendered body type: text/plain

```
Missed again. This time had interferance from KI5EX and KA5GAC, a couple
of local packeteers who decided to hold a QSO on the SAREX freq. during
```

```
the pass.
```

---

169. Re: [APRSSIG:2746] Re: Signal level from Shuttle?

```
From: ku0g@sprynet.com
Date: Thu, 4 Jul 1996 02:58:45 -0700
To: aprssig@tapr.org
Message-ID: <199607040958.CAA28810@m1.sprynet.com>
Rendered body type: text/plain
```

```
On Wed, 3 Jul 1996, Gerald J Creager <gerry@cs.tamu.edu> wrote:
>ku0g@sprynet.com sez:
>>
>> Just a note....From NASA Select TV (Satellite S2, Xpndr 9), Columbia is now
in
>> the normal payload bay-to-earth configuration.  This means that the entire
upper
>> surface of the spacecraft is facing ground.  Hopefully signals will now be
much
>> stronger!  Get ready for the full-quiet signals!
>
>Except that, neither W1 nor W6 are facing earth.  they are the aft-most
>windows in the forward flight deck.

Ya, BUT at least the windows ARE on the EARTH side of the spacecraft in a
leading position to the path of the orbit. This places the antenna perpendicular
to the surface of the earth with the best radiation pattern to be in the forward
direction of the orbit.  Stands to reason then that signals will be better on
APPROACH rather than departure...


>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

170. STS-78

```
From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 04 Jul 1996 06:16:59 -0700
To: aprssig@tapr.org
Message-ID: <31DBC44B.7DD1@worldnet.att.net>
Rendered body type: text/plain
```

```
Well i made the 3th pass for this morning and seen many confermations but
i still can't save them or even look at them once i hit the spacebar. I
did get two CONGRATS messages and something i didn't notice before the
upper right window said Mode is set to success. Also there was a message
in one of the STS-78 beacons wishing everyone a happy 4th of July. i
heard STS-78 24 times on thes pass.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

171. Re: [APRSSIG:2751] SAREX/APRS reception report

```
From: "Ralph R. Swick" <kd1sm@zipnet.net>
Date: Thu,  4 Jul 96 08:03:05 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.4.01.960704080816.Ralph@swick.zipnet.net>
Rendered body type: text/plain
```

```
Wed, 3 Jul 1996 22:50:26 -0500 (CDT) Bob Bruninga <bruninga@nadn.navy.mil>:

    > > N1JDU 030939  FN42LK

    APRSdos REPLY COMMENT: This report is confusing.  THe DIGIS page does not
    show times.

You are right.  Earlier today I sent you a full report showing
exactly what's on my Latest beacons page.  It verifies the
reception of N1JDU's report via W5RRR-1.  I apologize for
trying to use an abbreviated format for my initial reception
report.  I'll transcribe more clearly next time.

(And I confirm N1JDU's previous report of hearing the digipeat of
WB4LTF EL98IP at 1246z yesterday, as I also included to Bob in
this morning's mail.)
```

-Ralph kd1sm
kd1sm@zipnet.net

---

172. Remote U-II and KPC-3

From: Kt4ll@aol.com
Date: Thu, 4 Jul 1996 08:15:41 -0400
To: aprssig@tapr.org
Message-ID: <960704081540_348608137@emout08.mail.aol.com>
Rendered body type: text/plain

We are putting up remote wx stations using the U-II and KPC-3's. What is needed to connect the tnc to the wx station? Is the pc data logging cable that Pete Bros. sells the proper cable for the job? Or is something else needed???

Thanks...

kt4ll

---

173. RE: APRS SAREX RPT 12

From: james.mollica@compudata.com (JAMES MOLLICA)
Date: Thu, 04 Jul 96 06:36:00 -0400
To: APRSSIG@tapr.org
Message-ID: <8C3D18C.01F401D47C.uuout@compudata.com>
Rendered body type: text/plain

```
BB>03  0534  0934a 21 pkts hrd in Dallas, 26 in MD.  QSO#893-914. And 2 APRS
  >                KC5EJK>W5RRR-1*>APRS:[EM12OU]
  >                N1JDU>W5RRR-1?>FN42LK (not confirmed via RRR-1 yet)
  >                KD1SM got a congrats!  (Anyone get a copy?)
  >03  0707  1107z 6 Pkts heard in MD.  QSO#971-975
  >                KG0DW got a congrats!  (Anyone get a copy?)
  >                KB0UZQ>EM22QJ,W5RRR-1*:

>From BL030713.LOG  (7-3-96 7:13a Eastern)

W5RRR-1*>QST <I;0,3>:
W5RRR-1*>KA1DLK <I;0,0>:#975-is your STS-78 SAREX QSO number.
W5RRR-1*>SAREX <UI>:#973-is your STS-78 SAREX QSO number.
W5RRR-1*>SAREX <UI>:#975-is your STS-78 SAREX QSO number.
W5RRR-1*>N2SFY <I;0,0>:#977-is your STS-78 SAREX QSO number.
W5RRR-1*>N1RIJ <DM,F>
W5RRR-1*>N2ZHY <UA,F>
KD1SM>W5RRR-1*>FN42DO <UI>:APRS 0.5 on line.
W5RRR-1*>N2ZHY <I;0,0>:#978-is your STS-78 SAREX QSO number.
W5RRR-1*>SAREX <UI>:This is STS-78 SAREX Robot station W5RRR-1
onboard the Space Shuttle Columbia.
W5RRR-1*>N1JEZ <I;0,0>:#979-is your STS-78 SAREX QSO number.
W5RRR-1*>N2SFY <I;0,0>:#977-is your STS-78 SAREX QSO number.
W5RRR-1*>N2ZHY <I;0,0>:#978-is your STS-78 SAREX QSO number.
W5RRR-1*>N1JEZ <I;0,0>:#979-is your STS-78 SAREX QSO number.
▯
```

Sure would like to have control over the xmit timer feature when in SPACE mode in APRTRAK.06. Its a good idea if all other stations trying to uplink used Aprtrak but a major disadvantage going up against users with terminal pgms and tncs set very aggressive. Good feature for unattended operation in AUTO-SPACE mode.

* 1st 2.00 #1439 * N2NRD @ AMSAT.ORG

---

174. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Thu, 04 Jul 1996 06:53:23 -0600
To: aprssig@tapr.org
Message-ID: <31DBBEC3.244@slkc.uswest.net>
Rendered body type: text/plain

041230Z Pass

Columbia on voice over Utah this pass, full quieting.

Doug
KC7CO

---

175. Re: [APRSSIG:2760] STS-78

From: steve <steve@muskoka.com>
Date: Thu, 04 Jul 1996 08:55:16 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960704125516.0067d984@muskoka.com>
Rendered body type: text/plain

```
At 06:18 7/4/96 -0500, you wrote:
>Well i made the 3th pass for this morning and seen many confermations but
>i still can't save them or even look at them once i hit the spacebar. I
>did get two CONGRATS messages and something i didn't notice before the
>upper right window said Mode is set to success. Also there was a message
>in one of the STS-78 beacons wishing everyone a happy 4th of July. i
>heard STS-78 24 times on thes pass.
>--
>Bill WA8INZ
>ke4eer@worldnet.att.net
>ke4eer@amsat.org
>
>
Hi All,

Well I finally downloaded aprtrak6 last night and fired it up. I set my
kenwood up
on the right offset. When I got up this am there were two confirms on my screen.

w5rrr-1>wd4kpg:#1170-is your STS-78 SAREX QSO number

w5rrr-1>n4mio:#1171-is your STS-78 SAREX QSO number

I also heard some voice above our hydro line noise here. I figured that is
prety good for our location way up here in the Muskoka's of Ontario, Canada...

Best of luck everyone...et 73


Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS
Int: steve@muskoka.com
```

---

176. SAREX

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 4 Jul 1996 07:59:01 PST
To: aprssig@tapr.org
Message-ID: <19960704.075906.2614.1.ad4bl@juno.com>
Rendered body type: text/plain

```
Heard from this location   Panama City FL  [ 3013.81n   08540.35w]

1100Z   W9HAD  SAREX QSO # 1169
1100Z   N4MIO     SAREX QSO # 1171
1100Z   NOCALL  SAREX  QSO # 1172
1101Z   W2RS      SAREX    QSO#  1173


Pass at 1236 Z was a voice pass at this location

Linda  AD4BL
24hr tracking using APRS 7.6d
```

---

177. SAREX more

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 4 Jul 1996 08:23:17 PST
To: aprssig@tapr.org
Message-ID: <19960704.082318.2614.2.ad4bl@juno.com>
Rendered body type: text/plain

```
On 1024Z  pass   I copied Sarex QSO  confirmation #'s  1108-1118 with the
exception of 1114

On 1158Z pass  I copied Sarex QSO  confirmation #'s  1158-1173 with the
exception of
1170

I have WA8INZ on my map at 1200Z   Position list shows him being
digipeated by W5RRR-1  but have no way of confirming QSO #

Linda AD4BL
```

178. Re: [APRSSIG:2763] RE: APRS SAREX RPT 12

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 10:04:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704095953.12724F-100000@arctic>
Rendered body type: text/plain

```
On Thu, 4 Jul 1996, JAMES MOLLICA wrote:
> 
>  Sure would like to have control over the xmit timer feature
>  when in SPACE mode in APRTRAK.06.

APRSdos REPLY COMMENT:  There are 3 ways to control your TRANSMISSION
using APRS or APRtrak:

1) If in SPACE (or AUTOspace for 0.6) then your BEACON timer will be
reset as soon as your station hears the 1st packet *FROM* W5RRR-1

2) You may force your BEACON at any time by hitting the XMT-BEACON cmd

3) You can also reset your own BEACON timer by re-entering your BEACON.
Simply hit alt-B and type your very brief BText again.

For SAREX all we want are BEACONS, since they contain your GRID Square
posit in the shortest possible format..

de wb4apr@amsat.org
```

---

179. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Thu, 04 Jul 1996 08:14:03 -0600
To: aprssig@tapr.org
Message-ID: <31DBD1AB.24BE@slkc.uswest.net>
Rendered body type: text/plain

```
041404Z Pass

Columbia (VA3CSA) on voice - full quieting this pass

Doug
KC7CO
```

---

180. Re: [APRSSIG:2767] SAREX more

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 10:15:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704101314.12724G@arctic>
Rendered body type: text/plain

```
On Thu, 4 Jul 1996, Linda G Mullen wrote:

> I have WA8INZ on my map at 1200Z   Position list shows him being
> digipeated by W5RRR-1  but have no way of confirming QSO #

APRSdos REPLY COMMENT: Thanks for the report!  If you see someone on your
map, then that is proof of an APRS contact.  If you see QSO#'s, then
those are all of the other stations using conventional CONNECT requests
to the shuttle.  We are only tracking those numbers for curiosity, they
are unrelated to APRS...  Thanks.

de wb4apr@amsat.org
```

---

181. SAREX

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 4 Jul 1996 09:22:57 PST
To: aprssig@tapr.org
Message-ID: <19960704.092258.2614.0.ad4bl@juno.com>
Rendered body type: text/plain

```
At this location  Panama City  FL      3013.81n  08540.35w

Voice pass at  1414-1418z

Linda AD4BL
```

---

182. Re: [APRSSIG:2767] SAREX more

From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 04 Jul 1996 09:45:23 -0700

To: aprssig@tapr.org
Message-ID: <31DBF523.1EFA@worldnet.att.net>
Rendered body type: text/plain

Linda G Mullen wrote:

> On 1024Z pass I copied Sarex QSO confirmation #'s 1108-1118 with the
> exception of 1114
>
> On 1158Z pass I copied Sarex QSO confirmation #'s 1158-1173 with the
> exception of
> 1170
>
> I have WA8INZ on my map at 1200Z Position list shows him being
> digipeated by W5RRR-1 but have no way of confirming QSO #
>
> Linda AD4BL

Thanks Linda the QSO number was 1183
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

183. APRS Sarex report (13)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 11:23:37 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960704102028.12724I@arctic>
Rendered body type: text/plain

Great day for packet on the 4th of july! Overall packet statistics were improved by todays passes giving us 15 days of SAREX activity, 18 voice passes and 22 packet passes. There are now 25 passes with no activity (not counting the 5 on 22nd and any SCHOOL passes).

Ten APRS stations have been successful (37 pkts). Email shows that eight APRS stations are trying every pass: WA8INZ,WB6LLO,KB0UZQ,KD4EMI N2THO,WB4APR,KC5EJK,AD4BL. Other stations doing passes when they can are N3MNT,N3IVO,N8EDU,AD4BL,N2QAE,WA1LOU,KC7CO,N1CPE,WB5QLD,K1HJC,KE6AFE,KU0G WB4LTF,N5RKN,KC4NHB,AB5GE,KG0DW,KD1SM,N1JDU,KF4DYS,KK6IB,N6HNY,WA4HEI. Comparing our success rate 37 pkts (for 30 people) to 1170 QSO#s could imply a lower bound of 1500 or upper bound of 3500 packet stations worldwide trying conventional SAREX, all things being equal. Does that sound about right? If you have other data or are not listed, pse report.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAY
24  1530  1930z nothing heard on next 3 passes
25  1045  1445z I missed the pass (Any reports of activity?)
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Houston & East. QSO#'s 104 to 130
          1313? K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line    *** First POSIT
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z QSO#586. KE6AFE Posit reported? (someone send me a copy)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
```

```
          1920z Voice reported in Honduras
30  0545  0945z QSO#672. KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30  0720  1120z QSO#729.
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD working Michigan
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
02  0422  0822z no packets detected in MD
02  0540  0940z no packets detected in MD
02  0722  1122z no packets detected in MD
02  0842  1242z nothing
02        1413z Voice full quieting over Utah
02        1547z nothing heard in MD. But following heard in Florida
               WA8INZ>W5RRR-1*>EM64SX:@021000/3458.49N/08629.87WyBills Laptop
               WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76
          1726z nothing heard (weak packets heard in Utah and Honduras)
03  0532  0932a 21 pkts hrd in Dallas, 26 in MD.  QSO#893-914. And 2 APRS
          0932z KB0UZQ>W5RRR-1*>EM29QJ:         (four)
          0932z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          0933z KG0DW>W5RRR-1*>EN31CO:Hello Columbia from Steve in Des Moines
          0937z N1JDU>W5RRR-1*>FN42LK:APRS 0.5 on line (two)
          0937z KD1SM>W5RRR-1*>FN42DO:APRS 0.5 on line (two)
03  0707  1107z 6 Pkts heard in MD.  QSO#971-975
          11??z KG0DW got a congrats!  (Anyone get a copy?)
          1111z KD1SM>W5RRR-1*>FN42DO:APRS 0.5 on line
          11??z KB0UZQ>EM22QJ,W5RRR-1*:
03  0838  1238z 39 pkts heard in Dallas, 3 in MD, 34 in FL.  QSO#1010-1035
          1238z WB6LLO 030540 /261214/3247.03N/11711.35WSdm12js0 (three!)
          1238z N6HNY>DM04RK,W5RRR-1*:DM04RK
          12??z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          1244z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d  (two)
          1247z WB4LTF>W5RRR-1*>EL98IP:Casselberry Fl              (six)
03  1020  1420z Weak voice (canadian) heard in MD for 1st half of pass
03        1550z KO4HD reports carrier bursts near end but no audio
03        1720z out of view of east coast
04  0355  0755z N4ZQ>W5RRR-1*>QST:CQ this is radio N4ZQ, Keith in Florida
04  0530  0930z QSO#s1108-1118
          0930z WB4LTF>W5RRR-1*>EL98IP:Casselberry FL              (eight)
          0933z WA4HEI>W5RRR-1*>EN65UX:@EN65ux]^C2
04  0700  1100z QSO#s1158-1173
          1103z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          1103z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d  (five)
          1105z AD4BL>w5RRR-1*>EM70DF:AD4BL EM70
          1105z WA4HEI>W5RRR-1*>EN65UX:@EN65ux]^C2
04  0834  1235z Nothing heard in MD (but Im suspect my ant is marginal)
04  1000  1400z Heard carrier bursts with doppler, but no voice?
```

Still need someone who saw KE6AFE APRS packets back on the 29th.
I still have three passes unaccounted for.. If you have raw data to fill
in or correct entries above, please send them to me. I also like to get
the QSO#'s for every packet pass (just 1st and last # pse)

SOAPBOX: OK, we are finally getting some good data, but we need to keep our
excitement limited to only the minimum necessary to accomplish the
goal... That is: A position and status on the APRtrak map.

1) there is no need to hit more than one POSIT per pass (maybe 2, one at
beginning and one at end to cover both geographical areas of the pass).

2) Text that includes your city, location, grid square, or callsign is
just wasted channel capacity since the APRtrak format already includes
ALL of that! Of all the status TEXT seen above, the only "info" that
does not fall into that category is your name. hi hi

Im not trying to dictate what your "status" is, but just suggesting that
you omit redundant info..

There will be 3 more passes today for the west coast, but I am sending
this out now, since I will be busy the rest of the day.

de wb4apr@amsat.org

184. Re: [APRSSIG:2771] SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 11:28:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704112725.12724J@arctic>
Rendered body type: text/plain

```
On Thu, 4 Jul 1996, Linda G Mullen wrote:

> At this location  Panama City  FL      3013.81n  08540.35w
>
> Voice pass at  1414-1418z

APRSdos REPLY COMMENT:  I think you are doing your ZULU conversion
wrong.  Your times are an hour off from everyone esles.  If you are in
EDT, then it is 4 hours different.  Thanks

de wb4apr@amsat.org
```

---

185. Re: [APRSSIG:2771] SAREX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 11:30:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704112927.12724L@arctic>
Rendered body type: text/plain

```
On Thu, 4 Jul 1996, Linda G Mullen wrote:

> Voice pass at  1414-1418z

APRSdos REPLY COMMENT: MY APPOLIOGIES to Linda for suggesting she did the
zulu conversion incorectly...  SOmeone else did, and I replied to the
wrong message.

de wb4apr@amsat.org
```

---

186. Re: [APRSSIG:2756] Re: Signal level from Shuttle?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 Jul 1996 10:44:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607041544.KAA05257@solar.cs.tamu.edu>
Rendered body type: text/plain

```
> > Except that, neither W1 nor W6 are facing earth.  they are the aft-most
> > windows in the forward flight deck.
>
> APRSdos REPLY COMMENT: Ger, this is still meaningless to me.  There are
> two windows forward, and two to the sides of the "windshield" areent there?
> Then there are two little windows that are the aft-most looking into the
> payload bay.  Which ones are you talking about as being the aft most?

Sorry.  Once again I messed up by trying to respond when I was too tired to be
coherent.

There are 6 windows on the forward flight deck and 4 on the aft flight deck.
If you are facing the node of the Orbiter, looking at her from the front, the
two "windshield" windows are W3 and W4.  Prime viewing ports, and required to
be open or easily cleared, these are only covered with soft window shades for
crew sleep times.  Immediately to either side of W3 and W4 are W2 (on your
right) and W5 on the left.  These are more at an angle than "head-on."
Proceeding further, the two "side" windows are W1 (on your right) and W6 (on
your left).  Smaller, harder to get to for Earth Obs operations, these are the
2 principle SAREX windows.  The standard antenna mounting plate was designed

to fit these, although the W7-W8 overhead windows in the aft FD also have a
mounting plate... which is too small for a good ground plane.  Of note: For
STS-35, although the W1 and W6 windows were deemed unusable for photo
opportunities, Ron Parise, WA4SIR, convinced us to put 2 holes in the plate
large enough to shoot a 100mm 35-mm camera lense through in case the need
arose to photograph something "right now, through THAT window."  Proved to be
inspired foresight.  Also, it gave us a good handhold to grab the plate for
emplacement and removal.

> Most of us dont know where the "forward flight deck" ends and what ever
> else begins.

The "forward Flight Deck is the crew area where the activities of piloting the
craft occur. This is where the Pilot (PLT) and Commander (CDR) sit for ascent
and entry, and where on-orbit operation of the thrusters can occur.  The Aft
```

Flight Deck is the operations area for On-Orbit operations of experiments, data recorders, the Arm, and the like. It's immediately behind the MS seats (three of them are mounted there for ascent and entry), which are detached and stowed for on-orbit operations at the same time the crew are getting out of the Launch and Entry (partial pressure) suits.

> Are these two windows the ones facing mostly sideways? Put the answer in
> laymans terms relative to the most casual observer, hi hi Thanks.

Yes.

For what it's worth, I learned a lot of this the hard way: Asking the guys, when we were doing SAREX training for a number of years. I did a large part of the training, and we decided that a session in the Shuttle trainers at JSC was important. One thing that fell out of that was my opportunity to become better familiar with their terminology of the hardware on the Vehicle. Another was, I forced them to think early on about where they were going to plug everything in... there's limited number of 28-vDC plugs available on the Flight Deck, and even fewer free usually on the Middecd, the lower level of the Orbiter, where the Crew Hatch and Airlock are located. The Middeck is where WA4SIR operated on STS-35, and found it to be less than ideal. The folks tend to like to look out the windows while they're doing General QSO operations, although if they're talking to a school, they frequently put up the shades and try to configure for TV downlink, if it's available in the datastream and timeline. It's also where the wall of lockers housing everything from SAREX equipment to dinner are kept.

Hope this was a little more responsive.

73, gerry

---

187. Re: [APRSSIG:2758] Darn the luck.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 4 Jul 1996 11:00:03 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607041600.LAA05385@solar.cs.tamu.edu>
Rendered body type: text/plain

David W. McNeil sez:
>
> Missed again. This time had interferance from KI5EX and KA5GAC, a couple
> of local packeteers who decided to hold a QSO on the SAREX freq. during
> the pass.

Someone should tactfully tell 'em that the frequency IS allocated for SAREX, but not general Packet activities...

73, gerry

---

188. APRS DOS Shell

From: Les Blalock <lcb911@apex2000.net>
Date: Thu, 4 Jul 1996 11:14:38 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960704111312.10bf4140@apex2000.net>
Rendered body type: text/plain

I finally looked to see why I couldn't shell to DOS from APRS. I use JP Software's 4DOS.COM replacement for COMMAND.COM. (why would anyone use anything else?) Everytime I had tried to shell to DOS, APRS crashed and burned.

For some reason, only COMMAND.COM is recognized so I had to created a batch file to execute ARPS after setting COMSPEC=COMMAND.COM

---

189. STS-78 Rev 223 Orbital Data

From: Ken Ernandes <70511.3107@compuserve.com>
Date: 04 Jul 96 08:47:47 EDT
To: STS TLE List <ststle@spacelink.msfc.nasa.gov>,
Spacelink News <slnews@spacelink.msfc.nasa.gof>,
cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
"\"David H. Ransom\"" <rans7500@spacelink.msfc.nasa.gov>,
SAREX <sarex@amsat.org>,
Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>
Message-ID: <960704124747_70511.3107_IHD70-3@CompuServe.COM>
Rendered body type: text/plain

STS-78 ORBITAL DATA

Below is the current State Vector and Keplerian Elements for STS-78. The vector data comes from NASA; the orbital parameters were computed

from the vector. Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

```
Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96186.50026967593
                        07/04/1996  12:00:23.299 UTC
EFG E:                          -12169259 ft
    F:                           14573422 ft
    G:                          -10690725 ft
    Edot:                       -19943.77 ft/s
    Fdot:                        -9321.94 ft/s
    Gdot:                        10032.09 ft/s
ndot/2 (drag):              0.00225052131 rev/day^2
nddt/6:                       2.10598E-07 rev/day^3
Bstar:                        3.23710E-04 1/Earth Radii
Elset #:                               47
Rev @ Epoch:              223.85797306222
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this
vector using a 3.3 drag multiplier:

```
STS-78
1 23931U 96036A   96186.50026968  .00225052  21060-6  32371-3 0   472
2 23931  39.0142 276.8025 0005281  12.9247 295.9452 16.04293661  2231
```

```
Satellite: STS-78
Catalog number: 23931
Epoch time:      96186.50026968
Element set:      47
Inclination:       39.0142 deg
RA of node:       276.8025 deg
Eccentricity:    0.0005281
Arg of perigee:    12.9247 deg
Mean anomaly:     295.9452 deg
Mean motion:   16.04293661 rev/day
Decay rate:    2.25052e-03 rev/day^2
Epoch rev:             223
Checksum:              304
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

---

190. Sarex

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 4 Jul 1996 11:38:15 PST
To: aprssig@tapr.org
Message-ID: <19960704.120545.2614.2.ad4bl@juno.com>
Rendered body type: text/plain

I copied the following;

```
WA4HEI 040600  > EN65UX,W5RRR-1*:@EN65UX]^C2
```

which would be 1100Z

Linda AD4BL

---

191. Question

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 4 Jul 1996 12:25:49 PST
To: aprssig@tapr.org
Message-ID: <19960704.122550.2614.3.ad4bl@juno.com>
Rendered body type: text/plain

On the SAREX reoprt 13 which I received I noted this entry:

```
04  0700   1100z  QSO#s  1158-1173

1105z  AD4BL>W5RRR-1*>EM70DF:AD4BL EM70
```

Does this mean that my station connected with the Shuttle or was it just

my beacon?
If it was a contact I would like to know what the QSO# was because my
logs don't
have it.
Linda AD4BL

192. Re: [APRSSIG:2781] Question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 14:57:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704145607.16281D@arctic>
Rendered body type: text/plain

```
On Thu, 4 Jul 1996, Linda G Mullen wrote:

> On the SAREX reoprt 13 which I received I noted this entry:
>
> 04  0700   1100z  QSO#s  1158-1173
>            1105z  AD4BL>W5RRR-1*>EM70DF:AD4BL EM70
>
> Does this mean that my station connected with the Shuttle or was it just
> my beacon?

APRSdos REPLY COMMENT: That was your SPACE mode APRS position report.  If
you want to connect with the shttle and get a QSO number. FOrget about
APRS and use your normal packet program whatever it is...


de wb4apr@amsat.org
```

193. KE6AFE (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 15:03:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704150050.16281E-300000@arctic>
Rendered body type: text/plain

```
APRSdos REPLY COMMENT:
We finally got the confirmation of KE6AFE's POSIT.  Thanks to Dave!

But I notice that all of the reports (35) except for TWO are from the
midwest and east coast.  California is active on SAREX arent they? grin

de wb4apr@amsat.org

---------- Forwarded message ----------
Date: Thu, 4 Jul 1996 11:55:35 -0700
From: Dave Guimont <g_daveg@qualcomm.com>
To: wb4apr@amsat.org
Subject: KE6AFE

Hello Bob,
Is this what you need for the ke6afe contact....He's the only one I have
ever seen on my screen...
```

194. my (dismal) APRS/STS-78 overnight report...

From: byoung@qni.com
Date: Thu, 4 Jul 1996 14:29:36 -0500
To: aprssig@tapr.org
Message-ID: <9607041929.AA08003@qni.com>
Rendered body type: text/plain

```
APRS peers,

I copied no activity of any kind from STS-78 at my location in
Smithville, MO (30 miles north ok Kansas City, MO).  We had some
very "pretty" thunder and lightning storms all night, and they
may not have helped...

Bill Young
byoung@qni.com
KB0UZQ
```

195. Re: [APRSSIG:2784] my (dismal) APRS/STS-78 overnight report...

From: ku0g@sprynet.com
Date: Thu, 4 Jul 1996 16:31:22 -0700
To: aprssig@tapr.org
Message-ID: <199607042331.QAA27825@m1.sprynet.com>

Rendered body type: text/plain

Didn't have time to write this earlier today due to a little train-ride outing and a visit to N0LRF's house for more antenna parts....

On the 0930 (CDT) pass I heard voice packets but could not make out what was being said. After seeing that VA3CSA was the operator and knowing his French accent accounts for my failure to understand the content. (that and having gotten up every 90 minutes all night to catch passes starting at 0-dark-hundred...)

Will try again tonight after 0400 UTC....Another sleepless night in Kansas City....Hmmmm....wonder if they'll make a movie about ME?!?!?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

196. Re: GPS-20 and Power supplies

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Jul 1996 22:52:58 -0400 (EDT)
To: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960704224857.19416A-100000@arctic>
Rendered body type: text/plain

Im sharing this with the sig, because Many of us have had this little panic about our boards dying. The thing is, that the power-up-reset circuitry is very picky about how the power is applied. I dont know what the details are, but it appears that the 5 volt supply must be "stiff". FOr battery trackers, you might have a big CAP across the battery to give the stiffness when the ON switch is flipped.

On Thu, 4 Jul 1996, Dr Samuel Guccione wrote:

> Bob, I found that it was the supply. I was operating from a battery and did not check its stiffness. That is when I thought it was not operating correctly. Then I tried one of my power supplies. Guess what! I did not check its stiffness either. Both battery and supply were not stiff enough. I guess I will need two batteries to make my tracker box work.
>
> Thanks for the confirmation of the solution. I was worried about toasting $180 board.

---

197. APRS Sarex FILLS needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jul 1996 00:01:36 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960704231653.19416G-100000@arctic>
Rendered body type: text/plain

This is a SHORT list showing only the passes for which MORE information is needed. If you have ANY packets or infomration to contribute about these passes, please submit. THanks! I want to to show the Beginning and Ending QSO# in each pass and list every APRS POSIT detected by anyone...

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
25  1045  1445z I missed the pass (Any reports of activity?)
26  0730  1130z Packet reported from Alabama   (QSO numbers?)
    1010  1610z packets.  QSO#'s 141
26  1356  1756z packets over USA QSO#'s 214
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0900  1300z 27 pkts reported in TX and AL by KB0UZQ and
28        1915z packets heard in Calif. WB6LLO "success"
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30        1906z WB6LLO gets "CONGRATS"  (anyone log it?)
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
02        1547z Packets heard in Florida
          1726z nothing heard (weak packets heard in Utah and Honduras)
03        11??z KG0DW got a congrats!  (Anyone get a copy?)
03        1720z out of view of east coast (any reports?)
```

Again this does NOT show all the GOOD data that we have. THat is in my
other full length report. THis just shows the data we are MISSING.
DIg back through your LOG files if you can contribute any useful info.

PLEASE make your reports clear and concise. 75% of all reports that come
in , I have to send back requests for UTC time, DATE, was the packet
DIGIPEATED by W5rrr-1, etc...

---

198. aprs-fl List Server in Operation

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 4 Jul 1996 23:58:24 -0400
To: aprssig@tapr.org
Message-ID: <199607050358.XAA31822@grumpy.magg.net>
Rendered body type: text/plain

Anyone involved with APRS operations in Florida is encouraged to subscribe to our new mailing list. The reason this mailing list has been formed is that a few of us have found out that several APRS users (meaning a lot) have kept away from the aprssig or have unsubscribed due to the volume of mail and the ammount of mail that did not really pertain to them.

APRS-FL is geared to people wo use APRS in Florida or surrounding states and others that are interested in networking or different areas to the NWS and possibly some of the Caribian Islands. If you are one of thse people please sign up so we can start a more orginized group of users and administrators and keep abreast of everything that is happening in the state. A lot goes on that no one knows about due to the large area that we cover and much of that we can all use for ideas and as a learning tool.

If you know of anyone in the state that has unsubscribed from the aprssig or has never joined please let them know so they are aware of our existance. To sign up do the same as you have done for the aprssig send a message to...

listproc@tapr.org

In the body of the message enter the following>>>

subscribe aprs-fl First Name Last Name   (Of course replace that with your real name! hi hi)

The above listserver does NOT MEAN that EVERYTHING should be posted to aprs-fl but ANYTHING pertaining particulary to our region. Use common sense in deciding if a message should go to aprssig@tapr.org or aprs-fl@tapr.org. The APRS Sig still has one of the largest and most knowledgeable group of people that I know of and should be seriously considered for general APRS questions and problems. Remember if aprs-fl get's crazy with mail that is not on topic, whoever we attract that had been on the aprssig but signed off for the same reason will probably do the same. We need to have everyone possible stay in touch somehow so we can get some semblance of orginization together. Our numbers are growing every day now but most areas do not know what the other ones are doing!

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

199. Re: [APRSSIG:2787] APRS Sarex FILLS needed

From: byoung@qni.com
Date: Thu, 4 Jul 1996 23:43:12 -0500
To: aprssig@tapr.org
Message-ID: <9607050443.AA00241@qni.com>
Rendered body type: text/plain

Bob and the group,

Regarding the following line from the "short list":
>28 0900 1300z 27 pkts reported in TX and AL by KB0UZQ and
My QTH is MO, *NOT* TX. (not that I don't like Texas mind you!)

I'm checking my logs against the list, and I'll see what I've got...

Bill Young
byoung@qni.com
KB0UZQ

200. Re: [APRSSIG:2787] APRS Sarex FILLS needed

```
From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 04 Jul 1996 23:44:40 -0700
To: aprssig@tapr.org
Message-ID: <31DCB9D8.5B49@worldnet.att.net>
Rendered body type: text/plain
```

```
Bob Bruninga wrote:
>
> PLEASE make your reports clear and concise.  75% of all reports that come
> in , I have to send back requests for UTC time, DATE, was the packet
> DIGIPEATED by W5rrr-1, etc...

Bob am i doing something wrong or is that a quirck with APRS but there's no way
i have found that i can save any of the beacons i get, and there where many
that i can save. I looked in the .BK .LOG files and all that's there is one, my
own.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

201. W9ZMR-9 Anyone seen in last month?

```
From: Ron Malinowski <weather@xnet.com>
Date: Thu, 4 Jul 1996 23:50:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607050450.XAA00671@flood.xnet.com>
Rendered body type: text/plain
```

```
Just a question or survey, a neighbor of mine who just recently put together
a tracker for his vehicle for a trip from Chicago, to Dallas, to Phoenix,
and onto Los Anegeles, Seattle and Yellowstone and back to Chicago in 32
days, I am wondering if anyone can recall seeing his station, the reason
were asking is he didnt show up in the network very well, locally, running
only 5 watts and quarte-wave, we are tring to determine if the setup works,
I know there are many people in areas that dont have gates and that is why
anyone can recall a -9 station mobile reporting 15 minutes, please let me
know Privately weather@xnet.com

Thanks
```

---

202. A fix for WINWAIL users

```
From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 5 Jul 1996 00:10:36 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ae02511c0992@[199.1.11.133]>
Rendered body type: text/plain
```

```
A bug in the Microsoft Exchange Mailer
OR that Damn extra garbage at the end of a message and unreadable
attachments.  AND HOW it FIX it !!!!!

--   INFO From  MACWAY Digest ---

I just had to forward this post which came via a listserv discussion
group, from the list owner, to all the Windows 95 users on the list.

************************************************************************
Thought it might be time to take up some bandwidth with a note to the
WIN95 users on the list. Believe me, this will benefit all of the
subscribers to this list, especially the people on Digest. The
attachment, or some people see it as long uuencoding at the end of the
post, is from a bug in the Microsoft Exchange Mailer in Win95. You will
not see the problem but you will hear about it as it causes major
problems on other mailers.

Exchange uses MIME with it's "RICH TEXT" to compose messages with
different colors and fonts. Blue is the default color when it composes
new messages. Exchange sometimes decides to START telling the whole world
this MUST be read as blue when it sends it out.Turning off the color
doesn't help, it then sends out uuencoding or an attachment telling
everyone" read this in black". If you have exchange then the posts just
come in OK, not with an attachment. Exchange reads its own encoding just
fine!

It will sometimes also add an = sign and sometimes =20 at the end of each
line.

OK now the fix. First turn off the color,Click on TOOLS, OPTIONS and then
```

on both READ and SEND click on FONT and set the color to auto.Then click OK and Apply.

Next click each of the addresses in your address book and making sure the "rich text" box is not checked. If even one is on it will send them ALL in rich text. Add your own address to the address book with rich text not checked.Check it ON then OFF and click apply.

Next click on TOOLS again,OPTIONS, SERVICES and set it to INTERNET MAIL, if you do not have it add it in. Click on PROPERTIES and in GENERAL click on MESSAGE FORMAT. If MIME is on take it off. Then to get rid of the = signs click on CHARACTER SET and switch ISO 8859-1 to US ASCII. If this one is already set, switch it to the first one and click OK, then go back and switch it again to get it to reset. Click on OK, OK, and apply. When it resets you will get a message that it will not take effect until then next time you open exchange. Close Exchange and reopen it.

How to make sure the cure is working!

Right click on the addresses on incoming messages and YOUR address on your posts that you get back from the lists. Bring up properties,see if rich text comes up checked. If not turn it ON and apply, then OFF and apply. It sometimes takes a couple of trys to get it to reset, So check several times to make sure rich text stays off.

Despite all of this you MUST continue when you use "reply to sender" and "forward to" buttons to highlight and double click on the address on the new message and check properties to make sure rich text is turned off, IT WILL TURN on for these functions with a new address and sometimes even with one that was turned off before .Or use "compose new message" and copy and paste the parts of the post you want.

Not as important, Exchange does not add in quote marks ( ) and some people get testy about that. If you want them you can go to this web sight and get a program to add to exchange that will put them in when asked. It still doesn't do it automaticly but is a lot eaisier than putting them in one at a time.The web sight also has lots of help for Win95 problems. <http://www.creativelement.com/win95ann/win95ann5.html#13>

****

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

203. Re: [APRSSIG:2736] Re: DFjr Card

From: Paul Christenson <christen@codger.physics.duq.edu>
Date: Fri, 05 Jul 1996 01:26:17 -0400
To: aprssig@tapr.org
Message-ID: <31DCA778.6A1A@codger.physics.duq.edu>
Rendered body type: text/plain

> > Bill, I noticed you used a comma (I think) for the Increment degree value,

> Yes Joe i was aware of that but CorelDraw does not have a symbol for that, or at
> least i haven't found it hi.

It's a standard Windows symbol. It's <Alt>-0176, which means hold down the Alt key, and type 0176 on the numeric keypad. (It does need the leading zero for some reason.)

---

204. Re: SHOWTIME/GPS-20

From: Antonio Fernandez <100341.640@CompuServe.COM>
Date: 05 Jul 96 03:29:07 EDT
To: "\"Charles E. Heisler\"" <cheisler@cyberia.com>
Cc: APRS SIG <aprssig@tapr.org>
Message-ID: <960705072907_100341.640_EHQ33-1@CompuServe.COM>
Rendered body type: text/plain

Hi Charlie,

TNX for the msg.

>   I have my GPS-20 serial port (pin 4) working into the
>computer. (I can see the NMEA data). I have pin 3 tied to the
>DCD line. I do NOT   have the RX1 pin 5 connected. DO I NEED PIN
>5?

This is my setup:

```
GPS-20         DB-9(RS232)
```

```
pin#            pin#
3 PPS <---------> 1
4 TXD1<---------> 2
5 RXD1<---------> 3
8 GND <---------> 5
10 +5VDC
```

One important observation!!! in my GPS-20 it seems there is
no 1PPS signal before the receiver is fixed, so TAC will not
work till the receiver has fixed. This is a problem if you
power-up the receiver and inmediately want to run Showtime.
I use another program (WinGPS) to check that the GPS is fixed
and reporting a position, then I start Showtime.

A question for the SIG.

Garmin communication program ver A.01.06.04 does not communicate
with my GPS-20, it cannot ident the GPS-20. Any clues?

> I have also down loaded the SHOWTIME distribution (I
>forget what he called it but it is ver.3.30) and a setup D: to
>unzip it to my D drive. I sean to have all the directories and
>files as described in one of the READMEs.

Check that you are using the garmin.gps file instead the
showtime.gps, the later defaults to Motorola receivers.

Hope this helps,

Best 73 de Toni, ea4le

---

205. Re: [APRSSIG:2793] Re: DFjr Card

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 05 Jul 1996 03:13:32 -0700
To: aprssig@tapr.org
Message-ID: <31DCEACC.7A85@worldnet.att.net>
Rendered body type: text/plain

Paul Christenson wrote:
>
> > > Bill, I noticed you used a comma (I think) for the Increment degree value,
>
> It's a standard Windows symbol. It's <Alt>-0176, which means hold down
> the Alt key, and type 0176 on the numeric keypad. (It does need the
> leading zero for some reason.)

Ok Paul thanks, i already fixed the problem. What i did is just drew a circle
within CorelDraw that i should have done in the first place, but that's good to
know anyway. Thanks again.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

206. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 05 Jul 1996 03:18:57 -0700
To: aprssig@tapr.org
Message-ID: <31DCEC11.933@worldnet.att.net>
Rendered body type: text/plain

Well on the pass at 02:47:48 CD time it was packet but of a very short
duration but i did get a CONGATS!, Did you see it Bob i said hello to you
Hi. I also seen the following N8IGJ #1256 and N1UZN # 1258 and several
others that scrolled by to fast for me to jot down and since APRS doesn't
save any of the info there's no telling who they where.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

207. STS-78

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 05 Jul 1996 04:40:33 -0700
To: aprssig@tapr.org
Message-ID: <31DCFF31.3D36@worldnet.att.net>

Rendered body type: text/plain

```
Again at 04:21:48 CD another packet pass but very very weak here in North
Alabama, unlike the pass before this one. I couldn't get a Congats! on
this one. I did see the following:

W8ZCF #1291  Is your STS-78 SAREX QSO NUMBER
WB4FIN #1288  Is your STS-78 SAREX QSO NUMBER
N2UME #1290   Is your STS-78 SAREX QSO NUMBER
KD4ISM #1292  Is your STS-78 SAREX QSO NUMBER
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

208. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Fri, 05 Jul 1996 05:02:05 -0600
To: aprssig@tapr.org
Message-ID: <31DCF62D.7C25@slkc.uswest.net>
Rendered body type: text/plain

```
051058 Pass

After nearly a week of trying -

Success on this pass!!!

No QSO #'s logged, but I did get a packet digi'd - now, can anyone
confirm it?

:-)

Doug
KC7CO
Radio Free Utah
```

---

209. Reply to SHOWTIME/GPS-20

From: "David W. McNeil" <ki5vm@flash.net>
Date: Fri, 05 Jul 1996 06:29:04 -0500
To: aprssig@tapr.org
Message-ID: <31DCFC80.8BC@flash.net>
Rendered body type: text/plain

```
Antonio Fernandez wrote:
>
> Hi Charlie,
>
> TNX for the msg.
>
> >        I have my GPS-20 serial port (pin 4) working into the
> >computer.  (I can see the NMEA data). I have pin 3 tied to the
> >DCD line. I do NOT   have the RX1 pin 5 connected. DO I NEED PIN
> >5?
>
> This is my setup:
>
> GPS-20          DB-9(RS232)
> pin#            pin#
> 3 PPS <---------> 1
> 4 TXD1<---------> 2
> 5 RXD1<---------> 3
> 8 GND <---------> 5
> 10 +5VDC
>
> One important observation!!! in my GPS-20 it seems there is
> no 1PPS signal before the receiver is fixed, so TAC will not
> work till the receiver has fixed. This is a problem if you
> power-up the receiver and inmediately want to run Showtime.
> I use another program (WinGPS) to check that the GPS is fixed
> and reporting a position, then I start Showtime.
>
> A question for the SIG.
>
> Garmin communication program ver A.01.06.04 does not communicate
> with my GPS-20, it cannot ident the GPS-20. Any clues?
>
> >        I have also down loaded the SHOWTIME distribution (I
> >forget what  he called it but it is ver.3.30) and a setup D: to
> >unzip it to my D drive.  I sean to have all the directories and
> >files as described in one of the  READMEs.
>
> Check that you are using the garmin.gps file instead the
> showtime.gps, the later defaults to Motorola receivers.
>
> Hope this helps,
>
> Best 73 de Toni, ea4le

Toni:
 The Garmin communication program must see the "Garmin" protocol, not
the NEMA outrut string. The assembled units ie. the Garmin 40, garmin45
etc. have this protocol available in the I/O setup.

73 de Dave  KI5VM
ki5vm@flash.net
```

---

210. STS-78

From: steve <steve@muskoka.com>
Date: Fri, 05 Jul 1996 08:18:24 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960705121824.0066d448@muskoka.com>
Rendered body type: text/plain

```
GM All,
The following stn's were successful according to my log.

W5RRR-1>K1RMA: <IO>:#1332-is your STS-78 SAREX QSO number
W5RRR-1>KE4HJV:<IO>:#1330-is your STS-78 SAREX QSO number
W5RRR-1>SAREX:<UI>:#1330-is your  STS-78 SAREX QSO number

I also had CONGRATS!!!  YOUR PACKET WAS DIGIPEATED!! EVERYONE ELSE SHOULD
SEE YOU TOO!
Also at the top of the screen was SUCCESS..

Does this mean I made it ?? (I hope)

Also WB3JNZ and N2NRD appeared on my map..

73.............................
Steve Dubois VA3HOI
CANWARN SPOTTER
APARS & WINAPRS
Int: steve@muskoka.com
```

---

211. sarex

From: ad4bl@juno.com (Linda G Mullen)
Date: Fri, 5 Jul 1996 07:43:04 PST
To: aprssig@tapr.org
Message-ID: <19960705.074306.2614.0.ad4bl@juno.com>
Rendered body type: text/plain

```
VOICE PASS  1235Z    Heard at this location
Confirming contact between W5RRR and KE1DK

Linda AD4BL
```

---

212. RE: [APRSSIG:2792] A fix for WINWAIL users

From: Larry Griffin <largriff@onramp.net>
Date: Fri, 5 Jul 1996 07:52:07 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB6A47.D6ACED20@lub07.onramp.net>
Rendered body type: text/plain

```
----------
From:   Robert Winingham[SMTP:kc5ejk@onramp.net]
Subject:        [APRSSIG:2792] A fix for WINWAIL users

A bug in the Microsoft Exchange Mailer
OR that Damn extra garbage at the end of a message and unreadable
attachments.  AND HOW it FIX it !!!!!

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Cooool!  This message is a test to see if the fixes work!  Please reply to me directly rather than via
the sig.
```

...donning asbestos...

Larry Griffin <largriff@onramp.net> DMEU

---

213. Re: [APRSSIG:2781] Question

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 5 Jul 1996 08:16:28 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607051316.IAA11291@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Linda G Mullen sez:
>
> On the SAREX reoprt 13 which I received I noted this entry:
>
> 04  0700   1100z  QSO#s  1158-1173
>
> 1105z  AD4BL>W5RRR-1*>EM70DF:AD4BL EM70
>
> Does this mean that my station connected with the Shuttle or was it just
> my beacon?
> If it was a contact I would like to know what the QSO# was because my
> logs don't
> have it.

This is, indeed, a beacon.  The SAREX TNC cannot tell anything about an APRS
packet, but can digipeat it.

A SAREX contact with the Packet Robot consists of a connect request, ACK'd by
the Robot, a Confirmation number ACK'd by you (or... your TNC) and a DISC sent
by the Robot and ACK'd by you.

Since STS-35, we started relaxing the rules for "QSOs" vice SWL-type hits by
saying that anyone who'd copied their QSO number even without the DISC that
cements the QSO into the WORKED list, was a valid contact.

So, in short, if you're trying for a Packet QSO confirmation, stop sending
APRS packets and simply issue a connect request.  If you're interested in
continuing the APRS experiment, continue digipeating.

73, gerry
n5jxs@tamu.edu
```

---

214. Re: [APRSSIG:2787] APRS Sarex FILLS needed

From: Douglas Graves <kc5eib@gte.net>
Date: Fri, 05 Jul 1996 08:24:22 -0500
To: aprssig@tapr.org
Message-ID: <31DD1786.487A@gte.net>
Rendered body type: text/plain

```
Pass on June 25 at @08:02 am CDT was a School contact
for Heritage Middle School, Grapevine, TX.
```

---

215. STS-78 Rev 228 Orbital Data

From: Ken Ernandes <70511.3107@compuserve.com>
Date: 04 Jul 96 20:00:38 EDT
To: STS TLE List <ststle@spacelink.msfc.nasa.gov>,
        Spacelink News <slnews@spacelink.msfc.nasa.gof>,
        cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
        SAREX <sarex@amsat.org>,
        Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>
Message-ID: <960705000038_70511.3107_IHD78-1@CompuServe.COM>
Rendered body type: text/plain

```
S T S - 7 8   O R B I T A L   D A T A

Below is the current State Vector and Keplerian Elements for STS-78.
The vector data comes from NASA; the orbital parameters were computed
from the vector.  Hourly vector updates are available from NASA GSFC
OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov
(UserID = oig / Password = goddard1).

Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96186.79281712963
                        07/04/1996  19:01:39.399 UTC
EFG E:                          -2571375 ft
    F:                         -21079764 ft
    G:                            -4936460 ft
    Edot:                         18999.55 ft/s
    Fdot:                          1166.30 ft/s
    Gdot:                        -14933.86 ft/s
ndot/2 (drag):              0.00221007748 rev/day^2
nddt/6:                       2.03096E-07 rev/day^3
Bstar:                        3.17578E-04 1/Earth Radii
Elset #:                                49
Rev @ Epoch:              228.55837828956
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this vector using a 3.3 drag multiplier:

```
STS-78
1 23931U 96036A   96186.79281713  .00221008  20310-6  31758-3 0   498
2 23931  39.0115 274.8344 0005773  18.8203 182.1961 16.04303885  2283
```

```
Satellite: STS-78
Catalog number: 23931
Epoch time:      96186.79281713
Element set:      49
Inclination:       39.0115 deg
RA of node:       274.8344 deg
Eccentricity:    0.0005773
Arg of perigee:    18.8203 deg
Mean anomaly:     182.1961 deg
Mean motion:   16.04303885 rev/day
Decay rate:    2.21008e-03 rev/day^2
Epoch rev:             228
Checksum:              307
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

---

216. KB0UZQ's "Overnight APRS/STS-78 Status Report"

From: byoung@qni.com
Date: Fri, 5 Jul 1996 08:50:44 -0500
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <9607051350.AA23165@qni.com>
Rendered body type: text/plain

Fellow APRS's,

I got my 4th "CONGRATS!!!..." message this morning! Also, for the first time, I saw my own digipeat! (Gee Wally, does that mean I can QSL myself? I don't think so Beaver...) Following is the "raw" information (as Bob B. requested!) from the various screen commands:

```
(V)IEW BUFFER
have given their lives in defence of our country.  My God bless every
American and their families.

W5RRR-1>SAREX:#1273-is your STS-78 SAREX QSO number.

KB0UZQ>EM29QJ, W5RRR-1*

W5RRR-1>QSL:N1ERY/1297 KDISM/1292 VK2CM/1267 F6KSY/1232 KE4LQF/1211
ZS6RSW/1207

W5RRR-1>W9HAD:#1320-is your STS-78 SAREX QSO number.

(L)ATEST BCNS
W5RRR-1 050558 #1320-is your STS-78 SAREX QSO number.

(A)LL BEACONS
this was blank...

(P)OSITIONS
just mine...

(D)IGIPEATERS USED
*W5RRR-1  >W9HAD
```

```
(H)EARD LOG
        6 5 4 3 2  nothing earlier
W5RRR-1 . 1 4 . .  nothing earlier
```

I hope this information is helpful!

Bill Young
byoung@qni.com
KB0UZQ
Located @ Smithville, MO (30 miles north of Kansas City, MO)

---

217. SAREX

From: ad4bl@juno.com (Linda G Mullen)
Date: Fri, 5 Jul 1996 09:14:19 PST
To: aprssig@tapr.org
Message-ID: <19960705.091422.2614.3.ad4bl@juno.com>
Rendered body type: text/plain

At this location   1408-1412z   voice pass

Linda AD4BL
Panama City FL

---

218. GPS mapping - Cheap!

From: "Hufford, Kent" <khufford@postmaster2.dot.gov>
Date: Fri, 05 Jul 96 10:44:16 EST
To: aprssig@tapr.org
Message-ID: <9606058365.AA836589309@postmaster2.dot.gov>
Rendered body type: text/plain

Most of you know, you can get "Precision Mapping 2.0" at a computer show for as little as $19. It retails for $39. Has ALL the street level maps for the US on one CD rom.

They have had on their web site "www.justsoftworks.com" a GPS beta version. IT works great with any NEMA output GPS. They just released their retail final version 1.1. IT retails for $59. But you need a copy of 2.0 also. You can download the retail version from there web site, and it will work for 5min. at a pop. CAll them up and give them your plastic number, and they will give you your registration number to make it the full version. Or you can buy Precision Mapping 2.0 w/GPS for $99 retail. They also have the same software w/GARMIN 38 for $399.

Anyway, the maps are great, works great with a GPS, and only costs $78-98. Now all they need to do is add APRS..

Kent

KQ4KK

---

219. Re: [APRSSIG:2705] Position tracking multiple gliders - what technology?

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 05 Jul 1996 10:13:51 -0500
To: aprssig@tapr.org
Message-ID: <199607051507.KAA01985@tapr.org>
Rendered body type: text/plain

```
>The GPS/KPC-3/radio combination is a bit awkward - can you get this stuff
>combined into one (cheap) unit?
>
>Eagerly awaiting any advice,
>Ian
>Glider pilot B21, in Cambridge, England.
>email: ijl20@cl.cam.ac.uk
>
>
 A dual port Paccomm Pico TNC wwith a Garmin45 or one of the GPS engines and
any handheld radio makes for a small package.
I think for your best answer you should try to get one of the balloon guy's
to respond. They have done the best work in GPS/TNC
packaging, and have proven results. NIAN folks are a good source
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
```

I'll give you a reason that sounds good

```
       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

220. Re: 76e map display "bare"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jul 1996 11:14:38 -0400 (EDT)
To: "Arthur J. Martin" <amartin@world2u.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960705110927.7292A-100000@arctic>
Rendered body type: text/plain

For those of you expecting to see your APRS USA map light up with contacts, I'm sure you are as underwhelmed as I, but remember that the SAREX QSO packets contain no position info. Only when you capture an APRS formatted DIGIpeated positions will they show on the map. I have only seen 2 the whole mission (altohough a total of 56 have been reported)

Clearly its time for me to overhaul my antenna (in the top of an 80 foot tree)

Also notice that there are only 32 of us compared to 1500 to 3500 other packeteers trying, and we are all competing for the same few seconds..

de wb4apr@amsat.org

---

221. Heard this morning via W5RRR-1

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 5 Jul 1996 11:27:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960705112245.14941A-100000@laraby.tiac.net>
Rendered body type: text/plain

On 7/5/96 at

```
11:04 utc       KD1SM   FN42DO:73 de Ralph
11:05 utc       N1PPP   No pos report, beacon was "Hi from NH" and Unproto
                        was set to DAVE (via W5RRR-1)
```

Confirmed via shuttle by my digi page

```
Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

222. Re: [APRSSIG:2790] Re: APRS Sarex FILLS needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jul 1996 11:29:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960705112415.7292F-100000@arctic>
Rendered body type: text/plain

On Thu, 4 Jul 1996, William Nolle wrote:

> Bob am i doing something wrong or is that a quirck with APRS but there's
> no way i have found that i can save any of the beacons i get, and there
> where many that i can save. I looked in the .BK .LOG files and all that's
> there is one, my own.

APRSdos REPLY COMMENT: Here are the factors involved in being sure that you have saved everything:

1) You should have LOG enabled (tho it only will auto-log if you get more than 50 packets!)

2) You should do a FILES-SAVE before you exit APRS

OR

3) When you QUIT aprs do *not* accept the default backup file name of "BACKUP". If you use BACKUP, then the LOGS and HSTS files are *not* saved.

4) All packets heard by APRS will be captured, unless you are in O-C-T mode where you are talking to your TNC directly and APRS is disabled.

```
de wb4apr@amsat.org
```

223. SAREX

```
From: Doug_Wetzel@acs.uswest.com
Date: Fri, 5 Jul 1996 09:45:42 -0500
To: aprssig@tapr.org
Message-ID: <1dd392f0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain
```

```
051226Z  Pass

1226-1234Z

Voice on this pass over Salt Lake City

73
Doug
KC7CO
Radio Free Utah
```

224. SAREX ?

```
From: Doug_Wetzel@acs.uswest.com
Date: Fri, 5 Jul 1996 09:51:42 -0500
To: aprssig@tapr.org
Message-ID: <1dd3a5a0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain
```

```
I saw something unexpected on the 1052Z pass this morning - immediately after
getting the "Success" notification from APRS, Columbia sent a QSO # (which
because of Windows problems which caused APRS to crash shortly thereafter) which
included a long string of callsigns - maybe ten or fifteen of them - thereafter.
Something on this order:

W5RRR-1>QSO# 13XX W1ABC W2DEF W3GHI W4JKL W5MNO W6PQR KC7CO W8STU.....etc.

Since this differs from both the single packet APRS digi and the single QSO
connection confirmation, can someone explain what I've seen?

Thanks!

Doug
KC7CO
```

225. _d

```
From: .-.Cheap!@orps1.orps.state.ny.us ( - Cheap!)
Date: Fri, 5 Jul 1996 12:25:08 -0400
To: aprssig@tapr.org
Message-ID: <1DD425A0.1855@mail.orps.state.ny.us>
Rendered body type: text/plain
```

```
Most of you know, you can get "Precision Mapping 2.0" at a computer
     show for as little as $19. It retails for $39. Has ALL the street
     level maps for the US on one CD rom.

     They have had on their web site "www.justsoftworks.com" a GPS beta
     version. IT works great with any NEMA output GPS. They just released
     their retail final version 1.1. IT retails for $59. But you need a
     copy of 2.0 also. You can download the retail version from there web
     site, and it will work for 5min. at a pop. CAll them up and give them
     your plastic number, and they will give you your registration number
     to make it the full version. Or you can buy Precision Mapping 2.0
     w/GPS for $99 retail. They also have the same software w/GARMIN 38 for
     $399.

     Anyway, the maps are great, works great with a GPS, and only costs
     $78-98. Now all they need to do is add APRS..


     Kent

     KQ4KK
```

226. APRS Sarex report (14)

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jul 1996 13:19:37 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
```

Message-ID: <Pine.SUN.3.91.960705125148.7292R-100000@arctic>
Rendered body type: text/plain

Five more stations got plotted on APRS today giving us 15 days of SAREX activity, 20 voice passes and 25 packet passes. I still need a list of Scheduled School passes so I can account for about 30 passes where we heard nothing...

Twenty APRS stations have been successful (62 pkts). Email shows that nine APRS stations are trying every pass: WA8INZ,WB6LLO,KB0UZQ,KD4EMI N2THO,WB4APR,KC5EJK,AD4BL,KC4ZQ. Other stations doing passes when they can are N3MNT,N3IVO,N8EDU,AD4BL,N2QAE,WA1LOU,KC7CO,N1CPE,WB5QLD,K1HJC, KE6AFE,KU0G WB4LTF,N5RKN,KC4NHB,AB5GE,KG0DW,KD1SM,N1JDU,KF4DYS,KK6IB, N6HNY,WA4HEI,KC4ZGQ,KI5VM,WB3JNZ,N2NRD,VA3HOI.

Comparing our APRS success rate 62 pkts (for 37 people) to the total number of stations playing with SAREX, (1350 QSO#s) could imply a lower bound of 2200 or upper bound of 4200 packet stations on frequency, all things being equal... Does that sound about right?

If you have other data or are not listed, pse report.

```
DAY EDT   ZULU  COMMENTS
--------  ----- -------------
21  1745  2145z Voice KO4HD Fl Keys
21        2238z Voice WB6LLO San DIego, and W5GEL Texas
22  0915  1315z through 1400 on 23 June nothing heard on 9 passes
23  1535  1935z voice heard in S. Fla
23        2110z Voice heard in Calif
24  0740  1140z nothing heard on next 4 passes
24  1355  1755z voice reported in Texas           END FIELD DAY
24  1530  1930z nothing heard on next 2 passes
25  0902  1302z School pass Grapevine TX
25  1045  1445z I missed the pass (Any reports of activity?)
25  1230  1620z Voice over usa.  THey said Packet soon!
25  1400  1750z Voice over USA
26  0730  1130z Packet reported fm Alabama
26  0904  1304z Packet reported in Texas & East. QSO#'s 104 to 130
          1313? QSO#123. K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line  (first one!)
    1010  1610z packets.  QSO#'s 141
26  1356  1756z QSO#189-214 (the 189 is not certain)
26  1500  1900z ? (I missed it. Anyone else have a report?)
27  0725  1125z nothing heard this pass and the 0900 EDT pass
27  1035  1435z voice heard on this and 1610z, and 1745z passes
27  1510  1910z ? (i missed it.  Anyone else have a report?)
28  0725  1125z QSO#346-355. 22 packets copied in Maryland
28  0900  1300z 27 pkts reported in MO and AL by KB0UZQ and KE4EER
28  1036  1436z voice heard
28        1915z packets heard in Calif. WB6LLO "success"
29  0730  1130z voice heard
29  0900  1300z nothing heard
29  1027  1427z QSO#519-529. & KE6AFE>CM86XX,W5RRR-1*:Hi de Cap
          14??z WB6LLO gets congrats (Anyone see it?)
          1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
          1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29  1346  1746z Voice reported in FL
29        1911z WB6LLO APRS success reported in Calif? (Anyone see it?)
          1920z Voice reported in Honduras
30  0545  0945z QSO#672. & KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30  0720  1120z QSO#729.
30  0850  1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30  1023  1423z nothing heard in SoCAL
30  1157  1557z voice on west coast and in AL
30        1732z nothing heard in Calif
30        1906z WB6LLO gets "CONGRATS"
01  0405  0805z Strong voice reported
01  0540  0950z KE4EER reports strong voice in AL
01  0720  1120z Voice heard in MD working Michigan
01  0850  1250z nothing (someone reported weak packet?)
01  1025  1425z nothing.  Weak pkts then voice reported in Salt Lake City
01  1200  1600z nothing
02  0422  0822z no packets detected in MD
02  0540  0940z no packets detected in MD
02  0722  1122z no packets detected in MD
02  0842  1242z nothing
02        1413z Voice full quieting over Utah
02        1547z nothing heard in MD. But following heard in Florida
               WA8INZ>W5RRR-1*>EM64SX:@021000/3458.49N/08629.87WyBills Laptop
               WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76
          1726z nothing heard (weak packets heard in Utah and Honduras)
```

```
03  0532  0932a 21 pkts hrd in Dallas, 26 in MD.  QSO#888-914. And 2 APRS
          0932z KB0UZQ>W5RRR-1*>EM29QJ:         (four)
          0932z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          0933z KG0DW>W5RRR-1*>EN31CO:Hello Columbia from Steve in Des Moines
          0937z N1JDU>W5RRR-1*>FN42LK:APRS 0.5 on line (two)
          0937z KD1SM>W5RRR-1*>FN42DO:APRS 0.5 on line (two)
03  0707  1107z 6 Pkts heard in MD.  QSO#971-975
          11??z KG0DW got a congrats!  (Anyone get a copy?)
          1111z KD1SM>W5RRR-1*>FN42DO:APRS 0.5 on line
          11??z KB0UZQ>EM22QJ,W5RRR-1*:
03  0838  1238z 39 pkts heard in Dallas, 3 in MD, 34 in FL.  QSO#1010-1035
          1238z WB6LLO 030540 /261214/3247.03N/11711.35WSdm12js0 (three!)
          1238z N6HNY>DM04RK,W5RRR-1*:DM04RK
          12??z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          1244z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d  (two)
          1247z WB4LTF>W5RRR-1*>EL98IP:Casselberry Fl              (six)
03  1020  1420z Weak voice (canadian) heard in MD for 1st half of pass
03        1550z KO4HD reports carrier bursts near end but no audio
03        1720z out of view of east coast
04  0355  0755z N4ZQ>W5RRR-1*>QST:CQ this is radio N4ZQ, Keith in Florida
04  0528  0928z QSO#s1108-1125
          0928z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          0930z WB4LTF>W5RRR-1*>EL98IP:Casselberry FL              (eight)
          0933z WA4HEI>W5RRR-1*>EN65UX:@EN65ux]^C2
04  0700  1100z QSO#s1152-1180
          1103z KC5EJK>W5RRR-1*>APRS:[EM12OU]
          1103z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d  (five)
          1105z AD4BL>w5RRR-1*>EM70DF:AD4BL EM70
          1105z WA4HEI>W5RRR-1*>EN65UX:@EN65ux]^C2
04  0834  1235z Voice copied in the midwest
04  1000  1400z Voice heard in CA and midwest
05  0347  0747z QSO#1256-1258.  WA8INZ gets congrats (anyone see it?)
05  0421  0921z QSO#1288-1297
          0925z WB3JNZ>FN10RS,W5RRR-1*:
          092?z KD1SM>FN42DO,W5RRR-1*:73 de Ralph
05  0658  1058z QSO#1320-1343
          1058z KC7CO gets congrats (anyone see it?)
          1058z KB0UZQ gets congrats (anyone see it?)
          1102z N2NRD>FM29LQ,W5RRR-1*:
          1102z VA3HOI gets congrats (Anyone see it?)
          1104z KD1SM>FN42DO,W5RRR-1*:73 de Ralph
          1105z N1PPR>DAVE,W5RRR-1*:
05  0835  1235z Voice
05  1008  1408z Voice
```

I still have three passes unaccounted for.. If you have raw data to fill in or correct entries above, please send them to me. I also like to get the QSO#'s for every packet pass (just 1st and last # pse)

Probably only ONE day to go (and its all at sleep time!). Have fun!

de wb4apr@amsat.org

---

227. Re: [APRSSIG:2815] _d

From: William Nolle <ke4eer@worldnet.att.net>
Date: Fri, 05 Jul 1996 12:29:02 -0700
To: aprssig@tapr.org
Message-ID: <31DD6CFE.6045@worldnet.att.net>
Rendered body type: text/plain

- Cheap! wrote:
>
>   Kent
>
>   KQ4KK

I got this message twice already this morning!. Not many (If any) on the sig have a laptop with a CD-Rom and according to their website that's what it takes to run the version that will work with GPS.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

228. Re: GPS-20 and Power supplies

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Fri, 5 Jul 1996 13:47:06 -0400 (EDT)

To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960705134428.17680A-100000@outland.dtcc.edu>
Rendered body type: text/plain

Bob, just a final note to you and the SIG. I have finally got my MIM/MIC tracker box to work. Thanks for your support during my assembly and testing. I did finally use two 2 AH batteries. One for Maxon and one for the GPS-20 and MIM. I will see how well this combo works over this weekend. Will be testing it extensively.

Sam Guccione K3BY near Dover, Delaware

On Thu, 4 Jul 1996, Bob Bruninga wrote:

> Im sharing this with the sig, because Many of us have had this little panic about our boards dying. The thing is, that the power-up-reset circuitry is very picky about how the power is applied. I dont know what the details are, but it appears that the 5 volt supply must be "stiff". FOr battery trackers, you might have a big CAP across the battery to give the stiffness when the ON switch is flipped.
>
> On Thu, 4 Jul 1996, Dr Samuel Guccione wrote:
>
> > Bob, I found that it was the supply. I was operating from a battery and did not check its stiffness. That is when I thought it was not operating correctly. Then I tried one of my power supplies. Guess what! I did not check its stiffness either. Both battery and supply were not stiff enough. I guess I will need two batteries to make my tracker box work.
> >
> > Thanks for the confirmation of the solution. I was worried about toasting $180 board.

---

229. Re: [APRSSIG:2806] KB0UZQ's "Overnight APRS/STS-78 Status Report"

From: ku0g@sprynet.com
Date: Fri, 5 Jul 1996 10:53:15 -0700
To: aprssig@tapr.org
Message-ID: <199607051753.KAA27704@m1.sprynet.com>
Rendered body type: text/plain

Well, I'm REALLY disgusted now! I was in space mode all night long and didn't get squat here! Of course, I slept through the two best passes, but thought I would at least get an auto-hit! Will try again tonight then quit in anger and frustration and look with chagrin on Bill just north of me who, with his puny 50 watts and mag-mount-on-a-pole antenna is doing better than me! Grrrrrrrr....

(Congrats anyway, Bill!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

230. APRS SAREX final info needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jul 1996 14:12:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960705133504.14849A-100000@arctic>
Rendered body type: text/plain

We need to understand the differences between successful and unsuccessful stations. Be brief, but tell us needed info about your antenna path to the shuttle, your RCV/XMT losses and OPERATIONS. Here are my BRIEF reports:

```
WB4APR STATION: NO success.  Copied probably 10% of all packets reported
  OPS:      On freq and ARMED 100%.  Manned during waking (non workhours).
  ANT:      6db High gain omni antenna (poor elevation gain)
            good horizon in all directions.
  PWR:      40 watts
  LOSSES:   120 feet of 75 ohm hardline
  COMMENTS: Looks like I need to check my antenna (last ck 5 yrs ago)

W3ADO STATION:  NO success.  Copied probably 10% of packets reported
  OPS:      Monitor 100%, Manned during working hours.
  ANT:      Long Yagi, AZ-EL
  PWR:      25W
  LOSSES:   120 feet of RG-8
  COMMENTS: 100w amp and remote pre-amp smoked on day 1, so the 6 db
            of cable loss on XMT and RCV killed us.  ALso, all unmanned
            passes would have the beam not tracking, missing all but the
            one pass optimized.

I do not need a list of every pass that you manned, but just a percentage
of your efforts compared to ONLY THOSE PASSES WHERE PACKET was active.
Send all replies to me, and not the SIG to help minimize QRM.
```

---

231. Re: [APRSSIG:2817] Re: _d

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Fri, 05 Jul 1996 14:31:18 -0400
To: aprssig@tapr.org
Cc: rick_o@jericho.com
Message-ID: <31DD5F76.428F@jericho.com>
Rendered body type: text/plain

```
Not ness true, you can load maps to drive by state.  They even explain
how.  Example VA is about 17meg.

KF4CDO
rick_o@jericho.com



>
> - Cheap! wrote:
> >
> >      Kent
> >
> >      KQ4KK
>
> I got this message twice already this morning!. Not many (If any) on the sig
> have a laptop with a CD-Rom and according to their website that's what it
> takes to run the version that will work with GPS.
>
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org
```

---

232. MAR-6 update.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Fri, 05 Jul 1996 15:37:20 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960705193720.00896b34@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
Just a short notice to inform everyone on the evolution of the process.

I received the MAR-6's early this week. I'm ready to ship them back.

I had send personal e-mail last week to all the interested parties with
details about payment, address... I know that at least one of these e-mail
bounced (K5AHE, for instance, can't get an e-mail to you now).
I already started shipping to those who answered.

A copy of the above mentioned details is at the end of this e-mail so
hopefully everyone will get it now.
Address and phone (at work) are there too, BUT phone is not a good way to
reach me (doing experiments in a not-phone-equipped lab, most often I can't
answer).

I started to put together some ideas and a possible layout for the pre-amp,
I will upload that as time permit... (deadlines, papers and such, those
working in academic environment know that). I'm working on a prototype too...


----------------------------

Hi,

I received confirmation that the MAR-6 will be shipped to me before June 27.
It's now time for you to send me your payment so I can re-ship your units as
soon as possible.

Send me your payment, by check, money order, or even cash in the envelope
(but you take the responsibility if I don't receive it), in US$. The price
is still 2$ per unit, :-), including handling, shipping, ...
```

My address is:

Bernard SERONT
Earth and Space Sciences
State University of New York
STONY BROOK, NY, 11794-2100.

Just attach a short note with your payment with the quantity of MAR-6 you want, and if you want the standard case or surface mount. Don't forget to put YOUR address somewhere, so I know where to ship!

or just print and fill (or fill and print) the following:

```
--------------------------------------------------------------

          Name  :
Street Address  :
                :
                :
                :
Town, State, Zip:


MAR-6 standard case   :  Qty:    * 2$   =
MAR-6SM surface mount :  Qty:    * 2$   =

                              Total     =

--------------------------------------------------------------
```

If you need to contact me, feel free, e-mail is the -faster- way.

Bernard, KB2TGH.

```
--------------------------------------------------------
<<><><>>              Bernard Seront
|      |   e-mail:  seront@seism1.ess.sunysb.edu
| (o)(o)   http://rock.ess.sunysb.edu:8080/
\      _)  addr:  Department of Earth and Space Sciences
 | ,___|     State University of New-York at Stony Brook
 |___/               STONY BROOK, NY, 11794-2100, USA
/    \     phone: (516)632-8302    fax: (516)632-8240
```

233. Re: [APRSSIG:2783] KE6AFE (fwd)

From: Barbara Fehner <fehner@cts.com>
Date: Fri, 05 Jul 1996 13:09:45 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960705200945.006af99c@mail.cts.com>
Rendered body type: text/plain

Perhaps they are having the same trouble that I am having. I've left APRS 76E on in space mode for all passes the last 3 days and it has yet to trigger even though it is armed and has received w5rrr-1 3 times.

Barbara KK6IB
E-Mail: fehner@cts.com

____
>APRSdos REPLY COMMENT:
>We finally got the confirmation of KE6AFE's POSIT. Thanks to Dave!
>
>But I notice that all of the reports (35) except for TWO are from the
>midwest and east coast. California is active on SAREX arent they? grin
>
>de wb4apr@amsat.org

234. Re: [APRSSIG:2816] APRS Sarex report (14)

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 5 Jul 1996 16:20:47 -0400 (EDT)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960705161641.18903A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Fri, 5 Jul 1996, Bob Bruninga wrote:

```
> 05  0658  1058z QSO#1320-1343
>           1058z KC7CO gets congrats (anyone see it?)
>           1058z KB0UZQ gets congrats (anyone see it?)
>           1102z N2NRD>FM29LQ,W5RRR-1*:
>           1102z VA3HOI gets congrats (Anyone see it?)
>           1104z KD1SM>FN42DO,W5RRR-1*:73 de Ralph
>           1105z N1PPR>DAVE,W5RRR-1*:
```

Bob, Maybe I made a typo, but I copied N1PPP, not N1PPR at 11;05z

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

235. Re: [APRSSIG:2817] Re: _d

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 06 Jul 1996 00:31:21 -0400
To: aprssig@tapr.org
Message-ID: <199607060031.UAA16010@smtp1.erols.com>
Rendered body type: text/plain

Bill,

I sent one message to aprssig@tapr.org.

You got mine. I also got two copies. Mine, and one from someplace at "ny.us" . That is the one you replyed to.

I think someone sent you a message saying you can download the state files you want. He said something like 14Megs for Virgina. I checked TEXAS, it takes 48MEGS. But you can run without a CD drive in the laptop. Just laplink it over to your laptop.

"Not many (If any).." Well, I do. I'm just lucky that I have a laptop from work that does have a CD rom.

I know others do to. Last week I had to put some software on another laptop at work. First I had to make a set of 18 floppies from the CD...

I wish all the software would run on my ATARI 800, or KAYPRO 2, or my first laptop - T1100+. But the software just gets bigger.

Precison Mapping 1.1 GPS is an example of great software, for a fair price... but does take up room.

Still needs APRS tho. I did notice that Softworks has a PM 1.1 GPS "Developers" kit. Maybe the brothers or Bob will port...

Kent

KQ4KK

At 12:41 PM 7/5/96 -0500, you wrote:

```
>- Cheap! wrote:
>>
>>      Kent
>>
>>      KQ4KK
>
>I got this message twice already this morning!. Not many (If any) on the sig
>have a laptop with a CD-Rom and according to their website that's what it
>takes to run the version that will work with GPS.
>
>--
>Bill WA8INZ
>ke4eer@worldnet.att.net
>ke4eer@amsat.org
>
>
>
```

---

236. Re: [APRSSIG:2823] Re: KE6AFE (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 5 Jul 1996 22:29:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960705222727.25119C@arctic>

Rendered body type: text/plain

```
On Fri, 5 Jul 1996, Barbara Fehner wrote:

> Perhaps they are having the same trouble that I am having. I've left APRS
> 76E on in space mode for all passes the last 3 days and it has yet to
> trigger even though it is armed and has received w5rrr-1 3 times.

APRSdos REPLY COMMENT:  Are you running an AEA TNC?  Maybe I have a
problem recognizing the "non standard" AEA display format.  When this is
all over, choose a local station on your APRS frequecny.  Play like he is
the SAREX.  See if your BEACON timer is reseet each time you hear him...

de wb4apr@amsat.org
```

---

237. 40 Meter APRS Activity

From: Truman Boerkoel <truxenia@erinet.com>
Date: Fri, 05 Jul 1996 22:49:42 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960706024942.00689488@erinet.com>
Rendered body type: text/plain

```
Is their any APRS activity on 40 Meters?
I spent the day listening and only heard one station
that was not strong enough to copy on 7083.3 Khz

Vry 73 de Tru K8JUG
truxenia@erinet.com
```

---

238. Re: [APRSSIG:2825] Re: _d

From: Bob Lorenzini <hwm@netcom.com>
Date: Fri, 5 Jul 1996 19:59:38 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960705195651.161A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
I also have a notebook with cdrom, but it is my understanding that it
is possible to run PM with perhaps just your own state or local area off
the HD only (no cdrom).

Bob - wd6dod
```

---

239. Re: [APRSSIG:2821] Re: _d

From: "Rick O'Hearn" <rick_o@jericho.com>
Date: Fri, 05 Jul 1996 23:37:32 -0400
To: aprssig@tapr.org
Cc: rick_o@jericho.com
Message-ID: <31DDDF7C.7741@jericho.com>
Rendered body type: text/plain

```
Installing Map Data on a Laptop

Precision Mapping data can be installed manually on a laptop for use when a CD-ROM is not
available.  This procedure is not recommended and is not supported by technical support.  The
following procedure describes the manual installation of map data:

1)  Copy all of the files (excluding sub-directories)  in the sub-directory of PMAP on the CD-ROM
drive to the sub-directory where Precision Mapping 2.0 is installed ( usually "C:\PMAP2W" ).

2)  Copy the sub-directory of the desired state or states that you wish to use into the
sub-directory where Precision Mapping 2.0 is installed ( usually "C:\PMAP2W" ).  The result
should create a sub-directory in the PMAP2W sub-directory with the state data file.  Each state
data file should be in its own state sub-directory.

3)  In the Precision Mapping configuration menu, change all path statements to reflect the new
data location ( change all paths to "C:\PMAP2W" ).  Save and exit out of Precision Mapping.  The
next time you begin Precision Mapping, the program should recognize the new data and location.

IMPORTANT NOTE:  After copying all files over, turn OFF the READ-ONLY attributes.  If this is not
done, the system will not recognize the data.

Under License this data and software should not be used on more then one system per registered
copy of Precision Mapping 2.0.




>
> Not ness true, you can load maps to drive by state.  They even explain
```

> how. Example VA is about 17meg.
>
> KF4CDO
> rick_o@jericho.com
>
> >
> > - Cheap! wrote:
> > >
> > >   Kent
> > >
> > >   KQ4KK
> >
> > I got this message twice already this morning!. Not many (If any) on the sig
> > have a laptop with a CD-Rom and according to their website that's what it
> > takes to run the version that will work with GPS.
> >
> > --
> > Bill WA8INZ
> > ke4eer@worldnet.att.net
> > ke4eer@amsat.org

---

240. APRS Sarex: I made it!

From: Andy Latovich <andylato@prolog.net>
Date: Sat, 06 Jul 1996 00:15:23 -0400
To: Aprs Sig <aprssig@tapr.org>
Message-ID: <31DDE85B.5C20@prolog.net>
Rendered body type: text/plain

Hi Everyone,

It looks like I got digipeated through the shuttle Friday morning. Here is a clip from the pass, my call is WB3JNZ and the timestamp is EDT and about 21 seconds behind the correct time.

```
-------------------------------------------------
W5RRR-1>W2RS [07/05/96  03:54:08] <I S0 R0>:
#1256-is your STS-78 SAREX QSO number.

W5RRR-1>N8IGJ [07/05/96  03:54:13] <DM>
W5RRR-1>W2RS [07/05/96  03:54:14] <UA>

WB3JNZ>FN10RS,W5RRR-1* [07/05/96  03:54:19] <UI R>:

W5RRR-1>W2RS [07/05/96  03:54:20] <I S0 R0>:
#1256-is your STS-78 SAREX QSO number.
-------------------------------------------------
```

... and again the next pass:

```
-------------------------------------------------
W5RRR-1>N3OWA [07/05/96  05:28:03] <UA>
W5RRR-1>WB4FIN [07/05/96  05:28:04] <I S0 R0>:
#1288-is your STS-78 SAREX QSO number.

W5RRR-1>WB4FIN [07/05/96  05:28:04] <UA>

WB3JNZ>FN10RS,W5RRR-1* [07/05/96  05:28:09] <UI R>:

W5RRR-1>N2UME [07/05/96  05:28:09] <UA>
W5RRR-1>WB4FIN [07/05/96  05:28:12] <I S0 R0>:
#1288-is your STS-78 SAREX QSO number.
-------------------------------------------------
```

I did not copy any other position reports during those two passes. Steve, VA3HOI's message and Bob's Sarex report to the sig confirms they saw my call on the map. Due to lack of time, this was the first pass I was available to make an attempt. This was a manual attempt since the date and time on the XT

class computer I use for packet has a nasty habit of going crazy after running a program a while. This really messes up the APRS timing and I didn't want to control a transmitter with that setup. I used my GPS-20 board to find my latitude and longitude and then APRS to find my grid square. I then set the unproto call to my gridsquare via W5RRR-1 and used the Procomm terminal program to talk to my TNC (a MFJ-1278B). With the proper TNC settings I could enter converse mode and monitor incoming packets. When I got good packets from the shuttle, I just had to hit the return key to send a very short packet. It it only took a couple of transmissions to see my digipeated packet! I tried again the next pass and was sucessful again! I think the very short packets helped a lot. I have TXDELAY set to 250ms and should be able to go lower. I wanted to try a third pass but the lack of sleep caught up with me and even the alarm clock didn't help. I hope to try some more passes when I can.

I use a HTX-202 to a Ramsey 2M amp with internal preamp, giving about 25 watts into a homebrew tin can cavity filter and about 100 ft of very very old RG-8 cable, (got some loss there!), to a KLM-14C antenna. The antenna does not have an elevation rotor or preamp. The old XT will soon be replaced with an old 286 so I can then run APRS without the date/time problem. Since most passes are close to the horizion, lack of elevation does not hurt much. I do notice deep fades when the shuttle is above 30 degrees elevation which is not very often. Due to mountians, I don't receive strong signals until about 10-15 degrees elevation.

I've been reading and enjoying the sig for a few months now and have been pretty quiet. It's been very interesting and informative. I hope to get some time and become more active with APRS soon. Bob, I guess you can add my call to the list of APRS stations trying to digi through the shuttle even though I am not actually running APRS. I am using the same format as APRS/APRTrak and anyone on the receiving end won't see any difference. I think that should still count me as an APRS station since I would be running it if I didn't have the problem with the XT.

Ok, I guess this first message to the sig is long enough. I hope to show up on your maps again soon!

```
     ---------------------------------------------
        Andy, WB3JNZ, andylato@prolog.net
     ---------------------------------------------
```

241. Re: [APRSSIG:2817] Re: _d

From: kc8ux@w8dc.ampr.org
Date: Sat, 06 Jul 96 01:05:30 EDT
To: aprssig@tapr.org
Message-ID: <130122@w8dc.ampr.org>
Rendered body type: text/plain

>>>I got this message twice already this morning!. Not many (If any) on the sig
have a laptop with a CD-Rom and according to their website that's what it
takes to run the version that will work with GPS....

No so -- I bought it too, and copyied just my state (michigan) to the HDD of my laptop and am running it with no problems. If
you are going to stay within a limited (state) area it works fine.

Ron - KC8UX

242. SAREX update...

From: ku0g@sprynet.com
Date: Sat, 6 Jul 1996 04:01:57 -0700
To: aprssig@tapr.org
Message-ID: <199607061101.EAA14477@m1.sprynet.com>
Rendered body type: text/plain

Three passes went by here with no activity heard overnight.
I listened to the passes at 0700, 0930 and 1100 (approximate times). Never a peep from Columbia either voice or packet...Has SAREX been shutdown in preparation for landing tomorrow already? Sure seems a shame if it has...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

243. Ultimeters CHANGED

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 6 Jul 1996 08:51:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960706084902.29721A-100000@arctic>
Rendered body type: text/plain

I was just informed of a production change in the Ultimeter 500 and 2000. THey have added 8 additional bytes onto the data format and since APRS uses the character count as a validation of the string, these new devices will NOT work with existing versions of APRS!

I will fix it. But if you just got a new ULtimeter, this may explain why it doesnt work with APRS!

de wb4apr@amsat.org

---

244. SAREX appreciation and QSL's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 6 Jul 1996 09:03:54 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960706085519.29721D-100000@arctic>
Rendered body type: text/plain

On Fri, 5 Jul 1996 byoung@qni.com wrote:

```
>
> THanks to your efforts on our behalf during this shuttle mission
> *AND* are there names and E-Mail addresses of the appropriate
> parties at AMSAT and NASA to also thank?
>
> I'm grateful for the opportunity to try something different.  I
> know that 1300+ amateurs will get "official" QSL cards, but I
> don't feel cheated because I only participated in the APRS experiBment!
```

APRS REPLY COMMENT: Please still feel free to submit your contact to the QSL manager for the mission. Worst case, you will still get an SWL QSL card. Best case, I can convince them to add an APRS endorsement on it, or we can make an APRS sticker.

All of these details will be worked out later...

de wb4apr@amsat.org

---

245. STS-78 Rev 239 Orbital Data

From: Ken Ernandes <70511.3107@compuserve.com>
Date: 05 Jul 96 08:54:23 EDT
To: STS TLE List <ststle@spacelink.msfc.nasa.gov>,
cape-canaveral network o <grcc@ams.gsfc.nasa.gov>,
SAREX <sarex@amsat.org>,
Shuttle Vector <shuttle.keps@totrbbs.atl.ga.us>
Message-ID: <960705125422_70511.3107_IHD94-1@CompuServe.COM>
Rendered body type: text/plain

STS-78 ORBITAL DATA

Below is the current State Vector and Keplerian Elements for STS-78. The vector data comes from NASA; the orbital parameters were computed from the vector. Hourly vector updates are available from NASA GSFC OIG RAID RBBS at (301) 262-6782 or by telnet: oig1.gsfc.nasa.gov (UserID = oig / Password = goddard1).

```
Vector format = 117
Satellite Name:         STS-78
Catalog Number:         23931  96036A
Epoch Date/Time:        96187.50124768518
                        07/05/1996  12:01:47.799 UTC
EFG E:                          -18197792 ft
    F:                           10892982 ft
    G:                           -4950489 ft
    Edot:                       -12600.28 ft/s
    Fdot:                       -14303.70 ft/s
    Gdot:                        14943.75 ft/s
ndot/2 (drag):              0.00229119077 rev/day^2
nddt/6:                       2.18246E-07 rev/day^3
Bstar:                        3.24693E-04 1/Earth Radii
Elset #:                               51
Rev @ Epoch:              239.94150748196
```

Launch was 20-JUN-96 / 14:49:00.093

The following Keplerian elements were computed by VEC2TLE from this vector using a 3.3 drag multiplier:

```
STS-78
1 23931U 96036A   96187.50124769  .00229119  21825-6  32469-3 0   511
2 23931  39.0147 270.0628 0005339  21.2851 317.6573 16.04536451  2399
```

```
Satellite: STS-78
Catalog number: 23931
Epoch time:      96187.50124769
Element set:      51
Inclination:       39.0147 deg
RA of node:       270.0628 deg
```

```
Eccentricity:    0.0005339
Arg of perigee:    21.2851 deg
Mean anomaly:     317.6573 deg
Mean motion:   16.04536451 rev/day
Decay rate:    2.29119e-03 rev/day^2
Epoch rev:             239
Checksum:              304
```

VEC2TLE may be downloaded from:
ftp.amsat.org /amsat/software/PC/util

Ken Ernandes
n2wwd@amsat.org

---

246. Re: [APRSSIG:2810] Re: 76e map display "bare"

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 09:00:54 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061400.JAA00352@vanilla.cs.tamu.edu>
Rendered body type: text/plain

For what it's worth, I experimented with the Radio Shack Disk Cone antenna for SAREX ops and was pleasantly surprised. For an omni of reasonable cost, it's pretty decent, and provides a reasonable pattern for LEO ops. I strongly recommend some additional power, regardless of what you're using. I tend to use 160 watts for most SAREX activities, both voice and packet, for assured success, although I've done OK with 10-35 watts, too... just not as reliably.

One minor advantage I have in this area is that I can catch ascending passes over western Mexico, and not have to compete too much with other stations. One disadvantage I had this mision was, every TNC I own, as well as all my lab owns, were working on cows, airplanes, buses or police cars! Maybe next time I'll have one rededicated to a ham rig?

73, gerry

---

247. Re: [APRSSIG:2814] SAREX ?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 09:06:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061406.JAA00370@vanilla.cs.tamu.edu>
Rendered body type: text/plain

Doug_Wetzel@acs.uswest.com sez:
>
> I saw something unexpected on the 1052Z pass this morning - immediately after
> getting the "Success" notification from APRS, Columbia sent a QSO # (which
> because of Windows problems which caused APRS to crash shortly thereafter) which
> included a long string of callsigns - maybe ten or fifteen of them - thereafter.
> Something on this order:
>
> W5RRR-1>QSO# 13XX W1ABC W2DEF W3GHI W4JKL W5MNO W6PQR KC7CO W8STU.....etc.
>
> Since this differs from both the single packet APRS digi and the single QSO
> connection confirmation, can someone explain what I've seen?

What you witnessed was the QSL list which is transmitted periodically so that SAREX stataions on the ground can snag it and route it to JSC for archiving. the memory on the old, venerable, wheezing HK-21 TNC can store about 600 QSO numbers. After that, it's a FIFO buffer. We count a lot on folks reporting honestly that they got a QSO and what number it was. The list is an easy way to make the QSL cards out early.

There's also a QRZ list, which is a longer version of MHeard. The EPROM on that HK-21 has been massaged somewhat for special SAREX operation.

Hope this helped.

73, gerry
n5jxs@tamu.edu

---

248. STS-78 element set #917 (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 09:07:28 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061407.JAA00384@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Carman, Gilbert L. sez:
> Date: Fri, 05 Jul 1996 11:56:40 -0500
> Subject: STS-78 element set #917
>
>
>
> STS-78
> 1 23931U 96036A   96186.57136730  .00081451  00000-0  11817-3 0  9174
> 2 23931  39.0143 276.3233 0005419  15.3503 344.7640 16.04299077  2254
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96186.57136730   =     yrday.fracday
> Element set:     917
> Inclination:       39.0143 deg
> RA of node:       276.3233 deg
> Eccentricity:     .0005419
> Arg of perigee:    15.3503 deg
> Mean anomaly:     344.7640 deg
> Mean motion:   16.04299077 rev/day
> Decay rate:    8.14507E-04 rev/day^2
> Epoch rev:             225
> Checksum:              309
>
>
> Gil Carman
>
>
>



--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
*******************************************************************************
```

---

249. KB0UZQ's infamous overnight APRS/STS-78 contact report...

From: byoung@qni.com
Date: Sat, 6 Jul 1996 09:22:29 -0500
To: aprssig@tapr.org
Message-ID: <9607061422.AA05226@qni.com>
Rendered body type: text/plain

Fellow APRSs,

Not a sound, voice or data, has been heard from the shuttle here in Smithville, MO (30 miles north of Kansas City, MO and in the CDT time zone...) since 0600CDT 05JUL96.

Looks like "The Party's Over"! I assume they'll be packing SAREX up early today if they haven't already. (On the other hand, "just in case", my APRS is still "cocked and locked" and will be till later today! Hope springs eternal!)

Who remembers their Latin? We need to come up with a motto, in Latin of course, that expresses our insane devotion to contacting the shuttle. Submit any ideas to me via E-Mail, and (if I actually get any...) I'll share them with the group in a single posting (to reduce QRM).

Bill Young
byoung@qni.com
KB0UZQ

---

250. Band opening?

From: rbost@itexas.net (Roy Bost)
Date: Sat, 6 Jul 1996 09:22:26 -0500
To: <aprssig@tapr.org>
Message-ID: <19960706142345561.AAA141@rbost.itexas.net>
Rendered body type: text/plain

I just got WinAPRS installed! Is it normal to see stations 800 - 1000 miles away or is there a band opening? I'm seeing, among others,   VE3NP, KB1DD, N0AN, and N6OAA. I'm in Granbury, Tx. which is 35 miles SW of FT. Worth.

Roy Bost
N5TAM

rbost@itexas.net

---

251. APRS HELP for N2ERN

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 6 Jul 1996 07:22:40 -0700
To: aprssig@tapr.org
Message-ID: <199607061422.HAA08490@poseidon>
Rendered body type: text/plain

ALL APRS, Maryland, New Jersey Chesapeak area.

   Received Packet message from Harry/N2ERN@W2LI.NJ.USA.NA as follows:
QUOTE;
  Just getting started here with APRS. Three Agrelo DFjr on order. Do
you know anyone who might have some maps of central New Jersey? Would
appreciate any references to getting started. Tnx, Harry N2ERN..
UNQUOTE..

   Hey Joe, with an order for three best help him out. Anyone near this
fella, please give him a hand getting started.

   Anyone copying our TRANSPAC96, Solo Yacht race to Hawaii. ??? am Uplinking
positions daily on HF/10151, Ken/W7KKE is Uplinking the Victoria,BC- to
Hawaii boats also. Starting Monday about 60 S/V boats will be on another
Transpac LosAngeles to Hawaii, starting Monday. No info if APRS envolved.
Info can be found : http://www.sfbaysss.org/transpac96/ on West coast
sailing events and at the : http://www.wingo.com .. site.

  73's & Enjoy, Bill/WB6LPG
NNNN

WBB/WB6LPG

---

252. Revised Hurricane extractor

From: KSwaggart@aol.com
Date: Sat, 6 Jul 1996 10:30:07 -0400
To: aprssig@tapr.org
Message-ID: <960706103007_350375636@emout07.mail.aol.com>
Rendered body type: text/plain

Hi again,

 I inadvertently uploaded my test copy of WXHURR1.* which had canned test
filenames. A corrected .zip file named WXHURR2.ZIP has been uploaded to
tapr.org.

 This program extracts Tropical Depression, Tropical Storm, and Hurricane
positions and projected tracks from the National Hurrican Center marine
advisories. An APRS backup file is created which can be loaded into APRS and
uplinked to the net if desired.

73, Ken, W7KKE
kswaggart@aol.com

---

253. Quick question

From: KD4EMI@aol.com
Date: Sat, 6 Jul 1996 10:32:38 -0400
To: aprssig@tapr.org
Message-ID: <960706103237_350376490@emout08.mail.aol.com>
Rendered body type: text/plain

Whats the latest version of APRS is it 75C ?

There are some guys running 75D or E ? around here...

I looked at TAPR the latest was 75c
Mike
KD4EMI@AOL.COM

---

254. Re: [APRSSIG:2817] Re: _^Cd

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 09:30:27 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061430.JAA00498@vanilla.cs.tamu.edu>
Rendered body type: text/plain

William Nolle sez:
>

```
> - Cheap! wrote:
> >
> >      Kent
> >
> >      KQ4KK
>
> I got this message twice already this morning!. Not many (If any) on the sig
> have a laptop with a CD-Rom and according to their website that's what it
> takes to run the version that will work with GPS.

Aha.  You weren't listening (:-) when I noted earlier, re: PM 2.0:  for limited
statewide coverage, you can move the appropriate files to hard disk, and tell
PM 2.0 where it is in the configuration file.

The down side is, the files they are using are not quite as good as De Lorme's
files.  From what I can tell, De Lorme have worked a deal with individual
state Dept's of Transportation for TIGER format updates, which they then
(occasionally) integrate into their standard distribution.  Several weeks ago,
I pointed PM's designers toward the WWW site in Texas for things such as
these.
```

---

255. STS-78 element set #919 (05-Jul-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 09:36:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061436.JAA00541@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Carman, Gilbert L. sez:
> Date: Fri, 05 Jul 1996 13:25:30 -0500
> Subject: STS-78 element set #919 (05-Jul-96)
>
>
>
> STS-78
> 1 23931U 96036A   96187.69158781  .00088752  00000-0  12713-3 0  9197
> 2 23931  39.0136 268.7820 0005581  26.2942 333.8320 16.04641595  2431
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96187.69158781   =     yrday.fracday
> Element set:     919
> Inclination:       39.0136 deg
> RA of node:       268.7820 deg
> Eccentricity:     .0005581
> Arg of perigee:    26.2942 deg
> Mean anomaly:     333.8320 deg
> Mean motion:   16.04641595 rev/day
> Decay rate:    8.87520E-04 rev/day^2
> Epoch rev:             243
> Checksum:              337
>
>
> Gil Carman
>
>
>



--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

---

256. SAREX

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Sat, 06 Jul 1996 08:44:19 -0600
To: aprssig@tapr.org
Message-ID: <31DE7BC3.7073@slkc.uswest.net>
Rendered body type: text/plain

```
Nothing from Columbia at 060912Z or 061045Z.  I assumed they have
secured the station for landing and went back to sleep -

Doug
KC7CO
Radio Free Utah
```

257. $STS-78.027 SAREX Bulletin #27

```
From: pat.kilroy@gsfc.nasa.gov (Pat Kilroy)
Date: Fri, 5 Jul 1996 16:23:01 -0400
To: tca712@rs710.gsfc.nasa.gov, pmountjo@hr.hq.nasa.gov, wd0hhu@amsat.org,
        rwhite@arrl.org, rinderbi@arrl.org, gswanson@arrl.org, ead@arrl.org,
        mike@techimage.com, retrans@garc.gsfc.nasa.gov,
        sarex@wa3nan.gsfc.nasa.gov, w3xo@amsat.org, k6due@amsat.org,
        n5jxs@amsat.org, w5gel@amsat.org, gratclif@itd.adelaide.edu.au,
        py2bjo@amsat.org, kd2bd@amsat.org, w5did@amsat.org,
        mbordel@gp803.jsc.nasa.gov, mbordel@phoenix.net,
        gilbert.carman@jsc.nasa.gov, amsat@uctvms.uct.ac.za,
        jmaynard@oac.hsc.uth.tmc.edu, 71331.1337@compuserve.com,
        70323.2750@compuserve.com, 70115.1136@compuserve.com,
        mindy.deyarmin@ccmail.gsfc.nasa.gov, ckeydash@eos.hitc.com,
        jplbbs@kilroy.jpl.nasa.gov, shines@tenet.edu, ai@iol.ie, KD8PW@aol.com,
        fgibes@aol.com
Message-ID: <v02130508ae03279587f6@[128.183.24.111]>
Rendered body type: text/plain
```

SB SAREX @ AMSAT $STS-78.027
STS-78 SAREX Bulletin #27

Silver Spring, Maryland USA
July 5, 1996 @ 16:00 UTC

As the Life and Microgravity Sciences mission draws to a close over this weekend, SAREX on STS-78 will be remembered by many amateur radio experimenters and students for years to come.

Education scored outstanding achievements on three continents. The scheduled SAREX contacts were 100% successful with the eleven school groups across Australia, France, Canada and the USA. The students' interest in space, math, science and technology were sparked through their contact preparation, as well as by the answers to their combined total of 116 questions posed to six Columbia crew members. Amateur radio and the schools enjoyed substantial news media exposure with multiple television crews and several newspapers visiting nearly every contact site.

Hundreds of random voice contacts were established with hams worldwide, with the number still climbing. Signal strength and gravity-gradient propagation observations are being shared freely among experimenters both on-the-air and through the Internet mail list sarex@amsat.org. New list members are added frequently by e-mailing their request to Paul Williamson at listserv@amsat.org.

Crew members are heard using their personal call signs and often honor their Johnson Space Center Amateur Radio Club by using W5RRR. At times, the simple phrase "Space Shuttle Columbia" has given away the voice from space.

The packet radio robot beacons messages of greetings to the world, as updated occasionally by various members of the crew. The normally tireless W5RRR-1 has not been active during crew sleep periods during this mission, yet the packet QSO count was above 1300 in number this morning and climbing.

The SAREX equipment will be stowed by about 24 hours before landing. However, many in North America will enjoy early morning sighting opportunities depending on one's local lighting conditions.

Landing is scheduled for Sunday, July 7, 1996 at about 12:30 UTC.

Here is the latest Keplerian element set from Gil Carman, WA5NOM, of the NASA/Johnson Space Center:

```
STS-78
1 23931U 96036A   96187.69158781  .00088752  00000-0  12713-3 0  9197
2 23931  39.0136 268.7820 0005581  26.2942 333.8320 16.04641595  2431

Satellite: STS-78
Catalog number: 23931
Epoch time:      96187.69158781   =     yrday.fracday
Element set:     919
Inclination:       39.0136 deg
RA of node:       268.7820 deg
Eccentricity:     .0005581
Arg of perigee:    26.2942 deg
Mean anomaly:     333.8320 deg
Mean motion:   16.04641595 rev/day
```

```
Decay rate:    8.87520E-04 rev/day^2
Epoch rev:             243
Checksum:              337
```

According to Gil, this set will be good through today and until the trim burn on Saturday morning. That burn will be at approximately 1300 UTC, and will lower the altitude by about 5 n.mi., resulting in the orbiter appearing slightly earlier than these elements predict. A Detailed Test Objective (DTO) will raise the orbit by a mile or less and is not expected to further alter one's predictions significantly.

Submitted by (Pat Kilroy, WD8LAQ for) Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

..

```
========================================================================
Patrick L. Kilroy                  Phone:   301-286-5910
TRMM Project Parts Engineer        Fax:     301-286-1695
NASA/Goddard Space Flight Center   E-mail:  pat.kilroy@gsfc.nasa.gov
Building 6, Code 311               WWW URL: http://epims1.gsfc.nasa.gov/
Greenbelt, Maryland  20771                        people/pat_kilroy.html
=========================================================================
```

..

258. STS-78.032 SAREX Bulletin #32 KSC Entry

From: pat.kilroy@gsfc.nasa.gov (Pat Kilroy)
Date: Fri, 5 Jul 1996 16:55:50 -0400
To: tca712@rs710.gsfc.nasa.gov, pmountjo@hr.hq.nasa.gov, wd0hhu@amsat.org,
rwhite@arrl.org, rinderbi@arrl.org, gswanson@arrl.org, ead@arrl.org,
mike@techimage.com, retrans@garc.gsfc.nasa.gov,
sarex@wa3nan.gsfc.nasa.gov, w3xo@amsat.org, k6due@amsat.org,
n5jxs@amsat.org, w5gel@amsat.org, gratclif@itd.adelaide.edu.au,
py2bjo@amsat.org, kd2bd@amsat.org, w5did@amsat.org,
mbordel@gp803.jsc.nasa.gov, mbordel@phoenix.net,
gilbert.carman@jsc.nasa.gov, amsat@uctvms.uct.ac.za,
jmaynard@oac.hsc.uth.tmc.edu, 71331.1337@compuserve.com,
70323.2750@compuserve.com, 70115.1136@compuserve.com,
mindy.deyarmin@ccmail.gsfc.nasa.gov, ckeydash@eos.hitc.com,
jplbbs@kilroy.jpl.nasa.gov, shines@tenet.edu, ai@iol.ie, KD8PW@aol.com,
fgibes@aol.com
Message-ID: <v02130511ae033122c579@[128.183.24.111]>
Rendered body type: text/plain

SB SAREX @ AMSAT $STS-78.032
STS-78 SAREX Bulletin #32

Silver Spring, Maryland USA
July 5, 1996 @ 20:00 UTC

Here is special information on space shuttle Columbia visual and audio opportunities during reentry for those in the west, southwest and south USA as provided by Gil Carman in Houston following this Post Trim 2 element set. Note that this set is to be used *after* July 6 13:34 UTC and before July 7 11:24 UTC.

```
STS-78
1 23931U 96036A   96188.56273114  .00088752  00000-0  12713-3 0  9204
2 23931  39.0137 262.9147 0008808 117.6576 242.5299 16.07065411  2579

Satellite: STS-78
Catalog number: 23931
Epoch time:      96188.56273114   =     yrday.fracday
Element set:     920
Inclination:       39.0137 deg
RA of node:       262.9147 deg
Eccentricity:     .0008808
Arg of perigee:   117.6576 deg
Mean anomaly:     242.5299 deg
Mean motion:   16.07065411 rev/day
Decay rate:    8.87520E-04 rev/day^2
Epoch rev:             257
Checksum:              332
```

Launch: 20-Jun-1996 14:49:00.000 UTC

STS-78 KSC Entry (landing on orbit 272)   7-Jul-1996   Notes at end.

```
        CITY                TIME         ELEV          AZ      ELSUN    BOOM
 1.  San Francisco, CA    12:14:35 UTC    42.6  N    (  5.1)    -6.7    5:43
 2.  Sunnyvale, CA        12:14:40 UTC    30.4  N    (  3.3)    -6.6    7:34
 3.  Sacramento, CA       12:14:45 UTC    76.2  S    (180.0)    -5.6    4:00
 4.  Pine Grove, CA       12:15:01 UTC    78.2  N    (   .0)    -5.0    3:54
 5.  Bakersfield, CA      12:15:23 UTC    11.5  N    (  7.4)    -5.7   17:17
 6.  Fresno, CA           12:15:11 UTC    22.2  N    (  6.8)    -5.4    9:55
 7.  Los Angeles,CA       12:15:37 UTC     7.0  N    (  7.7)    -5.8   24:27
 8.  Diamond Bar, CA      12:15:43 UTC     6.9  N    (  8.5)    -5.6   24:34
 9.  Las Vegas, NV        12:16:14 UTC    22.0  N    ( 11.2)    -2.4    9:45
10.  St. George, UT       12:16:32 UTC    60.6  N    (  9.5)     -.9    4:14
11.  Cedar City, UT       12:16:37 UTC    62.2  S    (190.2)     -.2    4:09
12.  Parowan, UT          12:16:39 UTC    49.2  SSW  (192.5)      .1    4:50
13.  Beaver, UT           12:16:39 UTC    33.0  SSW  (194.1)      .4    6:41
14.  Panguitch, UT        12:16:44 UTC    46.2  SSW  (197.0)      .3    5:03
15.  Fillmore, UT         12:16:40 UTC    19.2  SSW  (195.5)      .9   10:48
16.  Salt Lake City, UT   12:16:38 UTC     8.2  SSW  (194.8)     2.1   21:28
17.  Nephi, UT            12:16:43 UTC    12.3  SSW  (195.4)     1.7   15:41
18.  Farmington, NM       12:17:46 UTC    51.2  SSW  (199.3)     3.0    4:38
19.  Durango, CO          12:17:47 UTC    28.2  SSW  (199.9)     3.5    7:26
20.  Socorro, NM          12:18:20 UTC    19.0  NNE  ( 20.2)     2.9   10:28
21.  Albuquerque, NM      12:18:21 UTC    40.4  NNE  ( 22.0)     3.6    5:24
22.  Santa Fe, NM         12:18:23 UTC    76.0  SSW  (200.5)     4.3    3:37
23.  Denver, CO           12:18:08 UTC     6.0  SSW  (202.8)     6.6   25:22
24.  Tucumcari, NM        12:18:57 UTC    59.0  SSW  (204.8)     5.8    4:07
25.  Amarillo, TX         12:19:25 UTC    30.4  SSW  (203.3)     7.3    6:47
26.  Clinton, OK          12:20:04 UTC    14.0  SSW  (204.3)     9.7   13:11
27.  Wichita Falls, TX    12:20:25 UTC    34.9  SSW  (203.5)     9.6    5:50
28.  Bertram, TX          12:20:55 UTC    14.1  NNE  ( 17.9)     8.9   12:36
29.  Oklahoma City, OK    12:20:28 UTC    11.2  SSW  (204.0)    10.9   15:34
30.  Fort Worth, TX       12:20:54 UTC    85.6  S    (180.0)    10.2    3:18
31.  Gainesville, TX      12:20:50 UTC    30.1  SSW  (202.2)    10.6    6:30
32.  Denton, TX           12:20:54 UTC    44.7  SSW  (198.7)    10.5    4:40
33.  Winfield, KS         12:20:19 UTC     5.3  SSW  (205.7)    11.9   26:13
34.  College Stn, TX      12:21:24 UTC    17.1  NNE  ( 16.5)    10.3   10:28
35.  Dallas, TX           12:21:15 UTC    81.4  NNE  ( 31.8)    10.9    3:17
36.  Tulsa, OK            12:20:46 UTC     6.9  SSW  (204.2)    12.3   22:00
37.  Paris, TX            12:21:15 UTC    20.5  SSW  (201.6)    11.8    8:58
38.  Tyler, TX            12:21:32 UTC    64.3  SSW  (199.3)    11.7    3:32
39.  Friendswood, TX      12:21:50 UTC    11.2  NNE  ( 14.1)    10.9   14:40
40.  JSC                  12:21:52 UTC    11.5  NNE  ( 14.5)    11.0   14:19
41.  Shreveport, LA       12:22:00 UTC    32.3  SSW  (197.4)    13.1    5:46
42.  Ringgold, LA         12:22:10 UTC    34.2  SSW  (198.7)    13.5    5:26
43.  Jonesboro, LA        12:22:22 UTC    32.3  SSW  (197.2)    13.9    5:38
44.  Winnfield, LA        12:22:26 UTC    44.8  SSW  (197.9)    13.9    4:17
45.  Columbia, LA         12:22:37 UTC    31.7  SSW  (193.8)    14.5    5:38
46.  Baton Rouge, LA      12:23:07 UTC    36.9  N    (  9.7)    14.8    4:49
47.  New Orleans, LA      12:23:34 UTC    25.7  N    (  8.1)    15.6    6:28
48.  Birmingham, AL       12:24:56 UTC     7.6  S    (183.3)    19.6   16:45
```

Notes: These times and elevations are at the point of closest approach (peak elevation) for each city. ELSUN is the Sun's elevation for that city at that time. BOOM is the estimated length of time (MIN:SEC) after closest approach when the sonic boom may be heard. However, it is unlikely that the boom can be heard if peak elevation is less than about 20 deg. The fireball and plasma trail should be visible in twilight over northern California and southwestern Utah, but will not be visible east of Utah because it will be in daylight then.

Gil Carman, WA5NOM

Submitted by (Pat Kilroy, WD8LAQ for) Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

..

```
========================================================================
Patrick L. Kilroy                  Phone:   301-286-5910
TRMM Project Parts Engineer        Fax:     301-286-1695
NASA/Goddard Space Flight Center   E-mail:  pat.kilroy@gsfc.nasa.gov
```

```
Building 6, Code 311              WWW URL: http://epims1.gsfc.nasa.gov/
Greenbelt, Maryland  20771                       people/pat_kilroy.html
========================================================================

..
```

---

259. OOPS

From: KD4EMI@aol.com
Date: Sat, 6 Jul 1996 10:53:50 -0400
To: aprssig@tapr.org
Message-ID: <960706105349_350390054@emout10.mail.aol.com>
Rendered body type: text/plain

```
Nevermind...I found 76D in the upload section...


I was looking in the regular file section...
Thanks
Mike
KD4EMI@AOL.COM
```

---

260. Re: [APRSSIG:2837] Re: SAREX ?

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Sat, 06 Jul 1996 08:55:25 -0600
To: aprssig@tapr.org
Message-ID: <31DE7E5D.7315@slkc.uswest.net>
Rendered body type: text/plain

```
> What you witnessed was the QSL list which is transmitted periodically so that
> SAREX stataions on the ground can snag it and route it to JSC for archiving.
>
> 73, gerry
> n5jxs@tamu.edu

Thanks, Gerry - that may be the only surviving documentation of my
digi'd packet.  Murphy was definitely here that morning, as five minutes
after the pass ended (AND before I had time to save the log) APRS locked
up when a completely malevolent DOS program was started by the Win95
task scheduler.  Naturally, it being 4 am, I wasn't coherent enough to
write down the qso number from the screen either (it had minimized when
the other program started).

It sure was a fun experiment, though.  After reading your comments about
uplink power, I realize that my 10 watts and very small beam were just
about the absolute minimum required to do the job!

Clearly, there were a lot of sleepless nights for folks on the sig - and
I have to say,  IT WAS WORTH EVERY SECOND OF IT!  Can't wait for the
next APRS-permitted mission!

73 to all
Doug
KC7CO
Radio Free Utah
```

---

261. Re: [APRSSIG:2825] Re: _^Cd

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 10:07:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061507.KAA00715@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Regards the Developers kit for PM 2.0:  I have it and have made small steps
toward getting calls off the TNC for multiple vehicle tracking.  MY initial
work is multi-phase:  Work R&D related as well as ham implementation, but with
NO support for decoding wx or other special APRS "stuff" that will take
significant time.  Vehicle tracking is what I have to concentrate on.  I'll
advise when I have some code to share, but I can't say when

For what it's worth, APRS will receive a prominent mention at the GIS/LIS '96
meeting in Denver, Nov 17-21:  Cows In Space will be presented there at our
first major (and second real) meeting.  APRS with Bob's modification to allow
continuous NMEA logging was instrumental in capturing data.

This, and a set of new projects, plus promotion to a senior researcher, are
really clamping down on my hobby development time!

73, gerry
```

262. Re: [APRSSIG:2840] Band opening?

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sat, 06 Jul 1996 10:18:42 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960706151842.006b2988@tbcnet.com>
Rendered body type: text/plain

```
I just hooked VE3NP and N0AN and saw they were both going GATE, WIDE.
So perhaps you were seeing them via HF

jbl



At 09:32 7/6/96 -0500, you wrote:
>I just got WinAPRS installed!  Is it normal to see stations 800 - 1000
>miles away or is there a band opening?  I'm seeing, among others,      VE3NP,
>KB1DD, N0AN, and N6OAA.  I'm in Granbury, Tx. which is 35 miles SW of FT.
>Worth.
>
>Roy Bost
>N5TAM
>rbost@itexas.net
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

263. STS-78 element set JSC-920 (06-Jul-96) (fwd)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 6 Jul 1996 10:51:10 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061551.KAA01061@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Carman, Gilbert L. sez:
> Date: Sat, 06 Jul 1996 10:20:27 -0500
> Subject: STS-78 element set JSC-920 (06-Jul-96)
>
>
>
> STS-78
> 1 23931U 96036A   96188.56273114  .00088752  00000-0  12713-3 0  9204
> 2 23931  39.0137 262.9147 0008808 117.6576 242.5299 16.07065411  2579
>
> Satellite: STS-78
> Catalog number: 23931
> Epoch time:      96188.56273114   =     yrday.fracday
> Element set:     920
> Inclination:       39.0137 deg
> RA of node:       262.9147 deg
> Eccentricity:     .0008808
> Arg of perigee:   117.6576 deg
> Mean anomaly:     242.5299 deg
> Mean motion:   16.07065411 rev/day
> Decay rate:    8.87520E-04 rev/day^2
> Epoch rev:            257
> Checksum:             332
>
>
> Gil Carman
>
>
>



--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

264. GPS+GLONASS

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 6 Jul 1996 09:33:35 -0700
To: aprssig@tapr.org

Message-ID: <199607061633.JAA09073@poseidon>
Rendered body type: text/plain

ALL APRS SIG'ers... GPS/GLONASS INFO.. 061600GMT JUL 96

Very interesting and informative 7 page article in the May/June issue of Marine Electronics (the official journal of the NMEA), p29.

Explains and describes the technical, electronic features of both GPS and the Soviet GLONASS systems, Integrity, Accuracy, How both work, Basic Idea, Satellite Ranging, Signal Structure, PRN codes, Frequency, Almanacs, EPHEMERIDES, (whatever that big word means) and much more.

The Ashtech GG24 Receiver, (only one copying both GPS/GLONASS) in one receiver and available in two different formats: 1. OEM Board, Eurocard Format, 2. Sensor, with power supply and internal PCMCIA memoray card.

(Ashtech in Sunnyvale CA. no address, Phone 408-524-1400), no prices listed I called and asked for brochure/price.. Reported to be very accurate 1-5meters copying 12 stallites from each,both GPS & GLONASS now in obit and operational. GPS FEQS- 1575.42MHz/1227.60, GLONASS on 1602+Kx0.5625 MHz,Ke[-7,24] and 1246+Kx0.4375 MHz, Ke[-7,24] whatever that means. Hi..

Those intgerested might also call NMEA for reprint of article 919-638-2626, FAX 919-638-4885, will probable be charged.

Also a two page article on Leica GPS Division, who acquired Magnavox GPS systems, may be possible for tech support to those on sig who acquired the Magnavox MX4200 GPS Receivers, reciently from surplus. Call Scott Lee, Leica GPS, 23868 Hawthorne Blvd, Torrance, CA. 90505. Phone 310-791-5300, FAX 310-791-6108..

"Disclamier.. I am in no way connected or associated nor do I receiver monitary benefits from any of the above named enteprises. This info for benifit of my fellow sig members.."" No flames, no more questions please.

73's & Enjoy, Bill/WB6LPG @ KA6EYH <wbliss@coastside.net)

See "http://www.sfbaysss.org/transpac96/" for Yachting info on Pacific ocean and west coast. Uplinking posits on APRS via HF/10151 an additional Vancouver,BC to Hawaii race at this time and Mon 7/8 the LAX/SDiego 60 boat Transpac Race to Hawaii begins, unknow if any APRS envolment. Why not APRS'rs in S-Calif. ?????

NNNN
WBB/WB6LPG

---

265. Re: [APRSSIG:2843] Quick question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 6 Jul 1996 12:49:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960706124835.2577C-100000@arctic>
Rendered body type: text/plain

On Sat, 6 Jul 1996 KD4EMI@aol.com wrote:

> Whats the latest version of APRS is it 75C ?
> There are some guys running 75D or E ? around here...

APRSdos REPLY COMMENT: If you care to wait a week, 76f will be out... 76d is still the last full version tho 76e was put out EXE only for SAREX.

de wb4apr@amsat.org

---

266. Shuttle Ionization APRS reception

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sat, 6 Jul 1996 13:29:37 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae045fd2ff0d@[204.251.33.23]>
Rendered body type: text/plain

Tomorrow morning, as the Shuttle reenters, the ionization trail should provide a reflector for VHF packet APRS posits. Watch your maps during the following times:

Event	Time UTC	EDT	CDT	MDT	MST/PDT*
Arrives over West Coast	12:14	8:14	7:14	6:14	5:14

Enters Nevada	12:15	8:15	7:15	6:15	5:15
Overflies "Four Corners"	12:17	8:17	7:17	6:17	5:17
Overflies Dallas, TX	12:21	8:21	7:21	6:21	5:21
Overflies Mississippi Coast	12:24	8:24	7:24	6:24	5:24
KSC Touch down	12:37	8:37	7:37	6:37	5:37

Perhaps we could get local GATEs to observe radio silence during that time.

Ron W5RKN

also:
rparsons@bga.com

---

267. Re: [APRSSIG:2833] Ultimeters CHANGED

From: Ron Malinowski <weather@xnet.com>
Date: Sat, 6 Jul 1996 13:34:17 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607061834.NAA29395@flood.xnet.com>
Rendered body type: text/plain

At 07:59 AM 7/6/96 -0500, you wrote:
>I was just informed of a production change in the Ultimeter 500 and
>2000. THey have added 8 additional bytes onto the data format and since
>APRS uses the character count as a validation of the string, these new
>devices will NOT work with existing versions of APRS!
>
>I will fix it. But if you just got a new ULtimeter, this may explain
>why it doesnt work with APRS!

Hi Bob, what is new, mine was purchased at Dayton, I believe mine works alright with Dos and Mac versions, but I am curious does these new units do something more with these 8 bytes, anything we users should be concerned about?

---

268. Re: [APRSSIG:2736] Re: DFjr Card

From: Joseph Agrelo <jagrelo@cris.com>
Date: Sat, 06 Jul 1996 15:06:07 -0700
To: aprssig@tapr.org
Message-ID: <31DEE34F.38F8@concentric.net>
Rendered body type: text/plain

William Nolle wrote:

> that Hi. Is everything else correct?.
>
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Looks ok to me.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
1145 Catalyn St. Schenectady, NY 12303 USA
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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269. Re: [APRSSIG:2737] Re: DFjr Card

From: Joseph Agrelo <jagrelo@cris.com>
Date: Sat, 06 Jul 1996 15:07:23 -0700
To: aprssig@tapr.org
Message-ID: <31DEE39B.13CB@concentric.net>
Rendered body type: text/plain

William Nolle wrote:

> I fixed it Joe and uploaded the new files to tapr. Couldn't paste it tough because i
> have CorelDraw on another computer Hi. The files are called DFJR4.ZIP and DFJR4.TXT
>
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Great! I will go retreive it. Thanks!

```
73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

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270. APRS/TRANSPAC96 SPECIAL EVENT

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 6 Jul 1996 12:13:58 -0700
To: aprssig@tapr.org
Message-ID: <199607061913.MAA09842@poseidon>
Rendered body type: text/plain

APRS SPECIAL EVENT...
  The Singlehanded Sailing Society Solo Yacht race, underway since Noon last Saturday June 29th. Mike/WD6EHQ on S/V Foxx Fyre has been passing twice daily AM/PM Position reports on the 16 Yachts, to Bill/KB6LFM on Pactor 14065/10137 Kcs. We then relay to Yacht Comittee via Fax, to parties on Internet, and other Hams. Reports and comments appear on local Packet BBS (APRS@ALLUS).
  I have uplinked all on HF/10151 for any/all APRS HF to downlink to their own area VHF stations. Would appreciate any reports on how far back EAST/NW/SW/MidWEST any/all have copied.
  Also a Victoria, BC to Hawaii race has been plotted and uplinked of another Yacht race , all boats now in same area.
  Monday a 60 boat fleet, will leave SanDiego/Lax area Monday 8th, don't know if any APRS coverage or not.
  We need efforts to get more S/V and Yacht Clubs interested in APRS for tracking. Anticipate a Calif to Mexico race this Fall, and hope to have Rick/KN6KB , S/V SECOND WIND, running GPS tracking sometime in November.

More info on your Internet Address, Yachting, Sailing, Weather.

http://www.sfbaysss.org/transpac96/ , also just search with words Sailing will get you much info.

73's & Enjoy, Bill/WB6LPG@KA6EYH <wbliss@coastside.net> just past 70 and still kickin. 7/3/26
NNNN

WBB/WB6LPG

---

271. Re: [APRSSIG:2833] Ultimeters CHANGED

From: Steve Sable <ssable@ic.net>
Date: Sat, 06 Jul 1996 15:50:34 -0400
To: aprssig@tapr.org
Message-ID: <m0ucdNX-003MdQC@ic.net>
Rendered body type: text/plain

At 07:59 AM 7/6/96 -0500, you wrote:
>I was just informed of a production change in the Ultimeter 500 and
>2000. THey have added 8 additional bytes onto the data format and since
>APRS uses the character count as a validation of the string, these new
>devices will NOT work with existing versions of APRS!
>
>I will fix it. But if you just got a new ULtimeter, this may explain

```
>why  it doesnt work with APRS!
>
>de wb4apr@amsat.org
>
>
>
I got my 500 a few months ago and had a heck of time getting it to work with
the computer. Peet Bros replaced everything to no avail. I gave up. At
Dayton I talked to William J Peet II who informed me that they developed a
new data cable from the key-pad to the computer. Instead of the DB-9 they
went to a RS-232 connector. Something about the newer computer's have a
reference voltage change from older model's. At any rate this finally did
the trick for my system and I run 76e with no problems that I am aware of.
Hope this tib-bit is of some use.
Will wtach the SIG further info. 73 de N8NYU
```

---

272. MAR-6 update.bis

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Sat, 06 Jul 1996 16:32:21 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960706203221.00891a2c@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
Sorry if this is the second time, but it seems the first try didn't made it
through:


Just a short notice to inform everyone on the evolution of the process.

I received the MAR-6's early this week. I'm ready to ship them back.

I had send personal e-mail last week to all the interested parties with
details about payment, address... I know that at least one of these e-mail
bounced (K5AHE, for instance, can't get an e-mail to you now).
I already started shipping to those who answered.

A copy of the above mentioned details is at the end of this e-mail so
hopefully everyone will get it now.
Address and phone (at work) are there too, BUT phone is not a good way to
reach me (doing experiments in a not-phone-equipped lab, most often I can't
answer).

I started to put together some ideas and a possible layout for the pre-amp,
I will upload that as time permit... (deadlines, papers and such, those
working in academic environment know that). I'm working on a prototype too...



----------------------------

Hi,

I received confirmation that the MAR-6 will be shipped to me before June 27.
It's now time for you to send me your payment so I can re-ship your units as
soon as possible.

Send me your payment, by check, money order, or even cash in the envelope
(but you take the responsibility if I don't receive it), in US$. The price
is still 2$ per unit, :-), including handling, shipping, ...

My address is:

Bernard SERONT
Earth and Space Sciences
State University of New York
STONY BROOK, NY, 11794-2100.

Just attach a short note with your payment with the quantity of MAR-6 you
want, and if you want the standard case or surface mount. Don't forget to
put YOUR address somewhere, so I know where to ship!

or just print and fill (or fill and print) the following:

--------------------------------------------------------------

          Name  :
Street Address  :
                :
                :
```

```
                :
Town, State, Zip:


MAR-6 standard case   :  Qty:    * 2$   =
MAR-6SM surface mount :  Qty:    * 2$   =

                              Total     =

---------------------------------------------------------------

If you need to contact me, feel free, e-mail is the -faster- way.

Bernard, KB2TGH.



---------------------------------------------------------
<<><><>>              Bernard Seront
|      |   e-mail:  seront@seism1.ess.sunysb.edu
| (o)(o)   http://rock.ess.sunysb.edu:8080/
\      _)  addr:  Department of Earth and Space Sciences
 | ,___|     State University of New-York at Stony Brook
 |___/               STONY BROOK, NY, 11794-2100, USA
/    \     phone: (516)632-8302    fax: (516)632-8240
```

273. Re: [APRSSIG:2860] APRS/TRANSPAC96 SPECIAL EVENT

From: KD4EMI@aol.com
Date: Sat, 6 Jul 1996 17:03:30 -0400
To: aprssig@tapr.org
Message-ID: <960706170329_232117179@emout19.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-07-06 15:58:34 EDT, you write:

>ocal Packet BBS (APRS@ALLUS).
>   I have uplinked all on HF/10151 for any/all APRS HF to downlink to
>their own area VHF stations. Would appreciate any reports on how far back
>EAST/NW/SW/MidWEST any/all have copied.

Getting them Here in South Florida pretty regularly...
(I wonder if you guys out west ever see me ?)

Mike KD4EMI@AOL.COM
(gate on 10.151)

274. Re: [APRSSIG:2839] KB0UZQ's infamous overnight APRS/STS-78 contact report...

From: ku0g@sprynet.com
Date: Sat, 6 Jul 1996 14:12:23 -0700
To: aprssig@tapr.org
Message-ID: <199607062112.OAA25725@m1.sprynet.com>
Rendered body type: text/plain

I might suggest the text of the first movement of Carl Orff's "Carmina Burana"
would be most fitting!

"O Fortuna Imperatrix..." (O Fortune, Queen of Destiny...)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

275. Re: [APRSSIG:2839] KB0UZQ's infamous overnight APRS/STS-78 contact report...

From: ku0g@sprynet.com
Date: Sat, 6 Jul 1996 14:13:39 -0700
To: aprssig@tapr.org
Message-ID: <199607062113.OAA25874@m1.sprynet.com>
Rendered body type: text/plain

Of course the following would ALSO be most appropriate...

"Dies Irae, Dies Ilae"

"Day of Ire, Day of Ill"

Best 73,
Jim Duncan, KU0G

APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

276. Re: [APRSSIG:2863] Re: APRS/TRANSPAC96 SPECIAL EVENT

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Sat, 06 Jul 1996 15:50:06 -0600
To: aprssig@tapr.org
Message-ID: <31DEDF8E.389E@slkc.uswest.net>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> In a message dated 96-07-06 15:58:34 EDT, you write:
>
> >ocal Packet BBS (APRS@ALLUS).
> >   I have uplinked all on HF/10151 for any/all APRS HF to downlink to
> >their own area VHF stations. Would appreciate any reports on how far back
> >EAST/NW/SW/MidWEST any/all have copied.
>
> Getting them Here in South Florida pretty regularly...
> (I wonder if you guys out west ever see me ? )
>
> Mike KD4EMI@AOL.COM
> (gate on 10.151)

We see you in Utah fequently, Mike

Doug
KC7CO
```

277. Re: [APRSSIG:2865] Re: KB0UZQ's infamous overnight APRS/STS-78 contact

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Sat, 06 Jul 1996 15:52:24 -0600
To: aprssig@tapr.org
Message-ID: <31DEE018.35F4@slkc.uswest.net>
Rendered body type: text/plain

```
Since most of the passes were in what amounted to the dead middle of the
night, I submit the following:

"Carpe Denim"

Of course, "Seize the pants"

;-0

Doug
KC7CO
Radio Free Utah
```

278. WXHURR2 had errors

From: KSwaggart@aol.com
Date: Sat, 6 Jul 1996 23:38:38 -0400
To: aprssig@tapr.org
Message-ID: <960706233837_150258669@emout17.mail.aol.com>
Rendered body type: text/plain

```
Hi again,

  My apologies - WXHURR2.ZIP was uploaded with errors. No all (I hope) errors
are corrected - file is WXHURR3.ZIP on tapr.org.

73, Ken, W7KKE
kswaggart@aol.com
```

279. GPS-20 less deaf

From: David Rush <n0oxh@alikazam.sprintcorp.com>
Date: Sat, 06 Jul 1996 23:30:16 -0500
To: aprssig@tapr.org
Message-ID: <199607070430.XAB00775@alikazam.sprintcorp.com>
Rendered body type: text/plain

```
Folks:

>From day one my GPS-20 has been spitting out out data, but has not yet
gotten its first fix.

Until today, all I could see was the unit cycling through all of the
```

satellites, never reporting more than one at a time.

After watching it do this for a couple of hours today, I pulled my GPS-20 off the roof and installed a pair of 10 uF caps; one on the input and one on the output of the 7505 regulator.

It now reports a slowly changing variety of eight satellites, with varying azimuths. But most of the elevations are zero. Typically I'll see just two birds with non-zero elevations. After running for quite some time, I started seeing non-null S/N reports, but never more than two at once, and more typically just one.

It ran like this for about three hours. Still no fix. The clock is about 25 seconds off, and I'm just a few miles from Garmin here in Kansas.

Here's some sample output:

```
$GPGGA,032807,,,,,0,00,,,M,,M,,*68
$GPGSA,A,1,,,,,,,,,,,,,,,,*1E
$GPGSV,2,1,08,03,,115,,04,35,258,,21,,013,,23,,350,41*7A
$GPGSV,2,2,08,24,05,243,,26,,271,,27,17,208,,28,,127,*70
$PGRME,,,,,,*4D
$GPVTG,,T,,M,,N,,K*4E
$GPRMC,032808,V,,,,,,,070796,,*3F
$PGRMT,GPS 20-00 VER  1.33 ,P,P,R,R,P,,42*1F
$GPGGA,032808,,,,,0,00,,,M,,M,,*67
$GPGSA,A,1,,,,,,,,,,,,,,,,*1E
$GPGSV,2,1,08,03,,115,,04,35,258,,21,,013,,23,,350,41*7A
$GPGSV,2,2,08,24,05,243,,26,,271,,27,17,208,,28,,127,*70
$PGRME,,,,,,*4D
$GPVTG,,T,,M,,N,,K*4E
$GPRMC,032809,V,,,,,,,070796,,*3E
$GPGGA,032809,,,,,0,00,,,M,,M,,*66
$GPGSA,A,1,,,,,,,,,,,,,,,,*1E
$GPGSV,2,1,08,03,,115,,04,35,258,,21,,013,,23,,350,41*7A
$GPGSV,2,2,08,24,05,243,,26,,271,,27,17,208,,28,,127,*70
```

Anybody have any ideas about what's wrong? Should I try smaller caps? What are the *hh fields at the end of each sentence?

I'm using a quarter-wave ground-plane antenna, made from RG-58. Feedline length is the length of the supplied mini-coax, plus about three inches of RG-58 before its split open for the antenna.

David, n0oxh@alikazam.sprintcorp.com

---

280. oops...

From: N5RKN@aol.com
Date: Sun, 7 Jul 1996 01:13:52 -0400
To: aprssig@tapr.org
Message-ID: <960707011352_350976029@emout13.mail.aol.com>
Rendered body type: text/plain

Well, Bill.... this may explain a lot on the questionable dates and/or times from
N5RKN-8 listings here in West Texas. I checked the station today and found that
for whatever reason, the KPC-3 had a date set of 6/29, and 1 hour earlier.
 So,
disregard the darn msgs from me, as it would take too much to sit and figure the
differential. All I can say is: Sorry 'bout that.
  73' Robert

---

281. Re: [APRSSIG:2817] Re: _d

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 7 Jul 1996 00:49:20 -0500
To: aprssig@tapr.org
Message-ID: <199607070549.AAA09832@misha.net>
Rendered body type: text/plain

>- Cheap! wrote:
>>
>>   Kent
>>
>>   KQ4KK
>
>I got this message twice already this morning!. Not many (If any) on the sig

```
>have a laptop with a CD-Rom and according to their website that's what it
>takes to run the version that will work with GPS.
>
  I went thru awsum gyrations to get the regular mapping program to run  on
my non-cd equiped laptop. I was able to get the mapping program and GPS
program to run on my laptop. I was told my e-mail support from the company
to copy the state map to a specific directory. I then looked at the file for
Illinois. it was 17MEGS!! I managed to laplink it over but the program didnt
recognize it. Even though I bought the program, no further info/support was
forthcoming to fill in the Grand Canyon wide gap of how to make it work
right. I remarked that they make a way to create installable floppy disks or
some other creative way to install the needed files w/o a CD. I didnt get
the courtesy of a reply.
 On my desktop unit I could get the mapping and GPS software to work great.
Unfortunately the PC is in the basement and the GPS doesnt read satellites
too well there. So.... I'm not too inpressed with it yet enough to plunk
down another 60 bucks to run it on my laptop. Maybe the developers should
get their laptops with cd-roms taken away and then make them re-write it for
us normal folks.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

282. Re: [APRSSIG:2828] Re: _d

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 7 Jul 1996 00:53:43 -0500
To: aprssig@tapr.org
Message-ID: <199607070553.AAA09932@misha.net>
Rendered body type: text/plain

```
>  I also have a notebook with cdrom, but it is my understanding that it
>is possible to run PM with perhaps just your own state or local area off
>the HD only (no cdrom).
>
>Bob - wd6dod
disable the cd-rom drivers on the laptop, connect a laplink cable to a PC
with a cd rom, Then try it.  Allow plenty of time <grin>.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

283. Re: [APRSSIG:2829] Re: _d

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 7 Jul 1996 00:59:14 -0500
To: aprssig@tapr.org
Message-ID: <199607070559.AAA10072@misha.net>
Rendered body type: text/plain

```
>Installing Map Data on a Laptop
>
>Precision Mapping data can be installed manually on a laptop for use when a
CD-ROM is not
>available.  This procedure is not recommended and is not supported by
technical support.  The
>following procedure describes the manual installation of map data:......
>
This may work.. I tried to do this before based on what their tech support
told me. I couldnt make it work right. Maybe  that's why Tech Support wont
support it.

   I could hope they would develope a way to make it work instead of telling
the world how to try the following procedure then dissolve themselves of any
support. That doesn't set well with me for some reason. Although I do like
the maps...

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

284. Re: [APRSSIG:2840] Band opening?

From: rsellers@misha.net (Roger Sellers)
Date: Sun, 7 Jul 1996 01:03:37 -0500
To: aprssig@tapr.org
Message-ID: <199607070603.BAA10201@misha.net>
Rendered body type: text/plain

>I just got WinAPRS installed! Is it normal to see stations 800 - 1000
>miles away or is there a band opening? I'm seeing, among others,   VE3NP,
>KB1DD, N0AN, and N6OAA. I'm in Granbury, Tx. which is 35 miles SW of FT.
>Worth.
>
>Roy Bost
>N5TAM
>rbost@itexas.net
>

Yes if your picking up a HF Gateway station. I'm in northern Illinois and
can see stations into Canada, the east coast, and Florida when a local
Gateway is active. Otherwise we have about 60 active in Northern Illinois area.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

---

285. Multiple NMEA data feeds

From: "Jay K. Jeffries" <bottmgun@emi.net>
Date: Sun, 7 Jul 1996 06:42:41 -0400
To: "'APRS SIG'" <aprssig@tapr.org>
Message-ID: <01BB6BCF.862E3C80@ttyEJ.emi.net>
Rendered body type: text/plain

For a school project, I have to log differential GPS position, compass heading, and depth of seawater and plot depth vs. position. I will have a Garmin 45 with the GBR-21 Differential Receiver, an Autohelm ST-30 Digital Depth Sounder, a KVH 1000 Magna Flux Compass, an NMEA 0183 Interface block (takes up to 4 NMEA inputs and outputs to a single RS-232 port, price $189), and a 486/33 laptop.

Can I use APRS for this or do I have to purchase the $2000 Micro Nav marine data logging package for this? I have to fund this out of my pocket and have been able to scrounge the hardware, software is now the issue. Thanks for your help in advance.

Jay Jeffries

---

286. Re: [APRSSIG:2794] Re: SHOWTIME/GPS-20

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Sat, 06 Jul 1996 13:16:30 -0400
To: aprssig@tapr.org
Message-ID: <199607071316.IAA02362@tapr.org>
Rendered body type: text/plain

Hello Toni;

Thanks to your help I have SHOWTIME working. It is quite a FREE
program. It is evident Dr.Tom has put considerable time and effort into
it. I am wondering if and when he will release to TAPR the hardware
side of the TAC project.

At 02:31 AM 7/5/96 -0500, you wrote:

>A question for the SIG.
>
>Garmin communication program ver A.01.06.04 does not communicate
>with my GPS-20, it cannot ident the GPS-20. Any clues?
>

I saw the answer you got from a SIG member on this qyestion. Have you
found a way to get the GPS-20 to 'speak Garmin' instead NMEA?

>
>Check that you are using the garmin.gps file instead the
>showtime.gps, the later defaults to Motorola receivers.

It finaly sunk in that I had to change the name to SHOWTIME.GPS
I did not see that in the DOCs.

TNX again and -73- Charlie
-73- For Now Charlie K3VDB

```
    __  _    ______   __      _    ______    ______
   / / / )  /_/____)  \ \ ___ / )  / /__  )  / /__  )
  / /<  /     __/_/    \ \   / /  / /  / /  / / _/ /
```

```
 / /  | |   __/__/      \ \ / /  / /__/ /  / /__/ /
/_/___|_|_/_____/________\_X_/__/_/____/__/_/____/
 \ On Satellites KO-23 KO-25  AO-13 modes B & S /
  \          E- Mail  k3vdb@amsat.org          /
   \------------------------------------------/
```

---

287. APRS SEATTLE??

From: DDOBBINS@aol.com
Date: Sun, 7 Jul 1996 09:45:28 -0400
To: aprssig@tapr.org
Message-ID: <960707094527_571351203@emout15.mail.aol.com>
Rendered body type: text/plain

If there's anybody on the SIG from Seattle, please email me direct. I'm making changes to the WASOUND.MAP, based on numerous GPS track histories collected over past year. Also, I have mods to WAYAKIMA.MAP if anyone's interested. Aloha, Dave, temp qth Spokane.

---

288. Nebraska Maps Available

From: Dave Kaplan <dkaplan@pionet.net>
Date: Sun, 7 Jul 1996 09:36:42 -0500
To: aprssig@tapr.org
Message-ID: <9607071436.AA19409@ELWOOD.pionet.net>
Rendered body type: text/plain

I have uploaded to TAPR a full set of maps for the state of Nebraska. There are 24 32 mile maps as well as a map of the state showing all counties. The files is zipped as per the documentation supplied with APRS. The set is called NEMAPS01.ZIP. It was in the upload area at TAPR but I'm sure it has been moved by now.

Since this is my first major attempt at map making any and all comments (or problems) would be appreciated.

Dave

---

289. DFjrCard

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 07 Jul 1996 09:51:56 -0700
To: aprssig@tapr.org
Message-ID: <31DFEB2C.7B67@worldnet.att.net>
Rendered body type: text/plain

I have uploaded the latest and LAST quick reference card file to Tapr.
I cleaned up i couple of things and added a little bit of text, but no
big change. Just wanted to let those that use it know. It's called
DFjrCard.txt and DFjrCard.zip, i figured i better change the name because
some people may think it's a file describing the DFjr or whatever Hi.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

290. Re: [APRSSIG:2861] Re: Ultimeters CHANGED

From: Ron Malinowski <weather@xnet.com>
Date: Sun, 7 Jul 1996 12:11:51 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607071711.MAA23001@flood.xnet.com>
Rendered body type: text/plain

>I got my 500 a few months ago and had a heck of time getting it to work with
>the computer. Peet Bros replaced everything to no avail. I gave up. At
>Dayton I talked to William J Peet II who informed me that they developed a
>new data cable from the key-pad to the computer. Instead of the DB-9 they
>went to a RS-232 connector. Something about the newer computer's have a
>reference voltage change from older model's. At any rate this finally did
>the trick for my system and I run 76e with no problems that I am aware of.
>Hope this tib-bit is of some use.

I was wondering, I plan to use the 2000 as stand alone, and the cable they sent was a 9 pin, all I need to do is buy an adapter to 25 and plug it into the KPC-3? Or does peet have a 25 pin data cable that plugs right into the KPC-3? Just wondering.
Ron

---

291. Re: [APRSSIG:2875] Multiple NMEA data feeds

```
From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sun, 07 Jul 1996 13:11:51 -0400
To: aprssig@tapr.org
Message-ID: <31DFEFD7.3A4B@pobox.com>
Rendered body type: text/plain
```

```
Jay K. Jeffries wrote:
>
> For a school project, I have to log differential GPS position, compass heading, and depth of seawater
and plot depth vs. position.  I will have
a Garmin 45 wit
>
> Can I use APRS for this or do I have to purchase the $2000 Micro Nav marine data logging package for
this?  I have to fund this out of my
pocket and have been
>
> Jay Jeffries


Jay:  You didn't mention what you were using for a NMEA interface, but I
assume it's an electronic device that accepts NMEA from the various
sources and outputs them sequentially to the RS-232 port and into the
computer.

Once you have the NMEA data coming into the computer you don't need (I
think) the Micro Nav data logger.  I believe just about any software that
does the logging for you will suffice.

You should be able to find plenty of software to help you out at Peter
Bennet's ftp site.  Start at

    http://vancouver-webpages.com/peter/index.html


Good Luck,

Lew
```

---

292. Re: [APRSSIG:2881] Re: Multiple NMEA data feeds

```
From: Ed Troy <etroy@aeroconsult.com>
Date: Sun, 07 Jul 1996 14:54:58 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960707185458.006bb3ac@popmail.voicenet.com>
Rendered body type: text/plain
```

```
At 12:31 PM 7/7/96 -0500, you wrote:
>Jay K. Jeffries wrote:
>>
>> For a school project, I have to log differential GPS position, compass
heading, and depth of seawater and plot depth vs. position.  I will have
>a Garmin 45 wit
>>
>> Can I use APRS for this or do I have to purchase the $2000 Micro Nav
marine data logging package for this?  I have to fund this out of my
>pocket and have been
>>
>> Jay Jeffries
>
>
>Jay:  You didn't mention what you were using for a NMEA interface, but I
>assume it's an electronic device that accepts NMEA from the various
>sources and outputs them sequentially to the RS-232 port and into the
>computer.
>
>Once you have the NMEA data coming into the computer you don't need (I
>think) the Micro Nav data logger.  I believe just about any software that
>does the logging for you will suffice.
>
>You should be able to find plenty of software to help you out at Peter
>Bennet's ftp site.  Start at
>
>    http://vancouver-webpages.com/peter/index.html
>
>
>Good Luck,
>
>Lew
>
>
>
```

I'm not quite sure what you are trying to do, and what your interfaces are,
but I have been doing a lot of work for an upcoming book on GPS involving
the comparison of various receivers and systems. In order to do this, I
needed to perform large data takes using many receivers at the same time.
To do this, I used Windows 95, a multiple (8 port) serial card from Comtrol
(it is called a RocketPort), and the latest version of Delrina Wincom.
Using this I could open up to 11 simultaneous comm sessions (actually 10
since my mouse uses one comm port, but who's counting). Then, I could log
all the data I wanted, and save the data to files, and then do whatever I
wanted to with the data later. It is one of the only comm programs that I
know of that will support comm ports beyond 4, and it is also one of the
only ones that will allow you to have multiple instances of the program open
at the same time. It worked flawlessly for me. Of course if you don't need
more than 4 comm ports, you can just go with conventional i/o boards, and
save a bunch of money, since the Comtrol board is a few hundred bucks.

Ed

---

293. Re: [APRSSIG:2879] DFjrCard

From: Joseph Agrelo <jagrelo@cris.com>
Date: Sun, 07 Jul 1996 15:45:15 -0700
To: aprssig@tapr.org
Message-ID: <31E03DFB.3FDA@concentric.net>
Rendered body type: text/plain

William Nolle wrote:
>
> I have uploaded the latest and LAST quick reference card file to Tapr.
> I cleaned up i couple of things and added a little bit of text, but no
> big change. Just wanted to let those that use it know. It's called
> DFjrCard.txt and DFjrCard.zip, i figured i better change the name because
> some people may think it's a file describing the DFjr or whatever Hi.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Hey Bill,

I just downloaded your latest files within (dfjrcard.zip). Looks good
but I have a couple of comments. Your spelling of Treshold is incorrect,
it should be Threshold with an "h". Funny thing...I wonder if there is
something wrong with the "h" on your keyboard, cause I noticed in lots
of your e-mail you always leave out the "h" in words like though, and
through.

Also where you have Agrelo Engineering, Home of the DFjr, it would be
nice if you added our phone number (800)588-4300.

Credit, where credit is due-
You did a very nice job of enhancing the original card from Mike Musick
N0QBF, Thanks! to both of you for saving me the time of doing it myself,
which it seems I have less and less of lately;-)

I will add a link from our web site to obtain the card, when it's
complete.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
1145 Catalyn St. Schenectady, NY 12303 USA
(518)381-1057
(518)381-1058
E-Mail: Jagrelo@concentric.net
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler and talking products
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

294. Garmin GPS-20 UPdate

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 7 Jul 1996 14:50:27 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing), tapr-bb@tapr.org (TAPR-BB mailing)
Cc: psr@tapr.org (PSR)
Message-ID: <199607071950.OAA19253@tapr.org>

Rendered body type: text/plain

Greetings.

Here is an update on round two of the TAPR group buy on GPS-20 units.

As of today (7/7/96) the TAPR office has received orders for 40 of the 75 units required.

We need another 35 orders before we can place the group purchase.

Information and pictures on the GPS-20 are available at
http://www.tapr.org/gps

Cheers - Greg, WD5IVD

---

295. Mobile

From: Richard Ball <72155.1222@CompuServe.COM>
Date: 07 Jul 96 16:01:44 EDT
To: APRSSIG <aprssig@tapr.org>
Message-ID: <960707200144_72155.1222_EHB176-1@CompuServe.COM>
Rendered body type: text/plain

I just got a mobile system going in my car. A Garmin45, KPC-3 ver6 with HSP cable, 2meter radio, and an old Toshiba laptop. I have been able to get the mobile -9 to show on my computer at home, and on the two other peoples in the area here (Seattle) running APRS.

Every time I go out in my car I have tried to run APRS. But it has gotten to be a PAIN to put the laptop in and out every time I stop at a store or the 'mall'. I don't like to leave the computer in the front of the car in the parking lots. The other equipment is out of sight. Also on long trips the old computers battery runs down.

Being new to APRS and not having anyone at home to ask, I thought I would ask here on the sig. Hope its not to basic.

I did put the KPC-3 in 'GPS' mode once, and tried it without the computer. And boy did I have a time getting it out with the three CTRL 'C's. I guess I would like my cake and eat it to. Can I run with the computer some of the time and at other times without, and doing it easy?

My thinking was when the computer starts APRS, to use the INIT file to change the KPC-3 out of GPS mode, and when QUITing to reset it back into GPS mode. But I can't seem to get this to work.

Am I approaching the problem wrong? Am I making a mountain out of a mole hill? Did I miss something in the DOCs? What are others doing?

Richard N7RIG

---

296. javAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 7 Jul 96 17:23:31 -0400
To: <aprssig@tapr.org>, <aprs-fl@tapr.org>
Message-ID: <199607072120.RAA09968@bridge.net>
Rendered body type: text/plain

javAPRS is coming along great. Check it out if you haven't recently:

<http://www.bridge.net/~sdimse/javAPRS.html>

javAPRS now does GIF maps, and reads Kantronics TNC data, NMEA data and HST files, as well as a couple formats for its own use. More formats on the way soon. Also there will soon be instructions on how to make javAPRS work on your home page. Check back often.

These examples are running now:

javAPRS.html...see the NMEA data logged on a trip from the Keys to Miami

trip.html...see what I saw as I drove to Dallas for the TAPR DCC last September.

hurricane.html...Hurricane tracking. For now I have to manually update this, so it won't be as up to date as other tropical weather sources, so don't depend on it!

marathon.html...a replay of the marathon.hst file included in the APRS distribution.

gifmap.html...watch me head into the Keys back country for some fishing, plotted over a scanned-in nautical chart.

Please send me your comments/suggestions. I've got to finish the paper on javAPRS for DCC, so the improvements may be a little slow for the next couple weeks.

Steve KO4HD
sdimse@bridge.net

---

297. Re: [APRSSIG:2833] Ultimeters CHANGED

From: BordingK@aol.com
Date: Sun, 7 Jul 1996 18:45:06 -0400
To: aprssig@tapr.org
Message-ID: <960707184506_571579515@emout09.mail.aol.com>
Rendered body type: text/plain

Are there serial numbers available or shipping dates of affected units. Also does this affect anything if the unit is operating as a stand-alone U-2000 to TNC to Radio device?

Thanks and '73s
KF4COH
Ken in Jax, FL

---

298. Re: [APRSSIG:2885] Mobile

From: rbost@itexas.net (Roy Bost)
Date: Sun, 7 Jul 1996 17:46:34 -0500
To: <aprssig@tapr.org>
Message-ID: <19960707224740764.AAA66@rbost.itexas.net>
Rendered body type: text/plain

Here is what I learned from an earlier query that I put out about getting back into the kpc-3 when it is in GPS mode: DO NOT USE A PACKET PROGRAM to communicate with the KPC-3! I have had the best luck using the terminal program that came with Windows 95.
Three <control c> and wait a couple of seconds. Then try again.

I don't use my laptop in the van. I use the Garmin 45, KPC-3 and the TH-77 as a stand alone tracker.

I have a friend that uses the "remote" mode to get his KPC-3 in and out of GPS mode.

Has anyoe figured out how to power the Garmin 45 from the RS-232 port ont the KPC-3?

Roy, N5TAM

---

299. Re: [APRSSIG:2883] Re: DFjrCard

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 07 Jul 1996 18:08:24 -0700
To: aprssig@tapr.org
Message-ID: <31E05F88.3382@worldnet.att.net>
Rendered body type: text/plain

Joseph Agrelo wrote:
>
> Hey Bill,
>
> I just downloaded your latest files within (dfjrcard.zip). Looks good
> but I have a couple of comments. Your spelling of Treshold is incorrect,
> it should be Threshold with an "h". Funny thing...I wonder if there is
> something wrong with the "h" on your keyboard, cause I noticed in lots
> of your e-mail you always leave out the "h" in words like though, and
> through.
>
> Also where you have Agrelo Engineering, Home of the DFjr, it would be
> nice if you added our phone number (800)588-4300.
>
> Credit, where credit is due-
> You did a very nice job of enhancing the original card from Mike Musick
> N0QBF, Thanks! to both of you for saving me the time of doing it myself,

> which it seems I have less and less of lately;-)
>
> I will add a link from our web site to obtain the card, when it's
> complete.
>
> 73 De Joe N2OOC

Ok Joe will check all of that and add the phone number and reload it to tapr.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

300. Re: [APRSSIG:2888] Re: Mobile

From: dkaszubski@why.net (dkaszubski)
Date: Sun, 07 Jul 1996 18:33:03 -0700
To: aprssig@tapr.org
Message-ID: <31E0654F.4523@why.net>
Rendered body type: text/plain

Roy Bost wrote:
>
> Here is what I learned from an earlier query that I put out about getting
> back into the kpc-3 when it is in GPS mode: DO NOT USE A PACKET PROGRAM to
> communicate with the KPC-3! I have had the best luck using the terminal
> program that came with Windows 95.
> Three <control c> and wait a couple of seconds. Then try again.
>
> I don't use my laptop in the van. I use the Garmin 45, KPC-3 and the
> TH-77 as a stand alone tracker.
>
> I have a friend that uses the "remote" mode to get his KPC-3 in and out of
> GPS mode.
>
> Has anyoe figured out how to power the Garmin 45 from the RS-232 port ont
> the KPC-3?
>
> Roy, N5TAM

Yes, I have devised a way to power the Garmin from the KPC-3 and will
show you at our earliest convience. Basically, I put a DB-25 connector
on the Garmin cable, brown to pin 2, black to pin 7, and red to pin 25
with a fuse soldered to the wires hidden in the connector hood. Follow
the directions in the KPC manual for "Powering the KPC-3 from the DB-25
port" It requires two jumpers soldered on the board. I don't think it
will work if you have configured your 25 port to do a hard reset because
it uses the same jumper, just on the other pin. This puts power to pin
25. Note: it uses whatever power you provide to the KPC-3, including
the internal 9-volt battery! Doesn't last long that way...But it Works
GREAT! I then power the KPC-3 from the truck through the regular power
connector. Voila!
THEN, I put a DB-25 connector on my Pac-Com HSP switch pigtails and run
power to the switch AND the GPS from the KPC-3 since my laptops don't
have power on pin 6 of the serial port. (orange wire to pin 25 of
both the tnc and the gps DB-25 connectors) You just gotta see it!
I just change INT to GPS on the KPC-3, plug the DB-25 on the Garmin cable
directly into it and have an instant tracker.

Note: I still can't get 3 <ctrl-C> to work to switch back from GPS mode,
no matter how long I wait or how many times I try it. Remote mode works
well enuf and I can leave the whole thing under the car seat when I get
home, just reset the BLT times and leave it turned on.

--
Dave Kaszubski WB3FYV
dkaszubski@why.net also: ustuia6v@ibmmail.com
Benbrook, Texas N 32 40.319' W 097 26.844'

President of the Texas Utilities Amateur Radio Club,
Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszuski/

301. GATEWAY OFFLINE

From: KD4EMI@aol.com
Date: Sun, 7 Jul 1996 19:53:06 -0400

To: aprssig@tapr.org
Message-ID: <960707195305_232658234@emout08.mail.aol.com>
Rendered body type: text/plain

I was going against my old adage, if it aint broke....

Took the MFJ loop down and flipped it horizontally...Worked great,
until the bolts holding it broke and it aint gonna work until MFJ gets it..

With the storm coming (BERTHA) I had established a good APRS HF link with
 HH2B in Haiti.
  With some luck might be able to get something rigged up in the linited time
and linited space I have (apt dweller) But it is unlikely..
The timing of this event couldnt have been worse...

In any event the gate is off, I can tune the push up pole with my autotuner
but have not been able to connect to anyone.
MIke
KD4EMI@AOL.COM

---

302. APSRSIG

From: Rhett Westerman <rhettw@tyrell.net>
Date: Sun, 07 Jul 1996 19:00:12 -0700
To: aprssig@tapr.org
Cc: rhettw@tyrell.net
Message-ID: <31E06BAC.5937@tyrell.net>
Rendered body type: text/plain

Hello,

 I am trying to get started with APRS here in Baton Rouge, Louisiana. Is
there anyone locally that is up and running with APRS? I can't seem to
get any stations to display on my maps, but I am receiving a few
stations from other areas.
--

 Rhett Westerman
 rhettw@tyrell.net
 WWW Home Page http://www.tyrell.net/~rhettw/INDEX.HTML

---

303. APSRSIG

From: Rhett Westerman <rhettw@tyrell.net>
Date: Sun, 07 Jul 1996 19:00:25 -0700
To: aprssig@tapr.org
Cc: rhettw@tyrell.net
Message-ID: <31E06BB9.306C@tyrell.net>
Rendered body type: text/plain

Hello,

 I am trying to get started with APRS here in Baton Rouge, Louisiana. Is
there anyone locally that is up and running with APRS? I can't seem to
get any stations to display on my maps, but I am receiving a few
stations from other areas.
--

 Rhett Westerman KD6MRG
 rhettw@tyrell.net
 WWW Home Page http://www.tyrell.net/~rhettw/INDEX.HTML

---

304. Re: [APRSSIG:2871] Re: _^Cd

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 7 Jul 1996 19:24:03 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607080024.TAA09057@vanilla.cs.tamu.edu>
Rendered body type: text/plain

Roger Sellers sez:
>
>   I went thru awsum gyrations to get the regular mapping program to run on
> my non-cd equiped laptop. I was able to get the mapping program and GPS
> program to run on my laptop. I was told my e-mail support from the company
> to copy the state map to a specific directory. I then looked at the file for

... continued tale of woe deleted

The documentation tells you how to get teh data over, and then how to tell the

```
program where it is, so it can deal with it.  It *is* in there.  I didn't have
to get tech support to find it, so it Had to be obvious :-)

If you think 17 Mb is bad, try Texas with 48 Mb!  That's a disk-full.

the Justsoftworks staff I've talked to seem more than a little overwhelmed
with some of the release work they're doing these days. as well as with
updating the maps database to give DeLorme a run for their money.  This
represents a program with Tiger-level data that *can* be run from hard disk.
That's more than DeLorme can claim.

73, gerry
```

---

305. Re: [APRSSIG:2875] Multiple NMEA data feeds

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 7 Jul 1996 19:30:26 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607080030.TAA09167@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
I used APRS as a datalogging system for Cows In Space.  Check the
@S-Gps-Nmealog command.  It logs all NMEA 0183 sentences to a log file.

further:  You could always log to a comm program if you don't need graphical
data displays.

73, gerry n5jxs
n5jxs@tamu.edu
Mapping Sciences Laboratories, Texas A&M University
409.845.9425
```

---

306. Re: [APRSSIG:2892] APSRSIG

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 07 Jul 1996 19:49:07 -0700
To: aprssig@tapr.org
Message-ID: <31E07723.1BB@worldnet.att.net>
Rendered body type: text/plain

```
Rhett Westerman wrote:
>
> Hello,
>
>  I am trying to get started with APRS here in Baton Rouge, Louisiana. Is
> there anyone locally that is up and running with APRS? I can't seem to
> get any stations to display on my maps, but I am receiving a few
> stations from other areas.
> --
> ------------------------------------
>  Rhett Westerman
>  rhettw@tyrell.net
>  WWW Home Page http://www.tyrell.net/~rhettw/INDEX.HTML
> ------------------------------------

Yes i'm sure there is Rhett, i just got through making a series of maps for
that area including some for Baton Rouge. I'm sure he will answer your message
because he was looking for some new users.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

307. Re: [APRSSIG:2883] Re: DFjrCard

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 07 Jul 1996 20:12:16 -0700
To: aprssig@tapr.org
Message-ID: <31E07C90.DBC@worldnet.att.net>
Rendered body type: text/plain

```
Joseph Agrelo wrote:
>
> Hey Bill,
>
> I just downloaded your latest files within (dfjrcard.zip). Looks good
> but I have a couple of comments. Your spelling of Treshold is incorrect,
> it should be Threshold with an "h". Funny thing...I wonder if there is
> something wrong with the "h" on your keyboard, cause I noticed in lots
> of your e-mail you always leave out the "h" in words like though, and
> through.
```

```
>
> Also where you have Agrelo Engineering, Home of the DFjr, it would be
> nice if you added our phone number (800)588-4300.
>

I uploaded the corrected DFjrcard.zip i have changed several things
including adding the phone number, and of course Mike's original concept
that i overlooked (Sorry Mike). Well i realy didn't overlook it since i
didn't know who did the original small card. But in any case that has been
taken care of on the front of the card. I also changed the DFjr marking to
it's design like on the front of the manual.

Another question Joe since i have your attention. Would you please post the
sizes of the connectors, like the power connector on the DFjr and the GPS
input on the MPA card. I looked through several catalogs and there are 3
sizes available and if you pick the wrong  size it will be to loose and may
fall out when on a hot trail of the fox Hi.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

308. Re: [APRSSIG:2857] Re: Ultimeters CHANGED

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jul 1996 22:45:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960707224344.16285B@arctic>
Rendered body type: text/plain

```
On Sat, 6 Jul 1996, Ron Malinowski wrote:

> At 07:59 AM 7/6/96 -0500, you wrote:
> >I was just informed of a production change in the Ultimeter 500 and
> >2000.  THey have added 8 additional bytes onto the data format...
>
> Hi Bob, what is new, mine was purchased at Dayton, I believe mine works
> alright with Dos and Mac versions, but I am curious does these new units do
> something more with these 8 bytes, anything we users should be concerned about?

APRSdos REPLY COMMENT:What they do even I dont know, and PEET Bros has
not announced anything either.  But obviously they are transparent to
current ops.

de wb4apr@amsat.org
```

309. Re: [APRSSIG:2856] Shuttle Ionization APRS reception

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jul 1996 22:47:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960707224605.16285C@arctic>
Rendered body type: text/plain

```
On Sat, 6 Jul 1996, Ronald G. Parsons wrote:

> Tomorrow morning, as the Shuttle reenters, the ionization trail should
> provide a reflector for VHF packet APRS posits. Watch your maps during the
> following times:
>
>  Arrives over West Coast       12:14     8:14   7:14   6:14     5:14

APRSdos REPLY COMMENT:  Easiest way to tell, is look on your D-PAGE for
any stations more than 30 miles away that are shown with an Asterix
in the first column!

de wb4apr@amsat.org
```

310. Re: my problem with aprtrak6.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jul 1996 23:02:55 -0400 (EDT)
To: "Bernard C. Barnes" <74362.1502@CompuServe.COM>
Cc: aprssig@tapr.org, amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960707225909.16285D-100000@arctic>
Rendered body type: text/plain

```
On 6 Jul 1996, Bernard C. Barnes wrote:

>       I downloaded APRTRAK6.ZIP       from tapr and have beeb having trouble
> getting it unzipped.  I get an ERROR:
> File not found                        MAPS|           -bad name
```

> Maps or MAPS directory not found!

APRSdos REPLY COMMENT: This is my fault. APRtrak6 is loading up using your old APRtrak5 CONFIG file. BUT I moved all the MAPLISTS into a new MAPLISTS directory! THerefore it cant find the maps. Try starting up using the command APRtrak6/NEW. This will force a clean start and then you can save your config file anew.

de wb4apr@amsat.org

---

311. How I installed WIN32s in Win 3.1

From: "Arthur J. Martin" <amartin@world2u.com>
Date: Sun, 7 Jul 1996 23:12:20 -0400 (EDT)
To: aprssig@tapr.org
Cc: sproul@ap.org
Message-ID: <199607080312.XAA27412@ants3.world2u.com>
Rendered body type: text/plain

Just some of my experiences in getting prepared to run MacAPRS compiled for Windows 3.x   Source of the WIN32s is the file OLE32s13.EXE. You can try to download it from

http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/Draft/win32s.htm

Intallation help from

http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/Draft/WM063.htm

(Above locations provided in the WinAPRS documentation by Mark & Keith Sproul, co-authors of MacAPRS(tm) and WinAPRS(tm))

My procedure was to get the WinAPRS(tm) software (version 1.1.0, currently) See the sites at the end of this message for location.

1) download OLE32S13.EXE from the www site shown above

2) make a DOS directory (I named WIN32s) off the root "drive_letter:\WIN32S"

3) copy in the OLE32S13.EXE into that directory

4) Make sure I was in WIN32S directory

5) Execute the self-extracting archive (2.5 Meg) with "OLE32S13<Enter>" All the files in the archive will be left in the WIN32S directory. If you have a backup copy of OLE32S13.EXE stashed away then you can delet it from the WIN32S directory to free up some disk space.

6) Make sure that \DOS\SHARE.EXE is loaded in your CONFIG.SYS file. The Setup program checks for it and gets upset if it isn't running.

7) Start up your Windows 3.x

8) Bring up the Program Manager window

9) Select Run....

10) Type "drive_letter:\WIN32S\SETUP<Enter>" The Windows Setup program should run. Follow the prompts. Windows must reboot at the completion of Setup or you should do it manually.

11) Then create the WinAPRS(tm) group and it will create the group window. Setup the WinAPRS(tm) program info. If you wish, use any icon in the list, but it will be replaced with a USA map icon when you close Program window.

12) Starts by double clicking on the map icon. Since there isn't any printing support in the current versions while under windows, you may want to PRINT the docs out using MS-DOS beforehand.

Beyond this description of what worked for me in Windows 3.1, I assume no reposibility for anything you do. May it be a useful tool if you get stuck.

Good luck, all you brave folks out there! Remember, WinAPRS(tm) is NOT dosAPRS(tm) by Bob Bruniger and it runs slightly differently and is not in the same stage of development that dosAPRS(tm) is at. It does have other features such as support for callsign CD-ROMs in many flavors. As with the dosAPRS(tm) versions, registration lets you save your configuration file!

Worked for me... not guarenteed, but should be a help. GOOD LUCK!

73 de Art - N2QAE
==================
Errors, Corrections, Flames, Rockets, Thanks, etc. may be sent to me. Please
don't bother the Sproul brothers unless it has to do with their software.

PS: Other locations of interest:

Sproul brother's MacAPRS/WinAPRS pages for the program documentation
Docs: http://aprs.rutgers.edu/APRS/

Official MacAPRS/WinAPRS FTP site
FTP   ftp://aprs.rutgers.edu/pub/hamradio/aprs/

TAPR APRS SIG (Special Interest Group)
TAPR http://www.tapr.org/tapr/html/sigs.html

===================

From: Arthur J. Martin
TEL: +908+876+3189
Inet: amartin@world2u.com
AX.25: N2QAE@N2QAE.#NNJ.NJ.USA.NA

---

312. Re: [APRSSIG:2885] Mobile

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jul 1996 23:24:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960707232044.16285K-100000@arctic>
Rendered body type: text/plain

On Sun, 7 Jul 1996, Richard Ball wrote:

>   I did put the KPC-3 in 'GPS' mode once, and tried it without the
> computer. And boy did I have a time getting it out with the three
> CTRL 'C's. I guess I would like my cake and eat it to. Can I run with
> the computer some of the time and at other times without, and doing it
> easy?

APRSdos REPLY COMMENT: I told all of the TNC manufacturers from day one,
that they needed to come up with a way for the user to go from HSP mode
to GPS mode automatically. Only AEA and PacComm have done it.

PacComm's TNC with its 2nd dedicated GPS port will begin iperating in
stand alone mode as soon as it fires up and detects that APRS has not
been telling it to transmit at a time shorter than its preset GPS timing.

In other words, you set the TNC to do its GPS at once every 2 minutes
and then tell APRS do do it once every 1.5 minute. As long as APRS is
alive and well, then it is in control. If APRS does not key the radio,
then 2 minutes later the TNC will take over...

de wb4apr@amsat.org

---

313. SAREX data needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 7 Jul 1996 23:36:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960707233246.16285L-100000@arctic>
Rendered body type: text/plain

In additon to a HST file of all reported SAREX APRS contacts, I also want
to make a .BK file of all ground stations trying! So if you were on the
ground and working the APRS SAREX experiment, then please send me your
LAT/LONG, symbol and attempted Beacon text.

THese days you can be a little house with a Veritical, a Beam, or a
satellite dish (implyin AS-EL antennas. Please indicate which for me to
use. Keep your replys brief so I dont have to dig too deeply.

If you were on the list of successful stations, then i ALREADY have your
data.

de wb4apr@amsat.org

---

314. Moving with APRS

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Sun, 7 Jul 1996 23:53:02 -0400
To: "'APRSSIG'" <aprssig@tapr.org>
Message-ID: <01BB6C5F.94EA5A20@col-as6s56.erols.com>
Rendered body type: text/plain

On Wednesday the 10th of July, I will be setting out on a move back to California from Maryland.

My first day of travel will take to Peoria ,IL, then to Cheyenne, WY, then to Elko, NV, then to San Francisco, CA where I'll stay 2 night then on to Los Angeles on the 15th.

The system will be a Garmin 45 with the Trimble antenna, connected to a KPC-3, connected to an Alinco DR-1200T running 25 watts feeding a Larsen 2/70 on a mag-mount on the trailer.

Questions:
1. What should my SSID be set to?
2. What should the UNPROTO path be?
3. 145.790 is the prevalent freq, what other freqs and where should they be used?
4. Would $GPRMC be the best sentence to use?
5. What would be the best beacon time to use? Since multiple beacons can be programmed, separate times can be used for "local" beacons and those which would specify a gate.

Once all is said an done, I would be curious to see who logged posits from my trek across the country.

Randy Hammock KC6HUR
kc6hur@garc.gsfc.nasa.gov

---

315. APRS Sarex report (15)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 8 Jul 1996 00:05:59 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.SUN.3.91.960705224456.25119G@arctic>
Rendered body type: text/plain

SAREX was stowed about 24hours in advance for landing on 7 July.
This will be a preliminary final report until all the data is analyzed.
Currently we enjoyed 15 days of SAREX activity, with 20 voice passes, 25 packet passes and 11 school passes. That leaves only about 19 passes with no activity. A fantastic effort on the part of the STS-78 crew!

The positions of the following 18 stations were successfuly reported via SAREX as part of the APRtrak/APRS experiment: K1HJC, WB6LLO, KE6AFE, WB4LTF, N8DEU, KE4EER(WA8INZ), KB0UZQ, KC5EJK, KG0DW, N1JDU, KD1SM, N6HNY, WA4HEI, AD4BL, WB3JNZ, N2NRD, KC7CO, and VA3HOI. Two others reported STATUS, but no POSIT. A total of 65 APRS packets were received.

A detailed station summary is being compiled but indications are that about 10 APRS stations were making a serious effort and trying every pass:
WA8INZ,WB6LLO,KB0UZQ,KD4EMI N2THO,WB4APR,KC5EJK,AD4BL,KC4ZQ,WB4PAN.
Many other stations did passes when they could: N3MNT,N3IVO,N8EDU,AD4BL N2QAE,WA1LOU,KC7CO,N1CPE,WB5QLD,K1HJC,KE6AFE,KU0G WB4LTF,N5RKN,KC4NHB, AB5GE,KG0DW,KD1SM,N1JDU,KF4DYS,KK6IB,N6HNY,WA4HEI,KC4ZGQ,KI5VM,WB3JNZ, N2NRD,VA3HOI,W4NMK,WB3JNZ tried 2wice and got both successes.

Comparing the APRS success rate 65 pkts (for 39 people) to the total number of stations playing with SAREX, (1350 QSO#s), could imply a lower bound of 2200 or upper bound of 4200 total packet stations on frequency, all things being equal... Does that sound about right?

This SAREX mission was a real test of your overall station sensitivity. WIth the shuttle orientation often sending the SAREX signals out into space away from earth, you had to have minimum receive losses and/or use a beam. Ending with SAREX QSO#'s in the 1300's is down by a factor of 4 or so compared to shorter missions scoring into the 3000's. More later after I study the station reports submitted.

If you have other data or are not listed, pse report. I must get station data from all participating APRS stations whether you were successful or not. Here is the chronology of all packets reported.

```
DY EDT  ZULU  COMMENTS
------  ----- -------------
21 1745 2145z Voice KO4HD Fl Keys
```

```
21      2238z Voice WB6LLO San DIego, and W5GEL Texas
22 0915 1315z through 1400 on 23 June nothing heard on 9 passes
23 1535 1935z voice heard in S. Fla
23      2110z Voice heard in Calif
24 0740 1140z nothing heard on next 4 passes
24 1355 1755z voice reported in Texas           END FIELD DAY
24 1530 1930z nothing heard on next 2 passes
25 0902 1302z School pass Grapevine TX
25 1045 1445z I missed the pass (Any reports of activity?)
25 1230 1620z Voice over usa.  THey said Packet soon!
25 1400 1750z Voice over USA
26 0730 1130z Packet reported fm Alabama
26 0904 1304z Packet reported in Texas & East. QSO#'s 104 to 130
        1313? QSO#123. K1HJC>FN43HB,W5RRR-1*>APRS 0.5 on line
   1010 1610z QSO#141
26 1356 1756z QSO#189-214 (the 189 is not certain)
26 1500 1900z ? (I missed it. Anyone else have a report?)
27 0725 1125z nothing heard this pass and the 0900 EDT pass
27 1035 1435z voice heard on this and 1610z, and 1745z passes
27 1510 1910z ? (i missed it.  Anyone else have a report?)
28 0725 1125z QSO#346-355. 22 packets copied in Maryland
28 0900 1300z 27 pkts reported in MO and AL by KB0UZQ and KE4EER
28 1036 1436z voice heard
28      1915z packets heard in Calif. WB6LLO "success"
29 0730 1130z voice heard
29 0900 1300z nothing heard
29 1027 1427z QSO#519-529. & KE6AFE>CM86XX,W5RRR-1*:Hi de Cap
        14??z WB6LLO gets congrats in CA. (Anyone see it?)
        1433z WB4LTF>EL98IP,W5RRR-1*:Orlando FL
        1436z N8DEU>EM64QS,W5RRR-1*:[GS]Tim at Huntsville, AL (TNC only)
29 1346 1746z Voice reported in FL
29      1911z WB6LLO gets CONGRATS in CA. (Anyone see it?)
        1920z Voice reported in Honduras
30 0545 0945z QSO#672. & KE4EER>EM64SX,W5RRR-1*:Bill, Hazel Green AL V7.6e
30 0720 1120z QSO#729.
30 0850 1250z 9 weak pkts heard in MD. Weak pkts hrd in SoCAL
30 1023 1423z nothing heard in SoCAL
30 1157 1557z voice on west coast and in AL
30      1732z nothing heard in Calif
30      1906z WB6LLO gets "CONGRATS"
01 0405 0805z Strong voice reported
01 0540 0950z KE4EER reports strong voice in AL
01 0720 1120z Voice heard in MD working Michigan
01 0850 1250z nothing (someone reported weak packet?)
01 1025 1425z nothing.  Weak pkts then voice reported in Salt Lake City
01 1200 1600z nothing
02 0422 0822z no packets detected in MD (Anyone hear voice or data?)
02 0540 0940z no packets detected in MD (ditto)
02 0722 1122z no packets detected in MD (ditto)
02 0842 1242z nothing
02 1013 1413z Voice full quieting over Utah
02 1147 1547z WA8INZ>W5RRR-1*>EM64SX:@021000/3458.49N/08629.87WyBills Laptop
        1548z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76
        1726z nothing heard (weak packets heard in Utah and Honduras)
03 0532 0932a 21 pkts hrd in Dallas, 26 in MD.  QSO#888-914. And 2 APRS
        0932z KB0UZQ>W5RRR-1*>EM29QJ:                (four)
        0932z KC5EJK>W5RRR-1*>APRS:[EM12OU]
        0933z KG0DW>W5RRR-1*>EN31CO:Hello Columbia from Steve in Des Moines
        0937z N1JDU>W5RRR-1*>FN42LK:APRS 0.5 on line (two)
        0937z KD1SM>W5RRR-1*>FN42DO:APRS 0.5 on line (two)
03 0707 1107z 6 Pkts heard in MD.  QSO#971-975
        1111z KD1SM>W5RRR-1*>FN42DO:APRS 0.5 on line
        11??z KB0UZQ>EM22QJ,W5RRR-1*:
03 0838 1238z QSO#1010-1035. 39 pkts heard in Dallas, 3 in MD, 34 in FL.
        1238z WB6LLO 030540 /261214/3247.03N/11711.35WSdm12js0 (three!)
        1238z N6HNY>DM04RK,W5RRR-1*:DM04RK
        12??z KC5EJK>W5RRR-1*>APRS:[EM12OU]
        1244z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d  (two)
        1247z WB4LTF>W5RRR-1*>EL98IP:Casselberry Fl              (six)
03 1020 1420z Weak voice (canadian) heard in MD for 1st half of pass
03      1550z KO4HD reports carrier bursts near end but no audio
03      1720z out of view of east coast
04 0355 0755z N4ZQ>W5RRR-1*>QST:CQ this is radio N4ZQ, Keith in Florida
04 0528 0928z QSO#s1108-1125
        0928z KC5EJK>W5RRR-1*>APRS:[EM12OU]
        0930z WB4LTF>W5RRR-1*>EL98IP:Casselberry FL              (eight)
        0933z WA4HEI>W5RRR-1*>EN65UX:@EN65ux]^C2
04 0700 1100z QSO#s1152-1180
        1103z KC5EJK>W5RRR-1*>APRS:[EM12OU]
        1103z WA8INZ>W5RRR-1*>EM64SX:Bill, Hazel Green, AL v76d  (five)
        1105z AD4BL>w5RRR-1*>EM70DF:AD4BL EM70
        1105z WA4HEI>W5RRR-1*>EN65UX:@EN65ux]^C2
04 0834 1235z Voice copied in the midwest
04 1000 1400z Voice heard in CA and midwest
05 0347 0747z QSO#1256-1258.  WA8INZ gets congrats (anyone see it?)
        0747z WB3JNZ>FN10RS,W5RRR-1*:   (sent with just TNC & PROCOMM)
05 0521 0921z QSO#1288-1297.  25 packets copied in NJ
        0925z WB3JNZ>FN10RS,W5RRR-1*:   (ditto)
        092?z KD1SM>FN42DO,W5RRR-1*:73 de Ralph
05 0658 1058z QSO#1320-1343.  42 packets copied in NJ
        1058z KC7CO gets congrats (*** ANYOHNE HAVE A COPY? THis is only one)
        1058z KB0UZQ gets congrats (anyone see it?)      (still unconfirmed!)
        1102z N2NRD>FM29LQ,W5RRR-1*:                (three)
        1102z VA3HOI>FN05IE,W5RRR-1*:]-[Greetings/FN05
        1104z KD1SM>FN42DO,W5RRR-1*:73 de Ralph
        1105z N1PPP>DAVE,W5RRR-1*:
05 0835 1235z Voice
05 1008 1408z Voice
06 0350 0750z Nothing heard, SAREX Stowed?
```

I still have three passes unaccounted for.. If you have raw data to fill in or correct entries above, please send them to me. I also like to get the QSO#'s for every packet pass (just 1st and last # pse)

de wb4apr@amsat.org

---

316. RE: [APRSSIG:2888] Re: Mobile

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Mon, 8 Jul 1996 00:08:41 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB6C62.25269160@col-as6s56.erols.com>
Rendered body type: text/plain

[NOTE: Best when displayed/printed with a mono-spaced font.]

The following is a description of the connector wiring I use for the Garmin GPS-45 power/data cable to a DB-25M connector. This connection allows connecting a Garmin GPS to a KPC-3 for standalone tracker operation. Note the connections between the DB-25M pins 4 and 5, and 6, 8 and 20. This will dummy any flow-control signals to the device that the cable is plugged into. The KPC-3 was configured to send power out the DB-25F connector (KPC-3 manual Page 96; "DB-25 Wiring Options: Applying Power through the DB-25 connector").

```
                      Garmin GPS-45
                    Power/Data Cable              DB-25M
                         Brown --------------------> 2

                         White --------------------> 3

                                                +--> 4
                                                |
                                                +--> 5

                                                +--> 6
                                                |
                         Black --------------------> 7
                                                |
                                                +--> 8
                                                |
                                                +--> 20
                                  1/4 Amp Fuse
                           Red -------|~|----------> 25
```

The following is a description of the adapter cable that is used to connect a Garmin GPS-45 to an IBM PC. This assumes the power data cable for the Garmin has been wired as described above. Basically, this adapter is just a NULL-MODEM that has had the power line attachments made to it. The cable above can be plugged into the adapter below, allowing external power to be supplied to the GPS-45, while using a PC to upload/download the GPS unit.

```
                  GPS-54                                 COMPUTER
                  DB-25F                                  DB-25F
```

```
                    2 >-----------------------------------< 3

                    3 >-----------------------------------< 2

                    4 >                                +--< 4
                                                       |
                    5 >                                +--< 5

                    6 >                                +--< 6
                                                       |
                    7 >---------------+-------------------< 7
                                      |                |
                    8 >               |                +--< 8
                                      |                |
                   20 >               |                +--< 20
                                      |
                   25 >-------+       |                   < 25
                              |       |
                              |       |
                             +12     GND
```

```
----------
From: 	Roy Bost[SMTP:rbost@itexas.net]
Sent: 	Sunday, July 07, 1996 2:02 PM
To: 	aprssig@tapr.org
Subject: 	[APRSSIG:2888] Re: Mobile
```

Has anyoe figured out how to power the Garmin 45 from the RS-232 port ont the KPC-3?

Roy, N5TAM

```
begin 600 WINMAIL.DAT
M>)\^(AP$`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`'@```%)%.B!;05!24U-)1SHR.#@X72!293H@36]B:6QE
M`%\(`06 `P`.````S <'``@````(`"D``0`4`0$@@ ,`#@```,P'!P`(````
M`0`Y``$`'0$!"8 !`"$```!"1#0S0C%$031&1#A#1C$Q04(Q-#0T-#4U,S4T
M,# P, `0!P$#D 8`H <``!(````+`",```````,`)@``````"P`I```````#
M`#8``````$ `.0# H;(E@VR[`1X`< `!````'@```%)%.B!;05!24U-)1SHR
M.#@X72!293H@36]B:6QE`````@%Q``$````6`````;ML@R5OVK%#O]A/$<^K
M%$1%4U0`````'@`># $````%````4TU44 `````>`!\,`0```!H```!K8S9H
M=7) 9V%R8RYG<V9C+FYA<V$N9V]V`````P`&$)^=>6@#``<0= 4``!X`"! !
M````90```$Y/5$4Z0D535%=(14Y$25-03$%9140O4%))3E1%1%=)5$A!34].
M3RU34$%#141&3TY45$A%1D],3$]724Y'25-!1$530U))4%1)3TY/1E1(14-/
M3DY%0U1/4E=)4DE.1TE54T4``````@$)$ $````8!@``% 8``'L0``!,6D9U
MP*0C@O\`"@$/`A4"J 7K`H,`4 +R"0(`8V@*P'-E=#(W!@`&PP*#,@/%`@!P
M<D)Q$>)S=&5M`H,SMP+D!Q,"@S02S!3%?0J /PC/"=D"@ J!#;$+8&YG>#$P
M,Q10"PH58@'0( !;3D]413H@0I,'D 5 =V@)\"!D! !U"U%Y"8 O$U +@!/0
M9($;H&ET:"!A( 1@>&YO+1P@`- <\0(2+K9="H4*A50;P!Y!;!<P>P/P&5 @
M! `=80VP!/1IX0(@(&]F(!U '[ %H/1N;@60= 6Q`_ <L2!0>$D@=1&P'D$%
MP"&R1PT*P&T+@!\61U!3+3 T-2!P(! $D"]D[F$!D"'@`:!L'[ B4!UA0$1"
M+3(U32'H+OX@'X$@<2'U(4('0" !!"!_"H4H%B!!'7 CY23!)C1+\%!#+3,C
M4Q/ `' ED-<7,"(@(:!R`-!K!) A<)YP!) EH"%!)Y%.;Q/0[Q\6(;DA000@
M8A' )5 ;T=LALB:5< N !" T'6 L0*@@-2PQ4S8QL#@Q4Q\!T">6`_ ?\!\6
M9'5MO&UY,5$T0!D@(! M(?''+, &\"P`:6=N!T $(.<F02&R#;!V:1X0(:$E
MH(\AI"7S('$+4G$S!?*2MT=V$G&\_YF-8 (<!SQ)D$1L#%Q)3.M
M(7!U-P0FDT8AZ2@K=$4#@74'0"!083@P(" Y-CL@(B:3(%>5(J1/(2-S&T!!
M< M0^GD@,E [4QU `V X$!U0\S!'(>@B*3BV'KQ$+T2#GRIX)/%#ST<(0*,O
M1"6BOD,E\T<+)I1&;TM-0@-@VG<#H"U,OTS@/C*00U][3R]/@U<GT"XA3.]-
MPS.O3B]3;U1_53DK3=(T4M_W5Z]8OUD"?%:O6R]</U8'WT966B]?;V!_5@<V
M7F]C/_]D3UG?9F],(@M@+/!0[TVT_C=EOVJ/:Y]E;VV_;L]5O/XX;0]QWW+O
M;+]U#W8?5;Q/`=!T7WD_>;4Q+S%07!M<"!&(R%X/WR/4N,<\6A%?'Y\35M=
M[1\O^R _(4EA)9 %,"T1)>4VXO^!D2,A.J,A]0J%*EHD\B9">0.@24(FX"N
M)Y8YX'/_-! 'D2&R.T0EF2-E)%8C]/\1@"^B&]$BD1SQ.>&!Y"_ TXP!!N!V
M92>10CG@-I!]*,%Y,; =0(&2@R6!D6H#(R"%6$Y53$PM3?A/1$4FX#;3BS(1
M@#JAO8BG; N @O$"0 #0: > _P(P!" `P VP)C(=,">3-T;_C/,ET0.@+\ W
MZX+++\"!(?,QL8$697B#436A.S4F0?^5,8@P0"$(D#JC(Z,DTS&P_QNP`Q"
MT",@*A0K@"8RF5#_%S"#$"6 3'&<(IGV(Q #`-\>@']O>[]%1"31-3% H*]!
```

```
MH8M#3TU051L@4O^>OTE[/'"E#Z///%&C'Z@(S1'@/FA/JD\M/%)/K(__)Z K
ML*D_KN^K4DX6K ^Q>?\Q0$WPLK]V[ZMP5I^V#[<?_W./M5^YI"40LJ^SOZM2
M7>__OC\R`+K/P'^TLV(OPN_#__>X/\(_QH0WK=]60<C?JW#_:7_+'\4;R__*
M+\ZX,D"_CO_,_[2S<,_33] OS4_2GZC$_QK0S^_0_[ #>"_;C]5_VM__J,2Z
ML<A&V*_@>+ A1E_BO[_@"MUOY9_CW^3OV3XQ$> Y15-.1'_<"O22$#$X@C "
MT6DM,30T#?#G#-#L4PM9,38*H -@$]"_(D!H"0J'[2L,,.WV1@-A/QM [0_N
M% R"!_$T0$)O`1/ 6U--5% Z<JL&X!/ 0%"Q>#G@+B(@_G0>IN^/[?8&8 (P
M\5_R:TY3G8 ED(WQ2G5 0"!D,#<QL#$Y/F RD#HZ,!'@4$I&]9_M]E1OW_=O
M\FN#,!&@-7% `9 34!HN!;!G^Q_V/G5B:@<B,?T_\FM;05!24T!324<Z,C@%
M`%WC?9$;0$UO8IKAZG_K@WPS-NSW%%$+\NWV"H5(NSGA-&%O@-$Z53NB:($P
M[R8RF(4CN"4!9O$A(:,$D/TFL#,1X"4P%U A<!YP+ED=*W,_?]SS,3&P3C54
M?D%*1@7_!PX:A AN%L$``12@`P`0$ $````#`!$0``````$ `!S# 5/$T@FR[
C`4 `"## 5/$T@FR[`1X`/0`!`````!0```%)%.B ``````NZP`
`
end
```

---

317. Re: [APRSSIG:2903] SAREX data needed

From: ku0g@sprynet.com
Date: Sun, 7 Jul 1996 22:01:51 -0700
To: aprssig@tapr.org
Message-ID: <199607080501.WAA00159@m1.sprynet.com>
Rendered body type: text/plain

```
Per your request....

KU0G-8  3916.83N/09444.76WLWeather Uplink Station

Beacon Text:  [EM29pg] Kansas City = Jim

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

318. Possible Shuttle Ionization APRS reception

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 8 Jul 1996 02:39:21 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ae0649b4bee6@[199.1.11.115]>
Rendered body type: text/plain

```
> Overflies Dallas, TX          12:21     8:21   7:21   6:21     5:21


I got this message today from w5rk n-- Ronald G. Parsons
in Austim TX, he is about 160 miles south of the Dallas /Ft Worth area.

He said:
> Don't know for sure if ...  but at 7:25 CDT got
>  KC5EJK>BEACON,RELAY*:[EM12ou] Ion trail
> Did you hear me?
----------------------------

I did not see Ron,  but I did get two packets from
KB5RSY-10   which Ron said was their  WIDE digi  -just a few miles
north of Austin.

KB5RSY-10>RELAY*>ID:KB5RSY-10/R WIDE/D KB5RSY-1/B RELAY/N
    This was the first time I have seen KB5RSY in my Mac APRS station
    log and that logs goes back to Feb 1995

We do not have any HF gate way in the Dallas Area and if Ron only saw the
Beacon around the 7:21 time frame , then I guess it bounced.

I started my 45 Watt -Omni beacon running from  6:30 am CDT to 8:00 am
at a once per min rate.

I was sending :
KC5EJK>RELAY*>BEACON:[EM12ou] Ion trail

and  another DFW APRS users  KI5VM  then set his station to:

KI5VM*>RELAY>APRS:@070633/Happy "Trails"

-----------------
I used the Dallas 146.880 repeater to give a heads up about the fly over
as I scanned the sky looking for the shuttle and
we were able to get reports of the sonic boom as it went from West to East.
We then got a last report of the boom from Nacogdoches, 140 miles
```

South-East of Dallas. I should have given the local HAMs more warning as the few that were on the air had a fun time watching and listening to the BOOM !

We had some clouds in the area and I did not spot the shuttle.

I tried using the internet IP address of 128.2.230.10 and the Cu-SEEme video software to watch the NASA video feed of the ground track, as I waited outside, but the track picture was too small. The Video camera inside the shuttle showed some great landing pictures.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

319. Older KPC-3 cfg help needed

From: Don Murray <james-m@ix.netcom.com>
Date: Mon, 08 Jul 1996 03:23:35 -0400
To: aprssig@tapr.org
Message-ID: <31E0B777.3F01@ix.netcom.com>
Rendered body type: text/plain

I am having a little trouble getting my older KPC-3 TNC up and running with aprs. It doesn't want to initialize for some reason. Would one of you kind people please send me you inittnc.cfg and aprs??.cfg files for the kpc-3.

Thanks
Don

320. NE PA Wide

From: Lorie and/or Al Zelna <ldajz@epix.net>
Date: Mon, 08 Jul 1996 05:36:57 +0000
To: aprssig@tapr.org
Message-ID: <31E09E79.240F@epix.net>
Rendered body type: text/plain

Howdy folks,

One of the larger Hamfests in NE PA was the setting for an APRS demo yesterday morning. K3CSG-5, which has recently received a 7 dBi vertical, performed rather well until air temps. reached near 90 degrees at the site. This was the end of our digipeating, since our rig shut down.

Those of you in Southern EPA may hear it off of its first WIDE at times.

73 de N3KAE

321. Re: [APRSSIG:2888] Re: Mobile

From: "Daniel G. Morgan" <kml@conknet.com>
Date: Mon, 08 Jul 1996 06:21:16 +0000
To: aprssig@tapr.org
Message-ID: <31E0A8DC.521F@conknet.com>
Rendered body type: text/plain

To Roy N5TAM and other KPC3/GPS45 users.

I run the KPC3/GPS45 as a mobile standalone tracker and have provided power to the units from the auto supply by running three cables into the DB25 connecter that plugs into the back of the KPC3 (**making no modifications to the KPC3).

Three cables as follows:
1) auto power +/- leads
2) GPS45 power/data cable
3) short (4 inches) 2-wire with KPC power jack connected to it.

Connect together the (+) power from the auto power cable, the red of the GPS and the center pin of the KPC jack inside of the connecter shell. The data cable brown to pin 2, white to pin 3 and black to pin 1 or 7. Ground (-) from the auto and short KPC cable also to pin 1 or 7.

This sounds like a bunch of stuff, but works out slick! Use the power jack that came with the KPC3, it is the right one, there are at least two other sizes that look like they will fit, but check first for the right combo of id and od of the pin/shell.

```
**If you make the mod suggested in the KPC manual on page 96, you will
supply 13.8 Vdc from the auto a to the 9v internal battery (if
installed). This is not good!! No warning about this in the manual!

   Good thing about wiring out of the DB25 into the external jack is the
battery will be out of the circuit as long as the plug is in. Then if
you use the KPC portable in another setup you can get the battery back
when the plug is removed from the KPC3.

73 Dan W1UR
```

---

322. Re: [APRSSIG:2484] Garmin 45 vs Magellen trailblazer

From: BordingK@aol.com
Date: Mon, 8 Jul 1996 07:23:37 -0400
To: aprssig@tapr.org
Message-ID: <960708072337_571885294@emout09.mail.aol.com>
Rendered body type: text/plain

```
My military unit has 30, yes 30 Trailblazer M's (with Military Grid Reference
System MGRS) our experience is:

1.  M does NOT ahve 99 KNOT llimit, we use them in Apache Helicopters.
2.  Only about 4 hours! (unfortunately) of battery life (3 AA batteries).
3.  We bought these because they were cheap, had MGRS, detachable Ant with
holder included.
4.  Worked well all over the world.  II've added Paccomm/Trimble ant and it
is awesome, but the magnet can't be used in aircraft.

Ken KF4COH
Jax, FL
```

---

323. Re: [APRSSIG:2893] APSRSIG

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 8 Jul 1996 07:36:27 -0500
To: <aprssig@tapr.org>
Message-ID: <199607081246.HAA07875@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>  I am trying to get started with APRS here in Baton Rouge, Louisiana. Is

> there anyone locally that is up and running with APRS? I can't seem to
> get any stations to display on my maps, but I am receiving a few
> stations from other areas.
> --
> -------------------------------------
>  Rhett Westerman KD6MRG
>  rhettw@tyrell.net
>  WWW Home Page http://www.tyrell.net/~rhettw/INDEX.HTML
> -------------------------------------

I had that problem too! But after a YEAR of getting folks to "just try
it", I  put a dedicated digi up on a mountain top here in North Central
Arkansas and viola!



--
KC5JGV
Marshall, Arkansas
```

---

324. maps....again!

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 8 Jul 1996 07:55:13 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607081333.IAA08128@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
In the MAPS-CD.TXT file in the readme directory the following is listed:

"USGSMAP1.BAS:  This is a modified version of MAKEMAP1.bas by Dan Reilly,
W4NMK in North Carolina which will work directly on USGS files obtained
over the internet.  Get these maps from:

http;//edcftp.cr.usgs.gov/pub/data/DLG/2M/{area of interest}
      /{transportation/hydrographic/political/railroads}/

Chose the area of interest and the features from the menu.  You will then
generate ROADS.GRA, WATER_BO.GRA, STREAMS.GRA, POLITICA.GRA and RAILROAD.
GRA.  Combine these all into one file.  One way is with the COPY command:
```

```
Copy ROADS.GRA+WATER_BO.GRA+STREAMS.GRA+POLITICA.GRA+RAILROAD.GRA
ALLSTUFF.GRA"

I looked in this area and could not find the "GRA" extension files. Has
the data changed since this was written?

JSR
--
KC5JGV
Marshall, Arkansas
```

---

325. Re: [APRSSIG:2893] APSRSIG

From: crawford@vt8200.vetmed.lsu.edu (Dr. Pat M Crawford - Louisiana State University (SVM))
Date: Mon, 8 Jul 1996 08:35:56 -0500
To: aprssig@tapr.org
Message-ID: <96070808355687@vt8200.vetmed.lsu.edu>
Rendered body type: text/plain

```
Rhett:
     APRS is alive in Baton Rouge, LA.  I have been out of town for
the last few weeks.  Call 766-6599 (home); 346-3210 (office).

Thanks,
M.Pat Crawford - K5AHE
```

---

326. Re: [APRSSIG:2914] maps....again!

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 08 Jul 1996 09:26:55 -0700
To: aprssig@tapr.org
Message-ID: <31E136CF.2EF6@worldnet.att.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> In the MAPS-CD.TXT file in the readme directory the following is listed:
>
> "USGSMAP1.BAS:  This is a modified version of MAKEMAP1.bas by Dan Reilly,
> W4NMK in North Carolina which will work directly on USGS files obtained
> over the internet.  Get these maps from:
>
> http;//edcftp.cr.usgs.gov/pub/data/DLG/2M/{area of interest}
>       /{transportation/hydrographic/political/railroads}/
>
> Chose the area of interest and the features from the menu.  You will then
> generate ROADS.GRA, WATER_BO.GRA, STREAMS.GRA, POLITICA.GRA and RAILROAD.
> GRA.  Combine these all into one file.  One way is with the COPY command:
>
> Copy ROADS.GRA+WATER_BO.GRA+STREAMS.GRA+POLITICA.GRA+RAILROAD.GRA
> ALLSTUFF.GRA"
>
> I looked in this area and could not find the "GRA" extension files. Has
> the data changed since this was written?
>
> JSR
> --
> KC5JGV
> Marshall, Arkansas

I don't think, in fact i know this is not the case anymore. They have
changed file formats for the 2m files and at least i have made several
attempts to use  the new format with 0 success. Thankfully i still have the
old files for my state.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

327. Re: [APRSSIG:2912] Re: Garmin 45 vs Magellen trailblazer

From: BordingK@aol.com
Date: Mon, 8 Jul 1996 10:46:28 -0400
To: aprssig@tapr.org
Message-ID: <960708104626_151081733@emout14.mail.aol.com>
Rendered body type: text/plain

```
I sent this message out 7-10 days ago and it just now is delivered to the
SIG!.  What's the story?
```

KF4COH

---

328. Re: [APRSSIG:2916] Re: maps....again!

From: Dave Kaplan <dkaplan@pionet.net>
Date: Mon, 8 Jul 1996 10:30:17 -0500
To: aprssig@tapr.org
Message-ID: <9607081530.AA22088@ELWOOD.pionet.net>
Rendered body type: text/plain

At 09:35 AM 7/8/96 -0500, you wrote:
>J. Scott Ratchford, KC5JGV wrote:
>>
>> In the MAPS-CD.TXT file in the readme directory the following is listed:

<snip>

>> I looked in this area and could not find the "GRA" extension files. Has
>> the data changed since this was written?

<snip>

>I don't think, in fact i know this is not the case anymore. They have
>changed file formats for the 2m files and at least i have made several
>attempts to use the new format with 0 success. Thankfully i still have the
>old files for my state.

There has been a change. I person (the name is at home) wrote a QBASIC
program that is available on the TAPR server called NU_2MEG.ZIP. I have
used it to make about 70 maps and it works pretty well. The only problem
that I know of is that, after the map is made, you have to make a small
adjustment to the longnatude is there is some error in the conversion from
USGS to APRS format.

If you only need one or two maps I could probably whip them out for you.
Contact me direct at "dkaplan@pionet.net". If you would like to take a look
mat some of the maps I have made using this program download "NEMAPS01.ZIP"
from TAPR upload directory. There are 30 some maps at the 32 mile rage as
well as a State map the has all counties shown.

Dave

---

329. Help - Unsubscribe!

From: David_McCarthy-RXYH90@email.sps.mot.com
Date: 8 Jul 96 10:05:00 -0500
To: aprssig@tapr.org
Message-ID: <M683197.001.8hw70.1.960708170006Z.CC-MAIL*/OU=52CC9/OU=AZDC/PRMD=MOT/ADMD=MOT/C=US/@MHS>
Rendered body type: text/plain

How do I get off this list. Ihave subscribed from another email account and
want to discontinue from this one. I have sent the messages to the listserv and
a couple to the tapr address with no response or success. What should I try
now?

David KC7AYX

---

330. Re: [APRSSIG:2863] Re: APRS/TRANSPAC96 SPECIAL EVENT

From: Kenneth Dr Wickwire <wickwire@mbunix.mitre.org>
Date: Mon, 8 Jul 1996 13:00:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9607081207.A28721-0100000@mbunix.mitre.org>
Rendered body type: text/plain

Got a few here in eastern Mass. Ken KB1JY

On Sat, 6 Jul 1996 KD4EMI@aol.com wrote:

> In a message dated 96-07-06 15:58:34 EDT, you write:
>
> >ocal Packet BBS (APRS@ALLUS).
> >   I have uplinked all on HF/10151 for any/all APRS HF to downlink to
> >their own area VHF stations. Would appreciate any reports on how far back
> >EAST/NW/SW/MidWEST any/all have copied.
>
> Getting them Here in South Florida pretty regularly...
> (I wonder if you guys out west ever see me ?)
>

```
> Mike KD4EMI@AOL.COM
> (gate on 10.151)
>
>
```

331. Re: [APRSSIG:2916] Re: maps....again!

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 8 Jul 1996 12:59:11 -0500
To: <aprssig@tapr.org>
Message-ID: <199607081800.NAA09977@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> attempts to use  the new format with 0 success. Thankfully i still have
the
> old files for my state.

Don't reckon ya have Arkansas?



--
KC5JGV
Marshall, Arkansas
```

332. Re: [APRSSIG:2917] Re: Garmin 45 vs Magellen trailblazer

From: Bob Lorenzini <hwm@netcom.com>
Date: Mon, 8 Jul 1996 12:20:37 -0700 (PDT)
To: BordingK@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960708121923.113A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
Accessing the internet through AOL is like trying to suck the mississippi
through a straw.

On Mon, 8 Jul 1996 BordingK@aol.com wrote:

> I sent this message out 7-10 days ago and it just now is delivered to the
> SIG!.  What's the story?
>
> KF4COH
>
>
>
>
```

333. Garmin 45

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Mon, 8 Jul 1996 13:06:04 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.960708130304.29498A-100000@cks>
Rendered body type: text/plain

```
Is there some way to start up the Garmin 45 without pushing the red power
button?  IE: Perhaps some command that can be issued through the I/O which
will allow the 45 to start when external power is supplied?  I'd like to
mount the Garmin and a KPC-3 remotely and have them power up and start
when I command them, rather than having to leave them on the B+.
```

334. Re: [APRSSIG:2912] Re: Garmin 45 vs Magellen trailblazer

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 8 Jul 1996 17:23:22 -0400
To: aprssig@tapr.org
Message-ID: <199607082123.RAA09960@grumpy.magg.net>
Rendered body type: text/plain

```
>My military unit has 30, yes 30 Trailblazer M's (with Military Grid Reference
>System MGRS) our experience is:

>is awesome, but the magnet can't be used in aircraft.
>
>Ken KF4COH
>Jax, FL

Hey Ken you say that the magnet can't be used in aircraft.... So at what
speed did it finally tear off! hi hi


73's Rich N2CZF
```

n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

335. Hurrican Warnings to UYR

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 8 Jul 1996 19:19:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960708191605.19227A-100000@arctic>
Rendered body type: text/plain

```
I am seeing a good plot of the Hurricane, but I notice that the format is
written as
           085^095/982/115&200
but it should be written as
           085^095/982>115&200

WIthout the > symbol, the 115 mile radius of maximum HC winds is not
being plotted.  I dont know if this is a one-time typo, or UYR is doing
this conisitently.  Can someone get to him?  My mailer just will not work
with his EMAIL address...

de wb4apr@amsat.org
```

336. Re: [APRSSIG:2919] Help - Unsubscribe!

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 08 Jul 1996 18:29:22 -0700
To: aprssig@tapr.org
Message-ID: <31E1B5F2.5064@worldnet.att.net>
Rendered body type: text/plain

```
David_McCarthy-RXYH90@email.sps.mot.com wrote:
>
> How do I get off this list.  Ihave subscribed from another email account and
> want to discontinue from this one.  I have sent the messages to the listserv and
> a couple to the tapr address with no response or success.  What should I try
> now?
>
> David KC7AYX

The address below will take you to a site where you can take care of it.

http://www.tapr.org/tapr/html/sigs.html#listserv

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

337. Re: [APRSSIG:2921] Re: maps....again!

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 08 Jul 1996 18:31:07 -0700
To: aprssig@tapr.org
Message-ID: <31E1B65B.2A6B@worldnet.att.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> > attempts to use  the new format with 0 success. Thankfully i still have
> the
> > old files for my state.
>
> Don't reckon ya have Arkansas?
>
> --
> KC5JGV
> Marshall, Arkansas

No sorry can't help you there.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

338. DFjr question

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 08 Jul 1996 18:42:47 -0700
To: aprssig@tapr.org
Message-ID: <31E1B917.6DEF@worldnet.att.net>
Rendered body type: text/plain

```
Several times now i have attempted to find out what size connectors the DFjr
has so i can order the correct once for a juntion box i am going to make.
Agrelo is to busy to answer my questions :-( (I guess i have to many). The MPA
 adaptor has input for GPS (What size connector) because i noticed that it
comes in 3 flavors, Also the power connectors used in the DFjr, also 3 flavors
available. Now some of these look the same but OD and ID are very important.
And since all DFjr owners are going to want to know it would be great for
somebody that has the inside information to post it here PLEASE!.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

339. DFjr Card

From: William Nolle <ke4eer@worldnet.att.net>
Date: Mon, 08 Jul 1996 19:57:27 -0700
To: aprssig@tapr.org
Message-ID: <31E1CA97.682E@worldnet.att.net>
Rendered body type: text/plain

```
I have uploaded my final,final,final DFjr quick reference card file to
Tapr. Per a request i added a format the Mac can handle. The formats now
include the following EPS,GIF,PCX,TIF if you can't handle that you have
problems Hi. Not only that the file is getting so big *How big is it)
well it's now 352.650 bytes for a simple quick reference card for your
DFjr to put on your sunvisor of your car, that's as big as some of my
maps files :-)
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

340. HF Packet transmission length

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Mon, 8 Jul 1996 19:47:11 -0700
To: wb4apr@amsat.org
Cc: aprssig@tapr.org
Message-ID: <199607090247.TAA27112@poseidon>
Rendered body type: text/plain

```
Hi Bob,
   Just occured in Uplinking lengthy S/V posit reports, they tend to bunch
up, and APRS HF side tries to send all in one lengthy packet. Know that
long packet bursts on HF go uncopyable and are lost. Only the shorter length
2-3-4 second ones seem to get through.
   Any way of programing the HF side, to only send short 180/256 bit sized
packets at a time, and in sequence if a large number to send, depending on
how many stored in a outgoing send buffer. Possible could help getting
more HF packets readable.
   I sit here watching KAM+ , HF side, good strong HF packets, good S-meter
reading and steady RED light, yet none print out, especially longer ones.
Lot packet info on air, but just does'nt get GATED to VHF side or even
copied on bottom line of APRS. Short ones can bearly hear, appear on bottom
line of APRS, but not gated to VHF either.
   Strong static crashes I know kills a lot of the HF packets. But the long
time wise lengthy ones are useless..
   Your Ideas, opinion desired. Thanks.. How bout some uplinks of Yachting
Acadamey boats, in Eastern US. We gotta get these Yachts man into APRS.
   TRANSPAC, race to Hawaii, from Los Angeles, San Diego started today,
but I queered Southern Calif, but no APRS activity on that race.
    73's & Enjoy, Bill/WB6LPG
NNNN
WBB/WB6LPG
```

---

341. Re: [APRSSIG:2925] Hurrican Warnings to UYR

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 8 Jul 1996 23:00:30 -0400
To: aprssig@tapr.org
Message-ID: <199607090300.XAA23552@grumpy.magg.net>
Rendered body type: text/plain

```
I have been mentioning to Kevin that I too have e-mail problems with his
address. I have had them on and off for most of this year. I am glad that I
```

am not the only one, for a while there I thought that my server and his did
not like each other. Started wondering less after I changed servers and
still had a problem.

>being plotted. I dont know if this is a one-time typo, or UYR is doing
>this conisitently. Can someone get to him? My mailer just will not work
>with his EMAIL address...
>
>de wb4apr@amsat.org
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

342. Running APRS on MFJ TNC

From: kd4pdt@juno.com (Jackie N Cutchins)
Date: Mon, 8 Jul 1996 22:33:37 PST
To: aprssig@tapr.org
Message-ID: <19960708.223350.6527.0.kd4pdt@juno.com>
Rendered body type: text/plain

I need some info if i can get it please.A friend of mine has a mfj 1278
multi mode tnc it works great on packet but when he loads up APRS it
seems to be transmitting ok but receive is in comp language ,I have
tried to help him with his problem but have had no luck. I also use a
MFJ 1270b and have had no problems getting it to work. Any help you can
give us will greatly be appreciated.thank you in advance. Jackie N
Cutchins [KD4PDT]
E-MAIL ADDRESS IS kd4pdt@juno.com

---

343. Re: [APRSSIG:2925] Hurrican Warnings to UYR

From: Roger Breckon - N8CHB <n8chb@tir.com>
Date: Tue, 09 Jul 1996 04:28:08 +0100
To: aprssig@tapr.org
Message-ID: <31E1D1C8.55FF@tir.com>
Rendered body type: text/plain

Someone might also tell UYR that digi via LUS is fine but if one
does not hear the digi the data will not gateway to vhf.
I often hear UYR better direct but the call in the path stops
the gateway from passing the position on to vhf.

Roger N8CHB

/////////////////
Bob Bruninga wrote:
>
> I am seeing a good plot of the Hurricane, but I notice that the format is
> written as
>   085^095/982/115&200
> but it should be written as
>   085^095/982>115&200
>
> WIthout the > symbol, the 115 mile radius of maximum HC winds is not
> being plotted. I dont know if this is a one-time typo, or UYR is doing
> this conisitently. Can someone get to him? My mailer just will not work
> with his EMAIL address...
>
> de wb4apr@amsat.org

---

344. Re: [APRSSIG:2932] Running APRS on MFJ TNC

From: Mike Griffith <griffith@kvoa.com>
Date: Mon, 08 Jul 1996 21:32:10 -0700
To: aprssig@tapr.org
Message-ID: <31E1E0CA.431D@kvoa.com>
Rendered body type: text/plain

Jackie N Cutchins wrote:
>A friend of mine has a mfj 1278 multi mode tnc it works great on packet >but when he loads up APRS it
seems to be transmitting ok but ...

I am using the MFJ1278 with MacAPRS with no problem. I am quick to note
that I reset the TNC (including yanking the jumper to the backup
battery) before starting.

Everything else was 'plug-n-play'. (But then.. It IS a mac. :))

-Mike

```
--
==================================================
Michael Griffith        WebMaster         KVOA-TV4
griffith@kvoa.com  http://www.kvoa.com  Tucson, AZ
======== When The News Breaks.. We Fix It. =======
```

---

345. PIN Diodes

From: "P. Christenson" <christen@codger.physics.duq.edu>
Date: Tue, 09 Jul 1996 01:55:56 -0400
To: aprssig@tapr.org
Message-ID: <31E1F46C.7B0017F1@codger.physics.duq.edu>
Rendered body type: text/plain

Does anyone know where I can find PIN diodes? I know that this isn't really the proper place for such a request, but it's the only place I check regularly..

I nned them to make one of the "double ducky" direction finders. From what I can tell, there isn't anything really critical about them, other than I want some that are good for ~500 MHz.

If someone has a few suitable ones in their junk box, I'll gladly buy them.

Paul [N3EOP]

---

346. GPS-20 and Garmin protocol

From: Antonio Fernandez <100341.640@CompuServe.COM>
Date: 09 Jul 96 05:03:04 EDT
To: APRS SIG <aprssig@tapr.org>
Cc: Dave <ki5vm@flash.net>
Message-ID: <960709090304_100341.640_EHQ122-2@CompuServe.COM>
Rendered body type: text/plain

Thank you very much for your response Dave.

>The Garmin communication program must see the "Garmin" protocol, not
>the NEMA outrut string. The assembled units ie. the Garmin 40, garmin45
>etc. have this protocol available in the I/O setup.

Does anybody know how to make the GPS-20 talk Garmin
instead NMEA?

Best 73 de Toni, ea4le

---

347. Re: [APRSSIG:2928] DFjr question

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 9 Jul 1996 06:46:32 -0500
To: <aprssig@tapr.org>
Message-ID: <199607091153.GAA19637@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> comes in 3 flavors, Also the power connectors used in the DFjr, also 3
flavors
> available.
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Better look in the shiping box! There is a power cable that came with it.

--
KC5JGV
Marshall, Arkansas

---

348. Re: [APRSSIG:2925] Hurrican Warnings to UYR

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Tue, 09 Jul 1996 08:24:13 -0700
To: aprssig@tapr.org
Message-ID: <31E2799D.666@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> I am seeing a good plot of the Hurricane, but I notice that the format is
> written as
>            085^095/982/115&200
> but it should be written as
>            085^095/982>115&200
>
>  I dont know if this is a one-time typo, or UYR is doing
> this conisitently.  Can someone get to him?  My mailer just will not work
> with his EMAIL address...
>
> de wb4apr@amsat.org


I got him this morning at abt 0630 and it has been corrected...

Bud (WB4LTF
```

---

349. Re: [APRSSIG:2932] Running APRS on MFJ TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 9 Jul 1996 09:13:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960709091134.6827D-100000@arctic>
Rendered body type: text/plain

```
On Mon, 8 Jul 1996, Jackie N Cutchins wrote:

> I need some info if i can get it please.A friend of mine has a mfj 1278
> multi mode tnc it works great on packet but when he loads up APRS it
> seems to be transmitting ok but receive is in comp language ,I have

APRSdos REPLY COMMENT: Check his PARITY setting.  It must be NONE.
In old versions of APRS the command PAR 0 is in the SYSTEM\INITTAPR.TNC
file and should be changed to whatever your TNC needs.  In later
versions, I left this out so you can set it to anything you need..


de wb4apr@amsat.org
```

---

350. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
by mailhost.worldnet.att.net with SMTP
          id A16310; Tue Jul  9 14:51:33 1996
Message-ID: <31E28DED.5D88@worldnet.att.net>
Date: Tue, 09 Jul 1996 09:50:53 -0700
From: William Nolle <ke4eer@worldnet.att.net>
X-Mailer: Mozilla 2.01 (Win16; U)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Re: [APRSSIG:2937] Re: DFjr question
References: <199607091153.GAA19637@bulldog.afsc.k12.ar.us>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

J. Scott Ratchford, KC5JGV wrote:
>
> > comes in 3 flavors, Also the power connectors used in the DFjr, also 3
> flavors
> > available.
> > Bill WA8INZ
> > ke4eer@worldnet.att.net
> > ke4eer@amsat.org
>
> Better look in the shiping box! There is a power cable that came with it.
>
> --
> KC5JGV
> Marshall, Arkansas

Yes i found that, but how about the GPS into the MPA board connector?.
Like i say i checked and that comes in 3 sizes all with different OD and ID
and if the center pin isn't just right it will not make good contact. Also i
would like to have spares (So why not list those in the manual)!.
--
Bill WA8INZ
```

ke4eer@worldnet.att.net
ke4eer@amsat.org

---

351. Re: [APRSSIG:2928] DFjr question

From: Joseph Agrelo <jagrelo@cris.com>
Date: Tue, 09 Jul 1996 11:26:43 -0700
To: aprssig@tapr.org
Message-ID: <31E2A463.1AC1@concentric.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Several times now i have attempted to find out what size connectors the DFjr
> has so i can order the correct once for a juntion box i am going to make.
> Agrelo is to busy to answer my questions :-( (I guess i have to many). The MPA
>  adaptor has input for GPS (What size connector) because i noticed that it
> comes in 3 flavors, Also the power connectors used in the DFjr, also 3 flavors
> available. Now some of these look the same but OD and ID are very important.
> And since all DFjr owners are going to want to know it would be great for
> somebody that has the inside information to post it here PLEASE!.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Bill,

Too busy to answer questions! hmmmm....*I* though it was ok to take a few days off for
the holiday;-).

So far Bill, your the only person that has ever asked these questions, and I think
it's because the DFjr comes with all the nessesary cables, connectors, and jacks.


Well Bill..now that at I know you have questions, heres the answers.

                                                                Mating Plug O.D.(mm)            Center
pin
                                                                                                Dia(mm)
Length(mm)

DFjr power jack         Mouser Part# 161-201    1.3mm           3.4mm                           1.2
5.0
DFjr audio jack         Mouser Part# 161-2501   2.5mm/mono      N/A                             N/A
N/A
DFjr modular jack       Digi-Key Part# A9031-ND 6-6 Low Profile Modular Jack, PC Mount
MPA GPS jack            Mouser Part# 16PJ031    2.1mm Power     5.5MM                           2.0
9.0

PS-I had to make a special folder just to keep all of your questions in.
I will add this info to the manual.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

352. Re: [APRSSIG:2885] Mobile

From: rwf <rwf@mindspring.com>
Date: Tue, 09 Jul 1996 11:47:14 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960709154714.006821e4@atl.mindspring.com>
Rendered body type: text/plain

```
At 03:14 PM 7/7/96 -0500, N7RIG wrote:

>   My thinking was when the computer starts APRS, to use the INIT file
>to change the KPC-3 out of GPS mode, and when QUITing to reset it back
>into GPS mode.  But I can't seem to get this to work.
>
```

>   Am I approaching the problem wrong? Am I making a mountain out of a
>mole hill? Did I miss something in the DOCs? What are others doing?
>
>Richard N7RIG
>

To go into GPS mode, you'd have to power the kpc-3 off and on *after* the ARS restore file ran. I think there is no way to do this step with a command.

When starting back up, you would have to hope that APRS could send 3 appropriately spaced control C characters and that everything would continue on properly while (and after) the KPC-3 sent its initialization (power up) message to APRS when it recognized the CTRL Cs.

Then you would need to make sure that the BLTtimer got set to zero, otherwise you would still be sending tracker position reports with bogus info in them after you started APRS.

And don't forget you need a t least a toggle switch or relay to feed the GPS data directly into the TNC when the laptop was gone or you wanted to act like a tracker-

OR

Do what I did: Sell your HSP adapter and get a dual port Pico-Packet from PacComm. The GPS feeds in one port, the computer goes to the other. APRS sends a "refresh" (CTRL E)periodically to the Pico to keep it happy. As long as it has the refresh every once in a while (the LOC ev xx parameter), it knows the pc is there and its built-in HSP will feed location info to APRS.

As soon as you unplug the laptop (or the battery dies), the refresh stops and the TNC becomes a tracker after the LOC timer runs out. You even turn dark gray on the map and your P list entry gains a / sign and loses the @ sign.

This works great and I stay on the map all the time with the TNC and GPS safely hidden out of the way. All I have going up front is the RS232 cable from the Pico.

353. DFjr Cables

From: Joseph Agrelo <jagrelo@cris.com>
Date: Tue, 09 Jul 1996 11:40:06 -0700
To: aprssig@tapr.org
Message-ID: <31E2A786.55BB@concentric.net>
Rendered body type: text/plain

To the SIG,

Please be aware that the DFjr comes with all of the nessesary cables and connectors. William Nolle WA8INZ is trying to make a custom harness to better suit his needs.

Here is a clip from only one piece of email I received in response to Bills posting on the SIG.

Clip!---

I recently seen a message by Bill WA8INZ. He stated that he had to buy some cables and connectors to connect the DFjr to his equipment after receiving the DFjr. Since I'm expecting to receive my DFjr the day before our local Hamfest, my spare time is going to be minimal. I'm a committee person as well as doing some seminars. I wont have hours to play with the DFjr to make all the connections if there's lots to make it work out of the box.   I will be using a laptop, KPC-3, Garmin 45, and my radio will be either an Icom IC2000 mobile or IC-Z1A HT. The club president will have similar equipment.

End Clip!---

Now I will just grit my teeth.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
1145 Catalyn St. Schenectady, NY 12303 USA
(518)381-1057
(518)381-1058

```
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

354. Re: [APRSSIG:2940] Re: DFjr question

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 9 Jul 1996 11:43:57 -0500
To: <aprssig@tapr.org>
Message-ID: <199607091644.LAA21159@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>
> Yes i found that, but how about the GPS into the MPA board connector?.
> Like i say i checked and that comes in 3 sizes all with different OD and
ID
> and if the center pin isn't just right it will not make good contact.
Also i
> would like to have spares (So why not list those in the manual)!.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

I just went to the local radioo shack and found oone that fit, 3/32 I
think. I'm not sure but I think they are sized by the center pin, which is
on the MPA. Anyway, after I put all mine together, I used electrical tape
and taped it all together so that it wouldn't come loose. You'll have to
do something like that too. (We have lots of "country dirt roads" in these
hills!) Bumpidy, bumpidy, bumpidy!


--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas
```

---

355. Trimble OEM engine

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Tue, 9 Jul 1996 10:25:24 -0600 (MDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.960709101104.8625B-100000@willow>
Rendered body type: text/plain

```
I don't remember anyone mentioning this before, but I got a sales flier
yesterday on this...

Trimble now has an OEM engine to compete with Garmin.  It's called the
"Lassen-SK8".  I'll summarize briefly:

based on "Sierra" technology
8-channel
differential ready
dual serial i/o ports
NMEA 0183, TSIP, RTCM SC-104
accuracy: position = 25m CEP without SA
          velocity = 0.1 m/sec without SA
          time = +- 500 ns
DGPS accuracy: position = 2m CEP
               velocity = 0.05 m/sec
               time = +- 500 ns
cold start < 2 min, warm start < 45 sec, hot start < 20 sec
altitude = -1000m to +18,000m
velocity = 515m/sec max
accel = 4g
power = +5v, 150mA
NMEA: GGA, VTG, GLL, ZDA, GSV, GSA RMC
antenna power: 5v, 25mA, short circuit, feedline fault detection
antenna connector: SMB
several different antennas available
dimensions: 3.25" x 1.25" x 0.40"
weight: 0.7 oz.

price: I don't know what Trimble wants direct, but my local dealer
quoted 1=$285, 100=$210, 500=$190

Trimble Tracking & Communications Products
1-800-827-8000
```

Chris, AA7WD

---

356. Re: [APRSSIG:2943] DFjr Cables

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 09 Jul 1996 12:29:04 -0700
To: aprssig@tapr.org
Message-ID: <31E2B300.3BB7@worldnet.att.net>
Rendered body type: text/plain

```
Joseph Agrelo wrote:
>
> To the SIG,
>
> Please be aware that the DFjr comes with all of the nessesary cables
> and connectors. William Nolle WA8INZ is trying to make a custom harness
> to better suit his needs.
>
> Here is a clip from only one piece of email I received in response to Bills
> posting on the SIG.
>
> Clip!---------------------------------------------------------------------
>
>  I recently seen a message by Bill WA8INZ. He stated that he had to buy
> some cables and connectors to connect the DFjr to his equipment after
> receiving the DFjr. Since I'm expecting to receive my DFjr the day before
> our local Hamfest, my spare time is going to be minimal. I'm a committee
> person as well as doing some seminars.  I wont have hours to play with
> the DFjr to make all the connections if there's lots to make it work out of
> the box.   I will be using a laptop, KPC-3, Garmin 45, and my  radio will be
> either an Icom IC2000 mobile or  IC-Z1A HT. The club president will have
> similar equipment.
>
> End Clip!-----------------------------------------------------------------
>
> Now I will just grit my teeth.
>
> 73 De Joe N2OOC

Don't have to grit your teeth Joe, i answered that person by private e-mail and
told him what i was doing, and also that the only cable you need in addition to
what comes with the DFjr is an extension speaker. But what bothers me Joe i
have asked 3 times now for the sizes of the MPA adaptor, specially the one for
the GPS (Now that cable a person has to make) but maybe you don't know either,
if so just say so and i will find some way to measure the pin size.

For all the folks reading something into this that isn't there. I am making a
junction box to cut down on the many cables running all over the place when
hooking a DFjr, Laptop, TNC, GPS, 2 Radios, Extension speaker, Power to all
this, this hopefully will cut down on some of them!.

This has nothing to do with the DFjr itself it's working great and will work
right out of the box except for the Extension speaker. So those of you that are
concerned about needing cables, of course you do, but then you always do even
when purchasing a new radio or TNC or whatever. You will need to change the
connector on your GPS if you are using the MPA from Agrelo and that's the one
i'm trying to find the size of.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

---

357. Re: [APRSSIG:2944] Re: DFjr question

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 09 Jul 1996 12:34:31 -0700
To: aprssig@tapr.org
Message-ID: <31E2B447.4F2C@worldnet.att.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> I just went to the local radioo shack and found oone that fit, 3/32 I
> think. I'm not sure but I think they are sized by the center pin, which is
> on the MPA. Anyway, after I put all mine together, I used electrical tape
> and taped it all together so that it wouldn't come loose. You'll have to
> do something like that too. (We have lots of "country dirt roads" in these
> hills!) Bumpidy, bumpidy, bumpidy!
>
> --
> J. Scott Ratchford - KC5JGV
> Marshall, Arkansas

Ok Scott, i looked at the MPA GPS connector but it doesn't say. Yes i could go
to the nearest Radio Shack but as you know most of those are packages and
can't try and buy Hi. I will measure it somehow, would be better if it is the
right size. Thanks again Scott.

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org
```

358. Atlanta Georgia maps!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 9 Jul 1996 14:18:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960709141536.8211A-100000@arctic>
Rendered body type: text/plain

```
OK, I just finished putting together GAmaps06.zip and posting it on tapr.org
in tapr/SIG/aprssig/files/upload.

It has city street level throughout most of Atlanta.  I will be making some
improvements to add street names to  some of the maps along the Marathon
route.  But I wanted to get it out there now for planning purposes.

The Marathon, Cycling course, and 10K run/walk courses are marked.

de wb4apr@amsat.org
```

359. Re: [APRSSIG:2886] javAPRS

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Tue, 9 Jul 1996 14:10:03 -0500
To: aprssig@tapr.org
Message-ID: <v02120d00ae085e997561@[138.87.2.109]>
Rendered body type: text/plain

```
The best HTML application I have ever seen!  Great job Steve

><http://www.bridge.net/~sdimse/javAPRS.html>

snip

>Steve KO4HD
>sdimse@bridge.net


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

360. Re: [APRSSIG:2946] Re: DFjr Cables

From: Joseph Agrelo <jagrelo@cris.com>
Date: Tue, 09 Jul 1996 15:32:25 -0700
To: aprssig@tapr.org
Message-ID: <31E2DDF9.6864@concentric.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Joseph Agrelo wrote:
> >
> > To the SIG,
> >
> > Please be aware that the DFjr comes with all of the nessesary cables
> > and connectors. William Nolle WA8INZ is trying to make a custom harness
> > to better suit his needs.
> >
> > Here is a clip from only one piece of email I received in response to Bills
> > posting on the SIG.
> >
> > Clip!--------------------------------------------------------------------
> >
> >  I recently seen a message by Bill WA8INZ. He stated that he had to buy
> > some cables and connectors to connect the DFjr to his equipment after
> > receiving the DFjr. Since I'm expecting to receive my DFjr the day before
> > our local Hamfest, my spare time is going to be minimal. I'm a committee
> > person as well as doing some seminars.  I wont have hours to play with
> > the DFjr to make all the connections if there's lots to make it work out of
> > the box.   I will be using a laptop, KPC-3, Garmin 45, and my  radio will be
> > either an Icom IC2000 mobile or  IC-Z1A HT. The club president will have
> > similar equipment.
> >
> > End Clip!------------------------------------------------------------------
> >
> > Now I will just grit my teeth.
> >
> > 73 De Joe N2OOC
>
> Don't have to grit your teeth Joe, i answered that person by private e-mail and
> told him what i was doing, and also that the only cable you need in addition to
> what comes with the DFjr is an extension speaker. But what bothers me Joe i
> have asked 3 times now for the sizes of the MPA adaptor, specially the one for
> the GPS (Now that cable a person has to make) but maybe you don't know either,
> if so just say so and i will find some way to measure the pin size.
>
> For all the folks reading something into this that isn't there. I am making a
> junction box to cut down on the many cables running all over the place when
> hooking a DFjr, Laptop, TNC, GPS, 2 Radios, Extension speaker, Power to all
> this, this hopefully will cut down on some of them!.
>
> This has nothing to do with the DFjr itself it's working great and will work
> right out of the box except for the Extension speaker. So those of you that are
> concerned about needing cables, of course you do, but then you always do even
> when purchasing a new radio or TNC or whatever. You will need to change the
> connector on your GPS if you are using the MPA from Agrelo and that's the one
> i'm trying to find the size of.
> --
> Bill WA8INZ
> ke4eer@worldnet.att.net
> ke4eer@amsat.org

Bill,

It looks like your email gets to the SIG faster than mine, I did reply to all of
the connector sizes relating to the DFjr & MPA. Here they are again.

                                                                Mating Plug O.D.(mm)            Center
pin
                                                                                                Dia(mm)
Length(mm)

DFjr power jack         Mouser Part# 161-201    1.3mm           3.4mm                           1.2
5.0
DFjr audio jack         Mouser Part# 161-2501   2.5mm/mono audio        N/A                     N/A
N/A
DFjr modular jack       Digi-Key Part# A9031-ND 6-6 Low Profile Modular Jack, PC Mount
MPA GPS jack            Mouser Part# 16PJ031    2.1mm Power     5.5MM                           2.0
9.0
MPA PTT jack            Mouser Part# 161-2501   2.5mm/mono audio        N/A                     N/A
N/A

Sorry for the wrap around for people that don't have 21" monitors.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

361. VOX-RPTR in practice

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Tue, 9 Jul 96 15:32:02 EDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.836940722.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

I have been asked by my club's engineering director to see if there are other sites already doing the APRS MIC-E stuff on their repeater systems that might be similar to ours:

850 controller
3 or 4 remotes + central receive through a voter
114.8 pl

Thanks for any pointers.
73 de Alan N2YGK

---

362. Re: [APRSSIG:2950] Re: DFjr Cables

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 09 Jul 1996 14:53:55 -0700
To: aprssig@tapr.org
Message-ID: <31E2D4F3.3006@worldnet.att.net>
Rendered body type: text/plain

Joseph Agrelo wrote:
>
> It looks like your email gets to the SIG faster than mine, I did reply to all of
> the connector sizes relating to the DFjr & MPA. Here they are again.

Yes i got them but had a hard time printing them out though. You must have your e-mailer set realy wide or no auto justification Hi.

Thanks Joe for the information, now i can order my JUNCTION BOX parts, and make up the cables for it.
--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

---

363. Re: [APRSSIG:2933] Re: Hurrican Warnings to UYR

From: n2czf@magg.net (Richard Garcia)
Date: Tue, 9 Jul 1996 18:10:50 -0400
To: aprssig@tapr.org
Message-ID: <199607092210.SAA31029@grumpy.magg.net>
Rendered body type: text/plain

This is understood, Kevin and I both digi via W7LUS due to the fact that we are trying to reach florida users with our hurricane data. Since we are in Florida we cannot do this due to the skip range, Peter W7LUS has a good position to reach most of Florida allmost all day long. After we digi thru Peter then GATE,WIDE will get any important data distributed back along all the VHF networks in FL that have a 30M GATEWAY.

Also digipeating is not recomended on HF but their are occasions when it must just be done, this is one of them.

```
>Someone might also tell UYR that digi via LUS is fine but if one
>does not hear the digi the data will not gateway to vhf.
>I often hear UYR better direct but the call in the path stops
>the gateway from passing the position on to vhf.
>
>Roger N8CHB
>
>////////////////
>Bob Bruninga wrote:
>>
>> I am seeing a good plot of the Hurricane, but I notice that the format is
>> written as
>>           085^095/982/115&200
>> but it should be written as
>>           085^095/982>115&200
>>
>> WIthout the > symbol, the 115 mile radius of maximum HC winds is not
>> being plotted.  I dont know if this is a one-time typo, or UYR is doing
>> this conisitently.  Can someone get to him?  My mailer just will not work
>> with his EMAIL address...
>>
>> de wb4apr@amsat.org
>
>
```

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)

Jupiter Farms Florida EL96

364. Dos error #6 ?

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 9 Jul 1996 21:55:49 +0000
To: aprssig@tapr.org
Message-ID: <199607100101.VAA02779@hemisphere.neocomm.net>
Rendered body type: text/plain

Can some one tell me somthing about Dos error #6.

thanks.

charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

365. Re: [APRSSIG:2877] APRS SEATTLE??

From: DEEATON@aol.com
Date: Tue, 9 Jul 1996 23:34:52 -0400
To: aprssig@tapr.org
Message-ID: <960709233451_430937189@emout07.mail.aol.com>
Rendered body type: text/plain

Hi dave next time you send email please send updated maps from around that you have done . Even those from HI or anywhere else I'm collecting them from everywhere talk to you later. By the way Mary and I just got back from Lowake and a great steak and fresh onion rings and big glass of tea. Wish you were here but we ate it all hihi right. Talk later glad you got other radio and how is it have another but it's Maxon new in box with speaker mike for 175.00 if you can sell it. See ya later partner(Texan) talk ya know (bubba). Mary says KISSES and Hugs...

366. gate

From: Roger Breckon - N8CHB <n8chb@tir.com>
Date: Wed, 10 Jul 1996 04:37:12 +0100
To: aprssig@tapr.org
Message-ID: <31E32567.155E@tir.com>
Rendered body type: text/plain

To: KD4UYR

ur Hurricane information looks gud and thank u for the time and effert it took to set it up.

As a sugestion only u might try this path.
GATE,WIDE,call,GATE,WIDE

I believe this will still accomplish the same thing plus let the hf gateways in other states send the information over to local vhf areas.

de Roger n8chb@tir.com

367. DFjr Card EPS

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 10 Jul 1996 03:41:13 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ae091a2cdce8@[199.1.11.105]>
Rendered body type: text/plain

>I have uploaded my final,final,final DFjr quick reference card file to
>Tapr. Per a request i added a format the Mac can handle.

Much thanks for doing all this work. I have the cards all printed out for when I get my DFjr.

I have not had any problem printing any of your early PCX formats on my MAC or the later GIF,TIFF - Other than making is smaller-- :-)

But I did need to use a text editor to remove some extra binary data from the first line of the .ESP file format

I saw this:

```
□-²□¤!¤Ã□□%!PS-Adobe-2.0 EPSF-2.0
%%BoundingBox: 24 503 524 768
%%Creator: COREL DRAW
%%Title: DFJRFRNT.TMP
%%CreationDate: Mon Jul 31 11:37:16 1995
---------------------------------------
```

I just deleted the extra data before the %!PS-Adobe-2.0 EPSF-2.0
with a text editor and it printed fine.

I don't know if that is from the ZIP process or what.
Did others have a problem printing the EPS files.
Was as regular PS file any smaller ??

Thanks again

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

368. Re: [APRSSIG:2957] DFjr Card EPS

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 10 Jul 1996 08:36:58 -0700
To: aprssig@tapr.org
Message-ID: <31E3CE1A.1812@worldnet.att.net>
Rendered body type: text/plain

Robert Winingham wrote:

```
>
> >I have uploaded my final,final,final DFjr quick reference card file to
> >Tapr. Per a request i added a format the Mac can handle.
>
> Much thanks for doing all this work. I have the cards all
> printed out for when I get my DFjr.
>
> I have not had any problem printing any of your early PCX formats on
> my MAC or the later GIF,TIFF - Other than making is smaller--  :-)
>
> But I did need to use a text editor to remove some extra binary
> data from the first line of the  .ESP file format
>
> I saw this:
> ---------------------------------------
> □-²□
> %%BoundingBox: 24 503 524 768
> %%Creator: COREL DRAW
> %%Title: DFJRFRNT.TMP
> %%CreationDate: Mon Jul 31 11:37:16 1995
> ---------------------------------------
>
> I just deleted the extra data before the %!PS-Adobe-2.0 EPSF-2.0
> with a text editor and it printed fine.
>
> I don't know if that is from the ZIP process or what.
> Did others have a problem printing the EPS files.
> Was as regular PS file any smaller ??
>
> Thanks  again
>
> 73
>
> Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

Glad you didn't have any problems printing them on the Mac, notice the
date and time. I did this on my old 486/33 that has a dead battery i
guess. Yes i don't know how it added that info on the end of the file
since all i did was used the export function on CorelDraw to create the
file. Bob i use the PCX and place it into Pagemaker, when placed into
pagemaker it's way to big but it's easy to resize that way. Actually it
was done in CorelDraw as being 4.5" X 7" .

--
Bill WA8INZ
ke4eer@worldnet.att.net
ke4eer@amsat.org

369. test

From: kk6yo@kk6yo.ampr.org
Date: Wed, 10 Jul 96 08:56:41 PDT

To: aprssig@tapr.org
Message-ID: <4289@kk6yo.ampr.org>
Rendered body type: text/plain

```
Are you guys getting this?
73
   Jerry

     □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
     □         Ampernet - kk6yo.ampr.org [44.16.1.82]         □
     □             SMTP to kk6yo@kk6yo.ampr.org               □
     □         Ax25 mail to kk6yo @ wb6ymh.#soca.usa          □
     □         e-mail - kk6yo@WWCB.Earthlink.net              □
     □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

370. Cable for TNC/GPS/DFjr

From: quarry@q.continuum.net (Chip)
Date: Wed, 10 Jul 1996 11:59:13 -0400
To: aprssig@tapr.org, ham-tech@netcom.com, fox-list@netcom.com
Message-ID: <v02140b00ae0983278d6e@[199.0.52.85]>
Rendered body type: text/plain

```
I need a cable for connecting various ham radio equipment to my laptop.
I need a male DB-9 to male Din-8 wired for serial modem (I bought one but
it is setup for printers and doesn't work).  If anyone knows a source of
such a cable please email me direct, do NOT reply to the whole list
please.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     http://q.continuum.net/~quarry/
 TRAUG home page:  http://q.continuum.net/~quarry/TRAUG.html
```

---

371. APRS Mapping: How To?

From: robert <rambrose@unm.edu>
Date: Wed, 10 Jul 1996 11:49:09 -0900 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.960710114530.3023A-100000@ppp_058.unm.edu>
Rendered body type: text/plain

```
Hi,
I've just recently become acquainted with APRS and find it great!  I
would like to make my own maps, however, the information in the various
TXT files is confusing - at least for me as a beginner.  I notice in the
GPS.TXT file the following about the Garmin 45 (which I have and would
like to use to make maps):  "Replay track histories stored in the unit
into APRS conversion programs and build yur own APRS maps."  That's
exactly what I want to do!  Is there a step-by-step process you can refer
me to?

Thank you!

Rob
```

---

372. Re: [APRSSIG:2959] test

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 10 Jul 1996 13:30:11 -0700
To: aprssig@tapr.org
Message-ID: <31E412D3.3C31@worldnet.att.net>
Rendered body type: text/plain

```
kk6yo@kk6yo.ampr.org wrote:
>
> Are you guys getting this?
> 73
>    Jerry
>
>      ÉÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ»
>      º         Ampernet - kk6yo.ampr.org [44.16.1.82]         º
>      º             SMTP to kk6yo@kk6yo.ampr.org               º
>      º         Ax25 mail to kk6yo @ wb6ymh.#soca.usa          º
>      º         e-mail - kk6yo@WWCB.Earthlink.net              º
>      ÈÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ¼
>

But of course, at least the sig did.....
--
Bill WA8INZ
```

ke4eer@worldnet.att.net
ke4eer@amsat.org

373. Re: [APRSSIG:2959] test

From: Gary Arnold <garnold@naples.net>
Date: Wed, 10 Jul 1996 18:23:48 -0700
To: aprssig@tapr.org
Message-ID: <31E457A4.1BB8@naples.net>
Rendered body type: text/plain

```
kk6yo@kk6yo.ampr.org wrote:
>
> Are you guys getting this?
> 73
>    Jerry
>
>      ÉÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ»
>      °         Ampernet - kk6yo.ampr.org [44.16.1.82]         °
>      °             SMTP to kk6yo@kk6yo.ampr.org              °
>      °         Ax25 mail to kk6yo @ wb6ymh.#soca.usa          °
>      °         e-mail - kk6yo@WWCB.Earthlink.net              °
>      ÈÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ¼
>

Yes...but we don't understand it! :-)

(Sorry...a little slap happy from storm tracking.)

73,
Gary

--

___________________________________________
Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I'm writing an unauthorized autobiography."
           -- Steven Wright, perpipheral visionary
```

374. Help with init and restore files for KPC-3?

From: byoung@qni.com
Date: Wed, 10 Jul 1996 14:49:55 -0500
To: aprssig@tapr.org
Message-ID: <9607101949.AA02401@qni.com>
Rendered body type: text/plain

APRS devotees,

I'd like to ask for some feedback from the group on the "optimum" APRS
TNC initialization and restoration files for use with the KPC-3. The
"modes" would include "normal" operation at QTH and (most importantly
right now...) mobile with a GPS in HSP mode. Any and all suggestions
 considered!

Bill Young
byoung@qni.com
KB0UZQ

375. Re: [APRSSIG:2961] APRS Mapping: How To?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jul 1996 18:03:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960710180222.29894G-100000@arctic>
Rendered body type: text/plain

Yes, just run MAPFIX23. THen do a TASK-GPS and give the file name of the
Track History, and the dots will apear on the map for you to draw in...

APRSdos REPLY COMMENT:

de wb4apr@amsat.org

---

376. GPS Display From J. Goldberg

From: mark.endicott@nashville.com
Date: Wed, 10 Jul 96 16:52:32
To: aprssig@tapr.org
Message-ID: <199607102202.RAA22075@tapr.org>
Rendered body type: text/plain

I recently completed the LCD Display kit that J. Goldberg has advertised on this sig. It parses the GGA sentence from your GPS and displays Lon.,Lat, Time and Grid Square. The kit went together in about an hour and worked the first time.

J. mentioned in the doc's that if there was any interest in having it parse and display other information to let him know. I thought that it would be great to have it parse the RMC sentence and display Lon., Lat., SPEED and COG (Course over Ground) He responded, that if there was enough interest he probably could make it work.

I am using the display with the Garmin GPS-31, which like the GPS-20, has no display. J's LCD display could be mounted on your dash and show Location, Speed (TO 999 KNOTS WITH THE 31 AND 20) and Course as well as feed your TNC the required tracking information.

If anyone is interested in having J. work on this project and would commit to buying one ($50.00); email him direct and let him know. If there are 10 to 12 of us that want one he said he would "work on it".

73......Mark (WB0NOO)

Respond to:

J. Goldberg email..j@harper.com
Harper Technologies
P.O. Box 26910
San Diego, CA 92196-0910
Voice (619) 693-9046 Fax (619) 621-9046

```
    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |_______________________________/
```

---

377. Re: [APRSSIG:2961] APRS Mapping: How To?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 10 Jul 1996 18:06:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960710180320.29894H-100000@arctic>
Rendered body type: text/plain

On Wed, 10 Jul 1996, robert wrote:

> I've just recently become acquainted with APRS and find it great! I
> would like to make my own maps.... by ... replaying track histories stored
> in the unit into APRS conversion programs
> Is there a step-by-step process you can refer me to?

APRSdos REPLY COMMENT: Simply load the map you want to modify into MAFIX23 and then use the TASKS-GPS command to load the track history. The dots will show on the map and you can edit new roads over them...

These are APRS track history files. TO take the data out of the GARMIN, I believe someone wrote a conversion program from GARMIN to APRS format... Anyone?

de wb4apr@amsat.org

378. Ultimeters

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Wed, 10 Jul 1996 22:17:18 -0500
To: aprssig@tapr.org
Message-ID: <199607110321.WAA19008@sparc.isl.net>
Rendered body type: text/plain

Thanks for the help finding Peet Bros. Now some new questions. Is the 500 supported as well as the II and 2000? I have a PK-12 now which understands GPS and Ultimeter II streams. When I connected it to the GPS20, it seems to just spit out the sentence exactly as the GPS sends it - i.e. with no processing. I assume it does the same for the Ultimeter so it is really up to the APRS software which receives these sentences to parse them. Correct? Also, the instructions in the PK-12 manual for the Ultimeter hookup say to add the time and date to the beacon text. Does it alter that information or just leave it alone (I'd guess the latter)? If it leaves it alone, it doesn't seem to make sense to put in a time/date stamp when the system was setup - I'd want to know the time/date for the readings. Am I missing something?

I'd prefer to run this standalone without a computer so any other info from those of you who have done this would be welcome. Now the big decision - do I really need the barometer in the 2000?!
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

379. Re: [APRSSIG:2959] test

From: "Steven N. Bienvenu" <bienvenu@softdisk.com>
Date: Wed, 10 Jul 1996 23:48:39 -0500
To: aprssig@tapr.org
Message-ID: <31E487A7.2D1E@softdisk.com>
Rendered body type: text/plain

Hi Jerry,

Yep, message received.

nb5f (steve)kk6yo@kk6yo.ampr.org wrote:

```
>
> Are you guys getting this?
> 73
>    Jerry
>
>      ÉÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ»
>      º         Ampernet - kk6yo.ampr.org [44.16.1.82]        º
>      º             SMTP to kk6yo@kk6yo.ampr.org              º
>      º         Ax25 mail to kk6yo @ wb6ymh.#soca.usa         º
>      º         e-mail - kk6yo@WWCB.Earthlink.net             º
>      ÈÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ¼
>
```

380. APRS76f.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jul 1996 01:16:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960711011318.5999E-100000@arctic>
Rendered body type: text/plain

The latest APRS is posted as APRS76f.zip, but not yet the upgrade file. Ill do that tomorrow...

it fixes:
1) the own wx station wind direction display
2) the new Ultimeter formats
3) It has the alt-SETUP-OTHER-LOCK command that will allow you to lock the program from sending any mnessages, objects, or other data. This is for un-atttended operations to prevent un authorized individuals from putting sdata into an APRS newtowrk un supervised...

de wb4apr@amsat.org

381. Re: [APRSSIG:2970] APRS76f.zip

From: jkerns@usit.net (jim kerns)
Date: Thu, 11 Jul 1996 08:32:25 -0400
To: aprssig@tapr.org
Message-ID: <199607111242.IAA10937@use.usit.net>
Rendered body type: text/plain

```
>The latest APRS is posted as APRS76f.zip, but not yet the upgrade file.
>Ill do that tomorrow...
>
>it fixes:
>1) the own wx station wind direction display
>2) the new Ultimeter formats
>3) It has the alt-SETUP-OTHER-LOCK command that will allow you to lock
>the program from sending any mnessages, objects, or other data.  This is
>for un-atttended operations to prevent un authorized individuals from
>putting sdata into an APRS newtowrk un supervised...
>
>de wb4apr@amsat.org
>
>Bob:  Wonder what the difference is between Lock command on 76f and the C
X command, where u can turn off the transmit on the older versions?
Thanks, Jim.
>
```

---

382. Re: [APRSSIG:2964] Help with init and restore files for KPC-3?

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 11 Jul 1996 07:52:51 -0500
To: <aprssig@tapr.org>
Message-ID: <199607111259.HAA08348@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> I'd like to ask for some feedback from the group on the "optimum" APRS
> TNC initialization and restoration files for use with the KPC-3.  The
> "modes" would include "normal" operation at QTH and (most importantly
> right now...) mobile with a GPS in HSP mode.  Any and all suggestions
>  considered!
>
> Bill Young
> byoung@qni.com
> KB0UZQ

I have three KPC-3's, one at the QTH, one in the mobile package, and one
as a digi. For the exception of the digi (btext, BT every 10:00, ect.)
they are all the same, with different id's -10 digi, -15 mobile. I use a
Garmin 55 in the mobile package with the DFjr Multi Port Adapter (MPA)
now. I was using the HSP that you mentioned with excelent results. All the
setting were the same as the QTH tnc.

If you find a more optimum mode, let me know!


--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas
```

---

383. Lightining Detection

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 11 Jul 1996 08:16:13 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607111316.IAA08452@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
There were a few messages about lightining detection on the sig earlier.
Can anyone direct me to the right location to order these devices? And,
Bob, have you any plans to add this function into APRS WX?
--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas
```

---

384. Re: [APRSSIG:2968] Ultimeters

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Thu, 11 Jul 1996 09:17:02 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960711141702.006fa354@144.188.134.33>
Rendered body type: text/plain

```
I am very upset with my Ultimeter 2000 in that I am sending back for repair
my 3rd unit. I expect that I will get a replacement, making it a 4th unit.
(Yes I really only own 1). In all cases the LCD back light has failed, and
```

in nearly all cases the viewing angle of the LCD ranges from barely
acceptable to down right poor. I also have the optional outside humidity
sensor, and that has failed too. I will have to say however, that Peet Bros.
has not been giving me any difficulties in that they have been willing to
replace the units under the warranty every time. Good luck.

At 10:20 PM 7/10/96 -0500, you wrote:
>Thanks for the help finding Peet Bros. Now some new questions. Is the 500
>supported as well as the II and 2000? I have a PK-12 now which understands
>GPS and Ultimeter II streams.
Paul, WD9ABE

---

385. KPC-3 question

From: Doug_Wetzel@acs.uswest.com
Date: Thu, 11 Jul 1996 08:13:01 -0500
To: aprssig@tapr.org
Message-ID: <1e50d2b0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I have seen a number of postings stating that the KPC-3 can use the MYNODE
callsign as a digipeat alias. It's not clear from Kantronics' documentation how
that alias becomes enabled as a valid ax25 digi. I have the MYN callsign
programmed into our WIDE, but when directing a path at it, it does NOT digi.
The KA node function IS disabled. Anyone done this and can help?

Please reply direct and spare the sig bandwidth! Thanks!

73
Doug
KC7CO
Radio Free Utah

---

386. Re: [APRSSIG:2975] KPC-3 question

From: n1obu@worldnet.att.net (Douglas M. Pervine)
Date: Thu, 11 Jul 1996 15:35:19 GMT
To: aprssig@tapr.org
Message-ID: <31e51ef0.22651807@mailhost.worldnet.att.net>
Rendered body type: text/plain

Hi.. Real quick.. Yes.. MYNode can be set up for WIDE and will digi, but the
Node must be set active with NUMNODES command.. Usually setting it to 2 would
be good.. Hopefully that will work..

--73

On Thu, 11 Jul 96 14:42:11 +0000, you wrote:

>I have seen a number of postings stating that the KPC-3 can use the MYNODE
>callsign as a digipeat alias. It's not clear from Kantronics' documentation how
>that alias becomes enabled as a valid ax25 digi. I have the MYN callsign
>programmed into our WIDE, but when directing a path at it, it does NOT digi.
>The KA node function IS disabled. Anyone done this and can help?
>
>Please reply direct and spare the sig bandwidth! Thanks!
>
>73
>Doug
>KC7CO
>Radio Free Utah
>

---

387. 9600 baud APRS?

From: n1obu@worldnet.att.net (Douglas M. Pervine)
Date: Thu, 11 Jul 1996 15:39:44 GMT
To: aprssig@tapr.org
Message-ID: <31e51fc0.22859388@mailhost.worldnet.att.net>
Rendered body type: text/plain

Hi..

I am getting started into APRS. I have a KPC-9612. I would like to set it up
and was wondering if there is any 9600 APRS action anywhere.. Either 2m or
70cm.

I will be testing it with GPS and moble soon.. So I am sure I will have
questions on that too.. But none right now.. If you have any advice.. Please
let me know.. Thanks!

--73

---

388. Re: [APRSSIG:2974] Re: Ultimeters

From: jaym1@soho.ios.com (Jay Millard)
Date: Thu, 11 Jul 1996 11:54:52 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ae0ad31cad9b@[206.20.7.19]>
Rendered body type: text/plain

Paul Moller wrote:

>I will have to say however, that Peet Bros.
>has not been giving me any difficulties in that they have been willing to
>replace the units under the warranty every time. Good luck.

I would second that and underscore the value of posting whenever we have good, positive experiences with companies who supply equipment for our hobby as well as the negative experiences. Peet replaced my U2000 whose LCD had failed, without question and promptly.

And I just purchased a unit for a friend in the UK, and they configured it for 220v. He called me, 'ecstatic' over it!

Jay Millard
Amateur Radio Station KD1LY
Darien, CT 06820

---

389. Re: [APRSSIG:2975] KPC-3 question

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 11 Jul 1996 11:16:47 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960711161647.0085a15c@tbcnet.com>
Rendered body type: text/plain

Doug,
Here are the parameters we're using for WA9CJN-15 Wide-Relay. It's a KPC-3.
We're also extensively using the Remote function, as the digi site is quite removed from my QTH. Note: I've deleted the RText and MYRemote. Check the KPC-3 docs for further info.

```
8BITCONV ON
AX25L2V2 ON
ABAUD    2400
AUTOLF   ON
AXDELAY  0
AXHANG   0
BEACON   EVERY 10 min
BKONDEL  ON
BLT
1 EVERY 00:00:00
2 EVERY 00:00:00
3 EVERY 00:00:00
4 EVERY 00:00:00
BTEXT    !4200.90N/08900.10W#PHG5460/WIDE-RELAY KARC APRS WIDE/RELAY DIGI
BUDLIST  OFF
BUDCALLS NONE
A Link state is: DISCONNECTED
CANLINE  $18 (CTRL-X)
CANPAC   $19 (CTRL-Y)
CD       SOFTWARE
CHECK    0 (disabled)
CMDTIME  1 (1 sec)
CMSG     DISC
COMMAND  $03 (CTRL-C)
CONLIST  OFF
CONMODE  CONVERS
CONOK    OFF
CPACTIME OFF
CR       ON
CRSUP    OFF
CSTAMP   OFF
CTEXT    Kishwaukee Amateur Radio Club APRS Wide/Relay
CWID     EVERY 0 (disabled)
CWIDTEXT %
DAYTIME  04/12/96 08:01:15
DAYTWEAK 8
DAYSTR   mm/dd/yy hh:mm:ss
DBLDISC  OFF
```

```
DELETE   $08 (CTRL-H)
DIGIPEAT ON
DWAIT    0
ECHO     ON
ESCAPE   OFF
FLOW     ON
FILTER   OFF
FRACK    4 (4 sec)
FULLDUP  OFF
GPSHEAD
1 $GPGGA
2
3
4
GPSINIT
HBAUD    1200
HEADERLN OFF
HID      OFF
HTEXT
INTFACE  TERMINAL
KNTIMER  15 min
LEDS     ON
LCOK     ON
LCSTREAM ON
LFADD    OFF
LFSUP    ON
LLIST    OFF
LT
1
2
3
4
LTP
1 GPS
2 GPS
3 GPS
4 GPS
LTRACK   0

MONITOR  ON
MALL     ON
MAXFRAME 4
MAXUSERS 10
MBEACON  ON
MCON     OFF
MCOM     OFF
MRESP    OFF
MRPT     ON
MSTAMP   OFF
MXMIT    OFF
MYCALL   WA9CJN-15
MYALIAS  WIDE
MYNODE   RELAY
MYPBBS   %
MYREMOTE ??????
NDWILD   OFF
NEWMODE  ON
NOMODE   OFF
NTEXT
NUCR     0
NULF     0
NUMNODES 1
PACLEN   128
PACTIME  AFTER 10 (1000 msec)
PARITY   NONE
PASS     $16 (CTRL-V)
PASSALL  OFF
PBBS     5
PBFORWRD NONE  EVERY 0 (disabled)
PBHEADER ON
PBHOLD   ON
PBKILLFW OFF
PBLO     NEW VARIABLE
PBPERSON OFF
PBREVERS ON
PERSIST  63 (25%)
PID      OFF
PMODE    CMD
PTEXT
```

```
REDISPLA $12 (CTRL-R)
RELINK   OFF
RESPTIME 5 (500 msec)
RETRY    10
RING     ON
RNRTIME  0 (disabled)
RTEXT    ????????
SCREENL  0
SENDPAC  $0D (CTRL-M)
SLOTTIME 10 (100 msec)
START    $11 (CTRL-Q)
STATSHRT ON
STOP     $13 (CTRL-S)
STREAMSW $7C (|)
STREAMCA OFF
STREAMEV OFF
SUPLIST  OFF
SUPCALLS NONE
SWP      17,17,108
TRACE    OFF
TRFLOW   OFF
TRIES    10
TXDELAY  30 (300 msec)
TXFLOW   OFF
UNPROTO  APRS VIA N9JOD,N9APP,WB9WOZ,WIDE
USERS    1
XFLOW    ON
XMITOK   ON
XOFF     $13 (CTRL-S)
XON      $11 (CTRL-Q)
```

At 09:41 7/11/96 -0500, you wrote:

> I have seen a number of postings stating that the KPC-3 can use the MYNODE
> callsign as a digipeat alias. It's not clear from Kantronics'

documentation how

> that alias becomes enabled as a valid ax25 digi. I have the MYN callsign
> programmed into our WIDE, but when directing a path at it, it does NOT digi.
> The KA node function IS disabled. Anyone done this and can help?
>
> Please reply direct and spare the sig bandwidth! Thanks!
>
> 73
> Doug
> KC7CO
> Radio Free Utah
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

---

390. APRS76F and MAPFIX26

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jul 1996 12:39:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960711123328.17194A-100000@arctic>
Rendered body type: text/plain

I had left out the new MAPFIX26 in the APRS76F.zip that I posted after
midnight last night. I have now uploaded a new APRS76F to tapr. If you
donwloaded the full APRS76F prior to 1220 EDT Thursday, then you need to
get the upgrade file 76to76F.zip. (there were several other new files
that were also left out, so please get the upgrade...)

MAPFIX26 fixes the problems introduced in MAPFIX25 whenever you delete
the END point of a map feature. As you know, beginning with MAPFIX25 you
can now use the MOUSE and I find that VERY handy! Please delete all
copies of MAPFIX25. Thanks.

HERE IS A LIST OF CHANGES IN DETAIL:

Following changes in 76f:

WX changes:
* Fixed to operate with new format Ultimeters +4 and +8 bytes
* Fixed bug preventing OWN station WX wind direction from plotting

* For un-attended displays, Alt-SETUP-OTHER-LOCK prevents unauthorized
  casual users from SENDing, INPUTing, and COMM-TNC access

GENERAL:
* Fixed 6 letter calls & 2 digit SSID's not receiving MSGS or ACKS

SPACE MODE:
* Eliminated the old APRS grid Square mode which put the GS in your BText
  in favor of the current system used in SAREX, APRtrak and MScatter
  where the GDSQ is put in the TO address. APRS will still receive the
  old format, but will not transmit it.
* Now, the special format]$[at the beginnning of a packet will force
  APRS to interpret the TO field as a GRID Square AND the $ character
  will be interpreted as your symbol character.
* SPACE & Mscat modes have moved from the SETUP-MODES to SETUP-FORMATS menu
* Now SPACE and MScatter FORMATS automatically insert this symbol indicator
* SPACE FORMAT now only configures your station to TRANSMIT with your
  grid square in the TO field. It does not automatically increase
  its beacon rate when it hears the spacecraft.
* To have your station reset its decay timers on hearing the spacecraft,
  now you must select the SETUP-MODES-AUTOspace mode.
* Fade-to-Gray is disabled in SPACE and MSCATT modes
* SPACE and MSCATT modes now capture the entire packet on the ALL screen
  so you can see the TO call of SAREX packets.

Ver 76e: Fixes these problems:
* APRS has always forced TXD of 33 when in HF. This has been removed.
  Set your TNC TXD as you like or put it in the INITTAPR.TNC file.
* The SPACE mode SUCCESS function was not working in all versions as far
  back as I could find. Therefore your station would not RESET to a
  low BEACON rate when you were successful. This would cause un-necessary
  QRM during APRS SAREX operations. Is now fixed.
* I think I fixed why APRS often sent the first packet via RELAY instead
  of what you had in your config file...

de wb4apr@amsat.org

---

391. Re: [APRSSIG:2971] Re: APRS76f.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jul 1996 12:48:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960711124601.17194D-100000@arctic>
Rendered body type: text/plain

On Thu, 11 Jul 1996, jim kerns wrote:

> >Bob: Wonder what the difference is between Lock command on 76f and the C
> X command, where u can turn off the transmit on the older versions?

APRSdos REPLY COMMENT: With LOCK set, APRS is still fully functional on
line, reporting its position and latest status, plus trying to deliver
and ack its messages and bulletins. But with LOCK set, you cannot ENTER
any new data for transmission.. Nor alter your position or BEACON STATUS.

It keeps unauthorized personnel from messing with the data going out over
the net while still permitting full operator access to all displays and
screens...

de wb4apr@amsat.org

---

392. Re: [APRSSIG:2975] KPC-3 question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Jul 1996 12:55:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960711125451.17194H@arctic>
Rendered body type: text/plain

On Thu, 11 Jul 1996 Doug_Wetzel@acs.uswest.com wrote:

> I have seen a number of postings stating that the KPC-3 can use the MYNODE
> callsign as a digipeat alias. It's not clear from Kantronics' docs how
> that alias becomes enabled as a valid ax25 digi. I have the MYN callsign
> programmed into our WIDE, but when directing a path at it, it does NOT digi.
> The KA node function IS disabled. Anyone done this and can help?

APRSdos REPLY COMMENT: I suspect that KA node has to be enabled...

de wb4apr@amsat.org

393. KPC Question

From: Doug_Wetzel@acs.uswest.com
Date: Thu, 11 Jul 1996 11:27:56 -0500
To: aprssig@tapr.org
Message-ID: <1e53ade0@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

I have had plenty of replies to my KPC-3 question earlier today!

Thanks to everyone, no more info necessary!

73
Doug
KC7CO

---

394. DF-Jr support

From: n4nr@vulcan.com (N4NR)
Date: Thu, 11 Jul 96 12:13:00 -0600
To: aprssig@tapr.org
Message-ID: <8C442DD.0012001CF6.uuout@vulcan.com>
Rendered body type: text/plain

Just a note to relay an experience I had with my DFJr from Agrelo Engineering ... After assembly and hook-up, all appeared to be working except that bearings to the transmitter were very erratic, mostly invalid. I played around with the unit for about 2 weeks, trying this and that, but no joy.

I e-mailed Agrello engineering, and described my problem. Joe responded by e-mail, apologized for the troubles, and said they would send another antenna/switching unit to replace mine. I answered with a request that the antenna/switching unit be replaced before 4th of July weekend. They shipped the replacements 2nd day UPS, and I received on July 3rd.

Had a chance to try it out, and all is working fine now. Got a fox hunt this Sat., and I'm sure glad to get it corrected. :-)

Thanks to Agrelo Engineering for the customer support.

Dennis - N4NR
n4nr@amsat.org

---

395. Trimble/PacComm GPS Antenna Report

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 11 Jul 1996 14:04:40 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960711140440.2081a42a@exame2.dseg.ti.com>
Rendered body type: text/plain

I borrowed one of the Trimble/PacComm GPS antennas from Jim, AA5QX, with the idea of comparing it to the Motorola active antenna I have been using for about the last nine or ten months. The Motorola antenna has always been an excellent performer and I have been quite happy with it. It is mounted on the dashboard of my '94 Chevy Caprice. I glued (rubber cement) the top of a tin can to the dashboard right next to the windshield and on the centerline of the car. The Motorola antenna was placed on the tin can lid to keep it from sliding around, since the dash is all plastic (read non-magnetic!). I run a Garmin GPS 45 in the car.

The Trimble antenna was placed on the dashboard a few inches away from the Motorola antenna and tied down to the defroster vent with a twist tie to keep it from sliding around. I used it like that for a couple of days.

I was really quite disappointed in the Trimble with this setup. Its performance ranged from mediocre to unacceptable, sometimes not seeing any of the satellites at all even with an unobstructed view of the sky. It also seemed to be very temperature sensitive. Bummer!

However, this morning I got to wondering if a real ground plane under the antenna would make any difference. I cut the top out of another handy tin can (about 2.5" to 3" in diameter) and put it under the Trimble, leaving it in the same place on the dashboard as before.

WOW - what a difference! The performance now ranges from excellent to outstanding, I think generally outperforming the Motorola. However, I have only used the Trimble like this for a few hours and today in Dallas is pretty cloudy, so the temperature in the car has not been extreme today so

far. However, I have been impressed enough with the Trimble to put in
an order for one of my own!

Moral of the story. The Trimble antenna REALLY DOES like some metal under it.
This makes an enormous difference in how the antenna performs. If you are
trying to use one without the ground plane, you are only getting a small
fraction of what the antenna can do. Even something as simple as a tin can lid
makes a huge difference.

Point two: Jim Lawyer, AA5QX, has developed a really elegant process for
mounting an ordinary BNC connector in place of the SMB connector which comes
on the Trimble. The antenna I was testing above had the BNC connector which he
had installed, so it plugged directly into the Garmin GPS 45 with no trouble
at all. Maybe with a little encouragement from the SIG he could be persuaded
to detail the steps of this connector replacement for us!

Hint, Hint - Jim!!!

73 Claude Head
K5DTN

---

396. DC isolation

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Thu, 11 Jul 1996 15:47:49 -0400
To: aprssig@tapr.org
Message-ID: <199607112001.PAA15837@tapr.org>
Rendered body type: text/plain

Hi Gang;.....Can someone tell me a easy way to build a DC
isolator to put in the antenna line of my GPS-20 so that I can use
a externally powered pre amp with my h/b antenna.

TNX for any info,

-73- Charlie K3VDB
-73- For Now Charlie K3VDB

```
    __  _    ______   __       _    ______    ______
   / / / )  /_/____)  \ \ ___ / )  / /__  )  / /__  )
  / /<  /     __/_/    \ \   / /  / /  / /  / / _/ /
 / /  | |   __/__/      \ \ / /  / /__/ /  / /__/ /
/_/___|_|_/_____/________\_X_/__/_/____/__/_/____/
 \ On Satellites KO-23 KO-25  AO-13 modes B & S /
  \          E- Mail  k3vdb@amsat.org          /
   \------------------------------------------/
```

---

397. Re: [APRSSIG:2978] Re: Ultimeters

From: BordingK@aol.com
Date: Thu, 11 Jul 1996 16:42:25 -0400
To: aprssig@tapr.org
Message-ID: <960711164211_574667780@emout10.mail.aol.com>
Rendered body type: text/plain

I spoke to Peet Bros today to order the rain gauge and the lady said they
should be up on EMail and WWW soon.
''73 de KF4COH
Ken

---

398. Re: [APRSSIG:2981] Re: APRS76f.zip

From: KD4EMI@aol.com
Date: Thu, 11 Jul 1996 19:31:32 -0400
To: aprssig@tapr.org
Message-ID: <960711193130_235819709@emout09.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-07-11 13:39:06 EDT, you write:

>
>It keeps unauthorized personnel from messing with the data going out over
>the net while still permitting full operator access to all displays and
>screens...
>
>de wb4apr@amsat.org
>
>

Can we get remote UNLOCK ?? via another tnc ? like a back door unlock?
MIke
KD4EMI@AOL.COM

399. Re: [APRSSIG:2973] Lightining Detection

From: KD4EMI@aol.com
Date: Thu, 11 Jul 1996 19:29:53 -0400
To: aprssig@tapr.org
Message-ID: <960711192951_235819696@emout07.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-07-11 10:12:44 EDT, you write:

>
>There were a few messages about lightining detection on the sig earlier.
>Can anyone direct me to the right location to order these devices? And,
>Bob, have you any plans to add this function into APRS WX?
>--

The device I ordered basically stunk...

I am making one  and will report when I can get together the program authors
with interface info...

Not finished with it quite yet

Mike
KD4EMI@AOL.COM
```

---

400. re: Older KPC 3 cfg help needed

From: Don Murray <james-m@ix.netcom.com>
Date: Thu, 11 Jul 1996 03:33:48 -0400
To: jswift@up.net
Cc: aprssig@tapr.org
Message-ID: <31E4AE5C.17ED@ix.netcom.com>
Rendered body type: text/plain

```
Thanks Jack and the others that sent me helful information on how to get
my older KPC-3 to working with APRS.  After a hard reset I was able to
get it up and running..

Again thanks for the help..
Don
AE4BR
```

---

401. CT/NY/NJ relay site

From: "Chris T. Thompson" <104357.130@CompuServe.COM>
Date: 11 Jul 96 21:20:05 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <960712012004_104357.130_IHS95-2@CompuServe.COM>
Rendered body type: text/plain

```
The Emergency Operations Center in Danbury, CTis now running a fulltime APRS
relay digi.  We will be observing the performance of this station to determine
if it is suitable for use as a wide digi to serve  upper Fairfield and lower
Litchfield counties of Connecticut, and the neighboring counties in New York
state.

The callsign of this station N1FTW.

I would appreciate it if  other stations in this area would forward reception
reportsand/or comments to me via email at the following:

104357.130@compuserve.com

TNX et 73 de Chris N1NIQ
```

---

402. Re: [APRSSIG:2987] Re: Ultimeters

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 11 Jul 1996 21:28:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960711212730.8565B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Thu, 11 Jul 1996 BordingK@aol.com wrote:

> I spoke to Peet Bros today to order the rain gauge and the lady said they
> should be up on EMail and WWW soon.
> ''73 de KF4COH
> Ken


Which rain gauge did you order?  .1 or .01 in ?
```

```
I got the .1 version, and now think that I should have gotten the other....
Oh Well...

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

403. 76f

From: William Nolle <ke4eer@worldnet.att.net>
Date: Thu, 11 Jul 1996 21:33:37 -0700
To: aprssig@tapr.org
Message-ID: <31E5D5A1.3725@worldnet.att.net>
Rendered body type: text/plain

```
Bob may be worth looking into, i'm running version 76f and when loading
my backup file the P-List showed 2 pages of users, yet when i hit the
space bar to get back to the map everything was gone, except my call.
--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

404. GPS Units

From: Wayne DeBiasio <n2psu@buttercup.cybernex.net>
Date: Thu, 11 Jul 1996 23:28:11 -0400
To: aprssig@tapr.org
Message-ID: <31E5C64B.7F4@bc.cybernex.net>
Rendered body type: text/plain

```
I am interested in purchasing a GPS unit to work with APRS and the DFjr
unit.  I am note sure which unit to buy, but any help would be
appreciated include good and bad information about different units.

73's de Wayne - N2PSU
n2psu@bc.cybernex.net
```

405. APRS software

From: YQAA78A@prodigy.com (MR EDWIN L SCHAFF)
Date: Thu, 11 Jul 1996 23:58:08, -0500
To: aprssig@tapr.org
Message-ID: <199607120358.XAA26406@mime4.prodigy.com>
Rendered body type: text/plain

```
Would appreciate info where I can find software for the APRS
operation.  Please let me know also what the latest version is and
where on the internet it can be found..  TNX
Ed Schaff  KR6N  Pensacola , Fl
```

406. Re: [APRSSIG:2992] Re: Ultimeters

From: jrholley@bright.net (Jim Holley)
Date: Fri, 12 Jul 1996 01:07:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199607120507.BAA27227@brutus.bright.net>
Rendered body type: text/plain

```
>On Thu, 11 Jul 1996 BordingK@aol.com wrote:
>
>> I spoke to Peet Bros today to order the rain gauge and the lady said they
>> should be up on EMail and WWW soon.
>> ''73 de KF4COH
>> Ken
>
>
>Which rain gauge did you order?  .1 or .01 in ?
>
>I got the .1 version, and now think that I should have gotten the other....
>Oh Well...
>
>Richard Amirault              N1JDU           Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>
>
>       I thought the same thing and they told me there was an adapter kit
for $30 that would convert it to .01, will check it out soon. 73
```

```
                    Jim Holley  Defiance, Ohio 43512-2914
       kb8vdt@amsat.org  Registered APRS&WAPRS
       jrholley@bright.net  Member TAPR&ARRL
       KB8VDT @ WB8OMG.#NWOH.OH.USA.NOAM
       Phone 419-782-0638
```

---

407. Upgrade file 76to76f.zip

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Fri, 12 Jul 1996 00:36:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960712003501.24294A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

```
Bob!
You forgot to put the file APRS76F.EXE in this file!
It's only available in the whole version file aprs76f.zip.

Michael
--
Michael Markmann VE4MJM               |
ve4mjm@draco.bison.mb.ca (Internet)   |     ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)   |         Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

408. Tracking self via HSP

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Fri, 12 Jul 1996 00:43:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960712003700.24294B-100000@draco.bison.mb.ca>
Rendered body type: text/plain

```
Hi
Tomorrow I'm heading to a hamfest about 3 hrs. from here (Winnipeg) and
will be taking a borrowed laptop and the Paccomm Tiny 2 TNC with Trimble
GPS board installed which belongs to the University Radio Club here. One
of the other members added some parts to create the HSP switch in the
TNC. Makes for a handy mobile setup.

I just want to make sure that I will be able to track myself as we travel
down the highway. Other than HSP mode I don't think anything else is
needed to be able to accomplish this. There will be no radio attached to
the TNC (no APRS traffic here yet :-( ).

Thanks in advance for any suggestions.

Michael
--
Michael Markmann VE4MJM               |
ve4mjm@draco.bison.mb.ca (Internet)   |     ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)   |         Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

409. Re: [APRSSIG:2992] Re: Ultimeters

From: Don Murray <james-m@ix.netcom.com>
Date: Fri, 12 Jul 1996 04:43:59 -0400
To: aprssig@tapr.org
Message-ID: <31E6104F.3595@ix.netcom.com>
Rendered body type: text/plain

```
Richard Amirault wrote:
>
> On Thu, 11 Jul 1996 BordingK@aol.com wrote:
>
> > I spoke to Peet Bros today to order the rain gauge and the lady said they
> > should be up on EMail and WWW soon.
> > ''73 de KF4COH
> > Ken
>
> Which rain gauge did you order?  .1 or .01 in ?
>
> I got the .1 version, and now think that I should have gotten the other....
> Oh Well...
>
> Richard Amirault              N1JDU           Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"
```

Nice to see that I am not the only one that kinda wish they had gotten
the .01 increment raingauge.

Don

410. Re: [APRSSIG:2973] Lightining Detection

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Fri, 12 Jul 1996 07:22:32 -0700
To: aprssig@tapr.org
Message-ID: <31E65FA7.2FED@worldnet.att.net>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:
>
> There were a few messages about lightining detection on the sig earlier.
> Can anyone direct me to the right location to order these devices? And,
> Bob, have you any plans to add this function into APRS WX?
> --
> J. Scott Ratchford - KC5JGV
> Marshall, Arkansas

Boat/ U.S. has a device called SkyScan which the add says will detect
lightning 40 miles away. Price is about $200.

I watched one in the store, here in central Florida, during an approching
storm and it seem to work well.

Bud (WB4LTF)

411. Re: [APRSSIG:2989] Re: Lightining Detection

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 12 Jul 1996 07:03:01 -0500
To: <aprssig@tapr.org>
Message-ID: <199607121220.HAA20923@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Where did you order it from?

> The device I ordered basically stunk...
> Mike
> KD4EMI@AOL.COM

--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas

412. Re: [APRSSIG:2994] GPS Units

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 12 Jul 1996 07:11:45 -0500
To: <aprssig@tapr.org>
Message-ID: <199607121220.HAA20926@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> I am interested in purchasing a GPS unit to work with APRS and the DFjr
> unit. I am note sure which unit to buy, but any help would be
> appreciated include good and bad information about different units.
>
> 73's de Wayne - N2PSU
> n2psu@bc.cybernex.net

Any GPS with NMEA output will do. I have an aviation model Garmin 55 AVD.
These are *very* expensive, but I take mine out of the Blazer and into the
plane on weekends. There are several that have purchased non-display types
that I assume work just fine and are of course much more affordable. It
all depends on your intended use. Do you want to keep it as a "dedicated"
machine or use it elsewhere.

Good Luck!

--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas

413. Re: [APRSSIG:2995] APRS software

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 12 Jul 1996 07:16:28 -0500
To: <aprssig@tapr.org>

Message-ID: <199607121220.HAA20928@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> Would appreciate info where I can find software for the APRS
> operation.  Please let me know also what the latest version is and
> where on the internet it can be found..  TNX
> Ed Schaff  KR6N  Pensacola , Fl

Look in: ftp://ftp.tapr.org/tapr/sig/aprssig/files/

>From there you can pick up the DOS version 76f, which I think is the
latest version. Be sure to register! It's cheap and makes life much
easier. :-)



--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas
```

414. Re: [APRSSIG:2989] Re: Lightining Detection

From: BordingK@aol.com
Date: Fri, 12 Jul 1996 08:26:13 -0400
To: aprssig@tapr.org
Message-ID: <960712082611_575145535@emout10.mail.aol.com>
Rendered body type: text/plain

```
Can you let us know what that device was because I researching the same
problem and do notwhat to buy THAT one!.  Thanks.

73 de KF4COH  Ken
```

415. KPC-3 question

From: Doug_Wetzel@acs.uswest.com
Date: Fri, 12 Jul 1996 07:57:18 -0500
To: aprssig@tapr.org
Message-ID: <1e65a790@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
Many thanks to all of you who responded to my mynode alias question.  Setting
numnodes to 1 did the trick!

Now, does anyone have a quick and dirty circuit to match a low-z tnc output to a
hi-z mic amplifier input?

TIA

73
Doug
KC7CO
Radio Free Utah
dwetzel@uswest.com
```

416. Re: [APRSSIG:2992] Re: Ultimeters

From: jrholley@bright.net (Jim Holley)
Date: Fri, 12 Jul 1996 10:49:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199607121449.KAA05351@brutus.bright.net>
Rendered body type: text/plain

```
>On Thu, 11 Jul 1996 BordingK@aol.com wrote:
>
>> I spoke to Peet Bros today to order the rain gauge and the lady said they
>> should be up on EMail and WWW soon.
>> ''73 de KF4COH
>> Ken
>
>
>Which rain gauge did you order?  .1 or .01 in ?
>
>I got the .1 version, and now think that I should have gotten the other....
>Oh Well...
>
>Richard Amirault              N1JDU           Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>
>
>       I thought the same thing and they told me there was an adapter kit
for $30 that would convert it to .01, will check it out soon. 73
```

```
                     Jim Holley  Defiance, Ohio 43512-2914
      kb8vdt@amsat.org  Registered APRS&WAPRS
      jrholley@bright.net  Member TAPR&ARRL
      KB8VDT @ WB8OMG.#NWOH.OH.USA.NOAM
      Phone 419-782-0638
```

---

417. 76to76f FIXED!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jul 1996 12:31:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960712123035.27350A-100000@arctic>
Rendered body type: text/plain

```
OK, Severl folks pointed out that the EXE for APRS76f.exe was left out of
theupgrade file.  THAT IS NOW FIXED

And for those that got the bad copy of 76to76F, can now get just the EXE
file as EXE76f.zip

de wb4apr@amsat.org
```

---

418. Re: [APRSSIG:3000] Re: Lightining Detection

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 12 Jul 1996 10:30:39 -0500
To: <aprssig@tapr.org>
Message-ID: <199607121849.NAA25347@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
----------
>
>
> J. Scott Ratchford, KC5JGV wrote:
> >
> > There were a few messages about lightining detection on the sig
earlier.
> > Can anyone direct me to the right location to order these devices?
And,
> > Bob, have you any plans to add this function into APRS WX?
> > --
> > J. Scott Ratchford - KC5JGV
> > Marshall, Arkansas
>
> Boat/ U.S. has a device called SkyScan which the add says will detect
> lightning 40 miles away. Price is about $200.
>
> I watched one in the store, here in central Florida, during an
approching
> storm and it seem to work well.
>
> Bud (WB4LTF)
>

OUCH! That's a bit steep!

OK, twenty questions......how was it displayed? Was it a monitor? Built
in? On a computer sreen? What was the interface? NMEA? ect. ect.
(Well, not quite 20 questions..)

--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas
```

---

419. Re: [APRSSIG:1176] Re: Weather Interfaces with Davis

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Fri, 12 Jul 1996 14:42:40 -0700
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960709143131.1a8f4556@harborside.com>
Rendered body type: text/plain

```
At 09:24 PM 5/22/96 -0500, you wrote:
>P.S., Chris...guess that you never made an error when typing. i was simply
>trying to help my fellow HAMs Thanks for the Flame.....Alan
>
>
>At 07:10 PM 5/22/96 -0500, you wrote:
>>At 12:03 PM 5/22/96 -0500, Alan K. Unangst wrote:
```

```
>>>Congratulations to Bob and the Brothers Sproul. Both have come up with
>>>interfaces that allow their programs to interface and transmit real time Wx
>>>information from the Davis Instruments weather stations...THANKS!!!
>>>
>>>Even better yet is the fact that Davis is offering a 10% discount on
>>>everything in their new catalog thru 5/24. simply call their toll free
>>>number, 800-678-3699, and identify yourself as a ham, and that you saw their

>>>booth in Dayton. They will give you the discount.
>>>
>>>Again, thanks, Bob, Mark and Keith. The "APRS" community really does
>>>appreciate it1
>>>
>>>73, Alan
>>>Alan K. Unangst, WC7R
>>>E-mail: alanwc7r@primenet.com
>>>Packet: WC7R @ KB7FRV
>>>
>>>
>>>
>>WELL someone goff do not call this number it goes to Hotlines which
>>is a sex calling services so Alan PLEASE GET THE NUMBER RIGHT !!!!
>>I for one am not into a girl getting off on the phone ....
>>
>>73 Chris wb8ypo@harborside.com
>>
>>
>Alan K. Unangst, WC7R
>E-mail: alanwc7r@primenet.com
>Packet: WC7R @ KB7FRV
>
>
>
Thats ok we, all make ONE from time to time 73 Chris
PS I to had a good laugh with it.
```

---

420. Re: [APRSSIG:3006] Re: Ultimeters

From: Don Murray <james-m@ix.netcom.com>
Date: Fri, 12 Jul 1996 20:58:44 -0400
To: aprssig@tapr.org
Message-ID: <31E6F4C4.146A@ix.netcom.com>
Rendered body type: text/plain

```
Jim Holley wrote:
>
> >On Thu, 11 Jul 1996 BordingK@aol.com wrote:
> >
> >> I spoke to Peet Bros today to order the rain gauge and the lady said they
> >> should be up on EMail and WWW soon.
> >> ''73 de KF4COH
> >> Ken
> >
> >
> >Which rain gauge did you order?  .1 or .01 in ?
> >
> >I got the .1 version, and now think that I should have gotten the other....
> >Oh Well...
> >
> >Richard Amirault              N1JDU            Boston, Massachusetts USA
> >amirault@tiac.net        "Go Fly A Kite"
> >
> >
> >       I thought the same thing and they told me there was an adapter kit
> for $30 that would convert it to .01, will check it out soon. 73
>
>
>
>                            Jim Holley  Defiance, Ohio 43512-2914
>       kb8vdt@amsat.org  Registered APRS&WAPRS
>       jrholley@bright.net  Member TAPR&ARRL
>       KB8VDT @ WB8OMG.#NWOH.OH.USA.NOAM
>       Phone 419-782-0638
>
>

Thanks for the info Jim, I think I may get that when I also get the
humidity add on..

Thanks
```

Don

---

421. Re: Dos error #6

From: kevenm@valtek.com (Keven Miller)
Date: Sat, 13 Jul 1996 04:52:20 -0600 (MDT)
To: aprssig@tapr.org (APRSSIG)
Message-ID: <9607131052.AA22974@valtek>
Rendered body type: text/plain

Im referencing Dos Tech ref 1983 version 2.1

Dos function calls return error 6 meaning Invalid file handle.
Within Dos there are critical errors (The ones that generate
Abort Retry Fail
messages) and have to do more with hardware. Here error 6 is
seek error (using disk)

Keven Miller KC7LYD
kevenm@valtek.com

---

422. Re: kpc-3 problem

From: mcmillan@premier.net (bob mcmillan)
Date: Sat, 13 Jul 1996 07:53:40 -0500
To: aprssig@tapr.org
Message-ID: <199607131253.HAA20285@premier1.premier.net>
Rendered body type: text/plain

Ok I give up. I need help. I have a KPC-3 hooked to a laptop running APRS76.
Initially every thing worked fine. Now everything seems to work fine except
it won't plot gated positions on the map. The position of my
ht,KPC-3,laptop shows up fine.
It transmitts the position fine. It appears to receive the gated positions
from my 30mtr/145.79 gate fine, it just doesn't plot them. What did I screw
up? any help would be appreciated.

Bob McMillan
mcmillan@premier.net   WB5RYR

---

423. Garmin 38

From: huey@juno.com
Date: Sat, 13 Jul 1996 09:22:33 PST
To: aprssig@tapr.org
Message-ID: <19960713.092236.6934.1.huey@juno.com>
Rendered body type: text/plain

Hi All,
Is anyone out there using the Garmin 38 for APRS? I saw one the other
day and was priced very attractively. How suitable is it?

Thanks

Huey
KB1RH
Newport RI

---

424. test message

From: ko6xs@ko6xs.ampr.org
Date: Fri, 12 Jul 96 22:07:38 PDT
To: aprssig@tapr.org
Message-ID: <2064@ko6xs.ampr.org>
Rendered body type: text/plain

do you see this. having trouble with smtp.
thanks

```
                                        □□□
                                       (□ □)
         □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

425. Re: [APRSSIG:3012] Re: kpc-3 problem

From: rkramer@cdx.net (Ronald Kramer)
Date: Sat, 13 Jul 1996 16:14:56 GMT
To: aprssig@tapr.org
Message-ID: <31e7cb2f.1879675017@mail.cdx.net>
Rendered body type: text/plain

```
On Sat, 13 Jul 1996 07:56:16 -0500 (CDT), you wrote:

>Ok I give up. I need help.  I have a KPC-3 hooked to a laptop running APRS76.
>Initially every thing worked fine.  Now everything seems to work fine except
>it won't plot gated positions on the map.  The position of my
>ht,KPC-3,laptop shows up fine.
>It transmitts the position fine. It appears to receive the gated positions
>from my 30mtr/145.79 gate fine, it just doesn't plot them.  What did I screw
>up?  any help would be appreciated.

Try    C    F     H       you may have inadvertantly turned HF mode
off and that is why it will not show gated plots on the map.

Regards, Ron ...                            73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

426. Re: [APRSSIG:2986] DC isolation

From: "Paul Christenson [N3EOP]" <christen@codger.physics.duq.edu>
Date: Sat, 13 Jul 1996 12:04:05 -0400
To: aprssig@tapr.org
Message-ID: <31E7C8F5.E680AC4@codger.physics.duq.edu>
Rendered body type: text/plain

```
Charles E. Heisler wrote:
>
>         Hi Gang;.....Can someone tell me a easy way to build a DC
>  isolator to put in the antenna line of my GPS-20 so that I can use
>  a externally powered pre amp with my h/b antenna.

This should work...


\                      Cap                       /
-|---------------------||----------------------|-
/-----------------------------------------------\

Put a capacitor in line.  At these frequencies, just about any small one
should work.

Anyone know if the Radio Shack DC blocker works at these frequencies?
```

---

427. [APRSSIG:3014] test message -Reply

From: Doug Nielson <DNIELSON@novell.com>
Date: Sat, 13 Jul 1996 10:21:28 -0600
To: aprssig@tapr.org
Message-ID: <s1e778c7.033@novell.com>
Rendered body type: text/plain

```
Your test message worked just fine.
```

---

428. Downloading problem?

From: ku0g@sprynet.com
Date: Sat, 13 Jul 1996 13:38:50 -0700
To: aprssig@tapr.org
Message-ID: <199607132038.NAA23885@m1.sprynet.com>
Rendered body type: text/plain

```
OK, I give up....Is something wrong with the server at TAPR?  I've been trying
to download 7.6f all day Friday and again today.  I get about 161K of 171K
(EXE76F.ZIP) and nothing further.  Same thing on APRS76f.ZIP (get about 185K
before freeze).  Same thing on 76to76f.zip...

I tried using Netscape then even went to Compuserves FTP server.  Both tries
resulted in the same failures...

Is anyone else experiencing this problem?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

429. Ultimeter Help (Pse!)

From: kf2wm@vhf.n2njh-5.ampr.org
Date: Sat, 13 Jul 96 17:17:11 -0400
To: aprs@tapr.org
Message-ID: <10475@N2NJH>
Rendered body type: text/plain

```
All & Bob B.:

  Can anyone please tell me the correct way of installing (setup, wiring) for
the Ultimeter II?  I am about to get my WX station up and running (just waiting
for my validation from Bob B.), and it seems rather vage in some areas of
wiring and setup.
  I would really appreciate this info and help...again, from the wiring to
proper setup of the APRS program.

  Many thanks in advance...    John

P.S. Does anyone have the snow gauge?  How does it work?  And does Peet Bros
     have an 800 number?


73's   John Evans - KF2WM
       KF2WM@KE2VW.#WNY.NY.USA.NOAM   BBS Network
       KF2WM@vhf.n2njh-5.ampr.org     AMPRNet
       KF2WM@hamgate.sunyerie.edu     Internet
```

---

430. Source for Low Priced GPS

From: dkaszubski@why.net (dkaszubski)
Date: Sat, 13 Jul 1996 16:50:27 -0700
To: aprssig@tapr.org
Message-ID: <31E83643.115@why.net>
Rendered body type: text/plain

```
I just got a flyer from West Marine.
Sale prices good July 11 thru July 21.

Garmin 45     $269.95
Garmin 38     $188.95
Garmin 120    $378.95
Magellan 3000 $249.95

--
Dave Kaszubski      WB3FYV
dkaszubski@why.net     also:  ustuia6v@ibmmail.com
Benbrook, Texas  N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/
```

---

431. Re: Source for Low Priced GPS

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Sat, 13 Jul 1996 18:44:01 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960713224401.006afa18@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 05:03 PM 13-07-96 -0500, dkaszubski@why.net (dkaszubski) wrote:
>I just got a flyer from West Marine.
>Sale prices good July 11 thru July 21.
>
>Garmin 45     $269.95
>Garmin 38     $188.95
>Garmin 120    $378.95
>Magellan 3000 $249.95
>
>--
>Dave Kaszubski      WB3FYV


Got a flyer from BoatUS today:

19Jul-11Aug

Garmin 45      $248.88
```

(Additional $12.50 off with coupon 2-3 Aug)

Note that each store will match the other's sales.

Note also that They're dumping the 45 now that the
XL is announced.

Bob Kirk
N3OZB

432. Re: [APRSSIG:3018] Downloading problem?

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sat, 13 Jul 1996 17:45:38 -0700
To: aprssig@tapr.org
Message-ID: <31E84332.580C@worldnet.att.net>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> OK, I give up....Is something wrong with the server at TAPR? I've been trying
> to download 7.6f all day Friday and again today. I get about 161K of 171K
> (EXE76F.ZIP) and nothing further. Same thing on APRS76f.ZIP (get about 185K
> before freeze). Same thing on 76to76f.zip...
>
> I tried using Netscape then even went to Compuserves FTP server. Both tries
> resulted in the same failures...
>
> Is anyone else experiencing this problem?
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com

Jim i have down and uploaded several times this weekend, including downloading
the full version 76f. So i would assume its your provider were the hangup is.

```
--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

433. Re: [APRSSIG:2980] APRS76F and MAPFIX26

From: Wwontroba@aol.com
Date: Sat, 13 Jul 1996 20:48:25 -0400
To: aprssig@tapr.org
Message-ID: <960713204824_433655816@emout14.mail.aol.com>
Rendered body type: text/plain

Bob ...

Are you aware of the change in NWS Avaition Observations format? That is ...
the conversion to METAR from the old SAO? Change went into effect July 1,
1996 and all weather observation stations not sent their obs in METAR.

73, Bill, K9PAJ

434. Re: [APRSSIG:3018] Downloading problem?

From: ad4bl@juno.com (Linda G Mullen)
Date: Sat, 13 Jul 1996 19:55:06 PST
To: aprssig@tapr.org
Message-ID: <19960713.195615.3006.3.ad4bl@juno.com>
Rendered body type: text/plain

On Sat, 13 Jul 1996 15:45:36 -0500 (CDT) ku0g@sprynet.com writes:
>OK, I give up....Is something wrong with the server at TAPR? I've
>been trying
>to download 7.6f all day Friday and again today. I get about 161K of
>171K
>(EXE76F.ZIP) and nothing further. Same thing on APRS76f.ZIP (get
>about 185K
>before freeze). Same thing on 76to76f.zip...
>
>I tried using Netscape then even went to Compuserves FTP server. Both
>tries
>resulted in the same failures...

>
>Is anyone else experiencing this problem?
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
I had the same problem too Jim on Friday nite but was able to get in
early
Sat morning...I assumed that they were just very busy.....I have not been
able to download the information on joining TAPR...the file won't come up
and I won't give my credit card on line.
Linda AD4BL

---

435. Garmin 38 stuff needed.

From: Rudy Benner <bennerr@onlink.net>
Date: Sun, 14 Jul 1996 01:55:55 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960714055555.30f73918@mail.onlink.net>
Rendered body type: text/plain

I have the Garmin 38. I also have the data cable. I am looking for a source
of the
Garmin software. (I had a copy but it seems to have vanished mysteriously)

Any additional comments will be welcome.

Rudy Benner - EN98jl - Timmins, Ontario - VE3BDR
TS-790A, DSP-12, G-5400B, M² Antennas, WiSP
Landwehr pre-amps, KCTracker/tuner
Internet - bennerr@onlink.net, ve3bdr@amsat.org

---

436. Windows aprs

From: N4TRN@aol.com
Date: Sun, 14 Jul 1996 16:42:27 -0400
To: APRSSIG@tapr.org
Message-ID: <960714164225_155842348@emout07.mail.aol.com>
Rendered body type: text/plain

Hi Bob,

I would like to know if there is a price difference between dos and windows
aprs. I am going to send in my registration in with in two weeks as I have
it planned now.

Thanks for your time and a great tool.

73, Keith

---

437. question about maps and lists

From: KD4EMI@aol.com
Date: Sun, 14 Jul 1996 20:33:30 -0400
To: aprssig@tapr.org
Message-ID: <960714203329_576648096@emout07.mail.aol.com>
Rendered body type: text/plain

I have the FLMAPS02.zip file...Ive unzipped the maps and replaced some of the
same file name old maps with the new ones...

Then, I looked at the other maps of disney and cape canaveral etc...
I would really like to use these as well.   Here is the confusing part for
me.

Do I include all of these in MAPLIST.USA or do I make a state maplist .
How does the program go to the state maplist...does it look at the USA
maplist...Im confused...

I think !!   I make a maplist FL then put the maps of florida on that list.
Then what do I do to maplist USA ? DO I change it too...?

Also, who made those incredable maps !! It says they were made by CD but who
acutally did it.. Id like to thank him/her

Also CUDOS to KD4UYR who kept us all informed about hurricane BERTHA when it
approached FL.   It was neat to see alot more APRS stations come on line just
before the storm !! The state was filled with them... I only had to look at

my computer to tell just where Bertha was ! KD4UYR And (W7LUS who provided
the digi back into the state) did a great job....Well done...They came
through !!

I also had a great HF link to KP4DDB and HH2B (Puerto Rico and Haiti) and
monitored their weaher sensors !   Cool !!

Mike
KD4EMI@AOL.COM

---

438. Re: [APRSSIG:2871] Re: _d

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sun, 07 Jul 96 10:30:22 EDT
To: aprssig@tapr.org
Message-ID: <199607150050.AAA53701@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Sun, 7 Jul 1996 00:54:45 -0500 (CDT) you wrote:

>>- Cheap! wrote:
>>>
>>>   Kent
>>>
>>>   KQ4KK
>>
>>I got this message twice already this morning!. Not many (If any) on the sig
>>have a laptop with a CD-Rom and according to their website that's what it
>>takes to run the version that will work with GPS.
>>
> I went thru awsum gyrations to get the regular mapping program to run on
>my non-cd equiped laptop. I was able to get the mapping program and GPS
>program to run on my laptop. I was told my e-mail support from the company
>to copy the state map to a specific directory. I then looked at the file for
>Illinois. it was 17MEGS!!

Here's what the directory on my desktop machine looks
like after I copied the cdrom files for Georgia. PM works
with this setup. I don't have a laptop yet (one's been ordered).
I did this on the desktop to see if it would actually work.
I did this before this subject came up here and did not call
tech support.   This is all my own doing.
Note that the CDROM map data is in the PMAP dir and
the actual programs are in PMAP2W.

```
[E:\pmap]dir

The volume label in drive E is DRV_E.
The Volume Serial Number is 2664:DC15.
Directory of E:\pmap

 6-26-96  11:15a     <DIR>           0  .
 6-26-96  11:15a     <DIR>           0  ..
 6-26-96  11:15a     <DIR>         398  GA
 2-23-95   7:42a    157609         159  MAIR.ZPX
 2-05-96  12:45p   1858054         160  MCITY.ZPX
12-19-94   5:21p   1405523         159  MHWY.ZPX
12-17-94  10:06a   4157865         161  MHYDRO.ZPX
 6-12-95  11:15a   9476576         160  MLAND.ZPX
 3-23-95   9:52a    489412         161  MSTATE.ZPX
        9 file(s)   17545039 bytes used
                    84630528 bytes free

[E:\pmap]cd ga

[E:\pmap\ga]dir

The volume label in drive E is DRV_E.
The Volume Serial Number is 2664:DC15.
Directory of E:\pmap\ga

 6-26-96  11:15a     <DIR>           0  .
 6-26-96  11:15a     <DIR>           0  ..
 4-28-95   7:20a  16935283           0  GA.ZPX
        3 file(s)   16935283 bytes used
                    84630528 bytes free
```

Here's a few lines of my PMAP.CFG. Note that only the
CDROM and CDOVR items needed to be changed.

```
[Directories]
CDROM=E:\PMAP
CDOVR=E:\PMAP
CDBIN=E:\PMAP2W
[Modules]
ASPECT=0.800
BRATIO=4.000
PMODE=1
LOADMAIN=TRUE
LOADHYDRO=TRUE
LOADNET=TRUE
LOADSTATE=TRUE
LOADCITY=TRUE
LOADAIR=TRUE
LOADLAND=TRUE
[ Font Info ]
FONT=ARIAL
```

[snip]

Good luck

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp: The only x86 operating system that
is more stable than most people who use it.

---

439. Re: [APRSSIG:3025] Garmin 38 stuff needed.

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 14 Jul 1996 22:22:12 -0500
To: aprssig@tapr.org
Message-ID: <v02130500ae0f0d42715a@[199.1.11.128]>
Rendered body type: text/plain

>I have the Garmin 38. I also have the data cable. I am looking for a source
>of the
>Garmin software. (I had a copy but it seems to have vanished mysteriously)
>
>Any additional comments will be welcome.
>

For all things GPS set your browser to :

ftp://sundae.triumf.ca/pub/peter/index.html

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

440. Re: [APRSSIG:3027] question about maps and lists

From: William Nolle <ke4eer@worldnet.att.net>
Date: Sun, 14 Jul 1996 22:27:15 -0700
To: aprssig@tapr.org
Message-ID: <31E9D6B3.3583@worldnet.att.net>
Rendered body type: text/plain

KD4EMI@aol.com wrote:
>
> Then, I looked at the other maps of disney and cape canaveral etc...
> I would really like to use these as well.   Here is the confusing part for
> me.
>
> Do I include all of these in MAPLIST.USA or do I make a state maplist .
> How does the program go to the state maplist...does it look at the USA
> maplist...Im confused...

No Mike leave the Maplist.usa just the way it is and make one for Florida.
Maplist.usa is the first maplist it will look at unless you configured it
otherwise.
>
> I think !!   I make a maplist FL then put the maps of florida on that list.
> Then what do I do to maplist USA ? DO I change it too...?

>

In order to then change to your Florida maplist just do an M-C and enter the extension of the Florida maplist> Example lets say you named the maplist FLORIDA.NOR you would type M-C then NOR and it would load all the maps in that Maplist. Remember though that you are only allowed to have about 160 maps in each maplist.

> Also, who made those incredable maps !! It says they were made by CD but who
> acutally did it.. Id like to thank him/her

Can't help you on this one.
>
> Also CUDOS to KD4UYR who kept us all informed about hurricane BERTHA when it
> approached FL. It was neat to see alot more APRS stations come on line just
> before the storm !! The state was filled with them... I only had to look at
> my computer to tell just where Bertha was ! KD4UYR And (W7LUS who provided
> the digi back into the state) did a great job....Well done...They came
> through !!
>

Yes i also loaded Bertha's information onto the map for the South East and updated the information whenever it was updated on the internet site. Hope this helps a little Mike.

```
--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

---

441. Re: [APRSSIG:3027] question about maps and lists

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 15 Jul 1996 07:47:05 -0400
To: aprssig@tapr.org
Message-ID: <31EA2FB9.7B00@co.pinellas.fl.us>
Rendered body type: text/plain

KD4EMI@aol.com wrote:
>
> I have the FLMAPS02.zip file...Ive unzipped the maps and replaced some of the
> same file name old maps with the new ones...
>
> Then, I looked at the other maps of disney and cape canaveral etc...
> I would really like to use these as well. Here is the confusing part for
> me.
>
> Do I include all of these in MAPLIST.USA or do I make a state maplist .
> How does the program go to the state maplist...does it look at the USA
> maplist...Im confused...
>
> I think !! I make a maplist FL then put the maps of florida on that list.
> Then what do I do to maplist USA ? DO I change it too...?
>
> Also, who made those incredable maps !! It says they were made by CD but who
> acutally did it.. Id like to thank him/her
>
> Also CUDOS to KD4UYR who kept us all informed about hurricane BERTHA when it
> approached FL. It was neat to see alot more APRS stations come on line just
> before the storm !! The state was filled with them... I only had to look at
> my computer to tell just where Bertha was ! KD4UYR And (W7LUS who provided
> the digi back into the state) did a great job....Well done...They came
> through !!
>
> I also had a great HF link to KP4DDB and HH2B (Puerto Rico and Haiti) and
> monitored their weaher sensors ! Cool !!
>
> Mike
> KD4EMI@AOL.COM

Thanks for the compliment Mike....at least this year there haven't been as many as last year.....yet....but it is a lot of work to track the hurricanes including forecast positions....and if anyone would like to volunteer to help...I am all ears and antennae..

And regards the maplists.....you have two choices.....one is to add the FL maps to the maplist.usa....but they must be put in descending order....or create your own

```
maplist...or add them to maplist.se....you can switch maplists at any time during APRS
operation using the Map-Changemap command.....and you can use any of the maplists as
your startup maplist by saving your config file on your registered version after
choosing the alternate map......you are only stuck with maplist.usa on startup if you
are not a registered user.

Hope that helps and 73

de Kevin KD4UYR...working on my mail server...hope this one gets through
```

442. Re: [APRSSIG:3026] Windows aprs

From: schiers@ames.net
Date: Mon, 15 Jul 96 07:42:43 -0500
To: aprssig@tapr.org
Message-ID: <199607151243.HAA23573@tapr.org>
Rendered body type: text/plain

```
In <737029@bbs.ames.net>, on 07/14/96 at 05:07 PM,
   aprssig@tapr.org said:

>Hi Bob,

>I would like to know if there is a price difference between dos and
>windows aprs.  I am going to send in my registration in with in two weeks
>as I have it planned now.

>Thanks for your time and a great tool.

APRS is authored by two different people, so don't send your money for
WinAPRS to Bob. The cost is 60 bucks, no upgrades required for various
device support like wx, gps, etc., and it goes to Mark Sproul. I expect
you will be getting a message from him regarding where to send. If not,
check back and I will look it up for ya. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

443. Ultimeter Help (Please)

From: kf2wm@vhf.n2njh-5.ampr.org
Date: Mon, 15 Jul 96 09:53:17 -0400
To: aprs@tapr.org
Message-ID: <10497@N2NJH>
Rendered body type: text/plain

```
Hi, name here is John...I am in the process of setting up a WX station, and
I would really enjoy hearing from some one that could explain to me two things.

1.) The correct wiring for a U-II from the U-II to the serial cable.

2.) The proper setup of the APRS program, to get it up and running.

Many thanks in advance....(Please help!)...  John



73's   John Evans - KF2WM
       KF2WM@KE2VW.#WNY.NY.USA.NOAM   BBS Network
       KF2WM@vhf.n2njh-5.ampr.org     AMPRNet
       KF2WM@hamgate.sunyerie.edu     Internet
```

444. WinAPRS 1.1.2 released

From: Mark Sproul <sproul@ap.org>
Date: Mon, 15 Jul 1996 10:55:32 -0400
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <v0300760bae1009ae14fa@[165.1.27.20]>
Rendered body type: text/plain

```
To all WinAPRS users

I have just realeased Version 1.1.2 of WinAPRS. I recommend all upgrade to
1.1.2 as soon as they can.

Thanks to hasan schiers, N0AN, who helped me track down some specific problems.


Bug fixes
```

```
        Problems with dual port TNCs (PK-900 Kam plus) have been fixed


        Some weather releated upating has been fixed


New features
        In the MESSAGE LIST, there are 3 buttons at the top of the window

        ALL MESSAGES     BULLITENS ONLY     MY MESSAGES ONLY

        I think you can figure these out



I am still working on the HSP stuff, I promise it WILL get done, the serial
code is just a major pain to get working on BOTH Win95 AND Win 3.1 at the
same time


There are TWO files on the FTP sites, W112UPDT.ZIP is just the updates and
DLLs, WAPRS112.ZIP is the full distribution including maps.  If you are
already running WinAPRS, just download the update file.


side note:

It appears that my humor has been missed by a few people, the default call
sign for WinAPRS is N0CLU, this is NOT a valid call.  The call sign stands
for

        NO CLUe

Apparently someone in the midwest was trying to send a message (via APRS)
to N0CLU to tell them that there lat lon was set incorrectly.

Hasan, did you happen to notice who that was??

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

445. Re: [APRSSIG:2985] Trimble/PacComm GPS Antenna Report

From: schiers@ames.net
Date: Mon, 15 Jul 96 10:32:02 -0500
To: aprssig@tapr.org
Message-ID: <199607151532.KAA00769@tapr.org>
Rendered body type: text/plain

```
In <734358@bbs.ames.net>, on 07/11/96 at 03:44 PM,
   aprssig@tapr.org said:

>I borrowed one of the Trimble/PacComm GPS antennas

Could some one put me on to a source (with phone number) of an adapter
that goes from the Trimble sma or smb (whatever it is) to BNC for my
GPS-45 Garmin.

I saw some mention of it a long time ago, but can't locate it. THANKS!

73

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

446. Re: [APRSSIG:3035] Re: Trimble/PacComm GPS Antenna Report

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Mon, 15 Jul 1996 12:01:07 -0400
To: aprssig@tapr.org
Message-ID: <199607151601.MAA75084@avery.med.Virginia.EDU>

Rendered body type: text/plain

```
At 10:45 AM 7/15/96 -0500, you wrote:
>In <734358@bbs.ames.net>, on 07/11/96 at 03:44 PM,
>   aprssig@tapr.org said:
>
>>I borrowed one of the Trimble/PacComm GPS antennas
>
>Could some one put me on to a source (with phone number) of an adapter
>that goes from the Trimble sma or smb (whatever it is) to BNC for my
>GPS-45 Garmin.
>
>I saw some mention of it a long time ago, but can't locate it. THANKS!

>hasan schiers, N0AN--


One source is:

Pasternack Enterprises
P.O. Box 16759
Irvine, CA 92713-6759
(714) 261-1920

...but they ain't cheap (~$25.00).
...I suspect that there are less expensive (?lower quality) sources and I'd
be interested as well.

For the moment, I've got one "kludged together" with an SMB circuit board
mount, short piece of RG-58 soldered to the SMB mount with a BNC connector
on the other end...works but it's "ugly".

BTW: the antenna is great!!
--------
Stacey E. Mills
E-Mail: sem2r@galen.med.virginia.edu
Office Phone: 804-982-4406
Office Fax: 804-924-8767
```

---

447. Tracking in WinAPRS

From: cummings@daykimhosp.chime.org
Date: Mon, 15 Jul 96 12:10:17 EST
To: aprssig@tapr.org
Message-ID: <9606158374.AA837458109@MAILGATE.DAYKIMHOSP.CHIME.ORG>
Rendered body type: text/plain

```
Hello,

       I have been trying to replay tracks on WinAPRS and can't quite
     figure it out.  My tracked stations list will contain entries for
     mobiles but when I click on "replay tracks" it won't do anything....

       Any ideas?  I probably am just not seeing something right in front
     of me (in which case I apologize in advance).

                                Ian Cummings
                                http://www.neca.com/~cummings
```

---

448. Re: [APRSSIG:3037] Tracking in WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Mon, 15 Jul 1996 12:57:48 -0400
To: aprssig@tapr.org
Cc: cummings@daykimhosp.chime.org
Message-ID: <v03007600ae1028c9d813@[165.1.27.20]>
Rendered body type: text/plain

```
>     Hello,
>
>       I have been trying to replay tracks on WinAPRS and can't quite
>     figure it out.  My tracked stations list will contain entries for
>     mobiles but when I click on "replay tracks" it won't do anything....
>
>       Any ideas?  I probably am just not seeing something right in front
>     of me (in which case I apologize in advance).
>
>                                Ian Cummings
>                                http://www.neca.com/~cummings
```

There is a setting in the APRS SETTINGS dialog box AUTO TRACK STATIONS,
this must be set to on in order to track stations

As of 1.1.2, the default is now ON, it used to be OFF,

Mark

```
____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

449. Mark/Space/Shift

From: KD4LTR@aol.com
Date: Mon, 15 Jul 1996 13:28:39 -0400
To: aprssig@tapr.org
Message-ID: <960715132828_360035556@emout07.mail.aol.com>
Rendered body type: text/plain

What mark, space, and shift are being used on 10.151. Thanks. My packet
software
that I used for Rtty and other modes are different and I just want to be
sure.
Thanks, Whit KD4LTR - Memphis, Tn.

450. Re: [APRSSIG:3036] Re: Trimble/PacComm GPS Antenna Report

From: "Robert J. Carpenter" <rcarpen@DGS.dgsys.com>
Date: Mon, 15 Jul 1996 14:01:09 -0400 (EDT)
To: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960715133913.18514A-100000@DGS>
Rendered body type: text/plain

```
On Mon, 15 Jul 1996, Stacey E. Mills, M.D. wrote:
> At 10:45 AM 7/15/96 -0500, you wrote:
> >In <734358@bbs.ames.net>, on 07/11/96 at 03:44 PM,
> >   aprssig@tapr.org said:
> >>I borrowed one of the Trimble/PacComm GPS antennas
> >Could some one put me on to a source (with phone number) of an adapter
> >that goes from the Trimble sma or smb (whatever it is) to BNC for my
> >GPS-45 Garmin.
> >hasan schiers, N0AN--
> One source is:
> Pasternack Enterprises
> P.O. Box 16759
> Irvine, CA 92713-6759
> (714) 261-1920
> ..but they ain't cheap (~$25.00).
> ..I suspect that there are less expensive (?lower quality) sources and I'd
> be interested as well.
> --------
> Stacey E. Mills

  About a month ago I dropped by "The RF Connection" on Frederick Road in
Gaithersburg, MD, and bought RG-174 to male and female BNC connectors.
The wire on the Trimble is larger than RG-174, so using a micrometer I
chose the correct drills to slightly enlarge the holes in the rear clamp
and an internal plastic sleeve in the BNC.  It was easy to put together,
and the best part was the $2.50 price per connector.
  Sorry but I don't have the type number of the 174-BNC connect at hand
at the moment.
  BTW, these were the easiest-to-assemble clamp BNC connectors I've ever
seen.  The internal plastic sleeves made avoiding shorts very easy.
        73 de Bob  w3otc
```

451. Re: [APRSSIG:3038] Re: Tracking in WinAPRS

From: cummings@daykimhosp.chime.org
Date: Mon, 15 Jul 96 14:18:37 EST
To: aprssig@tapr.org
Message-ID: <9606158374.AA837465910@MAILGATE.DAYKIMHOSP.CHIME.ORG>
Rendered body type: text/plain

```
Yes, I have that set and it still fails to replay tracks.  I also
     updated to the latest version of winaprs (1.1.2) and have some sort of
     glitch with the icon display (displays as a bar across the entire
```

screen no matter what icon I select). If I click to turn icons off
nobody displays on my screen. I'm running 3.1 with win32s and that
might be the problem (?). I will try on my windows 95 machines at
home.

73

Ian

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3038] Re: Tracking in WinAPRS
Author: aprssig@tapr.org at Internet
Date: 7/15/96 1:53 PM

> Hello,
>
> I have been trying to replay tracks on WinAPRS and can't quite
> figure it out. My tracked stations list will contain entries for
> mobiles but when I click on "replay tracks" it won't do anything....
>
> Any ideas? I probably am just not seeing something right in front
> of me (in which case I apologize in advance).
>
> Ian Cummings
> http://www.neca.com/~cummings

There is a setting in the APRS SETTINGS dialog box AUTO TRACK STATIONS,
this must be set to on in order to track stations

As of 1.1.2, the default is now ON, it used to be OFF,

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

452. Re: [APRSSIG:3037] Tracking in WinAPRS

From: schiers@ames.net
Date: Mon, 15 Jul 96 13:35:56 -0500
To: aprssig@tapr.org
Message-ID: <199607151845.NAA10015@tapr.org>
Rendered body type: text/plain

In <737747@bbs.ames.net>, on 07/15/96 at 12:59 PM,
aprssig@tapr.org said:

> Hello,
>
> I have been trying to replay tracks on WinAPRS and can't quite
> figure it out. My tracked stations list will contain entries for
> mobiles but when I click on "replay tracks" it won't do anything....
>
> Any ideas? I probably am just not seeing something right in front

> of me (in which case I apologize in advance).
>
> Ian Cummings
> http://www.neca.com/~cummings

Hi Ian...I had the same problem...let me explain how to do it.

1. Make sure there are "tracked packets" shown. Not all stations on the
   track list necessarily have "track packets" received yet. You will see
   the number of packets and track packets displayed separately on the
   Track List. You also have to have checked "autotrack moving objects"
   in the Setup Menu.,

2. On any map screen where the station you want to replay shows up, single
   click on the station to highlight it. (Get down to the detail level you
want

   ahead of time...if you don't, you have to re-highlight it. The station
doesn't
   stay "hooked" when you zoom the map.

3. Go to the "Display" menu, and at the bottom is a selection for Replay
Track.
   Click on it and away you go.

If no station is highlighted or there are no track packets, nothing
happens.

73

hasan schiers, N0AN--
----
schiers@ames.net
----

453. Re: [APRSSIG:3037] Tracking in WinAPRS

From: rbost@itexas.net (Roy Bost)
Date: Mon, 15 Jul 1996 13:47:14 -0500
To: <aprssig@tapr.org>
Message-ID: <19960715184812700.AAA131@rbost.itexas.net>
Rendered body type: text/plain

You need to click on the station icon before clicking on the replay.

Roy, N5TAM

454. Re: [APRSSIG:2985] Trimble/PacComm GPS Antenna Report

From: schiers@ames.net
Date: Mon, 15 Jul 96 13:52:03 -0500
To: aprssig@tapr.org
Message-ID: <199607151852.NAA10418@tapr.org>
Rendered body type: text/plain

In <734358@bbs.ames.net>, on 07/11/96 at 03:44 PM,
   aprssig@tapr.org said:

>Moral of the story. The Trimble antenna REALLY DOES like some metal under
>it. This makes an enormous difference in how the antenna performs. If
>you are trying to use one without the ground plane, you are only getting
>a small fraction of what the antenna can do. Even something as simple as
>a tin can lid makes a huge difference.

I can verify this...a reflective metal surface is required for proper
performance of the antenna. It is works, very, very well under those
circumstances. I have even considered putting it on top of my black jack
antenna ...but think it may be made of aluminum stock, so may not stick.
73,

hasan schiers, N0AN--
----
schiers@ames.net
----

455. Re: [APRSSIG:3039] Mark/Space/Shift

From: schiers@ames.net
Date: Mon, 15 Jul 96 15:02:26 -0500
To: aprssig@tapr.org
Message-ID: <199607152003.PAA14070@tapr.org>
Rendered body type: text/plain

In <737833@bbs.ames.net>, on 07/15/96 at 02:37 PM,
   aprssig@tapr.org said:

>What mark, space, and shift are being used on 10.151. Thanks. My packet
>software
>that I used for Rtty and other modes are different and I just want to be
>sure.
>Thanks, Whit KD4LTR - Memphis, Tn.

If you are running FSK, I don't have a clue, if AFSK, you would want
10.151 LSB, 170 to 200 hz shift (200 is most common) and since you are on
ssb with afsk (if true), the tones themselves don't matter if they are in
the passband of your radio. 73,

```
hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

456. Re: [APRSSIG:3039] Mark/Space/Shift

From: Roger Breckon <n8chb@tir.com>
Date: Mon, 15 Jul 1996 20:31:28 -0700
To: aprssig@tapr.org
Message-ID: <31EB0D10.714C@tir.com>
Rendered body type: text/plain

```
KD4LTR@aol.com wrote:
>
> What mark, space, and shift are being used on 10.151. Thanks. My packet
> software
> that I used for Rtty and other modes are different and I just want to be
> sure.
> Thanks, Whit KD4LTR - Memphis, Tn.

//////////////////

AFSK 300  bps  200 Hz shift, M 2110 Hz, S 2310 Hz
AFSK 1200 bps 1000 Hz shift, M 1200 Hz, S 2200 Hz

hope this helps

de Roger n8chb@tir.com
```

457. Re: [APRSSIG:3035] Re: Trimble/PacComm GPS Antenna Report

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Mon, 15 Jul 1996 17:35:07 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960715213507.00731dc0@avery.med.virginia.edu>
Rendered body type: text/plain

```
At 10:45 AM 7/15/96 -0500, you wrote:

>Could some one put me on to a source (with phone number) of an adapter
>that goes from the Trimble sma or smb (whatever it is) to BNC for my
>GPS-45 Garmin.
>
>I saw some mention of it a long time ago, but can't locate it. THANKS!
>
>73
>
>hasan schiers, N0AN--

The end of the Trimble is female.  You need a male SMB, also called a "jack."
The Pasternack part for BNC male >> SMB jack is PE9132 (cost = $25.95).

Hope this helps.

-------
--de WB4QKT
Stacey E. (Chuck)  Mills
E-mail: sem2r@galen.med.virginia.edu
```

458. Re: [APRSSIG:3031] Re: question about maps and lists

From: Dale Seaburg <dseaburg@web-access.net>
Date: Mon, 15 Jul 1996 19:40:03 -0500
To: aprssig@tapr.org
Message-ID: <31EAE4E3.7613@web-access.net>
Rendered body type: text/plain

```
Kevin Heyboer wrote:
>
> And regards the maplists.....you have two choices.....one is to add the FL maps to the
> maplist.usa....but they must be put in descending order....or create your own

OK, maybe the doc's explain, but I was not able to find easily.  What do you mean by
descending order, Kevin?  I had added a map to Texas (maplist.tx), and it said it was out of
sequence, or something like that.  HUH?  I did not quite understand.  Again, maybe I have
not dug down deep enough in the doc's but, would you mind shedding light on descending
order...

Thanks.
Dale.  KG5LT
```

459. Ultimeter II and KPC-3

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Mon, 15 Jul 1996 21:42:54 -0000
To: aprssig@tapr.org
Message-ID: <199607160144.UAA26958@tapr.org>
Rendered body type: text/plain

I thought there was a way for a KPC-3 to be directly interfaced to
the Ultimeter II.

I was just informed , that maybe I was misinformed..

Can someone (anyone) clear this up?

Who here uses this combo?

Sam.
Sam Nabkey - WJ8T

Internet: snabkey@wingsbbs.com (http://205.243.16.75)
amprnet: wj8t@w8dc.ampr.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM

---

460. Perseids redux

From: stanzepa@usa.nai.net (stan horzepa)
Date: Mon, 15 Jul 1996 22:18:27 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ae104eac725d@[206.98.48.241]>
Rendered body type: text/plain

Any of you ladies and gentlemen interested in running another APRS meteor
shower test during the upcoming Perseids meteor shower. The predicted peak
of the shower is August 9-10, so we could run the test for a 36-hour period
(August 9 0000Z to August 10 1200Z).

Last year, the results were impressive even with relatively low
participation. If more stations participate this year, it could really be
interesting.

Since this is my big idea, I'll volunteer to receive, compile, and publish
the results (unless someone else steps forward).

Any interest? Comments?

Stan, WA1LOU

---

461. eliminating duplicate messages

From: ko6xs@ko6xs.ampr.org
Date: Mon, 15 Jul 96 19:54:22 PDT
To: aprssig@tapr.org
Message-ID: <2324@ko6xs.ampr.org>
Rendered body type: text/plain

I think there was some discussion some time ago about how to eliminate duplicate messages by comparing message size. I was half listening. Can some one
tell me again how that could be done? Thanks in advance.
73s de Jon Kaplan

```
                                       □□□
                                      (□ □)
         □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

462. DeLorme Map-N-Go 2.0

From: Larry Griffin <largriff@onramp.net>
Date: Mon, 15 Jul 1996 22:09:04 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB729A.68ECCCA0@larry.onramp.net>
Rendered body type: text/plain

I hear Delorme's Map-N-Go 2.0 now includes GPS support and will apparently
up/download from some of the popular GPSs including the GPS 45. This
software is $25!

Larry - AB5GE

---

463. Re: [APRSSIG:3049] Ultimeter II and KPC-3

From: rwf <rwf@mindspring.com>
Date: Tue, 16 Jul 1996 00:54:20 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960716045420.006eec78@mindspring.com>
Rendered body type: text/plain

I use it on N4NEQ-8 up in the mtns on N GA. The wind and temperature have to be just right in order for the moonshine to be worth a toot as it comes out of the still.

I plugged the U-II into the KPC-3 using a "gender bender" that converted the female DB25 on the U-II into male DB25.

I set up the KPC to think it was connected to a GPS, with the # symbol as the Gpshead number 1.

I set The path (LTP 1) to be what I wanted and set the interbla (BLT 1) to 9 minutes.

I set the Btext to be my lat/long (like in a digi) with a comment about where the unit is and a message for the revenooers to keep away.

I set the Beacon timing to be every 20 minutes.

Everything works fine except for this (Bob are you listening?): The icon as seen on APRS sometimes seems to change from the WX symbol to the dot, which is what I used as a symbol. You have to play with the beacon timing to find a happy medium.

I think that's all I did that was special for an U-II unit.

At 08:53 PM 7/15/96 -0500, you wrote:
>I thought there was a way for a KPC-3 to be directly interfaced to
>the Ultimeter II.
>
>I was just informed , that maybe I was misinformed..
>
>Can someone (anyone) clear this up?
>
>Who here uses this combo?
>
>
>Sam.
>Sam Nabkey - WJ8T

---

464. subscibe

From: kd4ujk@southeast.net (willis c layfield)
Date: Tue, 16 Jul 1996 01:47:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199607160547.BAA26022@mailhub.southeast.net>
Rendered body type: text/plain

subscribe
This is a simple sig file

---

465. Re: [APRSSIG:3035] Re: Trimble/PacComm GPS Antenna Report

From: Ken Mirabella <kjm@flo-bin.com>
Date: Mon, 15 Jul 1996 23:10:18 -0700
To: aprssig@tapr.org
Message-ID: <31EB324A.60C0@flo-bin.com>
Rendered body type: text/plain

I just cut mine off and installed a RG-174 coax BNC connector on the end. I purchased the connector at an electronics store. I got the solder on type. I had to slightly drill out the hole for the cable to fit in, but it works great. With less loss to without the adapter.

KM6YH

schiers@ames.net wrote:
>
> In <734358@bbs.ames.net>, on 07/11/96 at 03:44 PM,
>   aprssig@tapr.org said:
>
> >I borrowed one of the Trimble/PacComm GPS antennas
>
> Could some one put me on to a source (with phone number) of an adapter
> that goes from the Trimble sma or smb (whatever it is) to BNC for my
> GPS-45 Garmin.
>
> I saw some mention of it a long time ago, but can't locate it. THANKS!
>
> 73
>
> hasan schiers, N0AN--
> ---
> schiers@ames.net
> ---

466. Re: [APRSSIG:3048] Re: question about maps and lists

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 16 Jul 1996 07:44:32 -0400
To: aprssig@tapr.org
Message-ID: <31EB80A0.2C45@co.pinellas.fl.us>
Rendered body type: text/plain

Dale Seaburg wrote:
>
> Kevin Heyboer wrote:
> >
> > And regards the maplists.....you have two choices.....one is to add the FL maps to the
> > maplist.usa....but they must be put in descending order....or create your own
>
> OK, maybe the doc's explain, but I was not able to find easily. What do you mean by
> descending order, Kevin? I had added a map to Texas (maplist.tx), and it said it was out of
> sequence, or something like that. HUH? I did not quite understand. Again, maybe I have
> not dug down deep enough in the doc's but, would you mind shedding light on descending
> order...
>
> Thanks.
> Dale. KG5LT

OH Dale, do read the docs that come with the program.....maps in the maplist must be in
order from largest to smallest overlapping map or they won't show up as you zoom in to a
specific area.....take a look at the list....it starts with World.map, followed by
USA.map etc....so if you have a county map of your area and then a city map and then
your subdivision map...they must be put in that order on the maplist....

Kevin KD4UYR
kheyboer@co.pinellas.fl.us

467. Re: [APRSSIG:3050] Perseids redux

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 16 Jul 96 08:17:47 -0400
To: <aprssig@tapr.org>
Message-ID: <199607161214.IAA25962@bridge.net>
Rendered body type: text/plain

>Any of you ladies and gentlemen interested in running another APRS meteor
>shower test during the upcoming Perseids meteor shower. The predicted peak
>of the shower is August 9-10, so we could run the test for a 36-hour period
>(August 9 0000Z to August 10 1200Z).

Count me in, on both 6 meters and 2 meters, Anyone care to help me beat
my dx record of 1196 miles set last year?

Steve KO4HD

468. readability

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 16 Jul 1996 07:24:13 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607161224.HAA00329@solar.cs.tamu.edu>
Rendered body type: text/plain

Just a quick note, without flamage, to those composing their notes on a word
processor, thence flining them out to the group.

Those of us who still use unix systems and the mailers we're most familiar with, find the small-point fonts distracting at best, as they make for one 80-character line, then, say, a 7 character line. I would think it possible to reset your word processor for 10 or 12 pt font, and send something that populates a line out "normally."

While I'm at it, I wish to add my voice to those who prefer to NOT receive MIME attachments on this list. I have a security practice of dumping all MIME attachments unread, unless they are from someone I know, who alerted me to the attachment in prior mail, and who tells me what is in it. 5 years involved with CERT team activities was enough to convince me!

Thanks, & 73,
gerry
n5jxs@tamu.edu

---

469. Re: [APRSSIG:3054] subscibe

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 16 Jul 1996 07:30:40 -0700
To: aprssig@tapr.org
Message-ID: <31EBA790.1F34@worldnet.att.net>
Rendered body type: text/plain

willis c layfield wrote:
>
> subscribe
> This is a simple sig file

Willis, if you would like to subscribe to the APRS Sig the best thing to do is go to the site address listed below.

http://www.tapr.org/tapr/html/sigs.htm

```
--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

---

470. Re: [APRSSIG:3050] Perseids redux

From: ad4bl@juno.com (Linda G Mullen)
Date: Tue, 16 Jul 1996 07:05:28 PST
To: aprssig@tapr.org
Message-ID: <19960716.074723.9286.0.ad4bl@juno.com>
Rendered body type: text/plain

On Mon, 15 Jul 1996 21:30:09 -0500 (CDT) stanzepa@usa.nai.net (stan horzepa) writes:
>Any of you ladies and gentlemen interested in running another APRS
>meteor
>shower test during the upcoming Perseids meteor shower. The predicted
>peak
>of the shower is August 9-10, so we could run the test for a 36-hour
>period
>(August 9 0000Z to August 10 1200Z).
>
>Last year, the results were impressive even with relatively low
>participation. If more stations participate this year, it could
>really be
>interesting.
>
>Since this is my big idea, I'll volunteer to receive, compile, and
>publish
>the results (unless someone else steps forward).
>
>Any interest? Comments?
>
>Stan, WA1LOU
>
For those who haven't participated before...how about telling us how to
set it up...
sounds like fun...Linda

---

471. tnc male to smb jack adapter

From: talbotk <talbotk@java.grayson.com>
Date: Tue, 16 Jul 1996 09:08:47 -0400
To: aprssig@tapr.org
Message-ID: <31EB945E.2734@java.grayson.com>
Rendered body type: text/plain

```
the bnc male to smb jack adapter can be obtained from Pasternack
Enterprises at (714) 261-1920.  cost is around $36
```

472. Re: [APRSSIG:3041] Re: Tracking in WinAPRS

From: cummings@daykimhosp.chime.org
Date: Tue, 16 Jul 96 09:23:13 EST
To: aprssig@tapr.org
Message-ID: <9606168375.AA837534310@MAILGATE.DAYKIMHOSP.CHIME.ORG>
Rendered body type: text/plain

```
1.1.2 runs fine on my windows 95 machines... must be a glitch with my
     windows 3.1 (win32s) machine... I will try on another 3.1 machine (I
     tend a crop of about 10 machines.)

                                Ian


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3041] Re: Tracking in WinAPRS
Author:  aprssig@tapr.org at Internet
Date:    7/15/96 2:53 PM


     Yes, I have that set and it still fails to replay tracks.  I also
     updated to the latest version of winaprs (1.1.2) and have some sort of
     glitch with the icon display (displays as a bar across the entire
     screen no matter what icon I select).  If I click to turn icons off
     nobody displays on my screen. I'm running 3.1 with win32s and that
     might be the problem (?).  I will try on my windows 95 machines at
     home.

                        73

                        Ian


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3038] Re: Tracking in WinAPRS
Author:  aprssig@tapr.org at Internet
Date:    7/15/96 1:53 PM


>     Hello,
>
>       I have been trying to replay tracks on WinAPRS and can't quite
>     figure it out.  My tracked stations list will contain entries for
>     mobiles but when I click on "replay tracks" it won't do anything....
>
>       Any ideas?  I probably am just not seeing something right in front
>     of me (in which case I apologize in advance).
>
>                                 Ian Cummings
>                                 http://www.neca.com/~cummings



There is a setting in the APRS SETTINGS dialog box AUTO TRACK STATIONS,
this must be set to on in order to track stations

As of 1.1.2, the default is now ON, it used to be OFF,

Mark

__________________________________________________________________________
Mark Sproul                         |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press     |
sproul@ap.org                       |Work: 609-860-7120
North Brunswick, NJ                 |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

473. Re: [APRSSIG:3050] Perseids redux

From: stanzepa@usa.nai.net (stan horzepa)
Date: Tue, 16 Jul 1996 10:45:59 -0400
To: aprssig@tapr.org
Message-ID: <v01510108ae115a8669c9@[206.98.48.232]>
Rendered body type: text/plain

Tom Busch wrote:

>Count me in. What did we do last year? Should we keep it the same?
>
>TomB

Here's what we did last year (from Packet Perspective, October 1995, QST). The only changes I suggest are the dates/times (August 9 0000Z to August 10 1200Z instead of August 11-15) and who to send your reports to (me or another volunteer, rather than Bob). Please comment on these changes and/or suggest other changes and I will finalize our plans ASAP and make announcements everywhere:

"All amateurs are encouraged to participate in a Perseids meteor scatter test August 11-15. Although 6 meters is better than 2 meters for meteor scatter work, everyone has a 2-meter radio and we can make up in numbers what we lack in performance. All you need is a TNC and, preferably, high power and a beam. The objective is to see how many grid square (DX) packets you can receive over the four-day event.

"Stations in the four quadrants of the country will transmit alternately for 15 seconds. Stations can transmit the shortest possible meaningful packet formed by placing their six-digit grid square in the Unproto To call sign field, for example, WA1LOU>FN31MP. The suggested frequency is the ARRL experimental packet frequency of 145.79 MHz; suggested procedures for the test follow:

"1) Point your beam towards a major population area 500 to 1000 miles away in one of the other US quadrants. If there is another active local station, coordinate your beam headings so you are not both hitting the same azimuth and receiver target area.

"2) Enter your grid square into your TNC using the following command:

```
cmd: UNPROTO FN31MP
```

where FN31MP is your six-digit grid square. If you can't estimate the last two digits, use AA. Note that no Via Digipeater is used.

"3) For attended operation, enter the Converse Mode (cmd: CONV). Each time you hit carriage return <CR>, you will send a packet. Hit 20 <CR>s and you will send 20 grid square packets. Synchronize your clock with WWV and transmit as many <CR>s that you can according to the following schedule:

"Northeast stations transmit between 00 to 14 seconds of each minute.

"Southeast stations transmit between 15 to 29 seconds of each minute.

"Southwest stations transmit between 30 to 44 seconds of each minute.

"Northwest stations transmit between 45 to 59 seconds of each minute

"4) For unattended operation, set your Beacon Text to HP where H is a single character representing your beam heading divided by 10 and expressed by the digits 0 to 9 and then A to Z (9=90, A=100, B=110, C=120... Z=350). P is the square root of 10% of your power (1=10, 2=40, 3=90... 9=810). Set your Beacon to Every 1. This is not in accordance with the scheduled 15-second cycle, but it is better than nothing if you are operating unattended.

"5) Alternatively, run APRS version 7.1b or later, which has an automated meteor scatter mode, which will plot received packets on a map. In many areas, 145.79 MHz is already being used for APRS.

"Meteor scatter paths are very specific between the transmitter and receiver. Typically, any single event will be heard only by receivers within a 20-mile footprint. That is why everyone can transmit at the same time in the same area, preferably pointing their beams in slightly different directions. As long as there is approximately 50 miles between identical transmitting stations, their signals will probably not hit the same receivers at the same times.

"W0RPK and K1HTV made a successful 2-meter packet meteor scatter contact

in 1984 over about a 1000-mile path, but it took 2.5 hours! Hopefully, by
having hundreds of transmitters and hundreds of receivers, we can improve
the statistics.

"Since you will possibly see packets that no one else will see, send all
grid square reports known to be greater than 250 miles distant to
WB4APR@KA3RFE.MD (via packet) or bruninga@greatlakes.nadn.navy.mil (via
Internet) and Bob will compile the data. Be sure to include your grid
square."

---

474. KC APRS Working Group Meeting...

From: ku0g@sprynet.com
Date: Tue, 16 Jul 1996 07:44:13 -0700
To: aprssig@tapr.org
Message-ID: <199607161444.HAA18904@m1.sprynet.com>
Rendered body type: text/plain

FYI, folks....

Anybody mobile in the Kansas City area this weekend is invited to attend our monthly KCAWG meeting. Meeting will be held on Saturday, July 20, 12:00 noon at Tortilla Flats Mexican Restaurant, 5800 N. Antioch Rd., Gladstone, Mo.

Talk-in on 146.79 repeater (voice)...

Excellent food, questionable companionship (a bunch of them APRS crackpots, you know) and a splendid time is guaranteed for all ([Cockney accent follows] Thank ya, Paul...)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

475. Re: [APRSSIG:3054] subscibe

From: stanzepa@usa.nai.net (stan horzepa)
Date: Tue, 16 Jul 1996 11:15:03 -0400
To: aprssig@tapr.org
Message-ID: <v0151010bae1160faedf4@[206.98.48.210]>
Rendered body type: text/plain

>subscribe
>This is a simple sig file

To subscribe, send email to listproc@tapr.org

No subject

One line message as follows:

subscribe APRSSIG Willis Layfield

---

476. Re: [APRSSIG:3057] Re: Perseids redux

From: stanzepa@usa.nai.net (stan horzepa)
Date: Tue, 16 Jul 1996 11:15:08 -0400
To: aprssig@tapr.org
Message-ID: <v0151010cae11618a0fb9@[206.98.48.210]>
Rendered body type: text/plain

I WILL include 6 meters in the "official" impending announcement.

73,

Stan, WA1LOU

>>Any of you ladies and gentlemen interested in running another APRS meteor
>>shower test during the upcoming Perseids meteor shower. The predicted peak
>>of the shower is August 9-10, so we could run the test for a 36-hour period
>>(August 9 0000Z to August 10 1200Z).
>
>Count me in, on both 6 meters and 2 meters, Anyone care to help me beat
>my dx record of 1196 miles set last year?
>
>Steve KO4HD

---

477. Re: [APRSSIG:3053] Re: Ultimeter II and KPC-3

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 16 Jul 1996 10:18:48 -0500

To: <aprssig@tapr.org>
Message-ID: <199607161519.KAA05049@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> I use it on N4NEQ-8 up in the mtns on N GA. The wind and temperature
have
> to be just right in order for the moonshine to be worth a toot as it
comes
> out of the still.

N4NEQ-8 is one of the few from Georgia that I am able to "see" in N. ARK.
Good signal at least once a week.
--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas

478. GPS 20

From: w6dnt@w6dnt.ampr.org (Al Chan - W6DNT)
Date: Tue, 16 Jul 96 07:03:44 GMT
To: aprssig%tapr.org@w6dnt.ampr.org, al.chan%toadhall.com@w6dnt.ampr.org
Message-ID: <47@w6dnt.ampr.org>
Rendered body type: text/plain

How many receiving channels does the GPS 20 have?

-al.

479. Re: [APRSSIG:3018] Downloading problem?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 12:08:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716120803.28942C-100000@arctic>
Rendered body type: text/plain

On Sat, 13 Jul 1996 ku0g@sprynet.com wrote:

> OK, I give up....Is something wrong with the server at TAPR? I've been trying
> to download 7.6f all day Friday and again today. I get about 161K of 171K
> (EXE76F.ZIP) and nothing further. Same thing on APRS76f.ZIP (get about 185K
> before freeze). Same thing on 76to76f.zip...

APRSdos REPLY COMMENT: Check your account. Sounds like you are over
your storage limits... This used to happen to me. Took months for me to
figure out...

de wb4apr@amsat.org

480. Re: [APRSSIG:3023] Re: APRS76F and MAPFIX26

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 12:12:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716121013.28942D@arctic>
Rendered body type: text/plain

On Sat, 13 Jul 1996 Wwontroba@aol.com wrote:

> Bob ...
> Are you aware of the change in NWS Avaition Observations format? That is ...
> the conversion to METAR from the old SAO? Change went into effect July 1,
> 1996 and all weather observation stations not sent their obs in METAR.

APRSdos REPLY COMMENT: You are speaking greek to me. I am not a WX
conniseur.. All I did was implement the parsing of a sample message that
someone sent to me. If you are saying that my parser no longer works on
a new format, then please send me the new format. THANKS!

de wb4apr@amsat.org

481. Help! WX/No>:

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 16 Jul 1996 11:08:55 -0500
To: APRSSIG@tapr.org
Message-ID: <1.5.4.32.19960716160855.006ace34@tbcnet.com>
Rendered body type: text/plain

OK, I'm baffled!

I'm running a U-II Wx station with the TNC on Com 2, and the U-II on Com 1.
APRS Ver 76D

```
Everything SEEMS to be running fine except ALL packets, including mine,
monitored at the bottom of the screen, are preceeded by
No>:

But they still register with the program (ie., map, p-list, h-list, etc).

When I stop the program and restart it as just APRS (no WX), everything
works great! Add, New, Bcn, Pos.  Even though I still have the U-II in Com 1.

Anybody got any ideas why this is happening?

Thanks and 73s

jbl
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
```

482. Re: [APRSSIG:3026] Windows aprs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 12:26:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716122429.28942J-100000@arctic>
Rendered body type: text/plain

```
On Sun, 14 Jul 1996 N4TRN@aol.com wrote:

> Hi Bob,
> I would like to know if there is a price difference between dos and windows
> aprs.  I am going to send in my registration in with in two weeks as I have
> it planned now.

APRSdos REPLY COMMENT: See the F1-VALID screen for APRS registrations or
see the README\REGISTER.txt file for APRSdos info.  Choose the options
you need.  I think the WinAPRS is one price for everything...

de wb4apr@amsat.org
```

483. Re: [APRSSIG:3027] question about maps and lists

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 12:33:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716122729.28942K-100000@arctic>
Rendered body type: text/plain

```
On Sun, 14 Jul 1996 KD4EMI@aol.com wrote:

> I have the FLMAPS02.zip file...Ive unzipped the maps and replaced some of the
> same file name old maps with the new ones...
>
> Do I include all of these in MAPLIST.USA or do I make a state maplist .

APRS ANS:  You dont modify MAPLIST.usa, that is my distro list.  You may
make modifications for your own use, but do not distribute it since it
will confuse people.  MAPLIST.USA lists all maps included in the basic
APRS distribution.

MAPLIST.SE lists all of the maps distributed in the SEmaps11.zip file,
also my responsibility.  Your MAPLIST.FL should list all of the
FLmaps02.sip maps plus all larger maps that include florida....  But your
FLmaps02.zip should not include copies of any of these maps that are
already in APRS or in SEmaps.  If you fix or modify any of those maps,
then you have to feed the changes back to me for my distribution.


The idea, is that for any one map, there should be only one source, and
modifications must be made at the source, or you will continue to get
re-distributions of an old out of date map.

de wb4apr
```

484. Re: [APRSSIG:3027] question about maps and lists

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 12:36:43 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.SUN.3.91.960716123501.28942M-100000@arctic>
Rendered body type: text/plain

```
On Sun, 14 Jul 1996 KD4EMI@aol.com wrote:

> Also CUDOS to KD4UYR who kept us all informed about hurricane BERTHA when it
> approached FL.   It was neat to see alot more APRS stations come on line just
> before the storm !!  The state was filled with them...  I only had to look at
> my computer to tell just where Bertha was !  KD4UYR And (W7LUS who provided
> the digi back into the state) did a great job....Well done...They came
> through !!

APRSdos REPLY COMMENT:  I am spending my spare time on vacation, editing
together about 30 history files so that we will have a single HST file
for Bertha.  It was GREAT!  THanks to KD4UYR! and others!

de wb4apr@amsat.org
```

485. Re: [APRSSIG:3068] GPS 20

From: Joseph Agrelo <jagrelo@cris.com>
Date: Tue, 16 Jul 1996 12:38:00 -0700
To: aprssig@tapr.org
Message-ID: <31EBEF98.ACA@concentric.net>
Rendered body type: text/plain

```
Al Chan - W6DNT wrote:
>
> How many receiving channels does the GPS 20 have?
>
> -al.

Al,

Go to this TAPR page to get *all* of the details and specs.

http://www.tapr.org/gps/index.html

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

486. Re: [APRSSIG:3050] Perseids redux

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 13:49:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716134424.28942W-100000@arctic>
Rendered body type: text/plain

```
On Mon, 15 Jul 1996, stan horzepa wrote:

> Any of you ladies and gentlemen interested in running another APRS meteor
> shower test during the upcoming Perseids meteor shower. The predicted peak
> of the shower is August 9-10, so we could run the test for a 36-hour period
> (August 9  0000Z to August 10 1200Z).

APRSdos REPLY COMMENT:  Yes, and we need to confirm that APRS76f ( one
year later) works in meteor scatter mode...  Interested stations
could do us a favor by doing some testing.  I wont have time to do much
prior testing my self, tho I will fix any problems found, and I will
participate!

Since I made substantive changes in SPACE mode in 76f, I may well have
broken the MScatt, since they are related...

de wb4apr@amsat.org
```

487. Re: [APRSSIG:3053] Re: Ultimeter II and KPC-3

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 13:56:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716135101.28942X-100000-100000@arctic>
Rendered body type: text/plain

```
On Tue, 16 Jul 1996, rwf wrote about his KPC-3 and REMOTE ULTIMETER>

> I set the Btext to be  my lat/long (like in a digi)
>
> I set the Beacon timing to be every 20 minutes.
>
> Everything works fine except for this (Bob  are you listening?):  The icon
> as seen on APRS sometimes seems to change from the WX symbol to the dot,
> which is what I used as a symbol.

APRSdos REPLY COMMENT: You must use the WX symbol in the BText! (Ralph,
are you listening...?) hi hi

de wb4apr@amsat.org
```

488. Re: [APRSSIG:3063] Re: Perseids redux

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 14:36:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716143303.8435C-100000@arctic>
Rendered body type: text/plain

```
I didnt look at the times, but the least offensive time for taking over
145.79 nationwide would be probably 2200 local time to 0800 a day later.
This would give you two morning periods and only take up 36 hours...

de wb4apr@amsat.org
```

489. Subscription stuff.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 16 Jul 1996 15:07:54 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960716190754.009baa60@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 10:25 AM 7/16/96 -0500, you wrote:

>To subscribe, send email to listproc@tapr.org
>
>No subject
>
>One line message as follows:
>
>subscribe APRSSIG Willis Layfield


I don't think I ever announced it here, but a couple month ago, when Bob
asked again for someone to take care of such problems, I took the duty.
I'll be able to do that for maximum 2 more month, after what I'll loose my
e-mail account here, and may not be able to get another one soon. If someone
wants to replace me now, just send me a note, I don't ask for extra work
:-). Otherwise I'll continue til I can, so you don't have to worry about
these messages (subscribe, unsubscribe), they are taken care off.

Besides if someone send a "subscribe" message to the list by error, he is
obviously not a subscriber and will not see any help information sent back
to the list!

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu
http://rock.ess.sunysb.edu:8080/
```

490. Re: [APRSSIG:3069] Re: Downloading problem?

From: BordingK@aol.com
Date: Tue, 16 Jul 1996 15:35:30 -0400
To: aprssig@tapr.org
Message-ID: <960716153529_578019617@emout13.mail.aol.com>
Rendered body type: text/plain

```
I attempted to download all the 7.6F files over the weekend also.  It took
forever at 28.8 and then the .zip would not explode.  Error message from
```

PKUNZIp said "corrupted ZIP file (?)!!!!.   I'm going to try again tonight.

73 de KF4COH Ken

---

491. Re: [APRSSIG:3079] Subscription stuff.

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 16 Jul 1996 14:38:39 -0700
To: aprssig@tapr.org
Message-ID: <31EC0BDF.2167@worldnet.att.net>
Rendered body type: text/plain

Bernard Seront wrote:

> At 10:25 AM 7/16/96 -0500, you wrote:
>
> >To subscribe, send email to listproc@tapr.org
> >
> >No subject
> >
> >One line message as follows:
> >
> >subscribe APRSSIG Willis Layfield
>
> I don't think I ever announced it here, but a couple month ago, when Bob
> asked again for someone to take care of such problems, I took the duty.
> I'll be able to do that for maximum 2 more month, after what I'll loose my
> e-mail account here, and may not be able to get another one soon. If someone
> wants to replace me now, just send me a note, I don't ask for extra work
> :-). Otherwise I'll continue til I can, so you don't have to worry about
> these messages (subscribe, unsubscribe), they are taken care off.
>
> Besides if someone send a "subscribe" message to the list by error, he is
> obviously not a subscriber and will not see any help information sent back
> to the list!
>
> Bernard, KB2TGH.
>
> -----
> Bernard Seront, seront@seism1.ess.sunysb.edu
> http://rock.ess.sunysb.edu:8080/

Well i'm sorry, but i also said i would take care of any such questions
by simply giving the address below which i found the best way to
subscribe or unsubscibe there is. But nobody ever posted the fact that
someone else was doind the same thing. I will but out and let someone
else handle it. SORRY....

http://www.tapr.org/tapr/html/sigs.html

```
--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

---

492. DFjr

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 16 Jul 1996 14:44:03 -0700
To: aprssig@tapr.org
Message-ID: <31EC0D23.2F8F@worldnet.att.net>
Rendered body type: text/plain

I have posted the last upgrade to the DJjr Quick reference card. I made
some changes to the back of the card (For the better i think). Now i have
two laminated cards left that are from the last upgrade that i'm willing
to send out to someone not having a way to print these out that own a
DFjr. They are realy heavy laminated material, and are 4.5" X 8". If
interested let me know here and then send me a self addressed envelope
that the card will fit in. I only have 2 so don't all answer Hi.

```
--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

493. APRS Legal Question

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 16 Jul 1996 15:44:33 -0700
To: aprssig@tapr.org
Message-ID: <31EC1B51.51E7@worldnet.att.net>
Rendered body type: text/plain

```
This is not to flame anyone but i keep seeing a beacon and WX station on
my map and it doesn't have a valid Amateur radio callsign other then
stating as follows:

NWSPTC>APRS,DIGI,DIGI,WIDE

If this is legal i for one never realized that the NWS could transmit a
WX station info on 145.790 without a valid call going along with the
beacon.

Like i said this is not to flame anyone but rather to find out the
legalalities of what a weather station can or cannot do!.

--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

494. Re: [APRSSIG:3068] GPS 20

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 16 Jul 1996 16:44:03 -0500
To: aprssig@tapr.org
Message-ID: <v02140b01ae11bcaf1756@[199.1.11.139]>
Rendered body type: text/plain

```
>How many receiving channels does the GPS 20 have?
>
>-al.


TAPR offers group GPS purchase
------------------------------------------------------------

Frequently Asked Questions
--------------------------

* The Multitrak8 has only one channel, but is multiplexed.


SEE: TAPR GPS Purchase (Announcement)   tapr.org

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

495. Re: [APRSSIG:2923] Garmin 45

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 16 Jul 1996 16:44:16 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae10d06fc2d8@[199.1.11.139]>
Rendered body type: text/plain

```
>Is there some way to start up the Garmin 45 without pushing the red power
>button?  IE: Perhaps some command that can be issued through the I/O which
>will allow the 45 to start when external power is supplied?  I'd like to
>mount the Garmin and a KPC-3 remotely and have them power up and start
>when I command them, rather than having to leave them on the B+.


0) That's why I got the Garmin-20, for auto startup

1) Have you tried locking down the orange button?
   You will need to remove the batteries and start up at
   least every other day, or wait while it does a search the sky.
   I think the Garmin-45 has a big 1 F Cap and not a small
    backup battery inside. ( Lets hope the I/O setting comes
    up 4800 baud after a "cold start"

2) 7 Watts RF from my HTX-202 with a rubber duck 6in away starts my
   Garmin-45.
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

496. Re: [APRSSIG:3071] Help! WX/No>:

From: bob <w2g3zfj@unix.asb.com>
Date: Tue, 16 Jul 1996 18:17:20 -0400
To: aprssig@tapr.org
Message-ID: <199607162217.SAA24487@unix.asb.com>
Rendered body type: text/plain

Me to!

Using UII on com2, Kamplus on com1 and aprs76f.

de bob
w2g3zfj@unix.asb.com

At 11:25 16/07/96 -0500, you wrote:
>OK, I'm baffled!
>
>I'm running a U-II Wx station with the TNC on Com 2, and the U-II on Com 1.
>APRS Ver 76D
>
>Everything SEEMS to be running fine except ALL packets, including mine,
>monitored at the bottom of the screen, are preceeded by
>No>:
>
>But they still register with the program (ie., map, p-list, h-list, etc).
>
>When I stop the program and restart it as just APRS (no WX), everything
>works great! Add, New, Bcn, Pos. Even though I still have the U-II in Com 1.
>
>Anybody got any ideas why this is happening?
>
>Thanks and 73s
>
>jbl
>---
>J Barry Leonard/N9VJQ
>DeKalb IL
>E-MAIL: jleonard@tbcnet.com
>WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
>
>
>
>

---

497. winAPRS, what I cannot do..

From: Kent V Hufford <khufford@erols.com>
Date: Tue, 16 Jul 1996 22:11:00 -0400
To: aprssig@tapr.org
Message-ID: <199607162211.SAA00520@smtp2.erols.com>
Rendered body type: text/plain

Just downloaded the lastest winAPRS 1.1.2.

The following I have not been able to do. Either I cannot get it to work, it
doesnt work, or it doesnt work yet.... or will never be implemented.

1. HSP (coming....)
2. Cannot define the default map, other than renaming Virgina AAGINA.
3. Cannot define the default size of the map window. It opens about half size.
4. Cannot make the map pulldown pop back up when I move the mouse of the
pulldown like the other pulldowns, unless I hit the left mouse button
somewhere else.
5. Cannot PRINT. PRINT not implented yet?
6. Cannot save a MAP window yet. Maybe related to 2. above..
7. NO windows based help file in program. Cannot access a help file of any
kind from within.
8. Does not support the RADIO AMATEUR CALL BOOK
9. Supposed to support QRZ callbook, I have not been able to get it to work.
10. Double click on station ICON sometimes brings up the station data
window... sometimes it doesnt. When it does, the map window goes back to
half size.
11. I have a DFjr coming this week. I have no idea if it will support it
right yet...

Some of the above maybe my fault. I have not found answers in the doc's.

I'm running it on a P166, 32megs ram, SVGA at 800x600 under WIN95a.

thanks,
Kent

KQ4KK

---

498. Re: [APRSSIG:3049] Ultimeter II and KPC-3

From: Miami Network <0004818186@mcimail.com>
Date: Tue, 16 Jul 96 17:47 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <63960716224736/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

Connecting the Ultimeter 2000 (if that is the same as the II)
is straight forward:

Pin #3 from the Ultimeter is Data Out
Pin #5 from the Ultimeter is Ground

Pin #3 from the Ultimeter goes to Pin #2 of the KPC-3
Pin #5 from the Ultimeter goes to Pin #7 of the KPC-3

Set the TNC as follows:

```
GPSHEAD 1 !!      /* This is the string that the Utimeter sends out /*
LTP 1 APRS WIDE   /* This is your path for the transmitted information /*
BLT 1 every 00:05:00 /* Sets timer 1 for every 5 minutes /*
LT 1  /* will have the Information from the Ultimeter /*
INT GPS  /* Put the TNC into GPS Mode Turn it off and then ON /*
```

It will work unattended and without a PC connected to it or
without the APRS software. We have several in Miami that are
set up this way for automatic Wx reporting to the National
Hurricane Center.

73, Seymour, KC4NMY

---

499. Re: [APRSSIG:3087] winAPRS, what I cannot do..

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Tue, 16 Jul 1996 19:38:15 -0400
To: aprssig@tapr.org
Message-ID: <31EC27E7.7891@pobox.com>
Rendered body type: text/plain

I have mostly the same problems/non-working elements. I know the
Sprouls are working feverishly and this isn't a flame - just
confirmation from another user finding the same lack of features.

Running on an AMD5x132, 16 Mb
& Windows 95a <--- AAAARRRRGGGHHH!!

-Lew - W7LVW - Fort Myers, Florida

Kent V Hufford wrote:
>
> Just downloaded the lastest winAPRS 1.1.2.
>
> The following I have not been able to do. Either I cannot get it to work, it
> doesnt work, or it doesnt work yet.... or will never be implemented.
>
> 1. HSP (coming....)
> 2. Cannot define the default map, other than renaming Virgina   AAGINA.
> 3. Cannot define the default size of the map window. It opens about half size.
> 4. Cannot make the map pulldown pop back up when I move the mouse of the
> pulldown like the other pulldowns, unless I hit the left mouse button
> somewhere else.
> 5. Cannot PRINT. PRINT not implented yet?
> 6. Cannot save a MAP window yet. Maybe related to 2. above..
> 7. NO windows based help file in program. Cannot access a help file of any
> kind from within.
> 8. Does not support the RADIO AMATEUR CALL BOOK

```
> 9. Supposed to support QRZ callbook, I have not been able to get it to work.
> 10. Double click on station ICON sometimes brings up the station data
> window... sometimes it doesnt. When it does, the map window goes back to
> half size.
> 11. I have a DFjr coming this week. I have no idea if it will support it
> right yet...
>
> Some of the above maybe my fault. I have not found answers in the doc's.
>
> I'm running it on a P166, 32megs ram, SVGA at 800x600 under WIN95a.
>
> thanks,
> Kent
>
> KQ4KK
```

500. Looking for APRS Info

From: John Desmond <jdesmon@acs.uswest.com>
Date: Tue, 16 Jul 96 18:55:20 -0500
To: aprssig@tapr.org
Message-ID: <9607162355.AA24986@reliant.uswc.uswest.com>
Rendered body type: text/plain

```
Hi,
   I just joined the list a few days ago and am very interested in finding out more about APRS.
    Is there a FAQ site that has info on how to set-up an APRS station and gives some general info on
it?  I am interested in what is needed for  a TNC and interfaces to it and what is needed at the mapping
 station and the mobile station.
   I am also looking for info on what makes one GPS a better choice than another GPS.

  I looked thru some of the search engines, and there are a LOT of sites out there.  I just have not
found onethat can answer some basic questions yet.
   Thanks for any info you may have.

73, John  K0TG

jdesmon@reliant.uswc.uswest.com
```

501. Re: [APRSSIG:3078] Re: Perseids redux

From: stanzepa@usa.nai.net (stan horzepa)
Date: Tue, 16 Jul 1996 19:57:36 -0400
To: aprssig@tapr.org
Message-ID: <v01510103ae11db9ba91f@[206.98.48.210]>
Rendered body type: text/plain

```
My suggestion was August 9  0000Z to August 10 1200Z, which tracks closely
to your 2200-0800 local time. (Great minds think alike!)

>I didnt look at the times, but the least offensive time for taking over
>145.79 nationwide would be probably 2200 local time to 0800 a day later.
>This would give you two morning periods and only take up 36 hours...
>
>de wb4apr@amsat.org
```

502. Re: [APRSSIG:3083] APRS Legal Question

From: ku0g@sprynet.com
Date: Tue, 16 Jul 1996 16:58:33 -0700
To: aprssig@tapr.org
Message-ID: <199607162358.QAA26381@m1.sprynet.com>
Rendered body type: text/plain

```
As long as a VALID callsign appears SOMEWHERE in the Beacon and adequately shows
the station/operator ID that meets the letter of the ID law.  I verified this
with FCC in Kansas City about a year ago...  Again, the callsign of the
operator/station licensee MUST appear somewhere in the beacon text.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

503. New APRSwx program

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 20:35:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716202231.29212A-100000@arctic>
Rendered body type: text/plain

Just for fun and while on vacation, I just finished a routine that tries to display the overall wind flow over the surface of a map based on the data from all WX stations on the map. Hit the WX-WINDS command and you will see about 450 little wind vectors all over the map showing the flow. This works at any map scale.

But it wouldnt fit in standard APRS, so I spun-off a new program that leaves out the DX and DF stuff and called it APRSwx. Since it will include future WX specific functions, it assumes you are registered for WX in order to display these additional features..

Again, I dont know that this has any real WX value, but it was just an interesting challenge. I expect that there will be additional changes to APRSwx very soon, so dont feel in any rush to get it... hi hi

It is on the tapr site as aprswx.zip.

de wb4apr@amsat.org

---

504. Re: <alt> S ...wide help on aprs 76f ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 16 Jul 1996 21:02:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960716205720.29212F-100000@arctic>
Rendered body type: text/plain

On Tue, 16 Jul 1996, Charles W. Davidson wrote:

> Anyway I cannot seem to find a way to set my alias to wide
> instead of relay. The old command of alt-s wide , is not in this
> version...

APRSdos REPLY COMMENT: It was just abused too much. The way to do it now is to use a TNC with multiple callsigns that can digipeate. The PacComm Pico TNC has 4 aliases and the KPC-3 can use the MYnode and MYhost calls. -OR- hook up a seoncd TNC to the same radio in parallel with the alias of WIDE.

DOnt think of this as being heavy handed. It just enforces the requirement that all WIDE digipeaters must also have the dual alias of RELAY. The overall APRS system depends on this standard.

de wb4apr@amsat.org

---

505. Re: [APRSSIG:3050] Perseids redux

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Tue, 16 Jul 1996 20:07:52 -0500
To: aprssig@tapr.org
Message-ID: <199607170112.UAA11004@sparc.isl.net>
Rendered body type: text/plain

>
>Any interest? Comments?
>
>Stan, WA1LOU
>

I'll try it again at WD0GNK (club station at work). Silly thing seems to be deaf on 145.79 lately, though. I'll see if I can get it working better by then. In any case, should be better than when we tried in December. The ice storm we had that night did us no good!

73.
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

---

506. Re: [APRSSIG:3077] Re: Ultimeter II and KPC-3

From: rwf <rwf@mindspring.com>
Date: Tue, 16 Jul 1996 21:10:18 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960717011018.006d0d14@mindspring.com>
Rendered body type: text/plain

At 01:07 PM 7/16/96 -0500, you wrote:
>
>APRSdos REPLY COMMENT: You must use the WX symbol in the BText! (Ralph,

>are you listening...?) hi hi

Whoops!   I will try that! I really don't remember seeing that *anywhere*
in the docs, though- and I read them twice.

Now I went back to WX.TXT and there it was, right there in lines 299 and 300.

Thanks, Dr Bob

Ralph

---

507. Re: [APRSSIG:3092] Re: APRS Legal Question

From: n2czf@magg.net (Richard Garcia)
Date: Tue, 16 Jul 1996 21:28:33 -0400
To: aprssig@tapr.org
Message-ID: <199607170128.VAA09869@grumpy.magg.net>
Rendered body type: text/plain

Would a HID beacon not meet the ID requirements also ?

I know that the callsign somewhere in the BTEXT would fill the bill, but I was also under the notion that the HID if turned on will ID every 10 minutes if the station (TNC) has transmitted in the last 10 min period. I may be wrong but I too would like to know.

Personally I do not feel that it is too much trouble to ask for a measly callsign in the BTEXT but there are always alternate ways.

>As long as a VALID callsign appears SOMEWHERE in the Beacon and adequately
shows
>the station/operator ID that meets the letter of the ID law. I verified this
>with FCC in Kansas City about a year ago... Again, the callsign of the
>operator/station licensee MUST appear somewhere in the beacon text.
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

508. Re: [APRSSIG:3050] Perseids redux

From: rsellers@misha.net (Roger Sellers)
Date: Tue, 16 Jul 1996 22:34:27 -0500
To: aprssig@tapr.org
Message-ID: <199607170334.WAA29810@misha.net>
Rendered body type: text/plain

>Any of you ladies and gentlemen interested in running another APRS meteor
>shower test during the upcoming Perseids meteor shower. The predicted peak
>of the shower is August 9-10, so we could run the test for a 36-hour period
>(August 9 0000Z to August 10 1200Z).
>
>Last year, the results were impressive even with relatively low
>participation. If more stations participate this year, it could really be
>interesting.
>

How would one go about doing this? What kind of equipment etc. would be needed?

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

---

509. Re: [APRSSIG:3037] Tracking in WinAPRS

From: rsellers@misha.net (Roger Sellers)
Date: Tue, 16 Jul 1996 22:34:28 -0500
To: aprssig@tapr.org
Message-ID: <199607170334.WAA29812@misha.net>
Rendered body type: text/plain

```
>       I have been trying to replay tracks on WinAPRS and can't quite
>     figure it out.  My tracked stations list will contain entries for
>     mobiles but when I click on "replay tracks" it won't do anything....
>
>       Any ideas?  I probably am just not seeing something right in front
>     of me (in which case I apologize in advance).

  I had done that as well. What I noticed was a solid black line that traced
the replayed track. The mobile doesnt move as it does in the DOS version. So
you'll have to look close. The black line doesnt stand out to well on my
monitor to define the replayed track.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

510. Re: [APRSSIG:3097] Re: APRS Legal Question

From: William Nolle <ke4eer@worldnet.att.net>
Date: Tue, 16 Jul 1996 23:10:08 -0700
To: aprssig@tapr.org
Message-ID: <31EC83C0.24D9@worldnet.att.net>
Rendered body type: text/plain

```
Richard Garcia wrote:
>
> Would a HID beacon not meet the ID requirements also ?
>
> I know that the callsign somewhere in the BTEXT would fill the bill, but I
> was also under the notion that the HID if turned on will ID every 10 minutes
> if the station (TNC) has transmitted in the last 10 min period. I may be
> wrong but I too would like to know.
>
> Personally I do not feel that it is too much trouble to ask for a measly
> callsign in the BTEXT but there are always alternate ways.
>
> >As long as a VALID callsign appears SOMEWHERE in the Beacon and adequately
> shows
> >the station/operator ID that meets the letter of the ID law.  I verified this
> >with FCC in Kansas City about a year ago...  Again, the callsign of the
> >operator/station licensee MUST appear somewhere in the beacon text.
> >
> >Best 73,
> >Jim Duncan, KU0G
> >APRS--Kansas City Coordinator
> >EMail:  ku0g@sprynet.com
> >
> >
> 73's Rich N2CZF
> n2czf@magg.net
> http://www.magg.net/~n2czf                    (Personal)
> http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
> Jupiter Farms Florida EL96

But no callsign is given, the complete beacon is

NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE

Now if i read the rules correctly wouldn't any digi owner also place himself in
a legal position for trouble knowing that your digi is being used this way?.
Again let me make this clear i'm not flaming anyone, but would sure like to
know. I never seen anything in the BTEXT either except the above. It does show
a NWS symbol also. I don't want to open a can of worms but want to keep my
digi legal Hi.

--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

511. Re: [APRSSIG:3100] Re: APRS Legal Question

```
From: ku0g@sprynet.com
Date: Tue, 16 Jul 1996 22:27:40 -0700
To: aprssig@tapr.org
Message-ID: <199607170527.WAA09120@m1.sprynet.com>
Rendered body type: text/plain
```

```
On Tue, 16 Jul 1996, William Nolle <ke4eer@worldnet.att.net> wrote:
>But no callsign is given, the complete beacon is
>
>NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
>NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
>NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE

These are NOT legal ID packets.  There is no valid callsign present.  Whoever is
doing the Peach Tree City operation needs to be advised to get a callsign into
their beacon somewhere...

>
>Now if i read the rules correctly wouldn't any digi owner also place himself in
>a legal position for trouble knowing that your digi is being used this way?.

NO, absolutely not.  The digi or voice repeater operator can not be held
responsible for an unlicensed operator/station using his/her facilities.  Most
repeater sysops would probably turn a repeater off, though...  This is the same
legal situation as an obscene/illegal packet bulletin/email.  The ORIGINATING
station is the responsible party (as well as the Originating BBS but this
doesn't apply in the case of repeaters) and would be the person cited by FCC.

>Again let me make this clear i'm not flaming anyone, but would sure like to
>know. I never seen anything in the BTEXT either except the above. It does show
>a NWS symbol also. I don't want to open a can of worms but want to keep my
>digi legal Hi.

Relax, Bill.  You're safe.  If it's that much of a concern, though, you could
always SUPLIST the particular call and your digi will ignore it, but I'm sure
that in this particular case you're wanting to ENCOURAGE their operation and
help out, so perhaps a FRIENDLY phone call to the responsible licensee is in
order, Bill.  Sometimes people forget the small details when working on a big
project...
>
>--
>          \////
>          (o o)
>   *--o00-(_)-00o--*
>       Bill WA8INZ
>ke4eer@worldnet.att.net
>   ke4eer@amsat.org
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

512. RE: [APRSSIG:3101] Re: APRS Legal Question

```
From: Larry Griffin <largriff@swta.com>
Date: Wed, 17 Jul 1996 05:21:09 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB739F.ED076620@larry.onramp.net>
Rendered body type: text/plain
```

```
On Tue, 16 Jul 1996, William Nolle <ke4eer@worldnet.att.net> wrote:
>But no callsign is given, the complete beacon is
>
>NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
>NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
>NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE

-----

Those packets are NOT LEGAL ON HAM FREQUENCIES.
Whoever is operating NWSPTC needs to put a valid ham call in MYCALL.
Period.  End of discussion.

Larry - AB5GE
```

513. Re: [APRSSIG:3101] Re: APRS Legal Question

```
From: jack swift <jswift@up.net>
Date: Wed, 17 Jul 1996 07:46:06 -0500
```

To: aprssig@tapr.org
Message-ID: <9607171145.AA24037@btc1>
Rendered body type: text/plain

i echo that "small details" comment, jim. i was 'instructing' one of my
friends on how to set up his tnc so he would show up on my map: "... and set
your alias to relay..." - the next day, lo and behold, there was a star on
my map with the callsign "ALIAS"....... OOPS!!

At 12:49 AM EST 7/17/96 -0500, you wrote:
>Relax, Bill. You're safe. If it's that much of a concern, though, you could
>always SUPLIST the particular call and your digi will ignore it, but I'm sure
>that in this particular case you're wanting to ENCOURAGE their operation and
>help out, so perhaps a FRIENDLY phone call to the responsible licensee is in
>order, Bill. Sometimes people forget the small details when working on a big
>project...
>>
>>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
>

```
-----------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

514. Re: [APRSSIG:3098] Re: Perseids redux

From: stanzepa@usa.nai.net (stan horzepa)
Date: Wed, 17 Jul 1996 08:37:40 -0400
To: aprssig@tapr.org
Message-ID: <v01540b00ae1289ce4f62@[206.98.48.222]>
Rendered body type: text/plain

>>Any of you ladies and gentlemen interested in running another APRS meteor
>>shower test during the upcoming Perseids meteor shower. The predicted peak
>>of the shower is August 9-10, so we could run the test for a 36-hour period
>>(August 9 0000Z to August 10 1200Z).
>>
>>Last year, the results were impressive even with relatively low
>>participation. If more stations participate this year, it could really be
>>interesting.
>>
>
>How would one go about doing this?

See my follow-up message yesterday explaining how we did it last year.

>What kind of equipment etc. would be needed?

A big beam and high power helps, but is not a requirement to participate.
Although no one heard my packets using a beam and 160 watts, I did
successfully copy meteor scattered packets from as far away as N0AN, 1078
miles from here. It was a lot of fun and everyone can participate. Just
dial 1-4-5-7-9 and listen!

515. Voluteer Your Help

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 17 Jul 1996 08:10:41 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607171311.IAA16912@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

This is not directed towards all nor just one. I have read messages on
here that use words like "illegal", "interfence", "he's a problem". Rather
than talk about someone that you've never contacted, contact them and let
them know in a nice way that there is a problem. You can get a lot more
done with a smile and a handshake than you can with gritted teeth and
anger!

There are many new hams joining us everyday. And everyday new hams (as
well as old) are making mistakes. I've been a ham for just a few years and

constantly have to keep a clear head about what I'm doing on the air. The moral here is, volunteer your help to help your fellow ham. This is all a priviledge and not a right! If we can't police our own, then we'll get policed! And with less than desirable results, this I am sure of.

I live just outside a small comunity in the Ozarks that has a failing "60's style" cable system. Talk about the interference problems! Try this the next time your in town. Put your 2m radio on 144.000 or 145.25 and see if your hear and static. Bet my bottom dollar ya do! What I do is identify the area, and if the "cow traffic" aint too bad, pinpoint the problem. Then I let the folks down at the cable office know about it. Everytime, they have thanked me and kindly asked me to let them know if I find any more problem areas. Simple!

This message wasn't planned to be this long but .... All I am saying is that your actions are reflected on all hams. So please, take a little time, voluteer your help and lets keep this hobby a pleasure to everyone.

"And that's all I got to say about that."
--
J. Scott Ratchford - KC5JGV
Marshall, Arkansas

---

516. Re: [APRSSIG:3102] Re: APRS Legal Question

From: "Nicholas R. Smith" <nickart@midtenn.net>
Date: Wed, 17 Jul 1996 08:31:22 -0700
To: aprssig@tapr.org
Message-ID: <31ED074A.3ACA@midtenn.net>
Rendered body type: text/plain

```
Larry Griffin wrote:
>
> On Tue, 16 Jul 1996, William Nolle <ke4eer@worldnet.att.net> wrote:
> >But no callsign is given, the complete beacon is
> >
> >NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
> >NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
> >NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE
>
> -----
>
> Those packets are NOT LEGAL ON HAM FREQUENCIES.
> Whoever is operating NWSPTC needs to put a valid ham call in MYCALL.
> Period.  End of discussion.
>
> Larry - AB5GE
```

This station, whoever it is, continues to beacon thru my digi(WA4GKM-5), which is seen in several states. It is not legal and someone in the Atlanta area should call this person and tell them to stop! I was flamed by one of the Atlanta stations simply because I went over Atlanta aeronautical mobile and had relay in the unproto path. But he does not bother to simply call this person up and say "did you know this is illegal to beacon without a callsign".

Nick WA4GKM
The Mountain Man-Crossville, TN

---

517. Re: [APRSSIG:3087] winAPRS, what I cannot do..

From: Mark Sproul <sproul@ap.org>
Date: Wed, 17 Jul 1996 09:18:53 -0400
To: aprssig@tapr.org
Cc: khufford@erols.com
Message-ID: <v03007602ae1295a4716d@[165.1.27.20]>
Rendered body type: text/plain

```
>Just downloaded the lastest winAPRS 1.1.2.
>
>The following I have not been able to do. Either I cannot get it to work, it
>doesnt work, or it doesnt work yet.... or will never be implemented.
>
>1. HSP  (coming....)
```

I have stated several times, I am working VERY HARD on this, it has many difficulties involved in getting BOTH Win95 AND Win 3.1 to work in a similar fashion.

>2. Cannot define the default map, other than renaming Virgina   AAGINA.

This is the CORRECT way to set your default map

>3. Cannot define the default size of the map window. It opens about half size.

All maps open at FULL size as defined by the map. If it opens at "half size" then the map is defined wrong. Send me the map and I will look at it.

>4. Cannot make the map pulldown pop back up when I move the mouse of the
>pulldown like the other pulldowns, unless I hit the left mouse button
>somewhere else.

This is a WINODWS function, I have NO CONTROL over this whatsoever at all. If you dont like how it operates, write to Bill Gates.

>5. Cannot PRINT. PRINT not implented yet?

The documentation clearly states that this is not implemented, it is currently low on the priority list but will be implemented.

>6. Cannot save a MAP window yet. Maybe related to 2. above..

Has nothing to do with #2, but is not finished. THis is about done but not very high on the list.

>7. NO windows based help file in program. Cannot access a help file of any
>kind from within.

CORRECT, and at present there are no plans on making one. This of course could change if enough people wanted one.

>8. Does not support the RADIO AMATEUR CALL BOOK

Have not heard of this one, get us info and we will try to implement it.

>9. Supposed to support QRZ callbook, I have not been able to get it to work.

There is an index file that is needed to go along with it. I will try to get it up on the ftp site.

>10. Double click on station ICON sometimes brings up the station data
>window... sometimes it doesnt. When it does, the map window goes back to
>half size.

Double click (left mouse button) should work. Version 1.1.0 sometimes didnt double click properly, 1.1.2 has that fixed.

The window going back to half size is THE WAY WINDOWS WORKS, I have no control over that. When a window is MAXIMIZED and a new window is created, the current window goes back to its non-maximized state.

>11. I have a DFjr coming this week. I have no idea if it will support it
>right yet...
>

Yes it does support the DFjr, and this is in the docs.

>
>Some of the above maybe my fault. I have not found answers in the doc's.
>

I have been updating the documentation over the last week, several of these are covered in the docs. I hope these answers help.

Mark Sproul

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
```

```
___________________________________________________________________________
```

518. Re: [APRSSIG:3087] winAPRS, what I cannot do..

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 17 Jul 1996 08:48:48 -0500
To: <aprssig@tapr.org>
Message-ID: <199607171350.IAA17213@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>
> I'm running it on a P166, 32megs ram, SVGA at 800x600 under WIN95a.
>
Sounds like overkill to me! I go mobile with a Grid 386, 4 megs ram, SVGA
mono under DOS with DOS APRS, and NO PROBLEMS!!! Not to mention the Garmin
55 GPS and Agrelo DFjr, all on 1 serial port!

I do, however, also overkill with a Pentium system at the QTH running DOS
APRS, of course.

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware Liars Club
```

519. Re: [APRSSIG:3105] Voluteer Your Help

From: William Nolle <ke4eer@worldnet.att.net>
Date: Wed, 17 Jul 1996 12:04:08 -0700
To: aprssig@tapr.org
Message-ID: <31ED3928.2F72@worldnet.att.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> This message wasn't planned to be this long but ........ All I am saying
> is that your actions are reflected on all hams. So please, take a little
> time, voluteer your help and lets keep this hobby a pleasure to everyone.
>
> "And that's all I got to say about that."
> --
> J. Scott Ratchford - KC5JGV
> Marshall, Arkansas

Scott your assuming all of the ideas you mentioned haven't been done.

--
         \////
         (o o)
   *--o00-(_)-00o--*
      Bill WA8INZ
ke4eer@worldnet.att.net
   ke4eer@amsat.org
```

520. Re: [APRSSIG:3080] Re: Downloading problem?

From: selwo@nildram.co.uk (Les Owles)
Date: Wed, 17 Jul 1996 20:24:18 +0100
To: aprssig@tapr.org
Message-ID: <199607171924.UAA25555@linux.nildram.co.uk>
Rendered body type: text/plain

```
On 6th July Ken Bording wrote:-


>I attempted to download all the 7.6F files over the weekend also.  It took
>forever at 28.8 and then the .zip would not explode.  Error message from
>PKUNZIp said "corrupted ZIP file (?)!!!!.   I'm going to try again tonight.
>
I downloaded Maptech.zip from the SIG and when un-zipping had a CRC error
report, tried downloading a second time but same result, PKZIPFIX couldn't
fix it either, has anyone else had the same problem with this file?

--
Les Owles [G4IRJ]
```

521. Re: [APRSSIG:3047] Re: Trimble/PacComm GPS Antenna Rep

From: schiers@ames.net
Date: Wed, 17 Jul 96 14:33:57 -0500

To: aprssig@tapr.org
Message-ID: <199607171934.OAA17783@tapr.org>
Rendered body type: text/plain

```
In <738042@bbs.ames.net>, on 07/15/96 at 06:07 PM,
   aprssig@tapr.org said:

>At 10:45 AM 7/15/96 -0500, you wrote:

>>Could some one put me on to a source (with phone number) of an adapter
>>that goes from the Trimble sma or smb (whatever it is) to BNC for my
>>GPS-45 Garmin.
>>
>>I saw some mention of it a long time ago, but can't locate it. THANKS!
>>
>>73
>>
>>hasan schiers, N0AN--

>The end of the Trimble is female.  You need a male SMB, also called a "jac
>The Pasternack part for BNC male >> SMB jack is PE9132 (cost = $25.95).

Yes, Stacey, that is a big help. Unfortunately, Pasternack wants a minimum
order of 100 bucks...and the connector is 25 as you state. Kinda stumped
about where to go from here. Thanks again....any suggestions? 73,

hasan schiers, N0AN--
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

522. RE: [APRSSIG:3111] Re: Trimble/PacComm GPS Antenna Rep

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 17 Jul 1996 16:00:17 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960717160018.20818a4f@exame2.dseg.ti.com>
Rendered body type: text/plain

```
Hasan, unless you just really want to keep the SMB connector on the Trimble
antenna, I'd suggest just cutting it off and replacing it with a regular
male BNC connector. It's easy to do, works great, connects directly to the
Garmin GPS 45, and costs a WHOLE lot less than the SMB adaptor. Call it
three or four bucks for the BNC, and two or three bucks for some small shrink
tubing to help distribute the stress from the cable to the BNC, and 15
minutes work. As I reported earlier on my experience with the Trimble
antenna, Jim Lawyer, AA5QX, can provide all the details about changing the
connector.

   73  Claude Head
       K5DTN
```

523. Re: [APRSSIG:3097] Re: APRS Legal Question

From: n4nr@vulcan.com (N4NR)
Date: Wed, 17 Jul 96 15:41:00 -0600
To: aprssig@tapr.org
Message-ID: <8C4A3AD.0012001D7F.uuout@vulcan.com>
Rendered body type: text/plain

```
-> Would a HID beacon not meet the ID requirements also ?
->
-> I know that the callsign somewhere in the BTEXT would fill the bill,
-> but I was also under the notion that the HID if turned on will ID
-> every 10 minutes if the station (TNC) has transmitted in the last 10
-> min period. I may be wrong but I too would like to know.

It is very common for a normal (non-aprs) packet node to use an alias,
and whenever that node transmits packets to a user of that node, the
only ID shown is the NODE_ALIAS>USER_CALL designation. The ID function
is cared for with the HID in these cases, as pointed out above...

Many, many packets don't have the ID of the transmitting station
contained anywhere in them.

Dennis - N4NR
```

524. Re: [APRSSIG:3108] Re: winAPRS, what I cannot do..

From: Kent V Hufford <khufford@erols.com>
Date: Wed, 17 Jul 1996 22:20:11 -0400

To: aprssig@tapr.org
Message-ID: <199607172220.SAA15635@smtp2.erols.com>
Rendered body type: text/plain

Well, Scott,

The point about using a P166. That is my HOME machine. Just dont want an
"answer" that I need

1. more ram
2. more video
3. or more of anything else...

My current laptop (which runs dosAPRS on one serial port, gps, etc GREAT) is
a TI 4000M.

However I cannot run winAPRS with GPS and TNC with the HSP yet... Of course
I could make a MANUAL HSP with a switch. Switch? I could program an ALTAR
with switches.. but this is not the 70s<g>..

Just this hour, my DFjr came in a box. 2nd DAY AIR (which took 8 weeks)

Kent

At 09:02 AM 7/17/96 -0500, you wrote:
>>
>> I'm running it on a P166, 32megs ram, SVGA at 800x600 under WIN95a.
>>
>Sounds like overkill to me! I go mobile with a Grid 386, 4 megs ram, SVGA
>mono under DOS with DOS APRS, and NO PROBLEMS!!! Not to mention the Garmin
>55 GPS and Agrelo DFjr, all on 1 serial port!
>
>I do, however, also overkill with a Pentium system at the QTH running DOS
>APRS, of course.
>
>--
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>* North Arkansas Amateur Radio Society, Inc.
>* Marshall Volunteer Fire Dept./EMS First Responder
>* Calf Creek Lodge #426
>* E. Daniel Hardware Liars Club
>
>
>

---

525. Re: [APRSSIG:3110] Re: Downloading problem?

From: ku0g@sprynet.com
Date: Wed, 17 Jul 1996 15:20:20 -0700
To: aprssig@tapr.org
Message-ID: <199607172220.PAA16360@m1.sprynet.com>
Rendered body type: text/plain

Yes, I've had the same problem with the MAPTECH.ZIP file. Have tried to get it
several times with the exact same result each time....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

526. Re: [APRSSIG:3113] Re: APRS Legal Question

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 17 Jul 1996 18:52:52 -0400
To: aprssig@tapr.org
Message-ID: <199607172252.SAA18310@grumpy.magg.net>
Rendered body type: text/plain

>-> Would a HID beacon not meet the ID requirements also ?
>->
>-> I know that the callsign somewhere in the BTEXT would fill the bill,
>-> but I was also under the notion that the HID if turned on will ID
>-> every 10 minutes if the station (TNC) has transmitted in the last 10
>-> min period. I may be wrong but I too would like to know.
>
>It is very common for a normal (non-aprs) packet node to use an alias,
>and whenever that node transmits packets to a user of that node, the
>only ID shown is the NODE_ALIAS>USER_CALL designation. The ID function
>is cared for with the HID in these cases, as pointed out above...
>

>Many, many packets don't have the ID of the transmitting station
>contained anywhere in them.
>
>Dennis - N4NR

Thankyou

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

527. Re: [APRSSIG:3113] Re: APRS Legal Question

From: KD4EMI@aol.com
Date: Wed, 17 Jul 1996 19:45:33 -0400
To: aprssig@tapr.org
Message-ID: <960717194530_363090037@emout15.mail.aol.com>
Rendered body type: text/plain

>
DENNIS WRITES:

common for a normal (non-aprs) packet node to use an alias,
>and whenever that node transmits packets to a user of that node, the
>only ID shown is the NODE_ALIAS>USER_CALL designation. The ID function
>is cared for with the HID in these cases, as pointed out above...
>
>Many, many packets don't have the ID of the transmitting station
>contained anywhere in them.
>
>Dennis - N4NR
>

I believe that Dennis is correct...When operating through nodes , we
sometimes used a ACRONYM to describe it...As long as the station ID's it's
callsign every 10 min he can be whatever alias he wants...The guy who said
its absolutely incorrect is partially incorrect ....It IS illegal to use an
NON CALLSIGN ALIAS unless you beacon your ID every 10.

Lets look carefully at the packets that were provided to the sig ok !!

NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE
-
NONE of these has the standard ID text so therefore there is NO ID text to
identify...If these are the only packets being xmitted then there is a
problem... BUT if every ten minutes we see

N0CALL /R NWSPTC /D RELAY /N

then this id's the station N0CALL as the ID (the /r)
NWSPTC /D idicates that NWSPTC is the alias
RELAY is the NODE

an alphanumeric with a /g would idicate the gate echo /G
Here is my ID on HF and packet (though I use callsigns) From memory,
the order may be wrong.

<<UI>>KD4EMI-3 /R RELAY /D ECHO /G KD4EMI-1 /B

/r again is the station callsign
/d is the alias
/g is the gate
/b is the PBBS

This is the standard convention...If the user is not ID'ing in this fashon
then there is a problem

This goes out every 9.5 minutes..

What should have been included was the guys ID text (if he sends it)
ANY TACTICAL or ALIAS can be used,(EVEN IN VOICE) as long as you IDENTIFY
yourself every ten minutes...HID transmits a ID packet every 9.5 minutes

Now, if you xmit PCTWX or whatever (the tactical callsign) as the id and
not the real one...then that isnt correct...

PS the same included for VOICE...you can speak tactical as long as you identify...
Dont you guys use nodes ??

Mike
KD4EMI@AOL.COM

528. Addendum

From: KD4EMI@aol.com
Date: Wed, 17 Jul 1996 19:55:44 -0400
To: aprssig@tapr.org
Message-ID: <960717195536_579092578@emout10.mail.aol.com>
Rendered body type: text/plain

PS my id for gate is Gate not echo...

KD4EMI-3 /R Gate /G KD4EMI-1 /B

etc..
Mike KD4EMI@ AOL.COM

(I'll watch that station in Georgia and see if he id's !)

529. Re: [APRSSIG:3111] Re: Trimble/PacComm GPS Antenna Rep

From: rsellers@misha.net (Roger Sellers)
Date: Wed, 17 Jul 1996 19:54:25 -0500
To: aprssig@tapr.org
Message-ID: <199607180054.TAA00895@misha.net>
Rendered body type: text/plain

>>At 10:45 AM 7/15/96 -0500, you wrote:
>>>Could some one put me on to a source (with phone number) of an adapter
>>>that goes from the Trimble sma or smb (whatever it is) to BNC for my
>>>GPS-45 Garmin.
>>>I saw some mention of it a long time ago, but can't locate it. THANKS!
>
>>The end of the Trimble is female. You need a male SMB, also called a "jac
>>The Pasternack part for BNC male >> SMB jack is PE9132 (cost = $25.95).
>
>Yes, Stacey, that is a big help. Unfortunately, Pasternack wants a minimum
>order of 100 bucks...and the connector is 25 as you state. Kinda stumped
>about where to go from here. Thanks again....any suggestions? 73,
>

I've posted this address several times so here it is again. I bought some SMA to SMB adaptors from him at a hamfest for like $10 then bought an SMA to BNC adaptor for $2-3. I've not heard back any problems with him so I assume he's OK to deal with. Here goes hope it can help somebody:
Ron Weiser
Telesciences Transmission Systems
171 N. Covington Dr.
Bloomingsdale, Il. 60108-3113

Tel: (708)307-5900   area code may have changed to 847
FAX: (708)307-6062
Direct: (708)-307-3815

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com

530. Re: [APRSSIG:3106] Re: APRS Legal Question

From: rwf <rwf@mindspring.com>
Date: Wed, 17 Jul 1996 22:02:29 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960718020229.006d39dc@mindspring.com>
Rendered body type: text/plain

Nick wrote:

>This station, whoever it is, continues to beacon thru my digi(WA4GKM-5),
>which is seen in several states. It is not legal and someone in the
>Atlanta area should call this person and tell them to stop!

[Line break added]

> I was flamed
>by one of the Atlanta stations simply because I went over Atlanta
>aeronautical mobile and had relay in the unproto path. But he does not
>bother to simply call this person up and say "did you know this is
>illegal to beacon without a callsign".

This whole issue is so juvenile! The two subjects have nothing in common., and the RELAY was at the end of the path- not just "in" it.

I know I politely asked Nick to stop using RELAY at the end of his *AERO MOBILE'S* path because it was causing thousands of retransmissions over 4 states, including ruining my wife's TV reception every minute (since the packet antenna is on the tv mast). My wife tolerates APRS, but doesn't like it well enough to have a digi at home.

And by the way, I waited until he did it twice before i mentioned it to him. A week of two before that, it was being done from the mobile.

I know it makes a station REALLY visible, but folks need to understand that EVERY APRS station relays you each time you beacon this way... including my battery powered station whose power supply is sized only for its intended use and NOT for digipeater service.

This is not flaming- it is preserving and conserving radio bandwidth.

If this becomes something that folks do a lot, then maybe we should rethink having a RELAY alias at all. It would be a shame, since it does help out when used properly. As far as home stations go, I don't think we can just use O C T and change our alias because I think APRS periodically resets the alias to RELAY, doesn't it? Yes, I know I can turn DIGIpeat off in the InitTapr file of APRS- but then I couldn't digi thru my house while in the driveway and under my control.

As far as the guy in Peachtree City goes, why don't some of you people who have such a problem with it just call him and cuss him out if it bothers you so much. Isn't it his problem, not yours? I think he is Eddie, N4YTR.

I know that The King Of The Flamers is just waiting in the wings!

APRS is supposed to be FUN!

---

531. Re: [APRSSIG:3111] Re: Trimble/PacComm GPS Antenna Rep

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 17 Jul 1996 21:42:55 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607180242.VAA27099@solar.cs.tamu.edu>
Rendered body type: text/plain

I've just crimped on 2 BNCs to a couple of Trimble antennas that are the predecessor of the current one available from PacComm. A crimp connector for RG-174 works real good.

73, gerry

---

532. (Fwd) HF Problems

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 17 Jul 1996 23:18:46
To: aprssig@tapr.org
Message-ID: <199607180317.XAA19032@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

I got this guy into APRS, but can't answer these. Please respond direct to him, or to me and I'll forward them. Thanks.

____

```
MSG # TR  SIZE TO     FROM   @BBS   DATE    TITLE
27191 PN  1080 N2ZRC  N2JBO  KB2VLK 960717 Need Help w/APRS
Forwarding path: N2BQF KA2MSL WA2YSM
```

Arte, are you going to help me out or what ? I really need some help here!!! I get on HF and have no idea how to get on to VHF... Or how to Send Talk messages via NU5Q>RELAY>WIDE>APRS OR ANY OTHER WAY ?? I was trying to talk to NU5Q last nite... He was stuck and I Knew the answer ... But I could not get back to him... His Messages were visible to me as NU5Q>RELAY>WIDE>APRSW> Help needed on

APRS ?   How would I respond to a message like this... I have
about 8 different DIGI-PATHS saved in my Program...
     Waht is the FILE-LOAD sequence to reload a .BK that
I have previously saved??? Of which I have several??? I
also renamed the .exe file for starting aprs to APRS.EXE ... I
am ready for INPUT... HELP de Dave

*** END OF MSG # 27191 from N2JBO @ WA2YSM.#ENY.NY.USA.NA

____

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Set coordinates 2-7-1, Chewbacca...

---

533. Re: [APRSSIG:3100] Re: APRS Legal Question

From: Don Murray <james-m@ix.netcom.com>
Date: Wed, 17 Jul 1996 23:47:14 -0400
To: aprssig@tapr.org
Message-ID: <31EDB3C2.268A@ix.netcom.com>
Rendered body type: text/plain

William Nolle wrote:
>
> Richard Garcia wrote:
> >
> > Would a HID beacon not meet the ID requirements also ?
> >
> > I know that the callsign somewhere in the BTEXT would fill the bill, but I
> > was also under the notion that the HID if turned on will ID every 10 minutes
> > if the station (TNC) has transmitted in the last 10 min period. I may be
> > wrong but I too would like to know.
> >
> > Personally I do not feel that it is too much trouble to ask for a measly
> > callsign in the BTEXT but there are always alternate ways.
> >
> > >As long as a VALID callsign appears SOMEWHERE in the Beacon and adequately
> > shows
> > >the station/operator ID that meets the letter of the ID law. I verified this
> > >with FCC in Kansas City about a year ago... Again, the callsign of the
> > >operator/station licensee MUST appear somewhere in the beacon text.
> > >
> > >Best 73,
> > >Jim Duncan, KU0G
> > >APRS--Kansas City Coordinator
> > >EMail: ku0g@sprynet.com
> > >
> > >
> > 73's Rich N2CZF
> > n2czf@magg.net
> > http://www.magg.net/~n2czf   (Personal)
> > http://www.magg.net/~n2czf/aprs.html (Florida APRS)
> > Jupiter Farms Florida EL96
>
> But no callsign is given, the complete beacon is
>
> NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
> NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
> NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE
>
> Now if i read the rules correctly wouldn't any digi owner also place himself in
> a legal position for trouble knowing that your digi is being used this way?.
> Again let me make this clear i'm not flaming anyone, but would sure like to
> know. I never seen anything in the BTEXT either except the above. It does show
> a NWS symbol also. I don't want to open a can of worms but want to keep my
> digi legal Hi.
>
> --
>   \////
>   (o o)
>   *--o00-(_)-00o--*
>   Bill WA8INZ
> ke4eer@worldnet.att.net
>   ke4eer@amsat.org

Maybe he has a KPC-3 and has it set so that it ID's in CW every

9.5mins.. This is how I have my APRS TNC set..

Don
AE4BR

534. Re: [APRSSIG:3102] Re: APRS Legal Question

From: Don Murray <james-m@ix.netcom.com>
Date: Wed, 17 Jul 1996 23:51:09 -0400
To: aprssig@tapr.org
Message-ID: <31EDB4AD.62A3@ix.netcom.com>
Rendered body type: text/plain

```
Larry Griffin wrote:
>
> On Tue, 16 Jul 1996, William Nolle <ke4eer@worldnet.att.net> wrote:
> >But no callsign is given, the complete beacon is
> >
> >NWSPTC 161914@162019z**Testing** NWS PeachTree City,GA
> >NWSPTC 161754@071620z3326.04N/08426.04W*Testing*
> >NWSPTC>APRS,AB4KN-2,N4NEQ-2,WIDE
>
> -----
>
> Those packets are NOT LEGAL ON HAM FREQUENCIES.
> Whoever is operating NWSPTC needs to put a valid ham call in MYCALL.
> Period.  End of discussion.
>
> Larry - AB5GE

Did I miss the FCC repealing the section of Part 97 that allows for the
ID of a station with CW??  I don't know but think it just might be
possible these people could are using a Kantronics TNC that allows for
CW iding..

Let's don't suggest that someone is doing something illegal untill we
have checked out all possibilities..

BTW I use the CW ID feature of the KPC to ID my APRS setup every 9.5
mins, and according to what I have read, This is the only ID I need to
be concerned with..

DoN
```

535. WinAprs still won't run with OS/2

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 17 Jul 96 21:24:24 EDT
To: aprssig@tapr.org
Message-ID: <199607180356.DAA154955@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
Yes, even the lastest version of WinAPRS fails with a
"Unexpected DOS error 23" when it loads
under OS/2.  This is a MAJOR bug. OS/2 has
a fully operational Windows 3.11 system.
In fact, on my system it *is* an actual
licensed copy of Windows 3.11!
Any Windows 3.x program which will not run
on it is seriously flawed.   Pleeeese... this
needs to be fixed.

Or, better yet, give up on that sorry excuse for an
operating system (Windows) and do an OS/2 port instead :-)




Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.
```

536. WinAPRS and OS/2 - more info

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 17 Jul 96 21:58:25 EDT
To: aprssig@tapr.org
Message-ID: <199607180404.EAA75847@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

My previous posting about the DOS 23 error from
OS/2 when WinAPRS loaded was on a machine
which did not have *any* Win32s support.

I installed WinAPRS on another OS/2 machine
with IBMs Win32s 1.25 installed. The results were
much worse. The program did actually start this time.
However, I was greeted with a dire warning which
said that this version Win 32s didn't support 0x1b access and
asked if I wanted to abort or return and error code
to the program. I choose return error code to pgm.

Big mistake. WinAprs did actually put up a USA map.
However, when I attempted to open the TNC it crashed
the whole system with a Trap 3 :-(

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

537. Helicopter GPS

From: rwf <rwf@mindspring.com>
Date: Thu, 18 Jul 1996 00:08:06 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960718040806.007001a0@mindspring.com>
Rendered body type: text/plain

I remember some discussions of helicopter mounted GPS receivers awhile back.
Did anyone ever get any experience with it?

I'm wondering about attaching Garmin GPS 35s (the one that looks like a
computer mouse) to the skid, and the effects of the whirling blades above.

Please let me know quickly if you have first hand explerience with whether
this worked or not.

Thanks,

Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

538. Re: [APRSSIG:3083] APRS Legal Question

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 18 Jul 1996 07:09:44 -0400
To: aprssig@tapr.org
Message-ID: <31EE1B78.5A84@co.pinellas.fl.us>
Rendered body type: text/plain

Amateur Radio regulations require that a station identify itself every 10 minutes when
transmitting Bill, but they don't, to my knowledge, specify that a packet station's call
be exclusively an amateur callsign....so long as that station is sending an ID packet,
or for that matter, a CW ID, every 10 mins, it should be legal. Its basically no
different than naming a wide area digi.......

William Nolle wrote:
>
> This is not to flame anyone but i keep seeing a beacon and WX station on
> my map and it doesn't have a valid Amateur radio callsign other then
> stating as follows:
>
> NWSPTC>APRS,DIGI,DIGI,WIDE
>

> If this is legal i for one never realized that the NWS could transmit a
> WX station info on 145.790 without a valid call going along with the
> beacon.
>
> Like i said this is not to flame anyone but rather to find out the
> legalalities of what a weather station can or cannot do!.
>
> --
>   \////
>   (o o)
>   *--o00-(_)-00o--*
>   Bill WA8INZ
> ke4eer@worldnet.att.net
>   ke4eer@amsat.org

---

539. Re: [APRSSIG:3093] New APRSwx program

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 18 Jul 1996 07:18:58 -0400
To: aprssig@tapr.org
Message-ID: <31EE1DA2.63A8@co.pinellas.fl.us>
Rendered body type: text/plain

Great idea Bob....but one question before I download it....is this surface wind or upper
level wind and what is the source of the data please....I am sure you know the NWS/FAA
switched over from SA format to METAR format on their hourly weather surface
observations July 1, thus making the current show NWS functions of APRS non useable...

Kevin

Bob Bruninga wrote:
>
> Just for fun and while on vacation, I just finished a routine that tries to
> display the overall wind flow over the surface of a map based on the data
> from all WX stations on the map. Hit the WX-WINDS command and you will
> see about 450 little wind vectors all over the map showing the flow.
> This works at any map scale.
>
> But it wouldnt fit in standard APRS, so I spun-off a new program
> that leaves out the DX and DF stuff and called it APRSwx. Since it will
> include future WX specific functions, it assumes you are registered for
> WX in order to display these additional features..
>
> Again, I dont know that this has any real WX value, but it was just an
> interesting challenge. I expect that there will be additional changes
> to APRSwx very soon, so dont feel in any rush to get it... hi hi
>
> It is on the tapr site as aprswx.zip.
>
> de wb4apr@amsat.org

---

540. Re: [APRSSIG:3129] Re: New APRSwx program

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 18 Jul 96 7:49:56 EDT
To: aprssig@tapr.org
Cc: <kheyboer@pinegov.co.pinellas.fl.us>
Message-ID: <CMM-RU.1.4.837690596.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS has had this winds-aloft type dislplay since before Dayton. And this
just got finished in the WinAPRS version recently. However, the intent
and source data are some-what different..   The reason for this in the Mac/
Win versions is for using the Winds-Aloft-Data for doing balloon predicitons.
The source data is from the FAA / Ohio State Univ.

Check out the doucmentation at:

http://aprs.rutgers.edu/APRS/

and

http://www-ns.rutgers.edu/~ksproul/APRS/APRSWIND.html

Keith

> Great idea Bob....but one question before I download it....is this surface wind or upper
> level wind and what is the source of the data please....I am sure you know the NWS/FAA
> switched over from SA format to METAR format on their hourly weather surface
> observations July 1, thus making the current show NWS functions of APRS non useable...
>
> Kevin
>
>
>
> Bob Bruninga wrote:
> >
> > Just for fun and while on vacation, I just finished a routine that tries to
> > display the overall wind flow over the surface of a map based on the data
> > from all WX stations on the map. Hit the WX-WINDS command and you will
> > see about 450 little wind vectors all over the map showing the flow.
> > This works at any map scale.
> >
> > But it wouldnt fit in standard APRS, so I spun-off a new program
> > that leaves out the DX and DF stuff and called it APRSwx. Since it will
> > include future WX specific functions, it assumes you are registered for
> > WX in order to display these additional features..
> >
> > Again, I dont know that this has any real WX value, but it was just an
> > interesting challenge. I expect that there will be additional changes
> > to APRSwx very soon, so dont feel in any rush to get it... hi hi
> >
> > It is on the tapr site as aprswx.zip.
> >
> > de wb4apr@amsat.org
>
>

Keith Sproul   Ham Radio: WU2Z
Student Housing Network Coordinator   ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/   908 821-4828 Home

---

541. Re: [APRSSIG:3125] WinAprs still won't run with OS/2

From: schiers@ames.net
Date: Thu, 18 Jul 96 07:22:00 -0500
To: aprssig@tapr.org
Message-ID: <199607181240.HAA28297@tapr.org>
Rendered body type: text/plain

In <740518@bbs.ames.net>, on 07/18/96 at 12:21 AM,
   aprssig@tapr.org said:

Re: Running WinAPRS under Win-OS/2

>Any Windows 3.x program which will not run
>on it is seriously flawed.   Pleeeese... this
>needs to be fixed.

Dale, let's be a little bit careful here. No one I know is a more devoted user of OS/2 than me. I run it on four different machines and have been using it since 2.0 and am now running Connect. However, there are MANY 32 bit windows apps that DO NOT run under OS/2's Win-OS/2 because they REQUIRE version 1.3x of the 32 bit Windows subsystem. Since there isn't any OS/2 1.3x (latest being around 1.25), any program designed to take advantage of the latest capabilities of Win32s will not work under Win-OS/2.

This is NOT a WinAPRS bug. It is part of the on-going war between uSoft and IBM.

Look into the OS/2 Echo of FidoNet and you will see tens if not scores of Windows programs that WILL NOT run under OS/2 with Win32s versions prior to 1.3x. (In other words, they require the LATEST version of Win32s, and will not run at all without it.)

Asking the authors to write "down" to OS/2's Windows level support, is in my mind, going way too far.

I disagree completely with your conclusion that "Any 3.x program which will not run on it is seriously flawed." The problem is NOT the 3.x program, it is in compatibility of the Win32s 32 bit subsystem with Win-OS/2. It is more games from Mr. Bill, who, from my experience has taken every opportunity to break the interoperability between Windows and OS/2.

Let's not blame the software authors, when it is VERY CLEAR that the problem rests in Redmond. There isn't a damn thing the authors can do about this problem except not use calls required by Win32s 1.3x...which is telling them not to advance the features of their programs because of an incompatibility with an operating system they don't even care about. Expecting a bit much, don't you think?

I fully agree that we ought to get a version of APRS out that is a port to a "real" operating system like OS/2 instead of a kludged up DOS operating shell like Win95. I run a dedicated Win95 machine for WinAPRS and believe me, Win95 is a sorry comparison to OS/2...but it is the only cost-effective way to run WinAPRS well (Win-NT being pretty pricey).

We can hope that the Bros. Sproul would do a port to OS/2, but I just don't know if there is enough demand to make it worth their while.

73,

hasan schiers, N0AN--
```
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

542. Re: [APRSSIG:3127] Helicopter GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 Jul 1996 08:06:50 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607181306.IAA00379@solar.cs.tamu.edu>
Rendered body type: text/plain

I've now talked to a number of guys who ride around in rotating oil leaks (helicopters) and they tell me they have no problems with a handheld in the cockpit. Attaching one to the skid might be an interesting exercise. I think, I might prefer to take it back toward the tail, if possible.

73, gerry

---

543. Re: [APRSSIG:3114] Re: winAPRS, what I cannot do..

From: Mark Sproul <sproul@ap.org>
Date: Thu, 18 Jul 1996 09:15:29 -0400
To: aprssig@tapr.org
Message-ID: <v03007600ae13e93e9c47@[165.1.27.20]>
Rendered body type: text/plain

>However I cannot run winAPRS with GPS and TNC with the HSP yet... Of course
>I could make a MANUAL HSP with a switch. Switch? I could program an ALTAR
>with switches.. but this is not the 70s<g>..
>

I am working hard on HSP mode, however, it will probably be the end of August before it is complete.

I appologize for the delays, but there are only so many hours in a day.

Mark

```
____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

---

544. Re: WinAprs still won't run with OS/2

From: Mark Sproul <sproul@ap.org>
Date: Thu, 18 Jul 1996 09:33:32 -0400
To: aprssig@tapr.org
Cc: wa4dsy@wa4dsy.radio.org
Message-ID: <v03007602ae13ea7fe7b2@[165.1.27.20]>

Rendered body type: text/plain

```
>Dale Heatherington wrote:
>
>Yes, even the lastest version of WinAPRS fails with a
>"Unexpected DOS error 23" when it loads
>under OS/2.  This is a MAJOR bug. OS/2 has
>a fully operational Windows 3.11 system.
>In fact, on my system it *is* an actual
>licensed copy of Windows 3.11!
>Any Windows 3.x program which will not run
>on it is seriously flawed.   Pleeeese... this
>needs to be fixed.
>
>Or, better yet, give up on that sorry excuse for an
>operating system (Windows) and do an OS/2 port instead :-)
>


I MUST object to this message.

WinAPRS is NOT, repeat NOT a Windows 3.1 application.  It is a Win32
Application.  This means it is a full 32 bit application and intended to
run under Win95 OR WindowsNT.  It will run under Windows 3.1  ***IF*** you
install Win32S.  Win32S is a collection of DLLs from Microsoft that allow
32 bit applications to run under Windows 3.1 or 3.11.

I have done NOTHING special to make WinAPRS run under Win32S, it just
works. The current version of Win32S is 1.3, It is my understanding that
the current OS/2 version of Win32S is 1.2.5.  I have NO IDEA of the
difference and have seen NO documentation to 1.2.5 whatsoever at all.

On the OS/2 side:

        I have asked SEVERAL times, if ANYONE knows anything about OS/2
programming AND Windows programming could talk to me about the differences
but NOONE has been able to answer my questions, those that program OS/2
dont know anything about Windows (3.1 OR 95) and those that know about
Windows, dont know ANYTHING about OS/2.  I need an explaination about the
differences and what is envolved in porting to OS/2.  But so far, I have
had ZERO feed back on this question.

So Mr. Heatherington, my program is NOT "seriously flawed" but your
assumtions as to why it should work are.

Mark Sproul

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

545. Re: [APRSSIG:3121] Re: Trimble/PacComm GPS Antenna Rep

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Thu, 18 Jul 1996 09:45:18 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960718094326.24641C-100000@outland.dtcc.edu>
Rendered body type: text/plain

```
I would like to add my count to this discussion.  I also installed a
RG-174 crimp connector to my Trimble.  It was easy for me.  BTW I managed
to break one of the little fingers off of the SMB connector that came
with my GPS-20.  I think the connector is somewhat fragile.  A BNC is
very very tough.

Sam K3BY in Delaware

On Wed, 17 Jul 1996, Gerald J Creager wrote:

> I've just crimped on 2 BNCs to a couple of Trimble antennas that are the
> predecessor of the current one available from PacComm.  A crimp connector for
> RG-174 works real good.
>
> 73, gerry
>
>
```

546. Re: [APRSSIG:3094] Re: <alt> S ...wide help on aprs 76f ?

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Thu, 18 Jul 1996 08:54:52 -0500
To: aprssig@tapr.org
Message-ID: <v02120d01ae13f1636821@[138.87.2.109]>
Rendered body type: text/plain

```
On Tue, 16 Jul 1996 WB4APR said:

>APRSdos REPLY COMMENT: It was just abused too much.  The way to do it now
>is to use a TNC with multiple callsigns that can digipeate.  The PacComm
>Pico TNC has 4 aliases and the KPC-3 can use the MYnode and MYhost calls.
>-OR- hook up a seoncd TNC to the same radio in parallel with the alias of
>WIDE.
>
>DOnt think of this as being heavy handed.  It just enforces the
>requirement that all WIDE digipeaters must also have the dual alias of
>RELAY.  The overall APRS system depends on this standard.

Good idea except it obsoletes alot of TNC's.  Do you have any feeling when
the "other manufacturers" will upgrade their EPROM's?  I don't want to
double my TNC's or buy new ones.


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

547. Re: [APRSSIG:3131] Re: WinAprs still won't run with OS/2

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 18 Jul 96 10:18:58 -0400
To: <aprssig@tapr.org>
Message-ID: <199607181415.KAA12418@bridge.net>
Rendered body type: text/plain

```
>I fully agree that we ought to get a version of APRS out that is a port to
>a "real" operating system like OS/2 instead of a kludged up DOS operating
>shell like Win95.

There already is one...MacAPRS!
```

---

548. Re: [APRSSIG:3131] Re: WinAprs still won't run with OS/2

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Thu, 18 Jul 96 10:20:37 EDT
To: aprssig@tapr.org
Message-ID: <199607181437.OAA223811@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Thu, 18 Jul 1996 07:48:43 -0500 (CDT) you wrote:

>In <740518@bbs.ames.net>, on 07/18/96 at 12:21 AM,
>   aprssig@tapr.org said:
>
>Re: Running WinAPRS under Win-OS/2
>
>>Any Windows 3.x program which will not run
>>on it is seriously flawed.   Pleeeese... this
>>needs to be fixed.
>
>Dale, let's be a little bit careful here. No one I know is a more devoted
>user of OS/2 than me. I run it on four different machines and have been
>using it since 2.0 and am now running Connect. However, there are MANY 32
>bit windows apps that DO NOT run under OS/2's Win-OS/2 because they
>REQUIRE version 1.3x of the 32 bit Windows subsystem. Since there isn't
>any OS/2 1.3x (latest being around 1.25), any program designed to take
>advantage of the latest capabilities of Win32s will not work under
>Win-OS/2.
>
>This is NOT a WinAPRS bug. It is part of the on-going war between  uSoft
>and IBM.


I well aware of the Win32s 1.3 issue.  I will conceed that the bug is in Win32s
1.3 and probably not winaprs.  I call it a bug because it breaks the ability
of windows programs to run under licensed copies of Windows 3.1 in the
OS/2 environment.  My copy of windows 3.11 is paid for. Bill Gates got
his money!  Bill has an obligation to support his users.  It would be
```

poor business practice to intentionally write code which causes customers software to fail. Therefore it must be a bug. I want to know when Bill intends to fix it so we OS/2 users can once again use Win 3.1 programs which we paid for the ability to run.

So, until Microsoft fixes Win32s 1.3, software authors should work around the win32s bug and demand Microsoft do something about it. Those that don't avoid Win32s 1.3 will pay the cost in increased calls to their support lines from irate OS/2 customers and reduced product sales.

>Asking the authors to write "down" to OS/2's Windows level
>support, is in my mind, going way too far.

Just exactly what killer-must-have feature in WinAPRS needs Win32s 1.3 to operate? Would it have been impossible for WinAPRS to have been written 1 year ago (before Win 32s 1.3) ? I don't think so. I think it's more of an educational problem. Many programmers probably don't even know they're writing code which will not run under Win-OS/2 and thus limiting potential sales.

>
>I disagree completely with your conclusion that "Any 3.x program which
>will not run on it is seriously flawed." The problem is NOT the 3.x
>program, it is in compatibility of the Win32s 32 bit subsystem with
>Win-OS/2. It is more games from Mr. Bill, who, from my experience has
>taken every opportunity to break the interoperability between Windows and
>OS/2.

Again, I bought my Windows 3.11 from Mr. Bill. Why would he want to cause my applications to fail? Even the WIN-OS/2 in OS/2 "full pack" is licensed from Microsoft. When you put "requires Windows 3.1 or higher" on the box I expect it to run in Win-OS/2. If it doesn't then it's defective.

>
>Let's not blame the software authors, when it is VERY CLEAR that the
>problem rests in Redmond. There isn't a damn thing the authors can do
>about this problem except not use calls required by Win32s 1.3x...which is
>telling them not to advance the features of their programs because of an
>incompatibility with an operating system they don't even care about.
>Expecting a bit much, don't you think?

What features would the Bros. Sproul have to eliminate from WinAPRS, if any? Are these worth the reduced sales? Is it not simpler to write a Windows program for WIN-OS/2 compatibility that port it to native OS/2?

[deleted]

>We can hope that the Bros. Sproul would do a port to OS/2, but I just
>don't know if there is enough demand to make it worth their while.

If OS/2 users keep using pre-win32s 1.3 windows apps and don't complain about the lack of native OS/2 apps or non-runnable Windows 3.1 apps they will continue to be invisible to ISVs. ISVs, seeing no vivible OS/2 users will continue to falsely believe there's no market for quality OS/2 software. The latest figures I've seen indicate there's at least 13 million OS/2 users with monthly sales of OS/2 in the 500,000 to 1,000,000 range. This exceeds NT by a factor of 10 and is closing in on Macintosh. If there's "not enough demand" for OS/2 software then the NT market must really be dead.

Oh well. I guess this is enough off topic comments for one day ;-) Sorry for eating the BW but I just had to vent.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

549. Re: [APRSSIG:3135] Re: Trimble/PacComm GPS Antenna Rep

From: Ken Mirabella <kjm@flo-bin.com>
Date: Thu, 18 Jul 1996 08:00:40 -0700
To: aprssig@tapr.org
Message-ID: <31EE5198.1C4E@flo-bin.com>
Rendered body type: text/plain

```
The solder type works great too.  Get RG-174 BNC and drill out the hole
just slightly and you will not need any special crimping tools.

73 KM6YH


Dr Samuel Guccione wrote:
>
> I would like to add my count to this discussion.  I also installed a
> RG-174 crimp connector to my Trimble.  It was easy for me.  BTW I managed
> to break one of the little fingers off of the SMB connector that came
> with my GPS-20.  I think the connector is somewhat fragile.  A BNC is
> very very tough.
>
> Sam K3BY in Delaware
>
> On Wed, 17 Jul 1996, Gerald J Creager wrote:
>
> > I've just crimped on 2 BNCs to a couple of Trimble antennas that are the
> > predecessor of the current one available from PacComm.  A crimp connector for
> > RG-174 works real good.
> >
> > 73, gerry
> >
> >
```

---

550. Re: [APRSSIG:3134] Re: WinAprs still won't run with OS

From: schiers@ames.net
Date: Thu, 18 Jul 96 10:58:51 -0500
To: aprssig@tapr.org
Message-ID: <199607181559.KAA06361@tapr.org>
Rendered body type: text/plain

```
In <740792@bbs.ames.net>, on 07/18/96 at 09:53 AM,
   aprssig@tapr.org said:

>So Mr. Heatherington, my program is NOT "seriously flawed" but your
>assumtions as to why it should work are.

You are absolutely 100% correct. It is NOT a WinAPRS problem. It is an
interoperability problem between Win32s versions and OS/2, period. If your
program had been written to the 1.25 win32s extensions and  not the later
1.3 extensions, then it would have worked, but that makes no sense at
all...using the old version of the win32s subsystem.

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

551. Re: [APRSSIG:3137] Re: WinAprs still won't run with OS

From: schiers@ames.net
Date: Thu, 18 Jul 96 11:01:29 -0500
To: aprssig@tapr.org
Message-ID: <199607181600.LAA06462@tapr.org>
Rendered body type: text/plain

```
In <740834@bbs.ames.net>, on 07/18/96 at 10:40 AM,
   aprssig@tapr.org said:

>>I fully agree that we ought to get a version of APRS out that is a port t
>>a "real" operating system like OS/2 instead of a kludged up DOS operating
>>shell like Win95.

>There already is one...MacAPRS!

Point taken!

73,
hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

552. Re: [APRSSIG:3114] Re: winAPRS, what I cannot do..

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 18 Jul 1996 11:14:03 -0500
To: <aprssig@tapr.org>
Message-ID: <199607181630.LAA32634@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> Just this hour, my DFjr came in a box. 2nd DAY AIR (which took 8 weeks)
>
> Kent

Now your in for a bit of fun! If you don't get tangled in al the wires
first! Good luck with the DFjr. I've had great success with it so far in
hunting both the fox and a "sure nuff" emergency.


--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware Liars Club
```

553. Re: [APRSSIG:3133] Re: winAPRS, what I cannot do..

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 18 Jul 1996 11:23:45 -0500
To: <aprssig@tapr.org>
Message-ID: <199607181630.LAA32636@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> I am working hard on HSP mode, however, it will probably be the end of
> August before it is complete.
>
> I appologize for the delays, but there are only so many hours in a day.


That says it all right there! Mark is working to get the job done within
"Mr. Gates neighborhood" which has to be nearly impossible. Keep up the
good work Mrak.


--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware Liars Club
```

554. Re: [APRSSIG:3138] Re: WinAprs still won't run with OS/2

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 18 Jul 96 13:07:19 -0400
To: <aprssig@tapr.org>, <wa4dsy@wa4dsy.radio.org>
Message-ID: <199607181704.NAA28461@bridge.net>
Rendered body type: text/plain

```
>So, until Microsoft fixes Win32s 1.3, software authors should
>work around the win32s bug and demand Microsoft do something
>about it.  Those that don't avoid Win32s 1.3 will pay the cost in
>increased calls to their support lines from irate OS/2 customers
>and reduced product sales.
>
>Just exactly what killer-must-have feature in WinAPRS needs
>Win32s 1.3 to operate?  Would it have been impossible for
>WinAPRS to have been written 1 year ago (before Win 32s 1.3) ?
>I don't think so.   I think it's more of an educational problem.
>Many programmers probably don't even know  they're writing
>code which will not run under Win-OS/2 and thus limiting
>potential sales.
>
>What features would the Bros. Sproul have to eliminate from
>WinAPRS, if any?  Are these worth the reduced sales?  Is it not
>simpler to write a Windows program for WIN-OS/2 compatibility
>that port it to native OS/2?
```

>
Dale...IMHO you are WAY out of line here. This isn't the Sproul Brothers
job, but a hobby. What makes you think you are entitled to set the
priorities for someone else's hobby time? There are many other features
that Keith and Mark want to work on. Maybe they'll do an OS/2 port, maybe
they won't. They certainly know you want one...but somehow at this point
I bet they are less likely to do than before you started ranting.

Personally, I wish they had never started on WinAPRS...MacAPRS would be
much further along now. I keep them aware of what I want them to work on,
bug them on the things I need, but I understand that their priorities are
different. Why is it so hard for you to understand that they don't live
to make you happy?

Given that they had never programmed Windows before, I think it is
absolutely amazing that they met their short, self imposed deadlines on
WinAPRS. They deserve nothing but praise from this sig. Where do you get
off calling their program "seriously flawed"? Get real, or get off the
sig.

---

555. Re: [APRSSIG:3134] Re: WinAprs still won't run with OS/2

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 Jul 1996 12:57:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607181757.MAA03847@solar.cs.tamu.edu>
Rendered body type: text/plain

Mark Sproul sez:
>
> >Dale Heatherington wrote:
> >
> >Yes, even the lastest version of WinAPRS fails with a
> >"Unexpected DOS error 23" when it loads
> >under OS/2. This is a MAJOR bug. OS/2 has
> >a fully operational Windows 3.11 system.
...
> >
> >Or, better yet, give up on that sorry excuse for an
> >operating system (Windows) and do an OS/2 port instead :-)
> >
>
>
> I MUST object to this message.

While Dale's note is a little heated, I have to agree. OS/2 *IS* still out
here and someof us *DO* use it. I seriously doubt I'll beta test Win9x for
Micro$oft anytime in the near future, and cannot justify NT at home, so I
guess I'll have to use the DOS version for the time being.

> WinAPRS is NOT, repeat NOT a Windows 3.1 application. It is a Win32
> Application. This means it is a full 32 bit application and intended to
> run under Win95 OR WindowsNT. It will run under Windows 3.1 ***IF*** you
> install Win32S. Win32S is a collection of DLLs from Microsoft that allow
> 32 bit applications to run under Windows 3.1 or 3.11.

Dale's later note identifies this.

> I have done NOTHING special to make WinAPRS run under Win32S, it just
> works. The current version of Win32S is 1.3, It is my understanding that
> the current OS/2 version of Win32S is 1.2.5. I have NO IDEA of the
> difference and have seen NO documentation to 1.2.5 whatsoever at all.

>From what I can appreciate, the princlple difference between v1.3 and v1.25 is
to increase the size (and number) of required DLLs and to not completely
document all of the changes to 1.30. The appearance is to make software
incorporating v1.3 software incompatible with previous, working Win32s
releases.

> On the OS/2 side:
>
>   I have asked SEVERAL times, if ANYONE knows anything about OS/2
> programming AND Windows programming could talk to me about the differences
> but NOONE has been able to answer my questions, those that program OS/2
> dont know anything about Windows (3.1 OR 95) and those that know about
> Windows, dont know ANYTHING about OS/2. I need an explaination about the
> differences and what is envolved in porting to OS/2. But so far, I have
> had ZERO feed back on this question.

I beg to differ. While I cannot necessarily speak to Win9x, I have offered,

within limits of nondisclosure to assist by providing a platform for
compiling, and debugging, the code. As well as testing it. The native code
should compile cleanly. The device calls should be obvious and move cleanly
to OS/2 DLLs. Further, a 32bit windows port is a possibility depending on the
OS/2 compiler chosen.

> So Mr. Heatherington, my program is NOT "seriously flawed" but your
> assumtions as to why it should work are.

Or, possibly, expectations. I'd have assumed, based on earlier announcements,
that a port to Windows would not have been hampered by Win32. I was somewhat
dismayed to discover that it was. While the functionality of WinAPRS
generally exceeds that of the DOS incarnation, I really was expecting
something closer to the DOS product as a first start.

All that said: I've been very happy on the 2 occasions I've brought up
WinAPRS here at work on the NT machines. I just can't plan on every machine I
develop for having that, and I *WILL NOT* plan on it being Win9x.

Regards, Gerry Creager
n5jxs@tamu.edu

---

556. Re: [APRSSIG:3140] Re: WinAprs still won't run with OS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 18 Jul 1996 13:15:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607181815.NAA04104@solar.cs.tamu.edu>
Rendered body type: text/plain

schiers@ames.net sez:
>
> You are absolutely 100% correct. It is NOT a WinAPRS problem. It is an
> interoperability problem between Win32s versions and OS/2, period. If your
> program had been written to the 1.25 win32s extensions and not the later
> 1.3 extensions, then it would have worked, but that makes no sense at
> all...using the old version of the win32s subsystem.

I disagree: I've found no documentation that indicates that Win32s v1.30 has
improved operability or enhancement over v1.25 save that it's different. I
could have missed something.

gerry

---

557. Re: [APRSSIG:3140] Re: WinAprs still won't run with OS

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Thu, 18 Jul 96 14:51:15 EDT
To: aprssig@tapr.org
Message-ID: <199607181853.SAA113639@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Thu, 18 Jul 1996 11:00:28 -0500 (CDT) you wrote:

>In <740792@bbs.ames.net>, on 07/18/96 at 09:53 AM,
>   aprssig@tapr.org said:
>
>>So Mr. Heatherington, my program is NOT "seriously flawed" but your
>>assumtions as to why it should work are.
>
>You are absolutely 100% correct. It is NOT a WinAPRS problem. It is an
>interoperability problem between Win32s versions and OS/2, period. If your
>program had been written to the 1.25 win32s extensions and not the later
>1.3 extensions, then it would have worked, but that makes no sense at
>all...using the old version of the win32s subsystem.
>

Why, pray tell, does it make no sense at all to use the older
version of win32s to pick up, for free, 13 million additional
potential customers?

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

558. Re: [APRSSIG:3141] Re: WinAprs still won't run with OS

From: Bob Lorenzini <hwm@netcom.com>
Date: Thu, 18 Jul 1996 12:05:43 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.960718120341.1855A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
On Thu, 18 Jul 1996 schiers@ames.net wrote:

> In <740834@bbs.ames.net>, on 07/18/96 at 10:40 AM,
>    aprssig@tapr.org said:
> 
> >>I fully agree that we ought to get a version of APRS out that is a port t
> >>a "real" operating system like OS/2 instead of a kludged up DOS operating
> >>shell like Win95.
> 
> >There already is one...MacAPRS!
> 
> Point taken!
> 
> 73,
> 
> hasan

  Yes, but if the linux version ever arrives we will then have one that
not only runs on a real operating system, but is platform independent.


Bob - wd6dod
```

559. Re: [APRSSIG:3090] Looking for APRS Info

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 18 Jul 1996 14:06:18 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae1296452464@[199.1.11.126]>
Rendered body type: text/plain

```
>    Is there a FAQ site that has info on how to set-up an APRS =
>station and gives some general info on it?

You might want to download the APRSSIG Mail archives at tapr.org
and use a search program to find key words. There has been a lot of
ground covered over the last 1.5 years.

There is a WWW doc link and a how to get stated web page
BUT you are still going to need to read the DOC file for
the Version of APRS you plan to use.  DOS , WIN , MAC

How to use TNC's , Trackers  and GPS units, WX stations  and DF
are covered in the DOS APRS docs that come with the program
and much more in the mail archives.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

560. Re: xxxAPRS on linux

From: Mark Sproul <sproul@ap.org>
Date: Thu, 18 Jul 1996 17:05:12 -0400
To: aprssig@tapr.org
Message-ID: <v03007609ae1456cc58aa@[165.1.27.20]>
Rendered body type: text/plain

```
>
>  Yes, but if the linux version ever arrives we will then have one that
>not only runs on a real operating system, but is platform independent.
>
>
>Bob - wd6dod

For those that attended Dayton, we had on display X-APRS showing map
displays working.  Which is basicly proof of concept.  At this point, ALL
that we have working is the map display.  We are hoping to have full X-APRS
by sometime next year (1997) We might, I repeat MIGHT, have beta by X-Mas
and delivery by Dayton, this is what we would like but ARE NOT PROMISING.
The translation to Windows went very well and from our initial
investigation and testing, the translation to X should go very well.
```

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

561. My two cents

From: bmicales@facstaff.wisc.edu (Bruce Micales)
Date: Thu, 18 Jul 1996 16:42:25 -0600
To: aprssig@tapr.org
Message-ID: <v02110101ae146c9a0d0e@[144.92.79.161]>
Rendered body type: text/plain

I would just like to take the time to thank Bob Bruninga and the Sproul brothers for taking the time to offer the amateur radio community such a fine package as APRS, WinAPRS and (MacAPRS ?? who did that port?).

I use APRS and more lately WinAPRS and wish I could to such a fine job as these gentlemen. My only only "complaint"...which it was all free.....:-). Only kidding, I am glad to pay for the programs. I am now waiting for the new WinAPRS that I hope comes with my registration.

Again my thanks and hats off to those that have provided such a fine product.

73

```
Bruce Micales  ----  bmicales@facstaff.wisc.edu
Anatomy Department  ----  University of Wisconsin - Madison
WA2DEU   ----   Packet Radio: PBBS : WA2DEU@WD9ESU.#SCWI.EN53IE.WI.USA.NOAM
                Packet Radio: My Mailbox : WA2DEU-1 on 145.03 MHz
```

---

562. Michigan Wide Digi's

From: "PAUL MANNING" <MANNING_P@wfum.flint.umich.edu>
Date: Thu, 18 Jul 1996 17:34:25 EDT
To: aprssig@tapr.org
Message-ID: <19BE44E35BF@WFUM.flint.umich.edu>
Rendered body type: text/plain

Is there any one on the list that may know of

an APRS list of Digi's for the state of Michigan??

I am In the Flint area,and see postings from South

East Michigan,(Flint,Pontiac,Detroit) but nothing

from Lansing,Grand Rapids or the rest of the state.

Thanks,

Paul

---

563. Re: Garmin G45 XL

From: "John R.B. Adams" <jrbadams@interlog.com>
Date: Thu, 18 Jul 96 18:02:57 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199607182202.SAA12966@gold.interlog.com>
Rendered body type: text/plain

-- [From: John R.B. Adams * EMC.Ver #2.5.02] --

I am just about finally ready to spring for a GPS unit after 'thinking about it' for many months. I had decided on the G45, but recently saw

mention of a 'newer' model, the G45 XL (I think).

Can anyone give me info on the XL model, or direct me to a source of such info?   i.e. how does it differ from the G45?   etc.   ....

Tnx in advance for any help/info offered!

73, John.

--
John R.B. Adams VE3ASX
120 Raglan Avenue - Apt. 907
Toronto, ON, Canada
M6C 2L4 (Postal Code)
(416) 653-9842
jrbadams@interlog.com

---

564. Mis-delivered mail.

From: AT&T WorldNet Customer Care<wn.email@worldnet.att.net>
Date: Thu, 18 Jul 1996 22:03:52 GMT
To: aprssig@tapr.org
Message-ID: <199607182203.WAA05143@mailhost.worldnet.att.net>
Rendered body type: text/plain

Yesterday AT&T WorldNet(sm) Service experienced some difficulty delivering some E-mail messages to our users. It is likely your message was misdelivered to the wrong person and did not make it to the intended recipient. If possible, you may want to resend your message. The recipient name and the time it was posted to our E-mail servers are detailed below.

To assist you in determining which message was likely misdelivered, we're providing you with the Message ID generated by your mailer below. Understand that different E-mail packages will produce different headers which means you may or may not be able to see the message ID.

```
Recipient Name:          tarwater@worldnet.att.net
Time Posted to WorldNet: Tue Jul 16 09:09:27
Message ID:              <31EB324A.60C0@flo-bin.com>
```

We appreciate your cooperation and apologize for any inconvenience this may cause.

If you have questions or concerns please contact AT&T WorldNet Customer Care at wn.email@worldnet.att.net

---

565. Re: [APRSSIG:3094] Re: <alt> S ...wide help on aprs 76f ?

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 18 Jul 1996 18:38:39 -0400 (EDT)
To: wb4apr@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9607181833.B23648-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

This is a bit heavy handed. You certainly have the right to change the program any way you like, of course, but you are dictating procedure that YOU feel is the only way the system should be run. Perhaps you ought to leave a bit of latitude for those of us who don't agree.

I will not go out and purchase TNCs for any of the sites I have control of, and neither do I think any one else should. A high site digipeater need only have a single alias. To demand that we 'upgrade' because of your thinking we have gone 'out of control' is very heavy handed.

Please reconsider your decision.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Tue, 16 Jul 1996, Bob Bruninga wrote:

> On Tue, 16 Jul 1996, Charles W. Davidson wrote:
>
> >   Anyway I cannot seem to find a way to set my alias to wide
> > instead of relay. The old command of alt-s wide , is not in this
> > version...
>
> APRSdos REPLY COMMENT: It was just abused too much. The way to do it now
> is to use a TNC with multiple callsigns that can digipeate. The PacComm
> Pico TNC has 4 aliases and the KPC-3 can use the MYnode and MYhost calls.
> -OR- hook up a seoncd TNC to the same radio in parallel with the alias of
> WIDE.
>
> DOnt think of this as being heavy handed. It just enforces the
> requirement that all WIDE digipeaters must also have the dual alias of

> RELAY. The overall APRS system depends on this standard.
>
> de wb4apr@amsat.org
>

566. Re: [APRSSIG:3128] Re: APRS Legal Question

From: ku0g@sprynet.com
Date: Thu, 18 Jul 1996 15:43:36 -0700
To: aprssig@tapr.org
Message-ID: <199607182243.PAA04529@m1.sprynet.com>
Rendered body type: text/plain

No, Kevin. That would mean that any ID is acceptable which is NOT the case. A VALID identification contains the FCC-ISSUED CALLSIGN every 10 minutes. Tactical calls are legal when used in conjunction with a PROPER ID.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

567. Fwd: <alt> S ...wide help on aprs 76f ?

From: 0004818186@mcimail.com Thu Jul 18 17:53:02 1996
Date: Thu, 18 Jul 1996 18:52:03 -0400
To: APRSSIG@tapr.org
Cc: 0004818186@mcimail.com, N2CZF@magg.net, WB4APR@amsat.org,
       DMOBLEY@encore.com
Message-ID: <960718185200_579833734@emout15.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-07-18 04:53:01 EDT, SEYMOUR...
0004818186@mcimail.com (Miami Network) and KD4EMI writes:
-
Seymour is referring to the fact that a mobile should never have relay in his unproto...NOR SHOULD A WIDE ALSO BE A RELAY...

Ive tried to explain it to him why this is wrong ...can someone who is more prose oriented please assist... I told him that I have one string with

 RELAY, WIDE and another
WIDE,WIDE

when I am mobile..he replies....

This is just silly. Look at what has happened. We now have
TWO strings that mean the same thing! The trick would be
to just have WIDE for the alias.
>
Apparantly RELAY means the same thing so if a mobile is transmitting
RELAY,WIDE   then a DIGI set to WIDE-RELAY will repeat the signal
and a mobile with WIDE in the path will also get repeated?
>
>I missed something here.

KD4EMI WRITES >
Yup.. would be nice to have just one string...WIDE,WIDE
But in fringe areas you wont get into the system... So if you have
RELAY , wide you can count on the local APRS house to digi you into the
system. BUT SINCE the WIDES are not relays you need two strings...
Plus out of town people can use either unproto with sucess..

SEYMOUR SEZ

>Perhaps we need ALIAS like COUNTY, CITY, LOCAL, UNIT, BLOCK, AREA
>etc. etc.

EMI sez
NO NO NO !!!! READ THE DOCS !! MAKE ALL THE WIDES THAT YOU PUT UP
WIDE/RELAY in the alias not the unproto...

SEYMOUR SEZ
>The answer is to N E V E R put RELAY in as part of your PATH
>when you are mobile.
>
EMI--
NO NO NO
Seymour, your putting up so many wides around here...get it right !!
Ive thrown my hands up in frustration....PLEASE SOMEONE HELP !

I dont know how else to explain this..
Mike
KD4EMI@AOL.COM

Forwarded message:
From: 0004818186@mcimail.com (Miami Network)
To: KD4EMI@aol.com (KD4EMI)
Date: 96-07-18 04:53:01 EDT

This is just silly. Look at what has happened. We now have
TWO strings that mean the same thing! The trick would be
to just have WIDE for the alias.

Apparantly RELAY means the same thing so if a mobile is transmitting
RELAY,WIDE   then a DIGI set to WIDE-RELAY will repeat the signal
and a mobile with WIDE in the path will also get repeated?

I missed something here.

Perhaps we need ALIAS like COUNTY, CITY, LOCAL, UNIT, BLOCK, AREA
etc. etc.

The answer is to N E V E R put RELAY in as part of your PATH
when you are mobile.

73, Seymour

---

568. Garlink

From: "Mike Walker" <mwalker@interlog.com>
Date: Thu, 18 Jul 96 19:11:34 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199607182312.TAA02305@gold.interlog.com>
Rendered body type: text/plain

Has anyone had any luck getting a registration number from the author of
Garlink?

Please reply to me directly.

Thanks...mike

Mike Walker   mwalker@interlog.com
127 High St. W.   rf: va3mw@va3bbs
Mississauga, ON
L5H 1K4

---

569. Mis-delivered mail.

From: AT&T WorldNet Customer Care<wn.email@worldnet.att.net>
Date: Thu, 18 Jul 1996 23:47:03 GMT
To: aprssig@tapr.org
Message-ID: <199607182347.XAA16533@mailhost.worldnet.att.net>
Rendered body type: text/plain

Yesterday AT&T WorldNet(sm) Service experienced some difficulty delivering
some E-mail messages to our users. It is likely your message was misdelivered
to the wrong person and did not make it to the intended recipient. If
possible, you may want to resend your message. The recipient name and the time
it was posted to our E-mail servers are detailed below.

To assist you in determining which message was likely misdelivered, we're
providing you with the Message ID generated by your mailer below.
Understand that different E-mail packages will produce different headers
which means you may or may not be able to see the message ID.

Recipient Name: tarwater@worldnet.att.net
Time Posted to WorldNet: Tue Jul 16 09:09:27
Message ID: <31EB324A.60C0@flo-bin.com>

We appreciate your cooperation and apologize for any inconvenience this may
cause.

If you have questions or concerns please contact AT&T WorldNet Customer Care
at wn.email@worldnet.att.net

---

570. Re: [APRSSIG:3035] Re: Trimble/PacComm GPS Antenna Report

From: Joe DeVille <jwdstu@westga.edu>
Date: Thu, 18 Jul 1996 20:02:01 -0400

To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960719000201.00663f6c@160.10.4.2>
Rendered body type: text/plain

```
At 10:45 AM 7/15/96 -0500, you wrote:
>>I borrowed one of the Trimble/PacComm GPS antennas
>
>Could some one put me on to a source (with phone number) of an adapter
>that goes from the Trimble sma or smb (whatever it is) to BNC for my
>GPS-45 Garmin.
>
>I saw some mention of it a long time ago, but can't locate it. THANKS!

After searching for about 2 weeks, I found one from NEMAL ELECTRONICS in
Miami, Fl.  It was about $25.00, but there isn't a minimum order (like
Pasternack's whopping $100).  Their number is 1-800-522-2253.  Ask for part
No. NE-9410, SMB Jack --> BNC Plug.  They were really nice and got it to me
here in GA in 2 days.

Hope that helps.
-----------------------------------------------------------------------------
Joe DeVille, K5KLO            Primary address:  jwdstu@westga.edu
State University of        Secondary address:  bm160@freenet.carleton.ca
  West Georgia          Memberships/Affiliations: American Radio Relay League
Carrollton, GA USA       Amateur Radio Emergency Service, SKYWARN, Red Cross
                              Disaster Services, Atlanta Olympic Band
------------ HOME PAGE: http://www.westga.edu/~jwdstu/index.html -------------
```

571. WX-APRS

From: "Mike Walker" <mwalker@interlog.com>
Date: Thu, 18 Jul 96 20:42:00 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199607190043.UAA29401@gold.interlog.com>
Rendered body type: text/plain

```
To all (and Bob)

I just started playing with the WXaprs and nice idea on the winds aloft
display.

Have you given any thought to logging some wx data?  Like Max/Min temp, max
windspeed and so forth?

Just a thought.


cheers...mike

Mike Walker                                 mwalker@interlog.com
127 High St. W.                                 rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

572. Re: [APRSSIG:3155] Re: <alt> S ...wide help on aprs 76f ?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 18 Jul 1996 20:58:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960718205138.7066C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Thu, 18 Jul 1996, John W Wilson wrote:

> This is a bit heavy handed.  You certainly have the right to change the
> program any way you like, of course, but you are dictating procedure that
> YOU feel is the only way the system should be run.  Perhaps you ought to
> leave a bit of latitude for those of us who don't agree.
>
> I will not go out and purchase TNCs for any of the sites I have control
> of, and neither do I think any one else should.   A high site digipeater
> need only have a single alias.  To demand that we 'upgrade' because of
> your thinking we have gone 'out of control' is very heavy handed.
>
> Please reconsider your decision.
>
> John W. Wilson, KN4HX
=========================================================================
Sorry, I don't agree John.  This is Bob's program. He knows it better
than any of us, and he certainly has every right to make such changes.
There is no reason for you (or anyone else) to purchase new TNC's. You
```

can run *old* versions of APRS. But I would suggest that you comply with
Bob's wishes. (if not now, then eventually)

==

> >
> > DOnt think of this as being heavy handed. It just enforces the
> > requirement that all WIDE digipeaters must also have the dual alias of
> > RELAY. The overall APRS system depends on this standard.
> >
> > de wb4apr@amsat.org

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

573. WinAPRS in August CQ VHF

From: Ken Mirabella <kjm@flo-bin.com>
Date: Thu, 18 Jul 1996 19:03:30 -0700
To: aprssig@tapr.org
Message-ID: <31EEECF2.2D1@flo-bin.com>
Rendered body type: text/plain

Did anyone ekse catch the article about WinAPRS and APRS in the August
CQ VHF magazine. If not it is very favorable to the Sprouls, Bob
Bruninga and APRS in general. The author is Don Rotolo, N2IRZ.

73 de KM6YH

574. get real

From: Roger Breckon <n8chb@tir.com>
Date: Fri, 19 Jul 1996 05:58:01 +0100
To: aprssig@tapr.org
Message-ID: <31EF15D9.6A2A@tir.com>
Rendered body type: text/plain

Let's get real,

Very talented folks design and market hardware and software products.
How much control do they have over what we do with them?

A child might say,

 You can play with my toys
 but only the way I dictate you can.

de Roger n8chb@tir.com

575. Personal mesgs.

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Thu, 18 Jul 1996 22:45:51 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <31EF210F.283E@worldnet.att.net>
Rendered body type: text/plain

Today, due to a glitch in ATT Worldnet, I had 91 SIG messages in my
mailbox.
I don't really mind the volume if it has some information in it, but of
the 91 messages, over half of them were personal JABS at each other.

I know there is a delete button, but you have to download them before you
can delete them!!!

Come on guys, GET OFF THE REPLY button, put in an address, and spare us
all the PETTY BICKERING.

Bud(WB4LTF)

BTW: Its amazing, the number of lawyers that participate in this Sig!!!

576. Re: [APRSSIG:3163] WinAPRS in August CQ VHF

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 19 Jul 1996 07:11:47 -0500
To: <aprssig@tapr.org>
Message-ID: <199607191237.HAA12139@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> Did anyone ekse catch the article about WinAPRS and APRS in the August
> CQ VHF magazine. If not it is very favorable to the Sprouls, Bob
> Bruninga and APRS in general. The author is Don Rotolo, N2IRZ.
>

```
> 73 de KM6YH

Yes! I believe Don, a friend of Kieth Sproul, wrote the article. Of course
that article was written in April, so the information was slightly
outdated. That just the way it is.

For general information to some one who is not a "seasoned" user of APRS,
I think the article was just about right. Wad ya Tink?
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

577. Yet another ARPS usage

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 19 Jul 1996 07:36:49 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607191237.HAA12142@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
In an effort to educate the uneducated and to demonstrate the many uses of
APRS and our hobby, I took a group out last night to "hunt down" cable TV
leaks. We used three "tools". A 2 meter radio, a portable TV, and
APRS/DFjr/GPS. I had previously found three leaks in the system, so it was
not very difficult showing the folks, one of which was the cable
maintenance manager. We started out using just the 2 meter and the TV.
After which, came the big suprise. The DFjr setup showed leaks all over
the place! There were a few jaws hitting the ground, including mine, when
we looked at the screen. I set the threshhold a bit higher on the DFjr and
away we went to identify and locate. 2 1/2 hours later, we had found 11
new leaks in the system!

There were at least two very suprised people last night. The maintenance
guy and myself. Not to mention the three others in the van. All in all, I
think it was time well spent. In that I was able to demonstrate our hobby
and get a few more people interested. I learned 2 things last night, 1.
The cable company had no idea that this many leaks were out there, and 2.
This stuff really does work!



--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

578. Re: [APRSSIG:3147] Re: WinAprs still won't run with OS

From: schiers@ames.net
Date: Fri, 19 Jul 96 08:36:26 -0500
To: aprssig@tapr.org
Message-ID: <199607191352.IAA01178@tapr.org>
Rendered body type: text/plain

```
>>>So Mr. Heatherington, my program is NOT "seriously flawed" but your
>>>assumtions as to why it should work are.
>>
>>You are absolutely 100% correct. It is NOT a WinAPRS problem. It is an
>>interoperability problem between Win32s versions and OS/2, period. If you
>>program had been written to the 1.25 win32s extensions and  not the later
>>1.3 extensions, then it would have worked, but that makes no sense at
>>all...using the old version of the win32s subsystem.
>>

>Why, pray tell, does it make no sense at all to use the older version of
>win32s to pick up, for free, 13 million additional potential customers?
                                    ^^^^^^^^^
Because like most of the hype surrounding any operating system release,
the 13 million additional potential customers is pure hyperbole. Get real.
APRS is the discussion, not the entire software universe. Now, by the time
you go down the market tree:

1. OS/2 Users
2. Who are hams
3. Who are interested in digital
4. Who are interested in APRS digital
5. Who are actually going to run OS/2-APRS, given the existence of
```

```
   a dos and Win3.1x/Win32s and Win95 and Win-NT platform, not
   to mention MacAPRS

If there are 150 "real" potential customers for this product, I would be
very surprised. So, I stand by my original assertion that "it makes no
sense to write to an 'old' set of extensions for a VERY limited number of
potential customers."

In the end, it doesn't matter what any of us think. The "market" will
determine what really happens. If there really is a terrific demand for an
OS/2 version it will happen. Funny thing...there are very few OS/2
versions of any ham software, PHS (multi-mode data controller software
being one of them...and it hasn't been updated in years), and PMNOS
(tcp/ip for packet...also hasn't been updated forever and development is
dead)....what does that tell us?

Until such time as the market shakes out, the best bet for hams is an  OS
that runs its own stuff really well, runs dos apps very well, and manages
to somehow run Windows software as well as it can,
given what it is.

Sure sounds like OS/2 to me!

What we can hope for is that either uSoft or IBM get their act together to
provide the highest order of interoperability between systems....but I
wouldn't hold my breath where Mr. Bill is concerned...just ask the
Department of Justice regarding "predatory business practices"....they
have a rather extensive file on the Rascals from Redmond.


I have to stop contributing to this thread on the APRS sig...it seems
quite a bit off topic unless we think we are somehow convincing Bob to
write an OS/2 version <VBG>. 73,


hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

579. Re: [APRSSIG:3148] Re: WinAprs still won't run with OS

From: schiers@ames.net
Date: Fri, 19 Jul 96 08:54:27 -0500
To: aprssig@tapr.org
Message-ID: <199607191354.IAA01258@tapr.org>
Rendered body type: text/plain

```
In <741093@bbs.ames.net>, on 07/18/96 at 03:39 PM,
   aprssig@tapr.org said:



>On Thu, 18 Jul 1996 schiers@ames.net wrote:

>> In <740834@bbs.ames.net>, on 07/18/96 at 10:40 AM,
>>    aprssig@tapr.org said:
>>
>> >>I fully agree that we ought to get a version of APRS out that is a por
>> >>a "real" operating system like OS/2 instead of a kludged up DOS operat
>> >>shell like Win95.
>>
>> >There already is one...MacAPRS!
>>
>> Point taken!
>>
>> 73,
>>
>> hasan

>  Yes, but if the linux version ever arrives we will then have one that
>not only runs on a real operating system, but is platform independent.


>Bob - wd6dod

And if that ever does happen (linux), Win95 will be off my HD as fast as a
format can accomplish it. But, it's gonna be a while. 73,

hasan schiers, N0AN--
```

```
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

580. Re: [APRSSIG:3146] Re: WinAprs still won't run with OS

From: schiers@ames.net
Date: Fri, 19 Jul 96 08:56:18 -0500
To: aprssig@tapr.org
Message-ID: <199607191359.IAA01361@tapr.org>
Rendered body type: text/plain

```
In <741078@bbs.ames.net>, on 07/18/96 at 03:12 PM,
   aprssig@tapr.org said:

>schiers@ames.net sez:
>>
>> You are absolutely 100% correct. It is NOT a WinAPRS problem. It is an
>> interoperability problem between Win32s versions and OS/2, period. If yo
>> program had been written to the 1.25 win32s extensions and  not the late
>> 1.3 extensions, then it would have worked, but that makes no sense at
>> all...using the old version of the win32s subsystem.

>I disagree:  I've found no documentation that indicates that Win32s v1.30
>has improved operability or enhancement over v1.25 save that it's
>different.  I could have missed something.

>gerry

You aren't disagreeing that the problem isn't WinAPRS, you are saying the
improvements in Win32s 1.30 aren't worth much. Hell, Windows itself isn't
worth much...but it is all we have (for the Intel platform and
multi-tasking APRS). My bet is that using older versions of Win32s is just
setting the developer up for later problems with Mr. Bill and his penchant
for breaking things that don't adhere to the latest alleged standard. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

581. Re: [APRSSIG:3167] Yet another ARPS usage

From: William Nolle <wa8inz@cris.com>
Date: Fri, 19 Jul 1996 09:06:05 -0700
To: aprssig@tapr.org
Message-ID: <31EFB26D.4269@concentric.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> There were at least two very suprised people last night. The maintenance
> guy and myself. Not to mention the three others in the van. All in all, I
> think it was time well spent. In that I was able to demonstrate our hobby
> and get a few more people interested. I learned 2 things last night, 1.
> The cable company had no idea that this many leaks were out there, and 2.
> This stuff really does work!
>
> --
> J. Scott Ratchford - KC5JGV - Marshall, Arkansas

Great story Scott, played with my DFjr a little, but having problems with my
laptop needing 14.4vdc, so i have to play with that problem first. Keep the
stories on the DFjr coming.

--
wa8inz@cris.com
wa8inz@amsat.org
```

582. Re: [APRSSIG:3151] My two cents

From: Mark Sproul <sproul@ap.org>
Date: Fri, 19 Jul 1996 11:13:11 -0400
To: aprssig@tapr.org
Cc: bmicales@facstaff.wisc.edu
Message-ID: <v03007600ae1556247c88@[165.1.27.20]>
Rendered body type: text/plain

```
>I would just like to take the time to thank Bob Bruninga and the Sproul
>brothers for taking the time to offer the amateur radio community such a
>fine package as APRS, WinAPRS and (MacAPRS ?? who did that port?).
>
```

APRS is of course written by Bob Bruninga

MacAPRS was written by Keith Sproul (WU2Z) and Mark Sproul (KB2ICI),
released in early 1994

Mark Sproul ported MacAPRS to Windows.

Mark

ps. Bruce, thanks for your nice comments of support.

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

583. Re: [APRSSIG:3127] Helicopter GPS

From: Scott Arnold <sarnold@access-net.com>
Date: Fri, 19 Jul 1996 10:49:04 +0000
To: aprssig@tapr.org
Message-ID: <31EF6820.6C07@access-net.com>
Rendered body type: text/plain

rwf wrote:

>
> I remember some discussions of helicopter mounted GPS receivers awhile back.
> Did anyone ever get any experience with it?
>
> I'm wondering about attaching Garmin GPS 35s (the one that looks like a
> computer mouse) to the skid, and the effects of the whirling blades above.
>
> Please let me know quickly if you have first hand explerience with whether
> this worked or not.
>
> Thanks,
>
>   Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
> Advisor
>   rwf@mindspring.com
> Atlanta, GA USA
>   Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
> Ham info
> My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
> me how!

Yes, I put a GPS receiver in a helicopter and we put it inside under the
front window on top of the dash. Had no problems with the blades, it was
a six channel, and had all six birds in veiw except when the helicopter
was in a tight turn. hope this helps.

Scott Arnold

---

584. Re: [APRSSIG:3151] My two cents

From: bmicales@facstaff.wisc.edu (Bruce Micales)
Date: Fri, 19 Jul 1996 11:02:03 -0600
To: aprssig@tapr.org
Cc: sproul@ap.org
Message-ID: <v02110102ae156d5ee04c@[144.92.79.161]>
Rendered body type: text/plain

>>I would just like to take the time to thank Bob Bruninga and the Sproul
>>brothers for taking the time to offer the amateur radio community such a
>>fine package as APRS, WinAPRS and (MacAPRS ?? who did that port?).
>>
>
>
>APRS is of course written by Bob Bruninga
>
>MacAPRS was written by Keith Sproul (WU2Z) and Mark Sproul (KB2ICI),
>released in early 1994

>Mark Sproul ported MacAPRS to Windows.

Thank you Mark for the correction and the information.>

>ps. Bruce, thanks for your nice comments of support.

My pleasure and I meant every word! Well, except for the incorrect parts :-).

```
Bruce Micales  ----  bmicales@facstaff.wisc.edu
Anatomy Department  ----  University of Wisconsin - Madison
WA2DEU   ----   Packet Radio: PBBS : WA2DEU@WD9ESU.#SCWI.EN53IE.WI.USA.NOAM
                Packet Radio: My Mailbox : WA2DEU-1 on 145.03 MHz
```

---

585. RE: [APRSSIG:3167] Yet another ARPS usage

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Fri, 19 Jul 1996 12:54:55 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960719125455.2081f704@exame2.dseg.ti.com>
Rendered body type: text/plain

On Friday, 19-July-1996, Scott Ratchford, KC5JGV, presented a most interesting discussion of using APRS, GPS, DFjr, etc., to find cable "leaks".

MOST interesting, Scott. How about some more details of your setup and operating techniques? In particular, how does the DFjr work with the multiple cable leaks? Looks like it might get confused, since all these signals are identical, just coming from different places. Wouldn't that just look like a severe case of multipath? Also, what kind of receiver were you using for the DFjr, and what frequency did you listen to?

```
Thanks!   73  Claude Head
              K5DTN
              chead@exame2.dseg.ti.com
```

---

586. Help with dosAPRS

From: David & Roxanne McCarthy <davidmc@goodnet.com>
Date: Fri, 19 Jul 1996 12:12:42 -0700
To: aprssig@tapr.org
Message-ID: <31EFDE2A.24DC@goodnet.com>
Rendered body type: text/plain

Anybody live in the Phoenix area that could give me hand getting APRS to work on a laptop. I have a Zenith Supersport 286 that I am trying to get working with a KPC-3 TNC. When I start APRS76F, it goes through the start-up questions, but when draws the map, it comes back with a error 68 and stops.

Any help will be appreciated.

David, KC7AYX
davidmc@goodnet.com

---

587. Gps Receiver

From: "DENNIS JAMES" <den_j@msn.com>
Date: Sat, 20 Jul 96 02:51:48 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199607200341220782@msn.com>
Rendered body type: text/plain

Hello its the first time on this server the name is Dennis I am very much interested in aprs and am looking to purchase a gps unit its a Magellan GPS 3000 does anyone have one and is it compatible with the aprs software.

Or if its unsuitable san anyone suggest a similar unit.
thanks.

Dennis
Scone Australia
VK2DOR
KO-23,KO-25 AND UO-22
Email vk2dor@amsat.org

---

588. Gps Receiver

From: "DENNIS JAMES" <den_j@msn.com>
Date: Sat, 20 Jul 96 07:06:36 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199607200720150366@msn.com>

Rendered body type: text/plain

```
Hello its the first time on this server the name is Dennis I am very much
interested in aprs and am looking to purchase a gps unit its a Magellan GPS
3000 does anyone have one and is it compatible with the aprs software.

Or if its unsuitable san anyone suggest a similar unit.
thanks.

Dennis
Scone Australia
VK2DOR
KO-23,KO-25 AND UO-22
Email vk2dor@amsat.org
```

---

589. APRS in Idaho?

From: Horning S SSgt 607AIS/INXX <HorningS@tiger.osan.af.mil>
Date: Sat, 20 Jul 96 18:26:00 JST
To: aprssig <aprssig@tapr.org>
Message-ID: <31F0B387@smtpgate.osan.af.mil>
Rendered body type: text/plain

```
Can anyone tell me if APRS is being used in Idaho?  I'm particularly
interested in the Boise/Mountain Home area.  If they are, what freq are they
using?  Thanks for your help!

73,
Steve, N0XVZ & HL9XVT
hornings@tiger.osan.af.mil
```

---

590. Re: [APRSSIG:3173] Re: Helicopter GPS

From: Paul Sadowski <sadowski@cris.com>
Date: Sat, 20 Jul 1996 06:36:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960720064055.3a0f27a4@pop3.cris.com>
Rendered body type: text/plain

```
Another good place is up in the "greenhouse" - - the canopy above the pilots,
that's where I have placed mine...

ALOHA
AH6LS

At 11:08 AM 7/19/96 -0500, you wrote:
>>
>> I remember some discussions of helicopter mounted GPS receivers awhile back.
>> Did anyone ever get any experience with it?
>>
>> I'm wondering about attaching Garmin GPS 35s (the one that looks like a
>> computer mouse) to the skid, and the effects of the whirling blades above.
>>
>> Please let me know quickly if you have first hand explerience with whether
>> this worked or not.
>>
>> Thanks,
>>
>>                  Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
```

---

591. Re: [APRSSIG:3177] Gps Receiver

From: "Craig A. Green" <stauros@onramp.net>
Date: Sat, 20 Jul 1996 07:01:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607201201.HAA28171@mailhost.onramp.net>
Rendered body type: text/plain

```
At 10:57 PM 7/19/96 -0500, you wrote:
>Hello its the first time on this server the name is Dennis I am very much
>interested in aprs and am looking to purchase a gps unit its a Magellan GPS
>3000 does anyone have one and is it compatible with the aprs software.
>
>Or if its unsuitable san anyone suggest a similar unit.
>thanks.
>
>Dennis
>Scone Australia
>VK2DOR
>KO-23,KO-25 AND UO-22
>Email vk2dor@amsat.org
>
```

>Dennis, I have used a Magellan GPS 3000 with its associated data/power module as a stand alone tracker and have been very pleased with the results. Sat acquisition after
initializing is usually two minutes or less and the GPS 3000 tracks well with the internal patch antenna if you set it up on the dash of your vehicle under the windshield. I have configured my stand alone tracker with an AEA PK12 TNC which works very well although I am sure that a KPC-3 would work as well. The NMEA-0183 data output connects directly to the PK12 with no level translations necessary. The Magellan external active antenna (30 db gain) works well although it is expensive at
$99.95 (US funds). The data/power module uses a SMB termination for the external ant.

I have written a technical document on my stand alone tracker and if you are interested I would be pleased to send you an email with a copy and diagram. The Magellan GPS 3000 has worked flawlessly and another user in our local APRS group is also pleased if you would like another opinion. Any questions, please fell free to contact me by direct email.

```
*******************************************************************
Craig A. Green N5WEH     "When you can measure what you are speaking
stauros@onramp.net        about and express it in numbers, you know
                          something about it; but when you cannot
                          measure it, when you cannot express it in
"Let's get out of HERE!"  numbers, your knowledge is of a meager ,
Chase & spousal partner   unsatisfactory kind. ---- Lord Kelvin ----
*******************************************************************
```

---

592. Re: [APRSSIG:3163] WinAPRS in August CQ VHF

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 20 Jul 1996 08:57:17
To: aprssig@tapr.org
Message-ID: <199607201258.IAA14201@mail-e2b-service.gnn.com>
Rendered body type: text/plain

On Thu, 18 Jul 1996 Ken Mirabella wrote:

>Did anyone else catch the article about WinAPRS and APRS in
>the August CQ VHF magazine...

Sure did. If it hadn't have been for KE4DWK you would've seen MY callsign just east of him! He's since moved back to Fourland and I'm no longer "covered up" by him. 8-)

```
Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

Set coordinates 2-7-1, Chewbacca...

---

593. Visiting OH and IL/MO

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Sat, 20 Jul 1996 11:06:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960720110244.10914A-100000@outland.dtcc.edu>
Rendered body type: text/plain

I will visiting parents in OH on the east side of Columbus. Will be looking for APRS activity while traveling their and while staying. Is 145.79 the frequency to use?

Also will be going to southern IL just across the Mississippi in IL (Godfrey). Will be looking similar activity. Same frequency question.

Any of you APRSers out there in those areas that can answer my question.

Sam K3BY in Delaware

---

594. GARMIN 45XL

From: "John R.B. Adams" <jrbadams@interlog.com>
Date: Sat, 20 Jul 96 11:20:05 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199607201519.LAA08152@gold.interlog.com>
Rendered body type: text/plain

-- [From: John R.B. Adams * EMC.Ver #2.5.02] --

My recent quest for info re the Garmin 45XL yielded the following, which I pass along in the chance that it might be of interest to someone (anyone) else!

'NEW' G45XL

....

Called Garmin on 800 number and talked to representative. The XL will not be out until the end of the month. It is physically same as the 45. It has new fonting to make it easier to read. It has a track back feature (TracBack) to allow retracing your steps when hiking (saves working back thru waypoints). Has a dedicated compass page that looks like a round compass. It has a resettable trip odometer. It has a feature called EZINIT that gives faster initialization on initial start or when you have moved 300 miles or more. It has an INTERNAL LITHIUM BATTERY for memory backup.

....

My sincere tnx go to Bob Radmore, N2PWP, for gleaning this info and sending it along to me!

73 de VE3ASX (John).

--
John R.B. Adams VE3ASX 120 Raglan Avenue - Apt. 907 Toronto, ON, Canada M6C 2L4 (Postal Code) (416) 653-9842 jrbadams@interlog.com

---

595. Re: [APRSSIG:3177] Gps Receiver

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 20 Jul 1996 10:24:23 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607201524.KAA28485@solar.cs.tamu.edu>
Rendered body type: text/plain

I'd strongly recommend the Garmin GPS45. Garmin has apparently introduced and update (GPS45XL) and you can get good deals on the base -45. I've a jaundiced view of Magellans hardware these days.

73, gerry
"Cows In Space" Mapping Sciences Laboratory, TAMU
n5jxs@tamu.edu

---

596. RE: [APRSSIG:3183] Visiting OH and IL/MO

From: "Warren Walker" <wmwalker@village.yvv.com>
Date: Sat, 20 Jul 1996 13:30:30 -0400
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199607201729.NAA00584@yvv.com>
Rendered body type: text/plain

Yes Doc!
145.79 is growing daily. GPS, DIGI's Home stations, weather stations all popping up daily. Ohio seems to be quite fertile for APRS. Lots of stations on the air. I am in Mansfield, 30+ miles to the north of CMH but I can hear that way pretty good. Looking forward to seeing your packets!

Warren Walker
N8VNL

> From: Dr Samuel Guccione
> To: aprssig@tapr.org
> Subject: [APRSSIG:3183] Visiting OH and IL/MO
> Date: Saturday, July 20, 1996 11:08 AM
>
> I will visiting parents in OH on the east side of Columbus. Will be
> looking for APRS activity while traveling their and while staying. Is
> 145.79 the frequency to use?
>
> Also will be going to southern IL just across the Mississippi in IL
> (Godfrey). Will be looking similar activity. Same frequency question.

```
>
> Any of you APRSers out there in those areas that can answer my question.
>
> Sam K3BY in Delaware
>
>
```

597. Validation?

From: kf2wm@vhf.n2njh-5.ampr.org
Date: Sat, 20 Jul 96 14:10:22 -0400
To: aprs@tapr.org
Message-ID: <10553@N2NJH>
Rendered body type: text/plain

```
Bob Bruninga,
   I sent in my order for validation & WX, quite some time ago and am still
waiting for my registration numbers.  I somehow have this feeling it may
have been lost in the mail (as my postal mail is notorious for this).
   If you have sent out my validation numbers, I have not received them yet.
Is there any way I can get them here from you?
   (Am anxious to get my WX station on-line)...

                Thank you...  John (KF2WM@hamgate.sunyerie.edu)


73's   John Evans - KF2WM
       KF2WM@KE2VW.#WNY.NY.USA.NOAM   BBS Network
       KF2WM@vhf.n2njh-5.ampr.org     AMPRNet
       KF2WM@hamgate.sunyerie.edu     Internet
```

598. RE: [APRSSIG:3183] Visiting OH and IL/MO

From: John Santmire <kb8pff@bright.net>
Date: Sat, 20 Jul 96 15:53:53 PDT
To: aprssig@tapr.org
Message-ID: <Chameleon.960720155547.kb8pff@kb8pff.bright.net>
Rendered body type: text/plain

```
On what date are you going to be comming to Ohio?

         **********************************************
         *  Name..: John Santmire                     *
         *  E-Mail: kb8pff@bright.net                 *
         *  WWW...: http://www.bright.net/~kb8pff     *
         *  PBBS..: kb8pff@wb8lyf.#nwoh.usa.na        *
         *  APRS..: Lat. 4103.49N  Lon. 08338.71W     *
         **********************************************
         *      This Mail Was Sent By Chameleon       *
         *      On  07/20/96  At  15:53:53      C YA! *
         **********************************************

---------------Original Message---------------
I will visiting parents in OH on the east side of Columbus.  Will be
looking for APRS activity while traveling their and while staying.  Is
145.79 the frequency to use?

Also will be going to southern IL just across the Mississippi in IL
(Godfrey).  Will be looking similar activity.  Same frequency question.

Any of you APRSers out there in those areas that can answer my question.

Sam K3BY in Delaware



----------End of Original Message----------
```

599. RE: [APRSSIG:3184] GARMIN 45XL

From: Larry Griffin <largriff@swta.com>
Date: Sat, 20 Jul 1996 21:02:47 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB7685.1336B160@larry.onramp.net>
Rendered body type: text/plain

```
Hmm, interesting...  All the new operating features mentioned about the new
G45XL are already on the GPS38 (except maybe the lithium battery; not
sure).  Is it safe to assume the G45XL will have the external antenna
connection and wider voltage range of the GPS45?
```

Larry - AB5GE

'NEW' G45XL

....

Called Garmin on 800 number and talked to representative. The XL will not be out until the end of the month. It is physically same as the 45. It has new fonting to make it easier to read. It has a track back feature (TracBack) to allow retracing your steps when hiking (saves working back thru waypoints). Has a dedicated compass page that looks like a round compass. It has a resettable trip odometer. It has a feature called EZINIT that gives faster initialization on initial start or when you have moved 300 miles or more. It has an INTERNAL LITHIUM BATTERY for memory backup.

```
begin 600 WINMAIL.DAT
M>)\^(BH"`0:0" `$````````!``$``0>0!@`(````Y 0````````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #`````"P`/#@``````"`?\/
M`0```#\``````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P```'@`", $````%````4TU44 ``
M```>``,P`0```!$````!A<')S<VEG0'1A<'(N;W)G```````,`%0P!``````P#^
M#P8`````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !`````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D``````"P! .@$`````"
M`?8/`0````0`````````#$RX!"( '`!@````!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $``'P````%)%.B!;05!24U-)1SHS,3@T72!'05)-24X@-#58
M3 #7!P$%@ ,`#@````,P'!P`4`!4``@`O``8`.@$!(( #``X````#,!P<`% `4
M```8`%0`&`",!`0F `0`A````,#9$0T,P,S$V.44R0T8Q,3@Q-#<T-#0U-3,U

M-# P,# `RP8!`Y &`!0%````2`````"P`C`````````#`"8````````L`*0``````
M`P`V````````! `#D`8&6BMJAVNP$>`' ``0```!\````!213H@6T%04E-324<Z
M,S$X-%T@1T%234E.(#0U6$P```(!<0`!`````%@`````&[=JBVHC' W [B:1'/
M@4=$15-4``````!X`'@P!`````!0```%--5%``````'@`?# $`````2`````;&%R
M9W)I9F9 <W=T82YC;VT`````#```80Y877_@,`!Q#&`@```'@`($ $````!E`````
M2$U-+$E.5$5215-4240Y'04Q,5$A%3D573U!%4D%424Y'1D5!5%5215--14Y4
M24].141!0D]55%1(14Y%5T<T-5A,05)%04Q214%$64].5$A%1U!3,S@H15A#
M15!434%90D542 ```````"`0D0`0```)0#```"0`P```D@4```$Q:1G4+;Z.B_P`*
M`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"``!R0G$1XG-T
M96T"@S.W`N0'$P*#-!+,%,5]"H _",\)V0* "H$-L0M@;F=X,3 S%% +"A5B
M`= @X$AM;2P@"X 3T!>@4Q/ "X!G+AOP(!2P;$$#('1H92!N!]%OBG $D&$;
MLB!F91U ;PAP!Y$'@ (P:0(@"8 @#P&@"& %0!R&1S0U6"Y,'L 7H![ ;!>@
M860.>1SP`Z <@D=04S. ." H97AC904QF0# >6(<H!R";&D<@&!I=6T@8AU
M&V%YJCL<L&\%0',=X2D<$6Y)!" BT"0`81V@''!O_Q[ !! C$")D'[0#\!Q1
M$8#N=B)D(; ;86X'0![ &U'Z;B>P( 6@*# %D!YB)^%G'K #\ 2!('8&\ &0
M9\\<H!TP&5 <H&]F(/8?P#8_"H4*A4P*P".0("WA%+!"-4=%*WP*]"+ "#$X
M, +1:2TQ-)XT#? ,T"\#"UDQ-@J@/P-@$] HP"R@,2<MG3,V_R^G%%$+\C"F
M"H4TOS7/'"#@)TY%5R<?I#1?.+ZO&_$Y[SK+*WQ#!T!L'J'Z1PK ;0N (,(N
MD1RP(Q#/(E %P"DB`9!L:QZA)4%_%Z 34 >0'D$=02;P'!!4OQR1)E8CTB)0
M"H4>\G4>4;\<9 GP'K JI01@`C!H'!!&205 ! `@<&@3L&G^8SS!(+ D\"6Q
M)7 <<Q_ _T/#$8 $(!S!"H4"$AUB)4'_`, ^X"2R'; `D"F1/R,@D,M%URA0
M=!TP8VLC,4GQJQVE(9!42=%"2>$I)3%["H4\P6\'X!>@2<(=8GG7"&$D`!/0
M< 0@=QR0`Z#U(O!K'6(H)/ F\$W!!;!G3E-*(QR <G4F<"(P<-IO&T%S)% *
MA4A)<PVPWF1$@1/0'K %H&T*L 01'PJP*A$<@!U (K!O;VO_!" BP$?1*% #
M8$(@4C=)&/\*A3^"`D !H#S@2;$%(!SP_F0#<!' !)!)&4IV1)(>H4!%6DE.
M2513%&?[0 $$(&8E<!MA"H4+@"+0^0<Q:7H=02#1(-%;-4UQ_PK !4 %L4WC
M33$FQ 1@)O#]'K S/=$]4#S@!" %L01@/Q>@0\(*A4EC`Z!98%1%*%).01_P
M3%F 2$E 54T@0D%48/%9/T;Q7U$3X 6P(+!*(G5P+SO&&@PSSA;!`&80`P`0
M$ `````#`!$0`0```$ `!S#@&W[4H':[`4 `"##@&W[4H':[`1X`/0`!````
.!0```%)%.B ``````MH,`
`
end
```

600. Re: [APRSSIG:3189] RE: GARMIN 45XL

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 20 Jul 1996 23:18:32 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607210418.XAA06573@solar.cs.tamu.edu>
Rendered body type: text/plain

Just a request. There was an attachment claiming to be "winmail.dat" to your question on the GPS 45XL/GPS38 similarities.

Can you and Windoze 9x reach an agreement so that your messages are not MIME encoded most of the time, and that the attachments don't appear?

I enjoy hearing from you when you're on, but I consider uninvited MIME
messages a potential security leak.

73, gerry
n5jxs@tamu.edu

601. javAPRS Update

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 21 Jul 96 00:37:59 -0400
To: <aprssig@tapr.org>
Message-ID: <199607210435.AAA22894@bridge.net>
Rendered body type: text/plain

Thanks to all of you who emailed me about javAPRS. It's nice to see the level of interest in this project.

I've been busy finishing my paper for the Digital Communications Conference, so I haven't done much in the way of new features. You can read the paper at:

<http://www.bridge.net/~sdimse/dcc.html>

The current version fixes a few bugs, and cleans up the display code a bit for faster drawing. I also added a new method of calibrating GIF maps to make it easier to use DeLorme Street Atlas to make the maps. Check out an example of DeLorme maps at:

<http://www.bridge.net/~sdimse/gm2.html>

Stay tuned for further developments...

Steve KO4HD

602. Re: [APRSSIG:3189] RE: GARMIN 45XL

From: ku0g@sprynet.com
Date: Sat, 20 Jul 1996 21:52:46 -0700
To: aprssig@tapr.org
Message-ID: <199607210452.VAA10432@m1.sprynet.com>
Rendered body type: text/plain

>From Terry Gerdes (AB5K) at Garmin the 45XL retains all of the features of the current GPS-45 but adds the newer features found in the GPS-38. There are NO physical changes to the unit otherwise.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

603. Garmin 40 vs 38

From: mcinnis@austin.ibm.com (McInnis)
Date: Sun, 21 Jul 1996 00:43:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9607210543.AA28162@babe01.austin.ibm.com>
Rendered body type: text/plain

I vaguely recall someone saying there was some disadvantage to the Garmin 38 vs the 40. It seems like the 38 lacked the external antenna connector or data connector or something? Does anyone know what if any features the 40 has that are lacking on the 38?
--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.

604. Re: [APRSSIG:3185] Re: Gps Receiver

From: "Paul Christenson [N3EOP]" <christen@codger.physics.duq.edu>
Date: Sun, 21 Jul 1996 05:14:32 -0400
To: aprssig@tapr.org
Message-ID: <31F1F4F8.99A298D@codger.physics.duq.edu>
Rendered body type: text/plain

Gerald J Creager wrote:
>
> I'd strongly recommend the Garmin GPS45. Garmin has apparently introduced and
> update (GPS45XL) and you can get good deals on the base -45.

Anyone know of any place in the San Francisco Bay area that has a good deal on the 45?

Also, since I now have a full day to myself, does anyone have any suggestions as to the places of interest to hams? (Fry's is already on the list.)

605. CW, TALKING, & SINGING APRS

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Sun, 21 Jul 96 08:58 EDT
To: aprssig@tapr.org
Message-ID: <m0uhy5j-000Qk0C@nevets.oau.org>
Rendered body type: text/plain

One night things were getting slow on APRS so two of us in Central Florida begain to explore some of the side features of APRS. We found C W mode to be quite a change and somewhat useful for increasing ones copying speed. I now use it while working on projects. It is nice to be able to monitor any new developments without having to watch the screen all the time.

Then my partner, using MacAPRS, discovered voice mode. He ran that for a couple of days. Then one evening we were experimenting with line lengths and why characters were being lost between dosAPRS, WinAPRS, and MacAPRS. I sent him a string 012345678901234567... etc. 67 characters total from dosAPRS and he received only 47 characters in WinAPRS, and 51 in MacAPRS. Then he sent me a message how funny it sounded at his end with the Apple. It pronounced the number string: ONE SEPTILLION OCTILLIAN.. etc. He later found that it was his TNC set up that was limiting the number of received characters.

Then he found his computer would do singing mode with APRS. In default mode it was singing lines in DOUBLE BARITONE. He found 19 options of singing voices. It was a barrel of laughs.   If anything in the line rhymed, it would come out really funny.

Geoffrey Dick
WA4IKQ
Winter Park, FL
wa4ikq@nevets.oau.org

606. Re: [APRSSIG:3193] Garmin 40 vs 38

From: ku0g@sprynet.com
Date: Sun, 21 Jul 1996 07:39:59 -0700
To: aprssig@tapr.org
Message-ID: <199607211439.HAA24245@m1.sprynet.com>
Rendered body type: text/plain

It's the 40 that lacks the external antenna connection...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

607. GPS speed limits

From: Floyd Rodgers <frodgers@netcom.com>
Date: Sun, 21 Jul 1996 08:32:25 -0700
To: aprssig@tapr.org
Message-ID: <199607211532.IAA08258@netcom10.netcom.com>
Rendered body type: text/plain

Is there a list of speed/altitude limits for the GPS units commercially available. I'm looking for one that will work onboard an airliner specifically with a laptop.
PLEASE send replies to:
frodgers@netcom.com (personal) KC5QBC
frodgers@rotarydrill.com (Business)(214)495-8181
A practicing artist of multiple ended candle burning.

608. Re: [APRSSIG:3195] CW, TALKING, & SINGING APRS

From: Roger Breckon <n8chb@tir.com>
Date: Sun, 21 Jul 1996 16:22:29 +0100
To: aprssig@tapr.org
Message-ID: <31F24B35.108A@tir.com>
Rendered body type: text/plain

cut text here------------------->

Then one evening we were experimenting with line lengths

> and why characters were being lost between dosAPRS, WinAPRS, and MacAPRS.
> I sent him a string 01234567890123 4567... etc. 67 characters total from
> dosAPRS and he received only 47 characters in WinAPRS, and 51 in MacAPRS.

cut text here--------------->
> It pronounced the number string: ONE SEPTILLION OCTILLIAN.. etc. He later
> found that it was his TNC set up that was limiting the number of received
> characters.

cut text here------------>

////////////////////////////////////

hello Geoffrey,

Thank u fer ur report.
Could find out the type of TNC used in the test and what command code
was entered to change number of characters in the line?

Thanks,

de Roger n8chb@tir.com

609. Re: [APRSSIG:3156] Re: APRS Legal Question

From: SARDUCK@aol.com
Date: Sun, 21 Jul 1996 13:03:40 -0400
To: aprssig@tapr.org
Message-ID: <960721130338_160915288@emout12.mail.aol.com>
Rendered body type: text/plain

Jim, I know your experience in this area is extensive and sound right on the mark for rules for hams. Please excuse this question for my naivette. Do I understand correctly that hams are second users of 2 meter and the government is primary? I thought I picked that up in another discussion, darned if I remember where... Then if the NWS entered a broadcast with there id, could that not be primary use?

Personally, if the information is relevant and works within the parameters of the information system APRS users have set up, I welcome it. Sure, sure, I'm not speaking as a legal point, and I'm tempting fate, here, but unlike, say, sport scores - weather has a broad base of benefit. Some time ago, several of our local group (NIAN) and folks in Iowa were talking to NWS about uplinking direct data but a stumbling block was converting the format direct from their data stream... I've lost track of this as time has been to scare to attend meeting and events :(

Dan Kasberger, N9XHP, Chicago!

btb - If you are planning to attend the ARRL convention in September, here in our nortern Illinois area, it would be wonderful to know if you are interested in APRS. There is a fine network in the region and we'd like to show it off and appreciate comments from all the experienced folks that might be visiting.

In a message dated 96-07-18 19:39:36 EDT, you write:

>No, Kevin. That would mean that any ID is acceptable which is NOT the case.
>A
>VALID identification contains the FCC-ISSUED CALLSIGN every 10 minutes.
>Tactical calls are legal when used in conjunction with a PROPER ID.
>
>Best 73,
>Jim Duncan, KU0G

610. Re: [APRSSIG:3197] GPS speed limits

From: ku0g@sprynet.com
Date: Sun, 21 Jul 1996 10:29:27 -0700
To: aprssig@tapr.org
Cc: frodgers@netcom.com
Message-ID: <199607211729.KAA13779@m1.sprynet.com>
Rendered body type: text/plain

Garmin non-aviation units have a 99 KNOT speed limit.

FYI: If you operate a GPS unit on board a commercial airliner you can expect to be told to turn it off or possibly have it confiscated! Operation of a GPS receiver can cause SERIOUS interference to the navigational equipment on the

airliner!!! In light of the recent TWA disaster, it's a sure bet that anyone
found attempting to operate radios, laptops, GPS's and so forth will certainly
be questioned!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

NOTE: This message was sent in response to Mr. Rodgers' request for information
on GPS Speed Limits and is CC'd to the SIG for "Informational Purposes."

---

611. RE: [APRSSIG:3196] Re: Garmin 40 vs 38

From: Larry Griffin <largriff@swta.com>
Date: Sun, 21 Jul 1996 16:03:39 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB771E.7D5D2080@larry.onramp.net>
Rendered body type: text/plain

Both the Garmin 40 & 38 have a built-in antenna - no external connector.
The 40 has essentially the same operating features as the 45.
But the newer 38 has a few additional operating features which interestingly are what has been added to
the newly introduced 45XL.

Larry - AB5GE

---

612. Re: [APRSSIG:3200] Re: GPS speed limits

From: rwf <rwf@mindspring.com>
Date: Sun, 21 Jul 1996 18:00:06 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960721220006.006f3f8c@mindspring.com>
Rendered body type: text/plain

Recently, KU0G wrote:

>Garmin non-aviation units have a 99 KNOT speed limit.

The 10 Garmin Trackpack 35 units I am using do *not*, and they are non-aviation

>
>FYI: If you operate a GPS unit on board a commercial airliner you can
expect to
>be told to turn it off or possibly have it confiscated! Operation of a GPS
>receiver can cause SERIOUS interference to the navigational equipment on the
>airliner!!! In light of the recent TWA disaster, it's a sure bet that anyone
>found attempting to operate radios, laptops, GPS's and so forth will certainly
>be questioned!

Just fly Delta. It is perfectly OK, and allowed in their in-flight mag
rules list.

What is SERIOUS interference? I have operated airmobile with both Garmin
and Motorola, and the FAA just put portable blue boxes with Gel-Cell, GPS ,
TNC, and Motorola radio in all the local helicopters for the Olympics. The
GPS is a rockwell. I hope the SERIOUS interference doesn't cause problems
with those 110 aircraft.

Ralph

---

613. Re: [APRSSIG:3199] Re: APRS Legal Question

From: ku0g@sprynet.com
Date: Sun, 21 Jul 1996 15:36:39 -0700
To: aprssig@tapr.org
Message-ID: <199607212236.PAA25764@m1.sprynet.com>
Rendered body type: text/plain

On Sun, 21 Jul 1996, SARDUCK@aol.com wrote:
<snip>
Do I understand correctly that hams are second users of 2 meter and the
government is primary?

NO, ABSOLUTELY NOT!

>I thought I picked that up in another discussion, darned if I
>remember where...

WHAT YOU PROBABLY REMEMBER WAS THE BIG FRACUS ABOUT SIX WEEKS AGO ABOUT THE
PROPOSAL TO GRAB 144 AND 440 FOR LOW-EARTH-ORBIT SATELLITE SERVICE...

Then if the NWS entered a broadcast with there id, could
>that not be primary use?

YES, BUT THIS IS NOT THE CASE ON 144-148 MHz...

>btb - If you are planning to attend the ARRL convention in September, here in
>our nortern Illinois area, it would be wonderful to know if you are
>interested in APRS.

I'M ALREADY WELL AWARE OF NIAN AND HOPE TO BE ABLE TO ATTEND THE CONVENTION!
WHAT ARE THE DATES? KARLA AND I WILL BE IN CHICAGOLAND OVER LABOR DAY
WEEKEND...WATCH FOR KU0G-9 (AMTRAK MOBILE ON APRS)!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

614. Re: [APRSSIG:3201] Re: Garmin 40 vs 38

From: Rudy Benner <bennerr@onlink.net>
Date: Sun, 21 Jul 1996 19:09:47 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960721230947.2297cb0e@mail.onlink.net>
Rendered body type: text/plain

The 40 has a connector for an external antenna. The 38 does not.
At 16:07 21/7/96 -0500, you wrote:
>Both the Garmin 40 & 38 have a built-in antenna - no external connector.
>The 40 has essentially the same operating features as the 45.
>But the newer 38 has a few additional operating features which
interestingly are what has been added to the newly introduced 45XL.
>
>Larry - AB5GE
>
>
>

Rudy Benner, Timmins Ontario
Internet @   bennerr@onlink.net, ve3bdr@amsat.org

---

615. The Invisible GPS Tracker

From: BordingK@aol.com
Date: Sun, 21 Jul 1996 19:18:29 -0400
To: aprssig@tapr.org
Message-ID: <960721191827_438891376@emout19.mail.aol.com>
Rendered body type: text/plain

Here's the problem:

My PK-12 tracker, which I finally got on the air today, does not show up on my WinAPRS station. I've also not seeing any other stations on my home APRS, but up until now I've blamed that on a lack of APRS activity in the immediate Jacksonville area and no available digis within range of my hidden antenna (homeowners association, you know!),   I'm probably doing something really stupid, but I'm stumped! So I've turned to the kindly, and always sensitive, members of the SIG!

Home station puts out good power and I can hear my packets all around the east side of town. WinAPRS is set up as VHF relay, wide.

---

616. The Invisible GPS Tracker

From: BordingK@aol.com
Date: Sun, 21 Jul 1996 19:16:07 -0400
To: aprssig@tapr.org
Message-ID: <960721191605_438891417@emout13.mail.aol.com>
Rendered body type: text/plain

Here's the problem:

My PK-12 tracker, which I finally got on the air today, does not show up on my WinAPRS station. I've also not seeing any other stations on my home APRS, but up until now I've blamed that on a lack of APRS activity in the immediate Jacksonville area and no available digis within range of my hidden antenna (homeowners association, you know!),   I'm probably doing something really stupid, but I'm stumped! So I've turned to the kindly, and always sensitive, members of the SIG!

Home station puts out good power and I can hear my packets all around the east side of town. WinAPRS is set up as VHF relay, wide.

The following output from the tracker was captured on home station running Windows Terminal as I drove around the 'hood.

```
KF4COH-9*>RELAY>APRS:
$GPGLL,3022.704,N,08130.312,W,222743.801,A
$GPVTG,330.4,T,334.2,M,15.3,N,28.3,K
KF4COH-9*>RELAY>APRS:
$GPGLL,3022.750,N,08130.368,W,222751.096,A
$GPVTG,317.4,T,321.1,M,14.8,N,27.4,K
KF4COH-9*>RELAY>APRS:
$GPGLL,3022.688,N,08130.461,W,222803.754,A
$GPVTG,249.7,T,253.4,M,15.6,N,28.8,K
```

I'm running a RS HTX202 HT, PK-12, Magellan GPS as the tracker.

Any assistance will be appreciated.
73s de KF4COH
Ken

617. Re: [APRSSIG:3201] Re: Garmin 40 vs 38

From: Mike Griffith <griffith@kvoa.com>
Date: Sun, 21 Jul 1996 16:35:54 -0700
To: aprssig@tapr.org
Message-ID: <31F2BEDA.68EC@kvoa.com>
Rendered body type: text/plain

Larry Griffin wrote:
>
> Both the Garmin 40 & 38 have a built-in antenna - no external connector.
> The 40 has essentially the same operating features as the 45.
> But the newer 38 has a few additional operating features which interestingly are what has been added to the newly introduced 45XL.
>
> Larry - AB5GE

FYI - The Garmin 40 does have an external connector for the antenna. It is the Garmin specific connector on the back of the unit.

-Mike
--
```
==================================================
Michael Griffith        WebMaster         KVOA-TV4
griffith@kvoa.com  http://www.kvoa.com  Tucson, AZ
======== When The News Breaks.. We Fix It. =======
```

618. Re: [APRSSIG:3202] Re: GPS speed limits

From: Alan Biddle <APBIDDLE@worldnet.att.net>
Date: Mon, 22 Jul 1996 00:33:31 +0000
To: aprssig@tapr.org
Message-ID: <2.2.32.19960722003331.00688f5c@postoffice.worldnet.att.net>
Rendered body type: text/plain

Ralph,

There is a rather large difference in placing known equipment in the cockpit, or under the control of the cockpit, as opposed to putting completely unknown and uncontrolled equipment in the airplane/'copter. I personally have had two experiences, one in an MD-83, the other in an B-767, in which a passenger's "passive" toy produced measurable, verifiable, interference to the navigation equipment. Both qualify as modern, more or less, airplanes.

The chance of trouble is small, but the magnitude of the difficulty can be very, very large if it does occur. Smoking hole in the ground type of problems.

However, if the airline allows the use of your "whatever," go ahead. Just remember that the Ops Specs for carriers is not entirely consistent, and what may be approved on one carrier may be a $10k fine on another.

I once made the mistake of getting involved in this issue on Compuserve, and though I had learned my lesson. Guess not.

Alan

619. Re: [APRSSIG:3205] The Invisible GPS Tracker

From: rbost@itexas.net (Roy Bost)
Date: Sun, 21 Jul 1996 20:06:59 -0500
To: <aprssig@tapr.org>
Message-ID: <19960722010804699.AAA75@rbost.itexas.net>
Rendered body type: text/plain

```
Try a reset of the TNC.  I have the same peoblem with WinAprs and my
PK-96.  Sometimes re-booting the program will do the trick.  The latest
version of the program doesn't seem be as prone to do this.
```

---

620. Re: [APRSSIG:3206] The Invisible GPS Tracker

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 21 Jul 1996 22:02:53 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9607212137.A20156-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
What you have is the header on a different line from the data.

Try the command 'bbsmsgs' and set it to the opposit state (on/off).  This
is a very poorly documented command with the PK12.  It has to do with
'TAPR style messages'.  KC4NMY and myself discovered this while attempting
to get the Miami Hurricane Center up and running on VHF.

Don't forget to set your HEADerlin to OFF.  That is the obvious change,
of course.
73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Sun, 21 Jul 1996 BordingK@aol.com wrote:

> Here's the problem:
>
> My PK-12 tracker, which I finally got on the air today, does not show up on
> my WinAPRS station.  I've also not seeing any other stations on my home APRS,
> but up until now I've blamed that on a lack of APRS activity in the immediate
> Jacksonville area and no available digis within range of my hidden antenna
> (homeowners association, you know!),    I'm probably doing something really
> stupid, but I'm stumped!  So I've turned to the kindly, and always sensitive,
> members of the SIG!
>
> Home station puts out good power and I can hear my packets all around the
> east side of town.  WinAPRS is set up as VHF relay, wide.
>
> The following output from the tracker was captured on home station running
> Windows Terminal as I drove around the 'hood.
>
>
> KF4COH-9*>RELAY>APRS:
> $GPGLL,3022.704,N,08130.312,W,222743.801,A
> $GPVTG,330.4,T,334.2,M,15.3,N,28.3,K
> KF4COH-9*>RELAY>APRS:
> $GPGLL,3022.750,N,08130.368,W,222751.096,A
> $GPVTG,317.4,T,321.1,M,14.8,N,27.4,K
> KF4COH-9*>RELAY>APRS:
> $GPGLL,3022.688,N,08130.461,W,222803.754,A
> $GPVTG,249.7,T,253.4,M,15.6,N,28.8,K
>
> I'm running a RS HTX202 HT, PK-12, Magellan GPS as the tracker.
>
> Any assistance will be appreciated.
> 73s de KF4COH
> Ken
>
```

---

621. Re: [APRSSIG:3202] Re: GPS speed limits

From: ku0g@sprynet.com
Date: Sun, 21 Jul 1996 20:12:54 -0700
To: aprssig@tapr.org
Message-ID: <199607220312.UAA10908@m1.sprynet.com>
Rendered body type: text/plain

Ralph, how about posting the list of what you can do on Delta flights?!?!?
Would they allow us to run air mobile APRS??? It would sure be neat!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

622. Re: [APRSSIG:3196] Re: Garmin 40 vs 38

From: mcinnis@austin.ibm.com (McInnis)
Date: Sun, 21 Jul 1996 22:34:48 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9607220334.AA19718@babe01.austin.ibm.com>
Rendered body type: text/plain

>
> It's the 40 that lacks the external antenna connection...
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com
>
>

The GPS 40 has an external antenna connector, but it's some small
connector, not the BNC that the GPS45 has. It's on the back of the unit
and could easily be mistaken for a mounting screw, etc....

It's called a "BMX" connnector or something similar.

--
Mickey McInnis - mcinnis@austin.ibm.com

--
All opinions expressed are my own opinions, not my company's opinions.

---

623. Re: [APRSSIG:3206] The Invisible GPS Tracker

From: Mark Sproul <sproul@ap.org>
Date: Mon, 22 Jul 1996 09:21:51 -0400
To: aprssig@tapr.org
Cc: BordingK@aol.com
Message-ID: <v03007605ae1930545698@[165.1.27.20]>
Rendered body type: text/plain

>Here's the problem:
>
>My PK-12 tracker, which I finally got on the air today, does not show up on
>my WinAPRS station. I've also not seeing any other stations on my home APRS,
>but up until now I've blamed that on a lack of APRS activity in the immediate
>Jacksonville area and no available digis within range of my hidden antenna
>(homeowners association, you know!), I'm probably doing something really
>stupid, but I'm stumped! So I've turned to the kindly, and always sensitive,
>members of the SIG!
>
>Home station puts out good power and I can hear my packets all around the
>east side of town. WinAPRS is set up as VHF relay, wide.
>
>The following output from the tracker was captured on home station running
>Windows Terminal as I drove around the 'hood.
>
>

```
>KF4COH-9*>RELAY>APRS:
>$GPGLL,3022.704,N,08130.312,W,222743.801,A
>$GPVTG,330.4,T,334.2,M,15.3,N,28.3,K
>KF4COH-9*>RELAY>APRS:
>$GPGLL,3022.750,N,08130.368,W,222751.096,A
>$GPVTG,317.4,T,321.1,M,14.8,N,27.4,K
>KF4COH-9*>RELAY>APRS:
>$GPGLL,3022.688,N,08130.461,W,222803.754,A
>$GPVTG,249.7,T,253.4,M,15.6,N,28.8,K
```

>
>I'm running a RS HTX202 HT, PK-12, Magellan GPS as the tracker.
>
>Any assistance will be appreciated.
>73s de KF4COH
>Ken

There is a mode switch that has to be turned off, it should read as follows, keith will respond later today with the right mode switch for the TNC

```
>KF4COH-9*>RELAY>APRS:$GPGLL,3022.704,N,08130.312,W,222743.801,A
>KF4COH-9*>RELAY>APRS:$GPGLL,3022.750,N,08130.368,W,222751.096,A
```

etc

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

624. Re: [APRSSIG:3211] Re: GPS speed limits

From: ko6xs@ko6xs.ampr.org
Date: Mon, 22 Jul 96 06:31:06 PDT
To: aprssig@tapr.org
Message-ID: <3012@ko6xs.ampr.org>
Rendered body type: text/plain

Maybe I missed the relevent part of the discussion, but I thought passengers are not allowed to operate even some passive electronic equipment during flights. So how is it possible to chart the progress of a commercial flight that one is on? Furhermore, is it even physically possible to read enough satellites through the small airplane wndows to get a lock?
73s de Jon Kaplan

```
                               □□□
                              (□ □)
□□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
□ □□□  TNX     73...de...ko6xs, John       □□□ □
□ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
□ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
□ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

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625. Re: [APRSSIG:3175] RE: Yet another ARPS usage

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 22 Jul 1996 09:12:28 -0500
To: <aprssig@tapr.org>
Message-ID: <199607221414.JAA23150@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> On Friday, 19-July-1996, Scott Ratchford, KC5JGV, presented a most
> interesting discussion of using APRS, GPS, DFjr, etc., to find cable
> "leaks".
>
> MOST interesting, Scott. How about some more details of your setup and
> operating techniques?

My setup is a Grid 486 Laptop, Garmin 55 AVD GPS, Radio Shack Pro-2026 Scanner, MFJ Data Radio, Kantronics KPC-3, Agrelo Engr. DFjr.

>In particular, how does the DFjr work with the multiple cable leaks? Looks like it might get >confused, since all these signals are identical, just coming from different places. Wouldn't that >just look like a severe case of multipath?

Using the DFjr to find multiple leaks on the same frequency, is not that difficult. The trick is listening to the signal. Initially, yes, there is multi-path. But you just watch and listen and the signal direction becomes quuite clear! You can also increase the threshhold on the DFjr, which help in avoiding false signals.

>Also, what kind of receiver were you using for the DFjr, and what frequency did you listen to?

I was using the Radio Shack Pro-2026 Scanner on 145.250 and 144.000 with the DFjr. And the HTX-202 HT for "close proximity" work.

```
>
> Thanks!   73  Claude Head
>               K5DTN
>               chead@exame2.dseg.ti.com
```

I hope this helps. If anything maybe some of our fellow APRSers will get oout and try the same thing. I am always looking for new and unusall uses for our hobby and this is just one of them that can be both benificial and educational.

Have Fun!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

---

626. Re: [APRSSIG:3215] RE: Yet another ARPS usage

From: Dave Kaplan <dkaplan@pionet.net>
Date: Mon, 22 Jul 1996 09:38:03 -0500
To: aprssig@tapr.org
Message-ID: <9607221438.AA09944@ELWOOD.pionet.net>
Rendered body type: text/plain

At 09:20 AM 7/22/96 -0500, you wrote:
<snip>

```
>>Also, what kind of receiver were you using for the DFjr, and what
>frequency did you listen to?
>
>I was using the Radio Shack Pro-2026 Scanner on 145.250 and 144.000 with
>the DFjr. And the HTX-202 HT for "close proximity" work.
>
>
```

How does listening on these frequencies pick up cable leaks?

Dave

---

627. APRS and Cave Radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jul 1996 11:15:11 -0400 (EDT)
To: gibson@mcrosolv.demon.co.uk
Cc: Mike Tyrrell <100321.1327@compuserve.com>, aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960722104459.244A-100000@arctic>
Rendered body type: text/plain

If anyone knows how to get this to the Cave Radio and Electronics group at http://www.Sat.dundee.ac.uk/~arb/creg, They might find it interesting....

Dear Mike Bedford, G4AEE:

I thoroughly enjoyed your QST article about Cave radio. As an avid teenage spelunker 30 years ago, I can identify with the sport. As the author of the very popular APRS packet tracking system, however, I wonder if you have explored the advantages of packet radio as a means to extend the range of VHF/UHF radio via multiple hops?

Although APRS is normally based on GPS position reporting, its map display is ideal for tracking underground teams in the cave! (A sketch of the cave passages can be easily prepared in just a few minutes using a mouse. Absolute lat/long accuracy is not required since GPS could never be used even an inch underground). As long as the sender places himself on the map approximately by cursor movement, all receving stations will see him at that location! Even positions in uncharted passages can be reported by estimating your location relative to the known sketch.

The advantage of using packet is based on one fact.... That you can EXTEND VHF/UHF radio ranges by simply dropping packet digipeaters along the cave route as you pregress inward. These digipeaters can relay VHF or UHF communicatinos over and over again (up to 8 times)! DIGIPEATERS can be built with a single HT and tiny packet TNC. Running on AA cells each digipeater could last for a few days and be packaged into less than a 1 liter volume. APRS uses an effecient connectionless protocol and GENERIC callsign ALIASES so that the cave units do NOT have to remember the callsigns of the digipeaters or how to construct the path!   Simply assign the generic callsign of DIGI to all digipeaters. Cavers simply address all packets via the path of DIGI,DIGI,DIGI,etc

If you were able to get even 1/4 mile between digipeaters, then you could use this system for up to two miles inward! Here is how I would do it:

1) Set a digipeater in the mouth of the cave which couples well, both into the main cave passage and well out to the above ground team.

2) Proceed into the cave. You can "ping" the digi at any time. When you begin to see the signal strength get low and when you make a major path change, drop a digi (I would try to hang it in the center of the passage entrance).

3) Repeat step 2 as you proceed. After each digi is installed, add one digi hop to your transmitted packet...

4) Add a digipeater on a nearby hilltop to extend the comms link back to town for arm-chair tracking by loved ones back home..

5) If the above ground comm station is at the entrance, omit the cave-mouth and hilltop digi to reduce the number of hops. Use a BEAM antenna in the mouth pointed inward.

THis APRS generic digipeating is ideal in caves because not more than a few digis will hear each other at any time. We have found that if you have many hops and each digi hears 3 or more other digis, then a packet launched to DIGI,DIGI,DIGI,DIGI could bounce around dozens of times! This is only a problem on an above ground network trying to support dozens of users. But since you will only have two or a few stations underground, even if a packet is heard a dozen times, it will not disrupt comms.

APRS works on un-connected packets. It ignores all of the duplicate copies. These multiple hops and duplicates would not work in a CONNECTED protocol. If you are unfamiliar with APRS, find someone who is....

THe only disadvantage is carrying along the laptop computer in the mud!

Areas for research:

1) How far does VHF/UHF go in a cave?
2) Is there a waveguide effect?
3) What is the best way to couple energy from one main passage into a smaller passage?
4) Can passive resonant elements be used to couple energy between main and smaller passages.
5) What is the ideal portable APRS terminal? The HP palmtops are rumored to work fine with APRS...

The advantage of APRS and packet, is that NO UNIQUE hardware needs to be developed. Everything is available off the shelf!

de wb4apr@amsat.org

---

628. Re: [APRSSIG:3129] Re: New APRSwx program

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jul 1996 12:01:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960722115933.244G-100000@arctic>
Rendered body type: text/plain

On Thu, 18 Jul 1996, Kevin Heyboer wrote:

> Great idea Bob....but one question before I download it....is this
> surface wind or upper level wind and what is the source of the data?

APRSdos REPLY COMMENT: The source data is simply the APRS stations displayed on the map. All this routine does is try to draw a smooth wind flow contours over the map based on the few data points from APRS reporting stations. Therefore it is presumable surface winds...

de wb4apr@amsat.org

---

629. Re: [APRSSIG:3094] Re: <alt> S ...wide help on aprs 76f ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jul 1996 12:25:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960722121208.244K-100000@arctic>

Rendered body type: text/plain

On Thu, 18 Jul 1996, someone wrote concerning APRS dropping
the ability to set the APRS station alias to anything but RELAY:

> This is a bit heavy handed....   dictating the procedure that
> YOU feel is the only way the system should be run.
> I will not go out and purchase TNCs for any of the sites I have control
> of, and neither do I think any one else should.   A high site digipeater
> need only have a single alias. To demand that we 'upgrade' because of
> your thinking we have gone 'out of control' is very heavy handed.

APRSdos REPLY COMMENT: My deleting the ability to set a home
station to an alias of WIDE within the program will not affect
your remote digipeaters at all. You may set their alias to anything you
want. But the standard is to have all WIDE area digipeaters also have
the secondary alias of RELAY too so that mobiles using the standard path
of RELAY,WIDE will be heard when in the vicinity of that digi...

de wb4apr@amsat.org

630. Re: [APRSSIG:3157] Fwd: <alt> S ...wide help on aprs 76f ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jul 1996 12:39:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960722122817.244L-100000@arctic>
Rendered body type: text/plain

On Thu, 18 Jul 1996 KD4EMI@aol.com wrote:

> Ive tried to explain it to him why this is wrong ...can someone who is more
> prose oriented please assist... I told him that I use two different
> digipeater paths when I am mobile...

> APRS VIA RELAY,WIDE
> APRS VIA WIDE,WIDE

APRSdos REPLY COMMENT: You only have to use both of these because some areas
of the country still do not have all of their WIDES converted to respond to
both RELAY and WIDE. Whereever there are dual alias TNC's then mobiles only
need to use APRS VIA RELAY,WIDE and they will be heard whether they are near
a WIDE or if they are on the fringe and just near any other APRS station
(RELAY).

de wb4apr@amsat.org

631. Re: [APRSSIG:3161] WX-APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jul 1996 12:43:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960722124131.244M-100000@arctic>
Rendered body type: text/plain

On Thu, 18 Jul 1996, Mike Walker wrote:

> I just started playing with the WXaprs and nice idea on the winds aloft
> display.

APRSdos REPLY COMMENT: It *is* Winds aloft in the WIN/MAC versions if
you have access to winds aloft data. It is just an artificial estimate
of wind flow on the ground if you are usnig APRSwx.

P.S. I have a report that APRSwx has some bugs in trying to configure it
for WX operation with your WX station. SO if you dont have it yet, dont
get it until I look into this bug...

de wb4apr@amsat.org

632. (no subject)

From: NTMail@DGPS.COM
Date: Mon, 22 Jul 96 10:25:04 -0100 (PDT)
To: ronhaley@DGPS.COM
Message-ID: <199607221729.MAA13351@tapr.org>
Rendered body type: text/plain

Your message headed:
(no subject)
has been delivered to ronhaley@dgps.com.

This receipt does not guarantee that the mail has been read.

---

633. Re: [APRSSIG:3216] RE: Yet another ARPS usage

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 22 Jul 1996 12:35:17 -0500
To: <aprssig@tapr.org>
Message-ID: <199607221739.MAA26924@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
----------
> From: Dave Kaplan <dkaplan@pionet.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3216] RE: Yet another ARPS usage
> Date: Monday, July 22, 1996 9:38 AM
>
> At 09:20 AM 7/22/96 -0500, you wrote:
> <snip>
>
>
> >>Also, what kind of receiver were you using for the DFjr, and what
> >frequency did you listen to?
> >
> >I was using the Radio Shack Pro-2026 Scanner on 145.250 and 144.000
with
> >the DFjr. And the HTX-202 HT for "close proximity" work.
> >
> >
> How does listening on these frequencies pick up cable leaks?
>
> Dave

Cable channel 18 is key here. Use 145.250 to find the leaks. Channel 17
works out on 144.000. This is but one way. Another is 421.25 mhz that is
channel 59 ro 60, which is also one of the ATV frequencies. You can also
use a portable tv, though less relliable, and locate the leaks.

I have a chart around here somewhere, and will send it up asap.
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

634. Re: [APRSSIG:3213] Re: The Invisible GPS Tracker

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 22 Jul 1996 12:45:12 -0500
To: aprssig@tapr.org
Message-ID: <v02140b01ae196e27d8aa@[199.1.11.175]>
Rendered body type: text/plain

```
>>Here's the problem:
>>
>>KF4COH-9*>RELAY>APRS:
>>$GPGLL,3022.704,N,08130.312,W,222743.801,A


HEADERLN  OFF  to get

KF4COH-9*>RELAY>APRS:$GPGLL,3022.704,N,08130.312,W,222743.801,A


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

635. Re: [APRSSIG:3216] RE: Yet another ARPS usage

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 22 Jul 1996 12:51:25 -0500
To: aprssig@tapr.org
Message-ID: <v02140b02ae196fb63642@[199.1.11.175]>
Rendered body type: text/plain

```
>How does listening on these frequencies pick up cable leaks?
>


CHAN   BROADCAST   CABLE STD   CABLE HRC   CABLE IRC
```

```
  1         ---         ---       72.00       73.25
  2       55.25       55.25       54.00       55.25
  3       61.25       61.25       60.00       61.25
  4       67.25       67.25       66.00       67.25
  5       77.25       77.25       78.00       79.25
  6       83.25       83.25       84.00       85.25
  7      175.25      175.25      174.00      175.25
  8      181.25      181.25      180.00      181.25
  9      187.25      187.25      186.00      187.25
 10      193.25      193.25      192.00      193.25
 11      199.25      199.25      198.00      199.25
 12      205.25      205.25      204.00      205.25
 13      211.25      211.25      210.00      211.25
 14 A    471.25      121.25      120.00      121.15
 15 B    477.25      127.25      126.00      127.15
 16 C    483.25      133.25      132.00      133.15
 17 D    489.25      139.25      138.00      139.15
 18 E    495.25      145.25      144.00      145.15   #### here #####
 19 F    501.25      151.25      150.00      151.15
 20 G    507.25      157.25      156.00      157.15
 21 H    513.25      163.25      162.00      163.15
 22 I    519.25      169.25      168.00      169.15
 23 J    525.25      217.25      216.00      217.25
 24 K    531.25      223.25      222.00      223.25
 25 L    537.25      229.25      228.00      229.25
 26 M    543.25      235.25      234.00      235.25
 27 N    549.25      241.25      240.00      241.25
 28 O    555.25      247.25      246.00      247.25
 29 P    561.25      253.25      252.00      253.25
 30 Q    567.25      259.25      258.00      259.25
 31 R    573.25      265.25      264.00      265.25
 32 S    579.25      271.25      270.00      271.25
 33 T    585.25      277.25      276.00      277.25
 34 U    591.25      283.25      282.00      283.25
 35 V    597.25      289.25      288.00      289.25
 36 W    603.25      295.25      294.00      295.25
 37 AA   609.25      301.25      300.00      301.25
 38 BB   615.25      307.25      306.00      307.25
 39 CC   621.25      313.25      312.00      313.25
 40 DD   627.25      319.25      318.00      319.25
 41 EE   633.25      325.25      324.00      325.25
 42 FF   639.25      331.25      330.00      331.25
 43 GG   645.25      337.25      336.00      337.25
 44 HH   651.25      343.25      342.00      343.25
 45 II   657.25      349.25      348.00      349.25
 46 JJ   663.25      355.25      354.00      355.25
 47 KK   669.25      361.25      360.00      361.25
 48 LL   675.25      367.25      366.00      367.25
 49 MM   681.25      373.25      372.00      373.25
 50 NN   687.25      379.25      378.00      379.25
 51 OO   693.25      385.25      384.00      385.25
 52 PP   699.25      391.25      390.00      391.25
 53 QQ   705.25      397.25      396.00      397.25
 54 RR   711.25      403.25      402.00      403.25
 55 SS   717.25      409.25      408.00      409.25
 56 TT   723.25      415.25      414.00      415.25
 57 UU   729.25      421.25      420.00      421.25
 58 VV   735.25      427.25      426.00      427.25
 59 WW   741.25      433.25      432.00      433.25
 60 XX   747.25      439.25      438.00      439.25
 61 YY   753.25      445.25      444.00      445.25
 62 ZZ   759.25      451.25      450.00      451.25
 63      765.25      457.25      456.00      457.25
 64      771.25      463.25      462.00      463.25
 65      777.25      469.25      468.00      469.25
 66      783.25      475.25      474.00      475.25
 67      789.25      481.25      480.00      481.25
 68      795.25      487.25      486.00      487.25
 69      801.25      493.25      492.00      493.25
 70      807.25      499.25      498.00      499.25
 71      813.25      505.25      504.00      505.25
 72      819.25      511.25      510.00      511.25
 73      825.25      517.25      516.00      517.25
 74      831.25      523.25      522.00      523.25
 75      837.25      529.25      528.00      529.25
 76      843.25      535.25      534.00      535.25
 77      849.25      541.25      540.00      541.25
 78      855.25      547.25      546.00      547.25
 79      861.25      553.25      552.00      553.25
```

80	867.25	559.25	558.00	559.25
81	873.25	565.25	564.00	565.25
82	879.25	571.25	570.00	571.25
83	885.25	577.25	576.00	577.25
84	---	421.25	420.00	421.25
85	---	427.25	426.00	427.25
86	---	433.25	432.00	433.25
87	---	439.25	438.00	439.25
88	---	445.25	444.00	445.25
89	---	451.25	450.00	451.25
90	---	457.25	456.00	457.25
91	---	463.25	462.00	463.25
92	---	469.25	468.00	469.25
93	---	475.25	474.00	475.25
94	---	481.25	480.00	481.25
95	---	91.25	90.00	91.25
96	---	97.25	96.00	97.25
97	---	103.25	102.00	103.25
98	---	109.25	108.00	109.25
99	---	115.25	114.00	115.25
CHAN	BROADCAST	CABLE STD	CABLE HRC	CABLE IRC

HRC = Harmonic related carrier
IRC = Interval related carrier

Color subcarrier is 3.579545 MHz above video given
Audio subcarrier is 4.500000 MHz above video given

Exact color subcarrier is computed by 5*63/88 MHz
This is the formula specified by the FCC in part 73

Low VHF 54-88 MHz
Midband 88-174 MHz
High VHF 174-216 MHz
Superband 216-300 MHz
Hyperband 300-468 MHz
Ultraband 468-648 MHz
UHF 470-806 MHz (formerly 470-890)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

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636. Re: Caving and Radios

From: Will Flor <willf@rrgroup.com>
Date: Mon, 22 Jul 1996 12:51:57 -0500
To: aprssig@tapr.org
Message-ID: <31F3BFBD.673A@rrgroup.com>
Rendered body type: text/plain

Bob APR wrote:

> Areas for research:
>
> 1) How far does VHF/UHF go in a cave?

Line of sight, IOW not very far.

> 2) Is there a waveguide effect?

As far as the walls of the cavern are concerned, no. If you
were in a copper mine, there might be. ;-)

> 3) What is the best way to couple energy from one main passage into a smaller passage?

With a wire, strung between the two.

> 4) Can passive resonant elements be used to couple energy between main and smaller passages.

Yes; AFAIK this is the standard way of doing VHF cave radio. Rig a wire from the
entrance through your route. Splice other wires onto it for side passages. I've
never heard of anyone needing to use a repeater, digi or otherwise.

BTW, there are commercially-available caving and climbing ropes
with cables in them specifically for this purpose.

73 de KB9JTT, APRS user and spelunker

---

637. WIDES and RELAYS only

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 22 Jul 1996 17:58:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960722171428.11966A-100000@arctic>
Rendered body type: text/plain

This weekend driving to the beach, I passed an abandoned lookout tower.
As I pondered building a solar powered DIGI there to provide mobile
coverage, I realized why we may be having trouble making people
understand the difference between a WIDE-RELAY and a RELAY digipeater...

Since the nearest WIDE is over 20 miles away we DONT NEED ANOTHER WIDE.
All we need is a digi to fill in this area for mobiles. Clearly this
new digi at 100 Feet HAAT would not be a WIDE, it would be a RELAY only
digipeater. This way, mobiles transiting the area using the standard path
of RELAY,WIDE would get picked up by this digi and relayed onward to the
existing WIDEs.

What I realized is that most people going to the expense of obtaining
and installing over $500 worth of radio equipment would think that this
effort must cleary be worthy of a WIDE digipeater. They would want it to
show as a Green star like all the other DIGIs...

..... WRONG .....

This digi should be just a DOT. I would use the "/" character. It would
just sit there on the map as a little dot with the callsign of W3XYZ. It
would digipeat packets addressed to its own callsign W3XYZ and to RELAY
(as do all APRS stations).

. . . . THATs IT ! . . . .

Yes, it is installed as a stand alone digipeater, Its on top of a very
tall tower, it looks like a digipeater installation, BUT IT IS JUST LIKE
ANY OTHER APRS STATION. It relays position reports from mobiles using

the path of VIA RELAY,WIDE... (just like any other APRS home station)...

* BUT * since it has no need to be a WIDE (because it is too close to
the main backbone WIDES), and since it is not furthering the propogation
of WIDE packets (other than out to sea in the Atlantic), it just does not
need to be a WIDE. It will clearly be seen to have reasonably wide area
coverage when ever you do a MAPS-PLOTS-POWER command, and it will provide
mobile coverage in an area where there are no WIDES and *no* 24 hour home
stations. BUT IT DOES NOT NEED TO BE A WIDE!

Making it a WIDE would potentially cut overall channel throughput in the
area by a factor of TWO (since it would repeat every WIDE packet that it
hears). Not only would this gain nothing, it would SIGNIFICANTLY reduce
channel capacity. But as a RELAY only station (Like every other APRS
station in the area) it does provide a vital role for mobiles...

---

638. Re: [APRSSIG:3227] WIDES and RELAYS only

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 22 Jul 1996 17:28:26 -0500
To: aprssig@tapr.org
Message-ID: <v02120d01ae19afe068b1@[138.87.2.109]>
Rendered body type: text/plain

Now, here is a thinking man thinking. Good thoughts Bob! "vital role for
mobiles" Keep it up.

On 22 Jul 1996 16:58:03 WB4APR said:

snip

>* BUT * since it has no need to be a WIDE (because it is too close to
>the main backbone WIDES), and since it is not furthering the propogation

snip

>Making it a WIDE would potentially cut overall channel throughput in the

snip

```
>channel capacity.  But as a RELAY only station (Like every other APRS
>station in the area) it does provide a vital role for mobiles...


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

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639. Re: [APRSSIG:3228] Re: WIDES and RELAYS only

From: Dave Creek <dcreek@pixi.com>
Date: Mon, 22 Jul 1996 13:20:39 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.960722131555.8143A-100000@rodan22.pixi.com>
Rendered body type: text/plain

```
Maybe we should coin a new term to designate stations like this.
To borrow a term from ground radar we could call them "Gap Fillers"
and then specify all gap fillers be set to relay only.

On Mon, 22 Jul 1996, Larry Keeran wrote:

> Now, here is a thinking man thinking.  Good thoughts Bob!  "vital role for
> mobiles"  Keep it up.
>
>
> On 22 Jul 1996 16:58:03 WB4APR said:
>
> snip
>
> >* BUT * since it has no need to be a WIDE (because it is too close to
> >the main backbone WIDES), and since it is not furthering the propogation
>
> snip
>
> >Making it a WIDE would potentially cut overall channel throughput in the
>
> snip
>
> >channel capacity.  But as a RELAY only station (Like every other APRS
> >station in the area) it does provide a vital role for mobiles...
>
>
> /\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
>  Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
>  EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
> \/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
>
>
>
73 es Aloha,

Dave Creek, NH6BA
Ewa Beach, HI
dcreek@pixi.com
```

---

640. Re: [APRSSIG:3227] WIDES and RELAYS only

From: rbost@itexas.net (Roy Bost)
Date: Mon, 22 Jul 1996 18:43:48 -0500
To: <aprssig@tapr.org>
Message-ID: <19960722234534223.AAA62@rbost.itexas.net>
Rendered body type: text/plain

```
Being new to APRS I must ask this question....when would a station call
itself a WIDE?  I am 35 miles SW of Ft.Worth, Tx and the most APRS station
that I have ever seen in the Dallas-Ft Worth area is maybe 6-8 stations!
What purpose does a WIDE serve in a thinly populated ( with APRS stations)
like ours?  Infact even when the band is open I have not see a WIDE in
Texas.
```

---

641. San Diego Freq - Again

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Fri, 19 Jul 1996 21:20:48 -0400 (EDT)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9607192148.A28530-a100000@login>
Rendered body type: text/plain

In my company's infinte wisdom, they have decided to fly my rear end out to San Diego this weekend. Hopefuuly I'll find time to fire up the rented laptop and put my beacon out at nights.

Unfortunetly, I never wrote down which freq is used. Could someone please repost it for me.

On a more serious note, I plan on taking the APRS OHIO LLBBS down for good the first part of August. Activity on the BBS has equalled about one call every other day sense the last part of May.

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper

642. LIMITED MESSAGE LENGTH CAUSED BY TNCS

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Mon, 22 Jul 96 19:55 EDT
To: aprssig@tapr.org
Cc: n8chb@tir.com
Message-ID: <m0uiUop-000Qk0C@nevets.oau.org>
Rendered body type: text/plain

I received a question from Roger, N8CHB, as to what TNC was used on the receiving end, and what command in the TNC initiation file corrected limited message strings.

The TNC used was a PK88.   The following command: PACLEN 128 lengthens the message string the TNC handles, to a maximum of 128 characters, which far more than required. If more characters are in the information packet than what the APRS software is designed to handle, those bytes will simply fall out the end. With this TNC command, the message string will not be prematurely terminated.
//

From: Roger Breckon <alfred!ucf-cs!tir.com!n8chb>

RE: [APRSISIG:3198] CW, TALKING, & SINGING APRS

Then one evening we were experimenting with line lengths
> and why characters were being lost between dosAPRS, WinAPRS, and MacAPRS.
> I sent him a string 012345678901234567... etc. 67 characters total from
> dosAPRS and he received only 47 characters in WinAPRS, and 51 in MacAPRS.

cut text here--------------->
> It pronounced the number string: ONE SEPTILLION OCTILLIAN.. etc. He later
> found that it was his TNC set up that was limiting the number of received
> characters.
/////////////////////////////////////

hello Geoffrey,

Thank u fer ur report.
Could find out the type of TNC used in the test and what command code was entered to change number of characters in the line?

Thanks,

de Roger n8chb@tir.com

//

643. Re: [APRSSIG:3231] San Diego Freq - Again

From: Dick Mead <mead@hamal.usc.edu>
Date: Mon, 22 Jul 96 17:19:18 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.838081158.mead@hamal.usc.edu>
Rendered body type: text/plain

>
>   In my company's infinte wisdom, they have decided to fly my rear
> end out to San Diego this weekend. Hopefuuly I'll find time to fire up the
> rented laptop and put my beacon out at nights.
>   Unfortunetly, I never wrote down which freq is used. Could someone
> please repost it for me.
>
>   On a more serious note, I plan on taking the APRS OHIO LLBBS down
> for good the first part of August. Activity on the BBS has equalled about
> one call every other day sense the last part of May.
>

```
> John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
> Cruise Missile Address:  39 56.35 N   082 58.89 W
> Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
>
>
>
>


145.790 MHz is in use for APRS in So Cal, including, and starting
with, San Diego. As far as I can tell, HF is mostly on 10.151.5 Mhz.

Dick WB6NGC
```

---

644. Re: [APRSSIG:3199] Re: APRS Legal Question

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 22 Jul 1996 20:18:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960722201640.26063B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 21 Jul 1996 SARDUCK@aol.com wrote:

> Jim, I know your experience in this area is extensive and sound right on the
> mark for rules for hams.  Please excuse this question for my naivette.  Do I
> understand correctly that hams are second users of 2 meter and the government
> is primary?

No, not 2 meters, but 440 (at least in some geographical areas of the
country as I understand it) and the Goverment Use is RADAR.

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

645. Re: [APRSSIG:3230] Re: WIDES and RELAYS only

From: ku0g@sprynet.com
Date: Mon, 22 Jul 1996 19:25:13 -0700
To: aprssig@tapr.org
Message-ID: <199607230225.TAA18127@m1.sprynet.com>
Rendered body type: text/plain

```
Here in Kansas City we have some very definite topography problems.  In
particular there is an area along Interstate 29 north of the city where the lay
of the land is particularly low.  Neither the KC nor the St. Joseph WIDE digis
get into the area.  We intend to put up a "gap filler" RELAY somewhere in
never-never land to fill this gap in coverage.  This is one of those situations
where a RELAY is the order of the day as a WIDE in this area would result in too
much QRM!  Moral:  There IS a valid need for prominent digis using both aliases.
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

646. Re: [APRSSIG:3232] LIMITED MESSAGE LENGTH CAUSED BY TNCS

From: ku0g@sprynet.com
Date: Mon, 22 Jul 1996 19:43:06 -0700
To: aprssig@tapr.org
Message-ID: <199607230243.TAA23097@m1.sprynet.com>
Rendered body type: text/plain

```
Of course, setting PACLEN to 0 disables the feature and is probably (IMHO) the
better option....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

647. Re: [APRSSIG:3227] WIDES and RELAYS only

From: rwf <rwf@mindspring.com>
Date: Mon, 22 Jul 1996 23:40:46 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960723034046.007068a8@mindspring.com>
Rendered body type: text/plain

```
So... you were going to the beach in S Florida?  hehe

Bob wrote:
```

```
>This weekend driving to the beach, I passed an abandoned lookout tower.

SNIP

>* BUT * since it has no need to be a WIDE (because it is too close to
>the main backbone WIDES), and since it is not furthering the propogation
>of WIDE packets (other than out to sea in the Atlantic), it just does not
>need to be a WIDE.

SNIP

>Making it a WIDE would potentially cut overall channel throughput in the
>area by a factor of TWO (since it would repeat every WIDE packet that it
>hears).  Not only would this gain nothing, it would SIGNIFICANTLY reduce
>channel capacity.
```

---

648. Re: [APRSSIG:3234] Re: APRS Legal Question

From: rwf <rwf@mindspring.com>
Date: Mon, 22 Jul 1996 23:40:48 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960723034048.007087d8@mindspring.com>
Rendered body type: text/plain

```
Richard and SARDUCK wrote:

SARDUCK::

>> Jim, I know your experience in this area is extensive and sound right on the
>> mark for rules for hams.  Please excuse this question for my naivette.  Do I
>> understand correctly that hams are second users of 2 meter and the government
>> is primary?

Richard:
>No, not 2 meters, but 440 (at least in some geographical areas of the
>country as I understand it) and the Goverment Use is RADAR.

As we are finding out right now here in Atlanta, where the
US Customs service has a P-3 in the air running RADAR at  a million watts on
446.0 MHz.
I spoke to them today and they QSYed for me, down to 429 or so.

Speaking of the Olympics, how did y'all like those opening ceremonies?  If
we had had APRS on those pickup trucks, we could have used Bob's new icon.
Bob- can you change the icon from a pickup with hound dog to a pickup with a
spotlight in the bed?   (a *chorome* pickup, no less)?




                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
```

---

649. Looking for GATE

From: WB9WOZ@aol.com
Date: Mon, 22 Jul 1996 23:59:34 -0400
To: aprssig@tapr.org
Message-ID: <960722235934_367946592@emout16.mail.aol.com>
Rendered body type: text/plain

```
Is there a 2 meter / 30 meter GATE in the Northwest Wisconsin area ?  I have
a summer home about 30 miles west of Hayward. Using a 2 meter beam I may even
be able to hit the Twin Cities if there is a GATE there.
Please let me know.
Thanks & 73's
Bruce Tobias-WB9WOZ
```

---

650. Please Help Me unsuscribe!

From: ccg7361@nosc.mil (Kevin Fontes)
Date: Mon, 22 Jul 1996 21:56:13 -0700
To: aprssig@tapr.org
Message-ID: <9607230456.AA13784@trout.nosc.mil>
Rendered body type: text/plain

Anyone Help!
My e-mail box is overflowing! I need to unsuscribe for work purposes. Any help would be appreciated. Thanks Kevin Fontes.

---

651. Re: [APRSSIG:3235] Re: WIDES and RELAYS only

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 23 Jul 1996 07:35:24 -0500
To: <aprssig@tapr.org>
Message-ID: <199607231236.HAA09180@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> Here in Kansas City we have some very definite topography problems.

That go double for here in the Ozarks!

> We intend to put up a "gap filler" RELAY somewhere in
> never-never land to fill this gap in coverage.

Aren't the QTH-APRS stations the saame as "gap filler"?

We have the same problems. Here we are using, the KC5JGV-10 digi aliased as WIDE,RELAY, and every QTH Unproto path as KC5JGV-10, WIDE, WIDE. Just about every QTH has a few pounds of dirt around them, so this works very well. We have yet to have a problem with the WIDE,WIDE setup. I think it is due to the hills. I'm sure that if we were all "hill topping" we would have to work those WIDEs down a bit.

This was all trial and error on our part and I am sure it is elsewhere. I have always asked the "local boys" to use relay vs. wide to start with and see if the net works. Luckily we have a good site at 2400 feet!

BTW, Jim, are you going to the Springfield Hamfest Aug. 3rd?

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

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652. Re: [APRSSIG:3240] Please Help Me unsuscribe!

From: Bob Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 23 Jul 1996 10:42:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.91.960723103806.15144A-100000@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

Me, too.
i have only *very* slow email for the next 2 wks. Need
to drop for a while. I can't use the web to get to TAPR.
Bob Kirk

On Tue, 23 Jul 1996, Kevin Fontes wrote:

> Anyone Help!
> My e-mail box is overflowing! I need to unsuscribe for work purposes. Any
> help would be appreciated. Thanks Kevin Fontes.
>

---

653. APRS Internet server

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Tue, 23 Jul 96 10:53:08 EDT
To: aprssig@tapr.org
Message-ID: <199607231454.OAA151891@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

Yesterday I kludged together a primitive APRS Internet server.
I sends anything it hears on 145.79 in Atlanta to all who connect
to tcp port 14579 from the Internet .

For Web Browsers: telnet://www.wa4dsy.radio.org:14579

For Stand alone telnet: telnet www.wa4dsy.radio.org 14579

Hit the <Esc> key to disconnect.

At this time it's set to handle a maximum of 30 users. This

number may be changed (up or down) depending on how
well it performs through my 56kb RF link. It's not too exciting
to watch raw APRS data so I don't expect too much activity.
Since this is the very first version it may be buggy or may
be down from time to time for modifications or enhancments.

This could become much more interesting when Steve Dimse
finishes his JavaAPRS. ;-)

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

654. Re: [APRSSIG:3230] Re: WIDES and RELAYS only

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 11:08:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723110524.6707B-100000@arctic>
Rendered body type: text/plain

On Mon, 22 Jul 1996, Roy Bost wrote:

> Being new to APRS I must ask this question....when would a station call
> itself a WIDE? I am 35 miles SW of Ft.Worth, Tx and the most APRS station
> that I have ever seen in the Dallas-Ft Worth area is maybe 6-8 stations!
> What purpose does a WIDE serve in a thinly populated (with APRS stations)
> like ours? Infact even when the band is open I have not see a WIDE in TX.

APRSdos REPLY COMMENT: Someone needs to install a high wide area
digipeater for APRS and give it the alias of WIDE. Then you can all
communicate using just the path of WIDE. But more importantly, at its
high altitude it may hear distant packets from other areas addressed via
WIDE. Since it will digipeat these, then all of you 6 or 8 stations will
see these DX packets and can communicate with them via WIDE,WIDE...

de wb4apr@amsat.org

---

655. Re: [APRSSIG:3235] Re: WIDES and RELAYS only

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 11:30:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723112653.6707E-100000@arctic>
Rendered body type: text/plain

On Mon, 22 Jul 1996 ku0g@sprynet.com wrote:

> Here in Kansas City we have some very definite topography problems. In
> particular there is an area along Interstate 29 north of the city where the
> land is particularly low. Neither the KC nor the St. Joseph WIDE digis
> get into the area. We intend to put up a "gap filler" RELAY somewhere in
> never-never land to fill this gap in coverage.
> Moral: There IS a valid need for prominent digis using both aliases.

APRSdos REPLY COMMENT: I would clarify that last sentence to say there
are valid applications for both types of digis, both WIDE-RELAYS and RELAYS.
(Remember that a WIDE these days is always presumed to also respond to
the alias of RELAY)

de wb4apr

---

656. Re: [APRSSIG:3241] Re: WIDES and RELAYS only

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 11:44:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723113428.6707G-100000@arctic>
Rendered body type: text/plain

On Tue, 23 Jul 1996, J. Scott Ratchford, KC5JGV wrote:

> Aren't the QTH-APRS stations the saame as "gap filler"?

**** YES, exactly. The gap fillers are for areas where there are no home
stations on 24 hours a day...

> We have the same problems. Here we are using, the KC5JGV-10 digi aliased
> as WIDE,RELAY, ...

**** To be contextually correct, please refer to this as WIDE-RELAY to
imply a dual alias digi as opposed to WIDE,RELAY which implies a VIA PATH...

> and every QTH Unproto path as KC5JGV-10, WIDE, WIDE....

**** This is equivalent to W,W,W and will have LOTS of duplication if you
have multiple WIDES in the area. But is acceptible if you dont see LOTS
of dupes due to topography...

> This was all trial and error on our part and I am sure it is elsewhere. I
> have always asked the "local boys" to use relay vs. wide to start with and
> see if the net works. Luckily we have a good site at 2400 feet!

**** Again, only MOBILES are encouraged to use the RELAY,WIDE,WIDE
path.. Fixed stations should not unless their is a specific reason
to do so..

Again, using KC5GJV-10,WIDE,WIDE is no different than using
WIDE,WIDE,WIDE.. If all you can hit is ONE WIDE on the first hop, then
that is not too bad. If you are between two wides, you can do a
WIDE,WIDE,XXXX which will get you out three hops in the direction towards
XXXX and at least two hops in the opposite direction...

APRSdos REPLY COMMENT:

de wb4apr@amsat.org

657. Re: APRS Internet server

From: Mark Sproul <sproul@ap.org>
Date: Tue, 23 Jul 1996 11:54:19 -0400
To: aprssig@tapr.org
Cc: wa4dsy@wa4dsy.radio.org
Message-ID: <v03007604ae1aa5e4da14@[165.1.27.20]>
Rendered body type: text/plain

>Yesterday I kludged together a primitive APRS Internet server.
>I sends anything it hears on 145.79 in Atlanta to all who connect
>to tcp port 14579 from the Internet .
>
>For Web Browsers: telnet://www.wa4dsy.radio.org:14579
>
>For Stand alone telnet: telnet www.wa4dsy.radio.org 14579
>
>Hit the <Esc> key to disconnect.
>
>At this time it's set to handle a maximum of 30 users. This
>number may be changed (up or down) depending on how
>well it performs through my 56kb RF link. It's not too exciting
>to watch raw APRS data so I don't expect too much activity.
>Since this is the very first version it may be buggy or may
>be down from time to time for modifications or enhancments.
>
>This could become much more interesting when Steve Dimse
>finishes his JavaAPRS. ;-)
>
>

MacAPRS will already work with a TCP socket via the Comm toolbox, however,
because of the non-standard port number, I cannot get it to work. I am
VERY interested in making this work correctly.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

658. Re: [APRSSIG:3241] Re: WIDEs, RELAYs, and QTHs

From: byoung@qni.com
Date: Tue, 23 Jul 1996 11:33:39 -0500
To: aprssig@tapr.org
Message-ID: <9607231633.AA08238@qni.com>
Rendered body type: text/plain

Scott and the group,

Regarding home APRS stations being "the filler" for an APRS network beneficial to mobiles, you make a valid point because "typically" they would be. However in the KC area there are very few home stations besides Jim, myself, and one or two others that operate 24hrs X 7days X 52wks. Many of the APRS users switch their stations on around 2000 local time, which limits their usefulness to mobiles. In fact, much of the time you can't count on being able to include a specific station/digi in your UNPROTO due to "station bounce".

Bill Young
byoung@qni.com
KB0UZQ

---

659. APRS via internet to Atlanta!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 13:21:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723130158.3921A-100000@arctic>
Rendered body type: text/plain

Dale WA4DSY is experimenting with an internet access to the APRS net in Atlanta. ALthough this is not the final mechanism, if you can reach your telnet service via a dumb terminal program, then you can use APRS to view the scene in Atlanta! I just tried it and saw W6PNC and WA4DSY mobiling around the city! See Dales earlier message.

Here is the ideam assuming you have a modem or LAN connected to your COMM port instead of a TNC and assuming you can access your TELNET provider using dumb terminal protocol...

Bring up APRS and perform these steps:

1) use CONTROLS-XMT to tell APRS to not send any packets
2) Access the OPS-COMM-TNC dumb terminal screen in APRS
3) Access your telent service and telnet to www.wa4dsy.radio.org 14579
4) Eventually you will see some live packets...
5) ESCAPE back into APRS and you will begin to see the Atlanta picture as if you were there!!!

NOTE: Problem is that when you use the ESC character to ESCape back into APRS, APRS sends several commands to the TNC to re-configure it for CONVERSE mode with ECHO off etc... (also ESC is used by Dale to abort his program... So when I tried it with ESC, then it did not seem to work.. (or I did not wait long enough for a packet).

Anyway, however, alt-X (un documented) will also escape you from the APRS dumb terminal screen back into APRS but *without* sending any additional characters to an assumed TNC. Use this alt-X and it will work!

If you are curious about why the alt-X feature is in there, read an old WX.TXT file about remotely logging onto a remote TNC/WX combo...

Obviously, you have to maintian thsi conection for 10 minutes or so to get a good picture of what is going on in Atlanta, and this is very inneffecient, but it deomnstrates the potential. Dale's site can only support 30 users so logg off after a few minutes to give someone else a try.

I have asked Dale to re-program his interface so that it simply dumps a current backup file to the user so that you get a full APRS picture and all screens just as if you had done a FILES-LOAD command on your PC.

I will have to modify APRS though, so that it can load a backup file from the COMM port rather than from the disk.

This way each user is serviced in a few seconds so that Dales interface can support hundreds of users a few seconds at a time instead of only 30 at up to 15 miinutes each...

de wb4apr@amsat.org

660. Voice on 145.79 in Dallas.

From: "David W. McNeil" <ki5vm@flash.net>
Date: Tue, 23 Jul 1996 13:03:24 -0500
To: aprssig@tapr.org
Message-ID: <31F513EC.2574@flash.net>
Rendered body type: text/plain

```
I recieved a phone call today from another local APRS station (in the
Dallas,Texas area) to inquire if I was getting strange symbols on my
aprs screen.
Since I did not have aprs active at the time, I could not verify.
Listening on 145.79 there was a voice QSO in progress. I listened during
the QSO for a call sign so that I might possibly contact the parties by
phone. QSO ended, one party did not identify and the other party
identified with a callsign of what appeared to be KF5NTS, a call which
to my knowledge has not yet been issued, although the recieved signals
were strong the "ID" was run through so fast it was nearly
unintelligible.
Another local aprs station WX5M informed me that he has heard these
voice transmissions almost daily.
I would ask that APRS stations in the Dallas area take note to see if
these stations are in fact causing inteference to APRS and to determine
the callsign(s) of the station(s) so that they might be informed of APRS
activities on 145.79.

TNX
de Dave KI5VM
```

---

661. [APRSSIG:3227] WIDES

From: bob.hartman@wlio.com
Date: Tue, 23 Jul 96 12:29:01 -0400
To: aprssig@tapr.org
Message-ID: <9607231229.0HJCQ00@wlio.com>
Rendered body type: text/plain

```
{stuff deleted}
> I realized why we may be having trouble making
> people  understand the difference between a WIDE-RELAY and a RELAY
> digipeater...
{stuff deleted}
> Making it a WIDE would potentially cut overall channel throughput in
> the  area by a factor of TWO (since it would repeat every WIDE packet
> that it hears).  Not only would this gain nothing, it would
> SIGNIFICANTLY reduce channel capacity.

Let me pose a question for Bob and the others.

Since different areas have very different needs as far as WIDES and
RELAYs, and it seems like most users (at least in my area, and from
the sound of it, we are not in a unique situation) do not seem to
pay attention to how many wides they stick in their unproto path,
wouldn't an ideal solution be to investigate having the APRS code
itself check for duplicated position reports, etc. and not relay them
the second time if they have already sent them on once?  This would
even help out the WIDES if they were not stand-a-lone digis but rather
connected to a computer running APRS.  In other words, if someone near
you transmitted with an unproto of relay, wide, wide but since
"everybody" wants to be a WIDE, there are two (or more) within range
of each other, they would not keep repeating the packet back and forth
between them until they exhaust the number of wides in the packet.
The APRS code would have to identify each packet from its UI header
and only send on the ones that it had not already transmitted in a
set period of time.  Perhaps this is not possible, or I haven't
thought this through enough, but if somehow, each station could
filter and only send packets ahead once, then maybe we could call
all digipeaters by the same name and then everyone could run the same
unproto and perhaps limit how far their signals go by a mileage,
similar to the query function, if they desire not to show up all over
a network.

Comments?

<n8mwz@amsat.org>


... Bob.Hartman@wlio.com
___ Blue Wave/QWK v2.12
```

662. WIDEs and RELAYs

From: dwetzel@uswest.com (Douglas Wetzel)
Date: Tue, 23 Jul 1996 12:45:42 -0500
To: aprssig@tapr.org
Message-ID: <1F51EE60.1262@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

Hmm. After watching this discussion, and observing our new KPC-3 based WIDE, I'm now puzzled. With aliases of both RELAY and WIDE, anytime an unproto path of RELAY,WIDE appears to the digi, it repeats a packet for both RELAY and WIDE (2 packets). That leads to a couple of questions:

1. Is it normal for a digi (at least a KPC-3) with two aliases to digi twice when both aliases appear consecutively in an unproto path, or have I missed something in the KPC setup?

2. What happens if the unproto path is RELAY,WIDE,WIDE? I can find this out tonight when I go work on the machine, but perhaps someone on the sig can answer out of hand.

3. Does the overall coverage area of the WIDE influence the desirability of a RELAY alias? With mountain top digis hearing over a 75-100 mile radius, the RELAY gap-filler approach would seem to make more sense than having a mountain top (or more than one) squawking with every RELAY packet launched.

Thanks!

Doug
KC7CO
Radio Free Utah

---

663. Re: [APRSSIG:3248] Re: WIDEs, RELAYs, and QTHs

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 23 Jul 1996 14:32:39 -0500
To: <aprssig@tapr.org>
Message-ID: <199607231933.OAA13868@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> From: byoung@qni.com
> Regarding home APRS stations being "the filler" for an APRS network
> beneficial to mobiles, you make a valid point because "typically"
> they would be. However in the KC area there are very few home
> stations besides Jim, myself, and one or two others that operate 24hrs
> X 7days X 52wks. Many of the APRS users switch their stations on
> around 2000 local time, which limits their usefulness to mobiles. In
> fact, much of the time you can't count on being able to include a
> specific station/digi in your UNPROTO due to "station bounce".
>
> Bill Young
> byoung@qni.com
> KB0UZQ

Hi Bill,
You will find that here in to the South there is "one" 24hr/7da/52wk station. Mine! Anyhoo, I see the two KC QTH's and mobile stations and MCI nearly everyday. Last night was very interesting in that three stations in Iowa came in hours before KC. And, of course, the St. Louis stations are booming in quite regularly.

One point, Bill and Bob, that has been left out of this on-going conversation is the amount of power transmitted at the digis. I use the MFJ data radio with all its 5-8 watts at the QTH and Mobile and an ICOM IC-22A (I think that's right) crystal 7 watt radio as the digi. Distance from QTH to Digi is 45 miles, line of sight. Anyway the point here is too much power at the digi, or QTH for that matter, can cause a lot of problems as well.

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

---

664. San Diego Freq one more time

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 21 Jul 1996 09:52:53 -0400 (EDT)

To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.3.07.9607210953.A437-9100000@login>
Rendered body type: text/plain

```
Mr Murphy has been hard at work this weekend. My mailserver has been
down from late friday night until this morning - (Sunday) I missed any
replys about San Diego APRS Freqs. Please repost. Plane leaves in 7 hours.
(TWA of course...)

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address:  39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
```

---

665. Re: [APRSSIG:3250] Voice on 145.79 in Dallas.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 16:22:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723161638.21217A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 23 Jul 1996, David W. McNeil wrote:

> Listening on 145.79 there was a voice QSO in progress. I listened during
> these stations are in fact causing inteference to APRS and to determine
> the callsign(s) of the station(s) so that they might be informed of APRS
> activities on 145.79.

APRSdos REPLY COMMENT:  Excellent opportunity to use the OMNI-DF function
of APRS!

1) put out an APRS bulletin asking everyone to insert an APRS OMNI DF REPORT
when they hear the voices.

2) Everyone (Even if you dont hear the voices when they are active!!!)
do an INPUT-DF report.  Enter your subjective assessment of the relative
signal strength.  Entries of ZERO are equally important if you cannot
hear the station.

3) Do a MAPS-PLOTS-DF command and you will see the colored intersecting
signal strength contours.  THe black circles block out all the areas
where the station is *not*.   The area of hte maximum *intersection* of
the colored circles is the location of the voice station...

de wb4apr@amsat.org
```

---

666. Re: [APRSSIG:3251] WIDES

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 16:25:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723162259.21217B-100000@arctic>
Rendered body type: text/plain

```
On Tue, 23 Jul 1996 bob.hartman@wlio.com wrote:

> Let me pose a question for Bob and the others.
> Since different areas have very different needs as far as WIDES and
>  .....
> wouldn't an ideal solution be to investigate having the APRS code
> itself check for duplicated position reports, etc. and not relay them
> the second time if they have already sent them on once?  This would

APRSdos REPLY COMMENT: Nice try.  APRS has nothing to do with ANY
digipeating or GATEwaying function.  That is all done by a TNC
independent of APRS.  Digipeaters dont even have a PC running APRS...

de wb4apr@amsat.org
```

---

667. Re: [APRSSIG:3231] San Diego Freq - Again

From: Barbara Fehner <fehner@cts.com>
Date: Tue, 23 Jul 1996 13:26:33 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960723202633.006b3d6c@mail.cts.com>
Rendered body type: text/plain

```
Use 145.79 with wide,wide in the unproto path. This will get you from
Mexican border to LA. There is a HF Gate available also. Here is a WWW link
to information about San Diego.

http://www.sandiego-online.com/issues/main.htm
```

```
Barbara KK6IB
E-Mail: fehner@cts.com

________________________________________________________________________________
At 07:05 PM 7/22/96 -0500, you wrote:
>
>       In my company's infinte wisdom, they have decided to fly my rear
>end out to San Diego this weekend. Hopefuuly I'll find time to fire up the
>rented laptop and put my beacon out at nights.
>        Unfortunetly, I never wrote down which freq is used. Could someone
>please repost it for me.
>
>        On a more serious note, I plan on taking the APRS OHIO LLBBS down
>for good the first part of August. Activity on the BBS has equalled about
>one call every other day sense the last part of May.
>
>John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
>Cruise Missile Address:  39 56.35 N   082 58.89 W
>Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
>
```

668. BIG problem with MFJ data radios as DIGIS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 16:54:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723162550.21217C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 23 Jul 1996, Douglas Wetzel wrote:

> Hmm.  After watching this discussion, and observing our new KPC-3 based
> WIDE,   I'm now puzzled.  With aliases of both RELAY and WIDE, anytime
> an unproto path  of RELAY,WIDE appears to the digi, it repeats a packet
> for both RELAY and WIDE  (2 packets)....

**** APRS REPLY: I certainly hope not!
The TNC will only digipeat the *1st* unused callsign (RELAY).  It should NOT
hear its own transmission and therefore will not digipeat its own transmitted
packet (via WIDE).

*****  BUT, if the monitor-my-xmt is enabled (I cant find the exact
command in my TNC manual) then your TNC will hear itself and it will
digipeat ITSELF!!!!!!!!!!  Be sure this command is off!

*****  WARNING!!  Also if you use an MFJ data radio, whos receiver is
always ON even on TRANSMIT, then the TNC will also ALWAYS hear its own
packets and will DIGIPEATE ITS OWN PACKETS!  Argh!

I have asked the TNC MFRS to provide a MUTE command that tells the TNC to
never process any RECEIVED audio WHILE its PTT is down.  This solves the
problem, but I have not been able to get them to realize its importance.
It is only a problem in APRS where a TNC transmits via GENERIC digipeater
callsigns of which it is one!  This is a BRICKWALL problem in the MFJ
data radio and an CB radio.

de wb4apr@amsat.org
```

669. Re: [APRSSIG:3252] WIDEs and RELAYs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 17:00:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723165407.21217D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 23 Jul 1996, Douglas Wetzel wrote:

> Hmm.  After watching this discussion, and observing our new KPC-3 based
> WIDE,  I'm now puzzled.  With aliases of both RELAY and WIDE, anytime...
>
> 3.  Does the overall coverage area of the WIDE influence the desirability
> of a RELAY alias?  With mountain top digis hearing over a 75-100 mile
> radius, the RELAY gap-filler approach would seem to make more sense than
> having a mountain top (or more than one)  squawking with every RELAY
> packet launched.

APRSdos REPLY COMMENT:  Not a problem, since the DIGI and maybe one or 2
home stations that also hear the original packet will usually all key
up at the same time.  Only the DIGI will be heard by 99% of the listeners...
```

If the big WIDE did not have the second alias of RELAY, though, that poor
mobile could be anywhere within the range of the big WIDE and be ignored!
since the mobile is using the RELAY call as his first hop...

de wb4apr@amsat.org

---

670. FW: [APRSSIG:3252] WIDEs and RELAYs

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 23 Jul 1996 17:09:20 -0400
To: "'dwetzel@uswest.com]'" <dwetzel@uswest.com]>
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB78B9.B19908E0@gwyn.paccomm.com>
Rendered body type: text/plain

From: Douglas Wetzel[SMTP:dwetzel@uswest.com]

1. Is it normal for a digi (at least a KPC-3) with two aliases to digi
twice
when both aliases appear consecutively in an unproto path, or have I missed
something in the KPC setup?

I certainly can't speak for Kantronics, but in case of the PacComm units
with multiple aliases, the callsigns are taken in sequence. For example, if
a frame is addressed via digi1, digi2 then the tnc would look at digi1 to
see if it matches any of the TNC's aliases. It would not look at digi2
callsign at all unless the 'has been repeated' bit was set on digi1.

If digi1 does indeed match one of the TNC's callsigns, it would be
repeated. Note that the TNC would not hear the repeated frame, therefore it
would not get the chance to see if digi2 is one of its callsigns.

Now if there was a digi3 following digi2, then it would take a crack at
that.

---

671. Re: [APRSSIG:3258] BIG problem with MFJ data radios as DIGIS

From: "Paul Christenson [N3EOP]" <christen@codger.physics.duq.edu>
Date: Tue, 23 Jul 1996 18:20:35 -0400
To: aprssig@tapr.org
Message-ID: <31F55033.4A8F7BF9@codger.physics.duq.edu>
Rendered body type: text/plain

Bob Bruninga wrote:

> ***** WARNING!! Also if you use an MFJ data radio, whos receiver is
> always ON even on TRANSMIT, then the TNC will also ALWAYS hear its own
> packets and will DIGIPEATE ITS OWN PACKETS! Argh!
>
> I have asked the TNC MFRS to provide a MUTE command that tells the TNC to
> never process any RECEIVED audio WHILE its PTT is down. This solves the
> problem, but I have not been able to get them to realize its importance.

Seems to me that you should be able to use a transistor to pull the audio line to
ground, using the PTT line as the swutch. (Or, a fast reed relay.)

---

672. Re: [APRSSIG:3241] Re: WIDES and RELAYS only

From: ku0g@sprynet.com
Date: Tue, 23 Jul 1996 15:46:57 -0700
To: aprssig@tapr.org
Message-ID: <199607232246.PAA11436@m1.sprynet.com>
Rendered body type: text/plain

August 3rd is my mom's birthday. I wasn't even aware of the hamfest until your
message. Wish I'd have known earlier, I'd have tried to set up a demonstration
booth!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

673. Re: [APRSSIG:3245] Re: WIDES and RELAYS only

From: n2czf@magg.net (Richard Garcia)
Date: Tue, 23 Jul 1996 18:49:44 -0400
To: aprssig@tapr.org
Message-ID: <199607232249.SAA07249@grumpy.magg.net>

Rendered body type: text/plain

>APRSdos REPLY COMMENT: I would clarify that last sentence to say there
>are valid applications for both types of digis, both WIDE-RELAYS and RELAYS.
>(Remember that a WIDE these days is always presumed to also respond to
>the alias of RELAY)
>
>de wb4apr

As a stout supporter of the proper use of WIDE's and placement I got to admit that I do disagree with one thing above, we should not assume that all WIDE's are RELAYS also.

It is not that I do not agree that a WIDE if it has the capability to act as a RELAY should it is that many TNC's will not accept two aliases. I do not know of any TNC other than the new PacComm Pico's and Kantronics KPC-3 that will do this and there are A LOT MORE TNC's out there than those two.

I for one will not go out and spend money on a new TNC just to have it handle two aliases. Many also wish to set up a digi with surplus equipment and most of this stuff is too old to even have NEMA let alone 2 aliases. Now if the TNC-2 Code (all the clones) would have dual aliases I would consider springing $15 for a new chip but that is about it. At least for me with a digi actually on the Beach in Florida the chances for a lighting strike are far too great to dish out cash for new equipment. The stuff I have up now has served for many years and has been replaced at home with more modern equipment. If it blows away in a Hurricane or get's smoked my lighting at least it will die a proud death as all amateur equipment should AFTER have serving as primary equipment.

The point is we whould not EXPECT all WIDE's to be WIDE-RELAY untill there is support from all the TNC makers for such a code. When that happens it is much more reasonable to expect someone to spend $15-$20 for a chip instead of a MINIMUM $130 for a TNC.

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

674. QRM Busting (was Re:Voice on 145.79 in Dallas.)

From: Arte Booten <N2ZRC@gnn.com>
Date: Tue, 23 Jul 1996 19:57:44
To: APRSSIG@tapr.org
Message-ID: <199607232357.TAA04564@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

On Tue, 23 Jul David W. McNeil wrote:

>...Listening on 145.79 there was a voice QSO in progress...

Several months ago I experienced the same situation here in the New York City area, where unoccupied frequencies are a rarity. I monitored their QSO for a few minutes until they ID'd and dropped my callsign (voice.) I then explained APRS to them briefly, said that the frequency (145.79) was used for it in this area and could they kindly please QSY. They agreed that the "bandplan" for this area lists the frequency fur use with "experimental modes," thanked me for the information and QSY'd promptly.

Of course, these two fine gentlemen were obviously licensed hams and respected the gentlemen's agreement we all refer to as "The Bandplan." There is always the possibility of running into an unlicensed individual (I'm being nice!) that will promptly chop you off at the knees with the type of language one would expect on the Chicken Band. This type of QRM'er must be handled differently.

There are two methods of doing this:

METHOD ONE

1.   Try to DF the offending stations as best as possible. Document your efforts, their transmissions, the times they operate, possibly get RF "fingerprints" of their rigs (I'm willing

to bet they're HTX-202's!)

2. Bring this information to your local ARRL Official Observer and continue documenting as above in conjunction with him/her so a case can be presented to the FCC for prosecution.

METHOD TWO

1. Whenever the offending station(s) are on the air, aim your beam at their signals.

2. As soon as one of them keys their radio, key yours with an open carrier for the duration of their transmission. Use more power than their dinky H-T.

3. When the next station starts to transmit, repeat step 2.

4. Every few minutes, give them a chance to get QSY info to each other. If you don't hear them doing so, go to step 2.

I realize this is not the "Legal" thing to do. To some it may sound childish. But I can tell you from practical experience that it is effective. If these unlicensed persons can't communicate on a given frequency they'll go someplace else. A local repeater in my area was having this problem. The pirates were transmitting 5 KHz off the repeater's input. Since the majority of this machine's users were significangtly farther north, the stations causing QRM couldn't hear that they were on the input. As I could hear THEM full scale, I blasted them off the frequency.

I did not do this "cold." I, and others, tried many times to explain the situation to them. In every instance they promised to QSY promptly and then promptly FAILED to do so. They were DF'd, monitored, logged and reported to the OO's. Nonetheless, the QRM continued. The actions I took to cause them to QSY were only used as a "last resort." If the OO's were to come to visit ME, I'd tell them I was testing my equipment and my mike must have been broken.

Perhaps this is a bit simplistic. However, drastic situations can occasionally call for drastic measures. This technique's not PRETTY but it WORKS! Here in The Big Apple sometimes we have to take matters into our own hands in order to get the desired results. This is not a genteel municipality and sometimes things must be handled accordingly.

I expect to receive MUCH flaming for this. I KNEW it'd be a hot (sorry for the pun) topic but I stand by this action. When your nets are unintelligible for weeks at a time and you have exhausted all the "Legal" possibilities, other options must come into play. Did I sink down to their level? Maybe. DID THEY QSY? YES! A means to an end. Nothing more or less.
73 de

Arte Booten <N2ZRC@gnn.com>(preferred) or <N2ZRC@aol.com>(if necessary)
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

Set coordinates 2-7-1, Chewbacca...

---

675. Re: [APRSSIG:3261] Re: BIG problem with MFJ data radios as DIGIS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 20:12:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723200906.26787A-100000@arctic>
Rendered body type: text/plain

On Tue, 23 Jul 1996, Paul Christenson [N3EOP] wrote about the APR comment:

> > ***** WARNING!! Also if you use an MFJ data radio, whos receiver is
> > always ON even on TRANSMIT, then the TNC will also ALWAYS hear its own
> > packets and will DIGIPEATE ITS OWN PACKETS! Argh!
>
> Seems to me that you should be able to use a transistor to pull the audio
> line to ground, using the PTT line as the swutch.

```
APRSdos REPLY COMMENT: Exactly.  Yes, I have already installed 5 of these
PTT mute transistors in TNCs for just this problem.  But what a PAIN, hi hi
A TNC software command would be much better...

de wb4apr@amsat.org
```

---

676. Re: [APRSSIG:3263] Re: WIDES and RELAYS only

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 23 Jul 1996 20:24:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960723201331.26787B-100000@arctic>
Rendered body type: text/plain

```
On Tue, 23 Jul 1996, someone wrote:

> As a stout supporter of the proper use of WIDE's and placement I ...
> disagree that we should assume that all WIDE's are RELAYS also.
> I for one will not go out and spend money on a new TNC just to have it
> handle two aliases.   Now... if the TNC-2 Code (all the clones) would
> have dual aliases I would consider  springing $15 for a new chip but
> that is about it.

APRSdos REPLY COMMENT: Im sure PacComm would include it in a new ROM
for the venerable Tiny-2 and other TAPR-2 TNC's if people would pay
the nominal ROM upgrade charge.   But how many HAMS would just get
one ROM and then duplicate the ROM?  I doubt that PacComm ever recovers
their investment in a new ROM release, Manual changes, and the
forever bitching from cheap HAMS, hi hi.... (grin)

PacComm, Are you listening Gwyn?  We need the dual alias in TAPR-2 ROMS
now...

de wb4apr@amsat.org
```

---

677. RE: [APRSSIG:3243] APRS Internet server

From: "Warren M. Walker" <wmwalker@village.yvv.com>
Date: Tue, 23 Jul 1996 20:24:50 -0400
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199607240028.UAA06701@yvv.com>
Rendered body type: text/plain

```
Good work Dale!
I spent a bit of time just watching the packets then tried to write a
socket utility for a comm port capture. Works ok with Prowin but WinAPRS
doesn't like the pseudo port. This might be useful if I can get it to
work.

Just what I need... A new challange ..
Thanks again!
Warren (N8VNL) Lost somewhere in Ohio.

----------
> Yesterday I kludged together a primitive APRS Internet server.
> I sends anything it hears on 145.79  in Atlanta to all who connect
> to tcp port 14579 from the Internet .
>
> For Web Browsers:  telnet://www.wa4dsy.radio.org:14579
>
> For Stand alone telnet:   telnet www.wa4dsy.radio.org 14579
>
> Hit the <Esc> key to disconnect.
>
> At this time it's set to handle a maximum of 30 users.  This
> number may be changed (up or down) depending on how
> well it performs through my 56kb RF link.  It's not too exciting
> to watch raw APRS data so I don't expect too much activity.
> Since this is the very first version it may be buggy or may
> be down from time to time for modifications or enhancments.
>
> This could become much more interesting when Steve Dimse
> finishes his JavaAPRS. ;-)
>
>
>
> Dale Heatherington, WA4DSY
> e-mail - wa4dsy@wa4dsy.radio.org
> e-mail - daheath@ibm.net  (in case the first one doesn't work)
> Web page - http://www.wa4dsy.radio.org
> This message brought to you by OS/2 Warp Connect.
```

```
>
>
>
```

---

678. Re: [APRSSIG:3243] APRS Internet server

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 23 Jul 96 21:11:14 -0400
To: <aprssig@tapr.org>
Message-ID: <199607240108.VAA11600@bridge.net>
Rendered body type: text/plain

```
>At this time it's set to handle a maximum of 30 users.  This
>number may be changed (up or down) depending on how
>well it performs through my 56kb RF link.  It's not too exciting
>to watch raw APRS data so I don't expect too much activity.
>Since this is the very first version it may be buggy or may
>be down from time to time for modifications or enhancments.
>
>This could become much more interesting when Steve Dimse
>finishes his JavaAPRS. ;-)
>
I have it connected to javAPRS now...works great. Problem is you need an
applet viewer that lets you disable network security. It runs under Cafe
for mac, not under MetroWerks. Haven't tried Sun yet. If (I'm sure he
will) Dale puts it on his server, all you'll need is Netscape!

73 de Steve
```

---

679. Re: [APRSSIG:3163] WinAPRS in August CQ VHF

From: gsellers <gregs@twave.net>
Date: Tue, 23 Jul 1996 21:54:03 -0400
To: aprssig@tapr.org
Message-ID: <31F5823B.26A3@twave.net>
Rendered body type: text/plain

```
Ken Mirabella wrote:
>
> Did anyone ekse catch the article about WinAPRS and APRS in the August
> CQ VHF magazine.  If not it is very favorable to the Sprouls, Bob
> Bruninga and APRS in general. The author is Don Rotolo, N2IRZ.
>
> 73 de KM6YH


Hi Ken,

  I enjoyed the article also..Just waiting for sum "final" improvements
to winAPRS before upgrading to it..Just like I did upgrading from win3.1
to win 95..Prbly the difference btwn nite es day, hi..

73 de Greg WB4HRR
```

---

680. Re: [APRSSIG:3231] San Diego Freq - Again

From: K6QL@aol.com
Date: Tue, 23 Jul 1996 22:15:08 -0400
To: aprssig@tapr.org
Message-ID: <960723221506_368837963@emout10.mail.aol.com>
Rendered body type: text/plain

```
145.79. LOTS OF ACTIVITY HERE. 73 DAVE, K6QL...
```

---

681. FW: [APRSSIG:3263] Re: WIDES and RELAYS only

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Wed, 24 Jul 1996 06:38:38 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB792A.C0505CA0@gwyn.paccomm.com>
Rendered body type: text/plain

```
Richard Garcia[SMTP:n2czf@magg.net]  wrote on  Tuesday, July 23, 1996 2:03
PM

It is not that I do not agree that a WIDE if it has the capability to act
as
a RELAY should it is that many TNC's will not accept two aliases. I do not
know of any TNC other than the new PacComm Pico's and Kantronics KPC-3 that
will do this and there are A LOT MORE TNC's out there than those two.

SNIP...
```

The point is we whould not EXPECT all WIDE's to be WIDE-RELAY untill there is support from all the TNC makers for such a code. When that happens it is much more reasonable to expect someone to spend $15-$20 for a chip instead of a MINIMUM $130 for a TNC.

A couple of observations:

If you are talking about a dedicated APRS Digipeater, then 'ordinary' TNC EPROMs can be set up with, for example, a callsign of RELAY and an alias of WIDE to get the desired result. Then, for identification purposes, put the licensed callsign in beacon text and set it to beacon every 59 which will send out an identification frame each 9 min, 50 seconds.

Second, it is not only the PacComm PicoPacket which supports multiple aliases, but several of our other amateur TNCs also do, specifically the TINY-2 MK-2.

PacComm offers TNC-2 compatible EPROMs with the multiple alias features which will run in MFJ 1270s and 1274s and any other TNC-2 clones. Price is $30. Older PacComm units may be upgraded as well.

682. Re: [APRSSIG:3264] QRM Busting (was Re:Voice on 145.79 in Dallas.)

From: jack swift <jswift@up.net>
Date: Wed, 24 Jul 1996 07:52:27 -0500
To: aprssig@tapr.org
Message-ID: <9607241151.AA07458@btc1>
Rendered body type: text/plain

```
no flame....

        it seems that you can't cause interference to a station that isn't
there.....
        if a station isn't licensed to operate on a frequency then it isn't
there....
        although i am too old to be able to hold a mic key for a very long
period of time, and can't afford a beam, i did figure out how to set the
beacon interval to a very short interval if i should ever need to generate a
highly detailed map of a particular area. and since we can't afford a lot of
digi's, i'd have to use the high-powered mobile (maybe with the brick) to
make sure that every one of my packets made it back to my home station.
        of course, i'd make sure that i checked with all the licensed
stations to make sure that i wouldn't cause interference to them before
doing this.


At 07:02 PM EST 7/23/96 -0500, you wrote:

>     Of course, these two fine gentlemen were obviously licen-
>sed hams and respected the gentlemen's agreement we all refer
>to as "The Bandplan."  There is always the possibility of run-
>ning into an unlicensed individual (I'm being nice!) that will
>promptly chop you off at the knees with the type of language
>one would expect on the Chicken Band.  This type of QRM'er
>must be handled differently.
>
>     I expect to receive MUCH flaming for this.  I KNEW it'd
>be a hot (sorry for the pun) topic but I stand by this action.
>When your nets are unintelligible for weeks at a time and you
>have exhausted all the "Legal" possibilities, other options
>must come into play.  Did I sink down to their level?  Maybe.
>DID THEY QSY?  YES!  A means to an end.  Nothing more or less.
>73 de
>
>
>Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
> (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
>Set coordinates 2-7-1, Chewbacca...
>
>
>
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
```

```
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

683. javAPRS and live TNC data!!!

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 08:31:00 -0400
To: <aprssig@tapr.org>
Message-ID: <199607241228.IAA22974@bridge.net>
Rendered body type: text/plain

Wow...

As I'm sitting here writing this, I have two javAPRS applets running, showing me the live data coming off of Dale's TNC. One map shows the southeast US, and another is a DeLorme map of Atlanta I just made.

I have sent the application and maps to Dale, he said he will try to get it running today. I'm sure he will post an announcement when it is ready. Due to the security restrictions of Java, it must be running on the same server the data is coming from, or using an applet viewer that allows you to defeat the security restrinctions. The Sun Java Development kit does allow this, many of the other viewers (including Netscape) do not.

I still have much work to do, so stay tunde for further details. The biggest omission I need to correct is that javAPRS does not parse stand-alone tracker data, and there seems to be a fair amount of this coming through the net.

Stay tuned for updates!

Steve KO4HD

---

684. Re: [APRSSIG:3271] FW: Re: WIDES and RELAYS only

From: Bob Bruninga <bruninga@bambam.nadn.navy.mil>
Date: Wed, 24 Jul 1996 09:02:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960724085806.13591B-100000@arctic>
Rendered body type: text/plain

On Wed, 24 Jul 1996, Gwyn Reedy wrote:

> If you are talking about a dedicated APRS Digipeater, then 'ordinary' TNC
> EPROMs can be set up with, for example, a callsign of RELAY and an alias of
> WIDE to get the desired result.

APRSdos REPLY COMMENT: Exactly. I have done that here in Annapolis, BUT only ONE such station can exist anywhere within 4 or 5 hops of another.

If two such stations are in the same area, APRS will assume they are the same station (they have the same call) and will only display the last one heard!   Actually you can get away with two of them. one as a WIDE with alias RELAY, and the other with the call of RELAY with the alias WIDE.

GREAT NEWS on the DUAL ALIAS EPROMS FOR THE TINY-2!! THanks PacComm

de wb4apr@amsat.org

---

685. Re: [APRSSIG:3262] Re: WIDES and RELAYS only

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 24 Jul 1996 07:51:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199607241323.IAA29357@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Bring Mom along! The Hamfest, one of the best in this area, should be well worth the trip!

```
----------
> From: ku0g@sprynet.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:3262] Re: WIDES and RELAYS only
> Date: Tuesday, July 23, 1996 5:58 PM
>
> August 3rd is my mom's birthday.  I wasn't even aware of the hamfest
until your
> message.  Wish I'd have known earlier, I'd have tried to set up a
demonstration
> booth!!!
```

```
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
```

---

686. Re: [APRSSIG:3264] QRM Busting (was Re:Voice on 145.79 in Dallas.)

```
From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 24 Jul 1996 08:21:17 -0500
To: <aprssig@tapr.org>
Message-ID: <199607241323.IAA29360@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain
```

```
> From: Arte Booten <N2ZRC@gnn.com>
>
> On Tue, 23 Jul David W. McNeil wrote:
>
> >...Listening on 145.79 there was a voice QSO in progress...
>
>          M E T H O D   T W O
>
> 1.   Whenever the offending station(s) are on the air, aim your
> beam at their signals.
>
> 2.   As soon as one of them keys their radio, key yours with an
> open carrier for the duration of their transmission.  Use more
> power than their dinky H-T.
>
> 3.   When the next station starts to transmit, repeat step 2.
>
> 4.   Every few minutes, give them a chance to get QSY info to
> each other.  If you don't hear them doing so, go to step 2.
>
>
>      I realize this is not the "Legal" thing to do.


Hams have always been known for "taking care of there own". This means
that instead of lowering our standards to those that are causing the
problem, we "police" our own. This can be done quite easily. There should
never be a "last resort" measure. Instead of taking such measures, I
suggest taking the problem to the club, or repeater owner, at least to get
more experienced input. It appears that this was a case of
spontanious(sp?) reaction that we hams must avoid at all costs, or we'll
be just another "chicken band".

Every repeater has these problems. And they either just go away in short
order, or we "police" it. There is nothing better than seeing the face of
the interfering individual when several hams showup on his doorstep with
DF equipment in hand! Talk about imediate and final results!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

687. Re: [APRSSIG:3255] Re: Voice on 145.79 in Dallas.

```
From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 24 Jul 1996 08:35:51 -0500
To: <aprssig@tapr.org>
Message-ID: <199607241336.IAA29639@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain
```

```
> > Listening on 145.79 there was a voice QSO in progress. I listened
during
> > these stations are in fact causing inteference to APRS and to
determine
> > the callsign(s) of the station(s) so that they might be informed of
APRS
> > activities on 145.79.
>
> APRSdos REPLY COMMENT:  Excellent opportunity to use the OMNI-DF
function
> of APRS!
>
> 1) put out an APRS bulletin asking everyone to insert an APRS OMNI DF
REPORT
```

> when they hear the voices.
>
> 2) Everyone (Even if you dont hear the voices when they are active!!!)
> do an INPUT-DF report. Enter your subjective assessment of the relative

> signal strength. Entries of ZERO are equally important if you cannot
> hear the station.
>
> 3) Do a MAPS-PLOTS-DF command and you will see the colored intersecting
> signal strength contours. THe black circles block out all the areas
> where the station is *not*.   The area of hte maximum *intersection* of
> the colored circles is the location of the voice station...
>
> de wb4apr@amsat.org

And by all means, do not follow the example of the New Yorker!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

---

688. Re: [APRSSIG:3276] Re: QRM Busting (was Re:Voice on 145.79 in Dallas.)

From: stevew@eng.adaptec.com (Steve Wilson x2388)
Date: Wed, 24 Jul 96 07:50:52 PDT
To: aprssig@tapr.org
Message-ID: <9607241450.AA13408@eng.adaptec.com>
Rendered body type: text/plain

> From aprssig@tapr.org Wed Jul 24 07:04:37 1996
> Date: Wed, 24 Jul 1996 08:36:42 -0500 (CDT)
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3276] Re: QRM Busting (was Re:Voice on 145.79 in Dallas.)
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
> Content-Transfer-Encoding: 7bit
> Content-Type> : > text/plain> ; > charset=US-ASCII>
> Mime-Version: 1.0
> X-Mailer: Microsoft Internet Mail 4.70.1085
> Content-Length: 1736
>
> > From: Arte Booten <N2ZRC@gnn.com>
> >
> > On Tue, 23 Jul David W. McNeil wrote:
> >
> Hams have always been known for "taking care of there own". This means
> that instead of lowering our standards to those that are causing the
> problem, we "police" our own. This can be done quite easily. There should
> never be a "last resort" measure. Instead of taking such measures, I
> suggest taking the problem to the club, or repeater owner, at least to get
> more experienced input. It appears that this was a case of
> spontanious(sp?) reaction that we hams must avoid at all costs, or we'll
> be just another "chicken band".

First, I do believe we are generally talking about simplex here as
oppossed to a repeater. (Harder to shut em off.)

>
> Every repeater has these problems. And they either just go away in short
> order, or we "police" it. There is nothing better than seeing the face of
> the interfering individual when several hams showup on his doorstep with
> DF equipment in hand! Talk about imediate and final results!
>

Yep. This is liable to be met by some guy holding a shot gun as he
answers the door(It HAS happened on one of our local T hunts...)
There are subtle, non-confrontational ways of applying peer pressure
if the individual is licensed...and they MAY respond. If this is
a chronic problem(which most are) then the subtle methods fail...and
the direct methods are likely to get you shot...so we're between a
rock and a hard place here.

Also, the FCC packed up and went away, so we don't have that recourse anymore.

Steve Wilson KA6S
(A frustrated OO)

689. (no subject)

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 11:21:46 -0400
To: <aprssig@tapr.org>
Message-ID: <199607241518.LAA05331@bridge.net>
Rendered body type: text/plain

OK Guys...

check out

http://www.wa4dsy.radio.org/aprs/DSY1.html and

http://www.wa4dsy.radio.org/aprs/DSY1.htm2!

IT WORKS!

Steve KO4HD

690. Re: [APRSSIG:3279]

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 24 Jul 1996 12:38:23 -0700
To: aprssig@tapr.org
Message-ID: <31F67BAF.4377@concentric.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> OK Guys...
>
> check out
>
> http://www.wa4dsy.radio.org/aprs/DSY1.html and

WOW! I'm impressed.

>
> http://www.wa4dsy.radio.org/aprs/DSY1.htm2!

This one isn't found.

> IT WORKS!
>
> Steve KO4HD

Thanks to you guys, now I have a headache from thinking about all the possibilities this creates;-)

PS-I want to track my trucking company vehicles in California from the beach in St.Maarten, just kidding.

73 De Joe N2OOC
```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

691. Re: [APRSSIG:3279] javAPRS with Live data

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 13:29:12 -0400
To: <aprssig@tapr.org>
Message-ID: <199607241726.NAA15582@bridge.net>
Rendered body type: text/plain

```
>http://www.wa4dsy.radio.org/aprs/DSY1.html and
>
>http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
>
>IT WORKS!
>
Oops...in my haste I messed up...try:

http://www.wa4dsy.radio.org/aprs/DSY1.html and

http://www.wa4dsy.radio.org/aprs/DSY2.html!

Steve KO4HD
```

---

692. Re: [APRSSIG:3279]

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 24 Jul 1996 13:40:17 -0700
To: aprssig@tapr.org
Message-ID: <31F68A31.5FE1@concentric.net>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> OK Guys...
>
> check out
>
> http://www.wa4dsy.radio.org/aprs/DSY1.html and
>
> http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
>
> IT WORKS!
>
> Steve KO4HD

Just got back from Atlanta, no Jet Lag or Net Lag;-)

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

693. Re: [APRSSIG:3280] Re:

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 24 Jul 96 13:45:22 EDT
To: aprssig@tapr.org
Message-ID: <199607241745.RAA55394@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
On Wed, 24 Jul 1996 11:49:44 -0500 (CDT) you wrote:

>Steve Dimse wrote:
>>
>> OK Guys...
>>
>> check out
>>
>> http://www.wa4dsy.radio.org/aprs/DSY1.html and
>
>WOW! I'm impressed.
>
>>
>> http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
>
>This one isn't found.

That's because it's really http://www.wa4dsy.radio.org/aprs/DSY2.html
Steve mistyped it.

There's now a DSY3.html with a black and white Atlanta map
```

to reduce load time. (19K vs 34k)

It crashes my Linux Netscape browser. Let me know if it
works on yours.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

694. APRS at OSHKOSH

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Wed, 24 Jul 1996 14:21:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960724140748.3897caa2@popd.ix.netcom.com>
Rendered body type: text/plain

Does anyone plan on attending the EAA fly-in at Oshkosh?(Aug 1-7) NASA will have several displays including a bus used to demo aeronautics to school kids. This bus includes a ham station with APRS that I hope to have on the air.

Is there any APRS activity in the Oshkosh area? What frequencies?

If any other SIG members plan to attend stop by and say hello. My wife (Nancy KC4IYD) will be at the Lewis micro-gravity display. I'm not working at the event in any official capacity (vacation - YES!) but I will probably spend some time helping with the ham setup on the bus.

Hope to eyeball some fellow hams at the show!

73,

Steve Hall - KK4PM

P.S. My wife and I will probably monitor 147.525 simplex (If its a quiet freq)

---

695. Oshkosh Repeter Freqs??

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 24 Jul 1996 11:22:19 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960724172219.0067d414@mailhost.primenet.com>
Rendered body type: text/plain

I am going to be in Oshkosh Wisconsin from 7/30 to 8/8. I am planning on using APRS and WinAPRS while there. I am interested in the LOCAL repeater Freqs. in order to make contact with my fellow Hams while I am at the Fly-In.

In advance, Thanks for your help and the needed information.

73, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Packet: WC7R @ KB7FRV

---

696. RE: [APRSSIG:3279]

From: Larry Griffin <largriff@swta.com>
Date: Wed, 24 Jul 1996 13:25:48 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB7963.A8FB8640@larry.onramp.net>
Rendered body type: text/plain

Steve KO4HD wrote:
>check out
>http://www.wa4dsy.radio.org/aprs/DSY1.html
>and
>http://www.wa4dsy.radio.org/aprs/DSY1.htm2!

=======

Neither address works for me (using Netscape). I get "Document contains no data" message.

Larry AB5GE

---

697. Re: [APRSSIG:3281] Re: javAPRS with Live data

From: William Nolle <wa8inz@cris.com>
Date: Wed, 24 Jul 1996 13:40:55 -0700
To: aprssig@tapr.org
Message-ID: <31F68A57.3128@concentric.net>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> >http://www.wa4dsy.radio.org/aprs/DSY1.html and
> >
> >http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
> >
> >IT WORKS!
> >
> Oops...in my haste I messed up...try:
>
> http://www.wa4dsy.radio.org/aprs/DSY1.html and
>
> http://www.wa4dsy.radio.org/aprs/DSY2.html!
>
> Steve KO4H

Just keeps coming up with "DOCUMENT CONTAINS NO DATA"
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

698. Re: [APRSSIG:3283] Re:

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 24 Jul 1996 15:39:34 -0700
To: aprssig@tapr.org
Message-ID: <31F6A626.2072@concentric.net>
Rendered body type: text/plain

```
Dale Heatherington wrote:
>
> On Wed, 24 Jul 1996 11:49:44 -0500 (CDT) you wrote:
>
> >Steve Dimse wrote:
> >>
> >> OK Guys...
> >>
> >> check out
> >>
> >> http://www.wa4dsy.radio.org/aprs/DSY1.html and
> >
> >WOW! I'm impressed.
> >
> >>
> >> http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
> >
> >This one isn't found.
>
> That's because it's really http://www.wa4dsy.radio.org/aprs/DSY2.html
> Steve mistyped it.
>
> There's now a DSY3.html with a black and white Atlanta map
> to reduce load time.  (19K vs 34k)
>
> It crashes my Linux Netscape browser.  Let me know if it
> works on yours.
>
> Dale Heatherington, WA4DSY
> e-mail - wa4dsy@wa4dsy.radio.org
> e-mail - daheath@ibm.net  (in case the first one doesn't work)
> Web page - http://www.wa4dsy.radio.org
> This message brought to you by OS/2 Warp Connect.

Works for me on Netscape...it's a beutifull thing.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

699. Re: [APRSSIG:3286] RE:

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 24 Jul 1996 15:42:14 -0700
To: aprssig@tapr.org
Message-ID: <31F6A6C6.5ABD@concentric.net>
Rendered body type: text/plain

```
Larry Griffin wrote:
>
> Steve KO4HD wrote:
> >check out
> >http://www.wa4dsy.radio.org/aprs/DSY1.html
> >and
> >http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
>
> =======
>
> Neither address works for me (using Netscape).  I get "Document contains no data" message.
>
> Larry AB5GE

Be patient a takes some time to load. 2 minutes on this P75.
Open your Java console under Netscapes options pull down menu and you will be able to view the
actual packet from the TNC.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

700. Re: [APRSSIG:3283] Re:

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 24 Jul 1996 15:44:14 -0700
To: aprssig@tapr.org
Message-ID: <31F6A73E.3204@concentric.net>
Rendered body type: text/plain

```
Dale Heatherington wrote:

> That's because it's really http://www.wa4dsy.radio.org/aprs/DSY2.html
> Steve mistyped it.
>
> There's now a DSY3.html with a black and white Atlanta map
> to reduce load time.  (19K vs 34k)

These two don't workie. The first one does.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

701. Re: [APRSSIG:3286] RE:

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 16:01:09 -0400
To: <aprssig@tapr.org>
Message-ID: <199607241958.PAA00444@bridge.net>
Rendered body type: text/plain

```
>Neither address works for me (using Netscape).  I get "Document contains
>no data" message.
>
>Larry AB5GE

Bear with us, there seems to be some problem between my ftp client and
Dale's ftp server. We're trying...

Steve KO4HD
```

---

702. Re: [APRSSIG:3287] Re: javAPRS with Live data

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 16:16:46 -0400
To: <aprssig@tapr.org>
Message-ID: <199607242013.QAA01990@bridge.net>
Rendered body type: text/plain

```
>Just keeps coming up with "DOCUMENT CONTAINS NO DATA"

The server has been rebooted and I am reloading javAPRS...hopefully this
will work!

Steve KO4HD
```

---

703. Re: [APRSSIG:3292] Re: javAPRS with Live data

From: Dave Kaplan <dkaplan@pionet.net>
Date: Wed, 24 Jul 1996 16:06:40 -0500
To: aprssig@tapr.org
Message-ID: <9607242106.AA07128@ELWOOD.pionet.net>
Rendered body type: text/plain

```
At 03:34 PM 7/24/96 -0500, you wrote:
>>Just keeps coming up with "DOCUMENT CONTAINS NO DATA"
>
>The server has been rebooted and I am reloading javAPRS...hopefully this
>will work!
>
>Steve KO4HD
>
>
>
All I get is


                    Sorry, your browser doesn't do Java!


BUT IT DOES!  I am running Netscaoe 2.02 16 bit.  What am I doing wrong?
```

---

704. Re: [APRSSIG:3289] RE: JavAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 17:07:53 -0400
To: <aprssig@tapr.org>
Message-ID: <199607242104.RAA06761@bridge.net>
Rendered body type: text/plain

```
>Be patient a takes some time to load. 2 minutes on this P75.
>Open your Java console under Netscapes options pull down menu and you will
>be able to view the
>actual packet from the TNC.
>
Congrats, Joe, you found the hidden feature!

The server seems to be fine now. The url can be simplified to:

http://www.wa4dsy.radio.org/aprs

for the wide view. There is a link there for the detail view, the direct
URL is:

http://www.wa4dsy.radio.org/aprs/DSY2.html
```

73 de Steve

---

705. Re: [APRSSIG:3292] Re: javAPRS with Live data

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Wed, 24 Jul 1996 17:47:13 -0400
To: aprssig@tapr.org
Message-ID: <31F699E1.2ADA@pobox.com>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >Just keeps coming up with "DOCUMENT CONTAINS NO DATA"
>
> The server has been rebooted and I am reloading javAPRS...hopefully this
> will work!
>
> Steve KO4HD

Works for me !! Netscape 3.0b5a, Win-95. At 28.8 Kbaud it takes about
3 minutes to load the map (just see a gray rectangle 'til then). Then
WOW! Cool!!! Great job, Steve!!

-Lew W7LVW, Fort Myers, Florida

---

706. Re: [APRSSIG:3286] RE:

From: ku0g@sprynet.com
Date: Wed, 24 Jul 1996 14:49:44 -0700
To: aprssig@tapr.org
Message-ID: <199607242149.OAA12431@m1.sprynet.com>
Rendered body type: text/plain

Same here on the "Documents contains no data"

I suspect that you have to be running Netscape 2.0. I am not as I can't get
dial-up networking to function with my ISP!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

707. Re: [APRSSIG:3293] Re: javAPRS with Live data

From: Joseph Agrelo <jagrelo@cris.com>
Date: Wed, 24 Jul 1996 18:08:29 -0700
To: aprssig@tapr.org
Message-ID: <31F6C90D.1551@concentric.net>
Rendered body type: text/plain

Dave Kaplan wrote:
>
> At 03:34 PM 7/24/96 -0500, you wrote:
> >>Just keeps coming up with "DOCUMENT CONTAINS NO DATA"
> >
> >The server has been rebooted and I am reloading javAPRS...hopefully this
> >will work!
> >
> >Steve KO4HD
> >
> >
> >
> All I get is
>
> Sorry, your browser doesn't do Java!
>
> BUT IT DOES! I am running Netscaoe 2.02 16 bit. What am I doing wrong?

I'm running Netscape 2.01 32bit, and I don't do anything but click on
that URL, wait a couple of minutes for everthing to set up, open my Java
console to see the packets (not nessesary), and away she goes...

Maybe that version requires you to enable it? wish I could help.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President

```
  1145 Catalyn St. Schenectady, NY 12303 USA
              (518)381-1057
              (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

708. Re: [APRSSIG:3293] Re: javAPRS with Live data

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 18:20:08 -0400
To: <aprssig@tapr.org>
Message-ID: <199607242217.SAA12790@bridge.net>
Rendered body type: text/plain

```
>All I get is
>
>
>                    Sorry, your browser doesn't do Java!
>
>
>BUT IT DOES!  I am running Netscaoe 2.02 16 bit.  What am I doing wrong?
>
That only appears if your browser doesn't recognize the <APPLET> tag...so
for whatever reason, your browser isn't doing Java. Don't know much about
the PC version, but in the Mac version it is possible to turn Java off in
the security options menu. Maybe it got turned off (or defaults to off)

Steve KO4HD
```

---

709. Re: [APRSSIG:3271] FW: Re: WIDES and RELAYS only

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 24 Jul 1996 18:20:37 -0400
To: aprssig@tapr.org
Message-ID: <199607242220.SAA14633@grumpy.magg.net>
Rendered body type: text/plain

```
Gwen Wrote:

SNIP

>Second, it is not only the PacComm PicoPacket which supports multiple
>aliases, but several of our other amateur TNCs also do, specifically the
>TINY-2 MK-2.
>
>PacComm offers TNC-2 compatible EPROMs with the multiple alias features
>which will run in MFJ 1270s and 1274s and any other TNC-2 clones. Price is
>$30. Older PacComm units may be upgraded as well.

Now that is some progress. I will keep a PacComm EPROM in mind for the near
future. Still recovering here due to a new HP Flat Bed Scanner!
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

710. Re: [APRSSIG:3266] EPROM Duplication

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 24 Jul 1996 18:27:28 -0400
To: aprssig@tapr.org
Message-ID: <199607242227.SAA15034@grumpy.magg.net>
Rendered body type: text/plain

```
WB4APR Says:

>APRSdos REPLY COMMENT: Im sure PacComm would include it in a new ROM
>for the venerable Tiny-2 and other TAPR-2 TNC's if people would pay
>the nominal ROM upgrade charge.   But how many HAMS would just get
>one ROM and then duplicate the ROM?  I doubt that PacComm ever recovers
>their investment in a new ROM release, Manual changes, and the
>forever bitching from cheap HAMS, hi hi.... (grin)
>
>PacComm, Are you listening Gwyn?  We need the dual alias in TAPR-2 ROMS
>now...
>
```

```
>de wb4apr@amsat.org
>
Well Gwen was listening and it was very encouraging. As far as the copying
of EPROMS I am sure that some do it but how many people actually have the
bruners handy to make the act of "stealing" the code simple and worthwhile.
Personally I have one at work, never used it, never intend to unless it is a
must. It is not worth my time to take money away from someone else, at $30 I
hope that most of us feel the same way.

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

711. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: by ernest.itg.ti.com (Smail3.1.28.1 #4)
	id m0ujDIJ-0000GBC; Wed, 24 Jul 96 18:24 CDT
Message-Id: <m0ujDIJ-0000GBC@ernest.itg.ti.com>
From: alan@ernest.itg.ti.com (Alan Edmonds)
Subject: Re: [APRSSIG:3283] Re:
To: aprssig@tapr.org
Date: Wed, 24 Jul 1996 18:24:42 -0500 (CDT)
In-Reply-To: <199607241745.RAA55394@smtp-gw01.ny.us.ibm.net> from "Dale Heatherington" at Jul 24, 96
12:53:32 pm
Organization: Texas Instruments, Inc. Plano TX
X-Mailer: ELM [version 2.4 PL21]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

> It crashes my Linux Netscape browser.  Let me know if it
> works on yours.
>
> Dale Heatherington, WA4DSY
> e-mail - wa4dsy@wa4dsy.radio.org
> e-mail - daheath@ibm.net  (in case the first one doesn't work)
> Web page - http://www.wa4dsy.radio.org
> This message brought to you by OS/2 Warp Connect.

My netscrape under Linux works (mostly).  I get the multicolored Alanta
map, but I see no APRS activity.  I think that's because I'm behind
a firewall.

--
Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-214-575-6427                        6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

---

712. Re: [APRSSIG:3286] RE:

From: rwf <rwf@mindspring.com>
Date: Wed, 24 Jul 1996 19:35:38 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960724233538.00701998@mindspring.com>
Rendered body type: text/plain

```
At 01:33 PM 7/24/96 -0500, Larry wrote:
>
>Neither address works for me (using Netscape).  I get "Document contains no
data" message.
>

Same here  (but I can just go downstairs and look on the local APRS net)


>
```

---

713. inter-net

From: Roger Breckon <n8chb@tir.com>
Date: Thu, 25 Jul 1996 00:22:26 +0100
To: aprssig@tapr.org
Message-ID: <31F6B031.7F50@tir.com>
Rendered body type: text/plain

I'm impressed, very gud work.

de Roger n8chb@tir.com

---

714. RE: [APRSSIG:3292] Re: javAPRS with Live data

From: Larry Griffin <largriff@swta.com>
Date: Wed, 24 Jul 1996 19:47:38 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB7999.9B4EA3C0@larry.onramp.net>
Rendered body type: text/plain

```
>>Just keeps coming up with "DOCUMENT CONTAINS NO DATA"

>The server has been rebooted and I am reloading javAPRS...hopefully this
will work!
>
>Steve KO4HD

Works great now with Win95 & Netscape 3.0!  Good job, Steve!

Larry AB5GE
```

---

715. Re: [APRSSIG:3279]

From: Truman Boerkoel <truxenia@erinet.com>
Date: Wed, 24 Jul 1996 20:34:54 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960725003454.006ad4d8@erinet.com>
Rendered body type: text/plain

```
At 10:34 AM 7/24/96 -0500, you wrote:
>OK Guys...
>
>
>check out
>
>http://www.wa4dsy.radio.org/aprs/DSY1.html and
>
>http://www.wa4dsy.radio.org/aprs/DSY1.html!
>
>IT WORKS!
>
>Steve KO4HD
>
>
>
Works in Ohio (of all places) using Microsoft Internet Explorer 3.0 Beta 2,
Windows 95. Looks great.. Thanks es Vry 73 de Tru K8JUG
```

---

716. Re: [APRSSIG:3301] Re:

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Wed, 24 Jul 1996 21:03:57 -0400
To: aprssig@tapr.org
Message-ID: <31F6C7FD.7478@pobox.com>
Rendered body type: text/plain

```
Open the JAVA Console, if you can.  You should see the packets coming
in, and simultaneously see the symbol show up on the map.  Only about
1/5 of the stations are within the Atlanta map, so you might have to
wait a while.  Also, the APRS symbols are camaflauged by the yellow
background, and are quite hard to see.

I have two Netscape windows open, one of each map, along with the Java
Console, and see the text come in, and the symbol show up on both maps
simultaneously.

A W S O M E !!!!


-Lew

Alan Edmonds wrote:
>
> > It crashes my Linux Netscape browser.  Let me know if it
> > works on yours.
> >
> > Dale Heatherington, WA4DSY
> > e-mail - wa4dsy@wa4dsy.radio.org
> > e-mail - daheath@ibm.net  (in case the first one doesn't work)
> > Web page - http://www.wa4dsy.radio.org
> > This message brought to you by OS/2 Warp Connect.
>
> My netscrape under Linux works (mostly).  I get the multicolored Alanta
> map, but I see no APRS activity.  I think that's because I'm behind
> a firewall.
>
> --
> Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
> System Administrator, Composer Development    M/S 8515
> Phone: +1-214-575-6427                        6620 Chase Oaks Blvd.
> Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

---

717. Follow-up to "QRM Busting"

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 24 Jul 1996 21:09:42
To: APRSSIG@tapr.org
Message-ID: <199607250108.VAA24192@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi again,

I realize that many of you may think my response to the QRM experienced on the repeater's input was high-handed. Let me clarify the situation.

The club's interference committee had followed "method one" to the letter up to, and including, DF'ing and confronting the offenders face-to-face. This resulted in nasty language and physical threats to the DF group.

The OO (also a club member) did all he could and followed it up to the FCC but, as we all know, they just don't care about the Amateur Service (as far as they're concerned, we're not generating any revenue so they don't want to bother!)

As you can see from this, all "legal" options had been exhausted. I've got to tell you that, at times, I felt as if I had become my own worst enemy while doing this. I'm NOT proud of it! New York City has some extremely belligerent people who will do what they want until they are stopped by using any effective method. The method I used was all they would (or could) understand.

I must also add that neither the club's officers nor members of the interference committee were aware of my efforts. I only informed a VERY select few about it AFTER THE FACT and only in face-to-face or telephone conversations. In other words, I take all responsibility for those actions and that that club had absolutely no culpability in or for them.

Thanks to all those that responded to my original posting, especially considering that I had my asbestos suit on when I retrieved the mail and found ALL the responses to be thoughtful and civil. I expected vitriol. Once again the readers of this SIG have risen above the "flame wars" I would have been subject to had this been an open newsgroup. 73

```
Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I can't lock onto those coordinates, Captain.
There's too much subspace interference."
```

---

718. Re: [APRSSIG:3294] RE: JavAPRS

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Wed, 24 Jul 1996 20:21:23 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960725012123.006c1208@tbcnet.com>
Rendered body type: text/plain

Man, that's really slick! Great work!

jbl

```
At 16:16 7/24/96 -0500, you wrote:
>>Be patient a takes some time to load. 2 minutes on this P75.
>>Open your Java console under Netscapes options pull down menu and you will
>>be able to view the
>>actual packet from the TNC.
>>
>Congrats, Joe, you found the hidden feature!
>
>The server seems to be fine now. The url can be simplified to:
>
>http://www.wa4dsy.radio.org/aprs
>
>for the wide view. There is a link there for the detail view, the direct
>URL is:
>
>http://www.wa4dsy.radio.org/aprs/DSY2.html
>
>73 de Steve
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services
```

---

719. Re: [APRSSIG:3290] Re:

From: Jerry Rector <jerryr49@magg.net>
Date: Wed, 24 Jul 1996 21:33:04 -0400
To: aprssig@tapr.org
Message-ID: <31F6CED0.6CF3@magg.net>
Rendered body type: text/plain

```
> > Steve mistyped it.
> >
> > There's now a DSY3.html with a black and white Atlanta map
> > to reduce load time.  (19K vs 34k)
>
> These two don't workie. The first one does.
>


DSY1,2, and 3 all work here FB!

You MUST run with a browser that processes JAVA applets,
i.e., NETSCAPE NAVIGATOR 3.0 or INTERNET EXPLORER 3.0


73 de Jerry, KB4OAM


> 73 De Joe N2OOC
>   WEB: http://home.navisoft.com/agrelo/ae.htm
```

---

720. javAPRS next step

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 21:51:04 -0400
To: <aprssig@tapr.org>
Message-ID: <199607250148.VAA01743@bridge.net>
Rendered body type: text/plain

```
I hope everyone has enjoyed this preview of things to come. In order no
to overload Dale's server, as many people as possible should use a
stand-alone version of javAPRS. Probably tomorrow I will put a zip file
up on the TAPR upload directory with all the files needed for javAPRS. In
order to run it, you will need to install the Java  Development Kit from
Sun. This is free, and can be downloaded from:

http://java.sun.com/java.sun.com/download.html

After it is installed, run the Applet Viewer applications, find the
security options and disable them. After that is done javAPRS should run
fine.

Enjoy!

Steve KO4HD
```

721. Re: [APRSSIG:3276] Re: QRM Busting (was Re:Voice on 145.79 in Dallas.)

From: rsellers@misha.net (Roger Sellers)
Date: Wed, 24 Jul 1996 20:54:36 -0500
To: aprssig@tapr.org
Message-ID: <199607250154.UAA27033@misha.net>
Rendered body type: text/plain

```
>>          M E T H O D   T W O
>>
>> 1.   Whenever the offending station(s) are on the air, aim your
>> beam at their signals.
>>
>Hams have always been known for "taking care of there own". This means
>that instead of lowering our standards to those that are causing the
>problem, we "police" our own. This can be done quite easily. There should
>never be a "last resort" measure. Instead of taking such measures, I
>suggest taking the problem to the club, or repeater owner, at least to get
>more experienced input. It appears that this was a case of
>spontanious(sp?) reaction that we hams must avoid at all costs, or we'll
>be just another "chicken band".
>
>Every repeater has these problems. And they either just go away in short
>order, or we "police" it. There is nothing better than seeing the face of
>the interfering individual when several hams showup on his doorstep with
>DF equipment in hand! Talk about imediate and final results!
>
Sorry for the increased bandwidth here, but I must ask or make a comment. I
know this is WAY OFF topic for the SIG but local solutions are not forth coming.
    In my area we have a few "? HAMS ?" that need to be cleaned up. There is
a situation where we have persons keying and not ID'ing CONSTANTLY. We have
a ham that is easily identified that has gone well beyond considerate
practice. Our club board is at wits end in asking them to clean up their act
(i.e. cease the actions). All to no avail. We have recordings and other
documentation etc of these happenings. In trying to raise the issue the our
local/regional ARRL rep. We've been basically told we're on our own. The
ARRL has no desire/man-power to take corrective action and it's not serious
they feel enough for the FCC to handle. We were told point blank, "It's a
local issue, you handle it". Politely asking these individuals to quite
doesn't work. Shutting off the repeater only makes them happier and
infringes on all other users of the repeater. We've been forced to disable
all extra functions of the repeater accept 911 autopatch.

    I had heard that the Feds prosecuted for hams on Louisiana with fines
for similar actions but have yet to see anything specific on how it was
done. It is presumed the local club got a court injunction against them from
using the repeater. The fine was then based not on a FCC violation but
rather a violation of a court injuction and the fine was levied by the
court, not the FCC.

  Does anyone have some acurate or usable input to this? If we can come up
with some legal or FCC backing to force the issue it would make life a lot
quieter here. If you have some specific data as to what has worked elsewhere
to permanently get these violators off the system, I'd love to hear it.

 The local club is using most of it's options. One of their last ideas was
to go to a digital PL. Although this might work, it's extremely costly to
the club ands it's member to consider doing this. We just added regular PL
this year and it created lots of problems for some members. Not everyone has
newer equipment to handle it.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@misha.net
E-Mail Work: rsellers@snds.com
```

---

722. APRS Server load

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 24 Jul 96 22:22:32 EDT
To: aprssig@tapr.org
Message-ID: <199607250222.CAA18234@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
Wow!  You guys really know how to crash test a system.
At about 9:35 Pm (edt) here, 17 users were on the
APRS Internet server, many I assume, using the WWW
Java interface uploaded by Steve Dimse.
```

There was some trouble this afternoon involving
a memory leak which caused the server to quit
working. I've done some work on it and so far
it's holding together. (fingers crossed)

FYI:
All access to the server is through a 56kb
modem in the 222 mhz band. There is a 28.8
telephone connection on the other end of the 56k
link which limits the throughput. I hope to have
a 100% RF link to the internet provider within 2 months.
To learn more about 56Kb modems visit http://www.wa4dsy.radio.org/

The Server machine is a 486-66DX2 running OS/2 Warp and IBM tcpip.
The same machine runs JNOS in a DOS session to provide
a gateway to AX25 land. There are 2 ethernet cards
in the computer to connect JNOS with IBM tcpip and the
WWW and APRS servers. Believe it or not,
every packet you guys saw passed through JNOS 110i.

It has never been stressed like it was today. Usually
it may get one or two users accessing my home page
but 17 Java APRS users is a new record. The Modem's
TX and RX LEDs were flashing most of the time.

Don't be suprised it dies or becomes unavailable for
certain periods. This *is* and experimental system.

Have fun.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp: The only x86 operating system that
is more stable than most people who use it.

---

723. Java APRS OFF LINE

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 24 Jul 96 22:46:54 EDT
To: aprssig@tapr.org
Message-ID: <199607250247.CAA182188@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

The Java APRS Internet server dies after
several hours of use. In fact, the entire
tcpip stack seems to go brain dead.
Until I can track down the problem
I'm taking the server off line.

The server machine is need for lots
of other things and usually stays
up for months with no problems.

I'll let you know when it's back.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

724. javAPRS-What goes up, must go down...

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 24 Jul 96 23:17:13 -0400
To: <aprssig@tapr.org>
Message-ID: <199607250314.XAA10208@bridge.net>
Rendered body type: text/plain

For those of you that waited, too bad. Dale had to take his TNC server
down. Apparently it was making his system unstable. I hope he will find
the problem soon, and we can be back in business. I won't upload javAPRS
to the TAPR sig until there is a reason.

There will other servers opening soon...stay tuned for details!

Steve KO4HD

725. Re: [APRSSIG:3294] RE: JavAPRS

From: JOHN FUNK <funkj@tdi.net>
Date: Wed, 24 Jul 1996 23:55:20 -0700
To: aprssig@tapr.org
Message-ID: <31F71A58.2429@mailhost.tdi.net>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> >Be patient a takes some time to load. 2 minutes on this P75.
> >Open your Java console under Netscapes options pull down menu and you will
> >be able to view the
> >actual packet from the TNC.
> >
> Congrats, Joe, you found the hidden feature!
>
> The server seems to be fine now. The url can be simplified to:
>
> http://www.wa4dsy.radio.org/aprs
>
> for the wide view. There is a link there for the detail view, the direct
> URL is:
>
> http://www.wa4dsy.radio.org/aprs/DSY2.html
>
> 73 de Steve
Running NETSCAPE 3.0Beta with the full load of add-ons, and from the
very first posting of URLs to the last one [APRSSIG:3294], all I ever
get is:

"404 Not Found

The requested URL /aprs was not found on this server."

- john -
N8GVG
```

726. Re: [APRSSIG:3279]

From: Don Murray <james-m@ix.netcom.com>
Date: Thu, 25 Jul 1996 02:15:26 -0400
To: aprssig@tapr.org
Message-ID: <31F710FE.3B86@ix.netcom.com>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> OK Guys...
>
> check out
>
> http://www.wa4dsy.radio.org/aprs/DSY1.html and
>
> http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
>
> IT WORKS!
>
> Steve KO4HD

Didn't work for me at either address, Error 404 not found on this server
```

727. Re: [APRSSIG:3296] RE:

From: Dave Creek <dcreek@pixi.com>
Date: Wed, 24 Jul 1996 23:55:17 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.91.960724234937.7919A-100000@gorgax22.pixi.com>
Rendered body type: text/plain

```
On Wed, 24 Jul 1996 ku0g@sprynet.com wrote:

> Same here on the "Documents contains no data"
>
>
> I suspect that you have to be running Netscape 2.0.  I am not as I can't get
> dial-up networking to function with my ISP!
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
>
You must be running Netscape 2.02 or higher for WIN 95 or WIN NT under
WIN 95 or WIN NT! A note in Netscape states Java is disabled when using
16 Bit operating systems.
```

---

728. Personal Mail (again)

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Thu, 25 Jul 1996 07:37:20 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <31F786A0.19DA@worldnet.att.net>
Rendered body type: text/plain

```
It's getting BETTER!!!
Yesterday I had 37 messages and only one that could be considered
personal.(Something about Mother and the Hamfest)
Today 46 and only a reply about Mother.

Bud (WB4LTF)
```

---

729. Re: [APRSSIG:3316] Re:

From: n4nr@vulcan.com (N4NR)
Date: Thu, 25 Jul 96 07:28:00 -0600
To: aprssig@tapr.org
Message-ID: <8C521C0.0012001E51.uuout@vulcan.com>
Rendered body type: text/plain

```
-> Steve Dimse wrote:
-> >
-> > OK Guys...
-> >
-> > check out
-> >
-> > http://www.wa4dsy.radio.org/aprs/DSY1.html and
-> >
-> > http://www.wa4dsy.radio.org/aprs/DSY1.htm2!
-> >
-> > IT WORKS!
-> >
-> > Steve KO4HD
->
-> Didn't work for me at either address, Error 404 not found on this
-> server

Don't forget that capitals may matter. Note the CAPS in /"DSY"
Of course, you will have to wait now to test it.

Just a possibility..

73,

Dennis - N4NR
```

---

730. Re: [APRSSIG:3318] Personal Mail (again)

From: ko6xs@ko6xs.ampr.org
Date: Thu, 25 Jul 96 07:09:08 PDT
To: aprssig@tapr.org
Message-ID: <3275@ko6xs.ampr.org>
Rendered body type: text/plain

```
maybe I missed the relevent part of this discussion, but it reminds me that
I had asked earlier if there was a way to eliminate duplicate mail messages
being received by refusing and/or erasing messages of identical byte counts.
I never saw any replies. Any ideas? Thanks
73s de Jon Kaplan


                                       □□□
                                      (□ □)
         □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
□ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
□ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

731. Re: [APRSSIG:3319] Re:javAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 25 Jul 96 10:29:17 -0400
To: <aprssig@tapr.org>
Message-ID: <199607251426.KAA24293@bridge.net>
Rendered body type: text/plain

```
>-> Didn't work for me at either address, Error 404 not found on this
>-> server
>
Once again, in case you missed the messages last night, the TNC server as
well as the javAPRS pages on WA4DSY's machine are down until further
notice. This is an experimental service, and apparently the heavy load
made Dale's system too unstable to continue. We hope to have this up
again soon, but no promises. There will be other servers in the
future...that IS a promise. Consider this last day a "proof of concept",
and be patient.

In the meantime, if you haven't seen them lately, check out the javAPRS
web pages, with several demos of javAPRS:

http://www.bridge.net/~sdimse/javAPRS.html

If you are interested in seeing more about the inner workings of javAPRS,
including what it takes to add it to an html page, check out the paper I
submitted to the Digital Communication conference:

http://www.bridge.net/~sdimse/dcc.html

73 de Steve KO4HD
```

---

732. Re: [APRSSIG:3317] RE:

From: Joseph Agrelo <jagrelo@cris.com>
Date: Thu, 25 Jul 1996 10:34:40 -0700
To: aprssig@tapr.org
Message-ID: <31F7B030.538A@concentric.net>
Rendered body type: text/plain

```
Dave Creek wrote:
>
> On Wed, 24 Jul 1996 ku0g@sprynet.com wrote:
>
> > Same here on the "Documents contains no data"

> >
> >
> > I suspect that you have to be running Netscape 2.0.  I am not as I can't get
> > dial-up networking to function with my ISP!
> >
> > Best 73,
> > Jim Duncan, KU0G
> > APRS--Kansas City Coordinator
> > EMail:  ku0g@sprynet.com
> >
> >
> You must be running Netscape 2.02 or higher for WIN 95 or WIN NT under
> WIN 95 or WIN NT! A note in Netscape states Java is disabled when using
> 16 Bit operating systems.

Hmmm...I'm running Netscape 2.01 32 bit with no problems at all.

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

733. APRS on the internet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jul 1996 11:27:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960725105708.17716K-100000@arctic>
Rendered body type: text/plain

```
I just did a Yahoo search on APRS.  Last time I did this, I got about 50
matches and most were APRS.  This time I got 750 matches and most were the
Association of Professional Research whatevers...   I guess as more and
more web pages come on line, this was inevitable...

    Although I could search on WinAPRS or MacAPRS, or APRSdos, that is
not the point...  the overall APRS name is much preferable as
distinctions between platforms will become blured...

I know that you can use the AND function in a search to be more
specific, but unless we have a commonly know modifier, this doesnt
give the unique distinction that is needed...

Anyone have a good idea how to make APRS itself stand out better?

de wb4apr@amsat.org
```

---

734. notebook ram

From: "David W. McNeil" <ki5vm@flash.net>
Date: Thu, 25 Jul 1996 11:16:46 -0500
To: aprssig@tapr.org
Message-ID: <31F79DEE.7978@flash.net>
Rendered body type: text/plain

```
OK! I NEED INFO!  HELP!
I am one who purchased a CompuADD Notebook computer only to have the
company go "Out of business" last year. While trying to interface GPS
and Aprs whith CD Rom map databases, I find myself in need of "MORE
RAM".
I haven't been able to find a listing for the CompuADD in the ram board
cross-reference manuals.
I was told at one time, but I can't remember now, who manufactured the
notebook for CompuADD.(Was it Toshiba??)
Ah..regardless...I have a 486 CompuADD model 433TXC in dire need of ram.
Anyone have any info, or can point me in the right direction??

TNX in advance
de Dave  KI5VM
```

---

735. Re: [APRSSIG:3323] APRS on the internet

From: "David W. McNeil" <ki5vm@flash.net>
Date: Thu, 25 Jul 1996 11:42:14 -0500
To: aprssig@tapr.org
Message-ID: <31F7A3E6.DF7@flash.net>
Rendered body type: text/plain

```
Bob:
How feasible would it be to flag for "Aprs System"??
I think I could live with that.
de Dave  KI5VM

Bob Bruninga wrote:
>
> I just did a Yahoo search on APRS.  Last time I did this, I got about 50
> matches and most were APRS.  This time I got 750 matches and most were the
> Association of Professional Research whatevers...   I guess as more and
> more web pages come on line, this was inevitable...
>
>...... but unless we have a commonly know modifier, this doesnt
> give the unique distinction that is needed...
>
> Anyone have a good idea how to make APRS itself stand out better?
>
> de wb4apr@amsat.org
```

---

736. Re: [APRSSIG:3323] APRS on the internet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jul 1996 13:02:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960725124519.17716Q-100000@arctic>
Rendered body type: text/plain

On Thu, 25 Jul 1996, Bob Bruninga wrote:

> I just did a Yahoo search on APRS. Last time I did this, I got about 50
> matches and most were APRS. This time I got 750 and most were NOT...

APRSdos REPLY COMMENT: Well, the obvious APRS + PACKET or APRS + POSITION
are good ideas. Originally APRS was the AUTOMATIC PACKET REPORTING
system, then I changed it to AUTOMATIC POSITION REPORTING SYSTEM, so these
will give inconsistent results.

How about APRS + RADIO?

How do the Search engines decide on the key words? Could everyone that is
doing an APRS WEB site be sure to use the key word RADIO somewhere in
their topics so that this APRS + RADIO would always work?

de wb4apr@amsat.org

---

737. MAR-6.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Thu, 25 Jul 1996 14:05:00 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960725180500.0075dca4@seism1.ess.sunysb.edu>
Rendered body type: text/plain

I sent almost all the chips I ordered, that's more than 50!
If you didn't participate in the group purchase, please don't send any money
to buy some, I won't be able to provide them. Send me an email FIRST, and
i'll see what I can do (I still have a couple of orders pending, if they
don't come I'll have some MAR-6 available...)

I eventually got the time to put together a short "how to" for the GPS pre-
amplifier, project with a PCB layout.
It's available on my web page at:
 http://rock.seism1.ess.sunysb.edu:8080/hobby.html
Please see this has a first draft, certainly not perfect. I would really
appreciate any feedback on it, especially if I made a big mistake.

I would prefer you don't post it on any other web site for now. It will be
freely available after correction and improvements. Do not link my page
either, the server is going to die soon.

I built a prototype on a patch antenna and it works quite well. I didn't
find any suitable double side PCB, so this is not perfect, but it's
definitively worse it. If someone has a source of double side G10 PCB let me
know.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/

---

738. Re: [APRSSIG:3323] APRS on the internet

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Thu, 25 Jul 1996 14:09:05 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960725180905.00689d10@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 10:29 AM 7/25/96 -0500, you wrote:
>I just did a Yahoo search on APRS. Last time I did this, I got about 50
>matches and most were APRS. This time I got 750 matches and most were the
>Association of Professional Research whatevers...   I guess as more and
>more web pages come on line, this was inevitable...
>
>I know that you can use the AND function in a search to be more
>specific, but unless we have a commonly know modifier, this doesnt
>give the unique distinction that is needed...
>

Was it Magellan instead of Yahoo that gave you that?

I tried the search engines available under netscape:

Yahoo: 2 hits only, but both related to APRS
Infoseek: >50 hits, majority related to APRS
Lycos: about the same

Magellan: >50 hits majority related to "Association ...P R whatever".

Nobody is likely to go further than the first 100 hits, if you are after that it's useless.
Actually this is not that bad at all, except for Magellan.

>Anyone have a good idea how to make APRS itself stand out better?
>

This is not easy. It involves understanding how the search engines analyse the information in a page to construct the database. None of the search engines I look at would give an explanation on "how" they do that. It is automatic for sure, Lycos even says the method is "patent pending".

A few tips:

You can add your pages yourself to the majority of these search engines. It's not a guarantee of listing, but a good start. The help section of the search engines explain how to do that.

Everyone putting a page related with APRS should have APRS appear on the page(!). Put APRS in the title of the page too (i.e. the name of the should be like: <title>APRS blabla</title>). Put it as headings 1 (<H1>APRS...</H1>). Make it proeminent.

Someone searching for APRS, is likely (if there's no match) to add "AND radio", "AND packet", "AND packet-radio", "and HAM" ... Be sure these words (or other relevant keywords) appear in the page too. APRS-dos, Win-APRS ... are better than APRSdos or WinAPRS, the hyphen make them 2 separate words.

Even if it is not the object of the page, a short introduction about APRS at the beginning of the main APRS page is likely to contain lots of keywords, and will be listed as abstract by the search engine.

Put your aprs pages in a subdirectory named APRS, may increase the chance of listing (the "Association P R...whatever" is always listed in a sub dir .../APRS/...).

Be sure your pages remain accessible all the time, they are checked periodically. If your change the URL, submit the change to the search engine. The search engine will find and list EVERY page linked to your page (so submitting the main page is enough).

If your add your page to one search engine the other one are likely to catch it soon!

The logo APRS is not bad by itself: this is not an usual word.

Try to find -my- pages with a search engine. My last name is a very common french word (it's a form of "to be") and appears every other line in any french text: you'll see how a search engine can be stupid. Now that I added myself (what an ego!) to a search engine I'm there, :-).

Bernard, KB2TGH.

PS: Gregory Seront is my cousin, the world is sooo small...

Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/

---

739. Re: [APRSSIG:3326] Re: APRS on the internet

From: Joseph Agrelo <jagrelo@cris.com>
Date: Thu, 25 Jul 1996 14:19:18 -0700
To: aprssig@tapr.org
Message-ID: <31F7E4D6.3A7C@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Thu, 25 Jul 1996, Bob Bruninga wrote:
>
> > I just did a Yahoo search on APRS. Last time I did this, I got about 50
> > matches and most were APRS. This time I got 750 and most were NOT...
>
> APRSdos REPLY COMMENT: Well, the obvious APRS + PACKET or APRS + POSITION
> are good ideas. Originally APRS was the AUTOMATIC PACKET REPORTING
> system, then I changed it to AUTOMATIC POSITION REPORTING SYSTEM, so these
> will give inconsistent results.

```
>
> How about APRS + RADIO?
>
> How do the Search engines decide on the key words?  Could everyone that is
> doing an APRS WEB site be sure to use the key word RADIO somewhere in
> their topics so that this APRS + RADIO would always work?
>
> de wb4apr@amsat.org

These "key words" are determined by the people creating the web pages. You have to
specifiy desired key words when submiting your URL to the search engines.

i.e.

URL= http://home.navisoft.com/agrelo/ae.htm
KEY WORDS= DFjr, transmitters, etc.

Key words could be: Automatic Position Reporting System, APRS Radio, APRS Packet,
APRS Telemetry, ETC...

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

740. Re: [APRSSIG:3325] Re: APRS on the internet

From: Joseph Agrelo <jagrelo@cris.com>
Date: Thu, 25 Jul 1996 14:27:27 -0700
To: aprssig@tapr.org
Message-ID: <31F7E6BF.13F8@concentric.net>
Rendered body type: text/plain

```
David W. McNeil wrote:
>
> Bob:
> How feasible would it be to flag for "Aprs System"??
> I think I could live with that.
> de Dave  KI5VM
>
> Bob Bruninga wrote:
> >
> > I just did a Yahoo search on APRS.  Last time I did this, I got about 50
> > matches and most were APRS.  This time I got 750 matches and most were the
> > Association of Professional Research whatevers...   I guess as more and
> > more web pages come on line, this was inevitable...
> >
> >...... but unless we have a commonly know modifier, this doesnt
> > give the unique distinction that is needed...
> >
> > Anyone have a good idea how to make APRS itself stand out better?
> >
> > de wb4apr@amsat.org

It would be difficult to convince everyone, especialy new comers, to use anything
but APRS for the search. Unless..from today, everybody in the world starts calling it
"APRS system" and still, I think people will tend to search on APRS only.
After all...you want people to find APRS who never heard of it before. Those of
us who are fluent APRSers know the difference between what ever else it stands for
and the real McCoy.

Well...just my two cents worth, not a penny less or a penny more, and you know what
that'll get ya;-)

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
```

```
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

741. Rain Gauge

From: Steve Sable <ssable@ic.net>
Date: Thu, 25 Jul 1996 14:42:25 -0400
To: aprssig@tapr.org
Message-ID: <m0ujVNO-003FaAC@ic.net>
Rendered body type: text/plain

```
I am confused with the readings or how to read my rain gauge with the
Ultimeter 500. The gauge's that were avail were the "self emptying"
1/100 or the 1/10. I got the 1/100.
The 500 display read's right now 0.00in. If the amount of rain showed
0.04in on the 500, how would you read this? Would it be 4 one hundredth's
of an inch or 4 tenths of an inch?
Do I need to change the display the on 500 to read 0.0in instead of
0.00in?
====
Does Peet Bros have their web page up yet?
```

---

742. Re: [APRSSIG:3180] Re: Helicopter GPS

From: crawford@vt8200.vetmed.lsu.edu (Dr. Pat M Crawford - Louisiana State University (SVM))
Date: Thu, 25 Jul 1996 13:57:01 -0500
To: aprssig@tapr.org
Message-ID: <96072513570175@vt8200.vetmed.lsu.edu>
Rendered body type: text/plain

[Empty message body]

---

743. Re: [APRSSIG:3323] APRS on the internet

From: William Nolle <wa8inz@cris.com>
Date: Thu, 25 Jul 1996 14:15:51 -0700
To: aprssig@tapr.org
Message-ID: <31F7E407.610F@concentric.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> I just did a Yahoo search on APRS.  Last time I did this, I got about 50
> matches and most were APRS.  This time I got 750 matches and most were the
> Association of Professional Research whatevers...   I guess as more and
> more web pages come on line, this was inevitable...
>
>     Although I could search on WinAPRS or MacAPRS, or APRSdos, that is
> not the point...  the overall APRS name is much preferable as
> distinctions between platforms will become blured...
>
> I know that you can use the AND function in a search to be more
> specific, but unless we have a commonly know modifier, this doesnt
> give the unique distinction that is needed...
>
> Anyone have a good idea how to make APRS itself stand out better?
>
> de wb4apr@amsat.org

Well call it WORLDAPRS, HAMAPRS. I'm sure you will hear more Hi.
--
         \////
         (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

744. Web Search

From: William Nolle <wa8inz@cris.com>
Date: Thu, 25 Jul 1996 14:27:53 -0700
To: aprssig@tapr.org
Message-ID: <31F7E6D9.7ABD@concentric.net>
Rendered body type: text/plain

```
Well i just did a search on WORLDAPRS and neither Yahoo, Lycos, Excite
and others couldn't come up with anything at all. So take it for what
```

```
it's worth.
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

745. Re: [APRSSIG:3325] Re: APRS on the internet

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 25 Jul 96 15:36:03 -0400
To: <aprssig@tapr.org>
Message-ID: <199607251933.PAA24327@bridge.net>
Rendered body type: text/plain

```
>Bob:
>How feasible would it be to flag for "Aprs System"??
>I think I could live with that.
>de Dave  KI5VM
>
That would stand for Automatic Position Reporting System System!

73's (Best Regardses) Steve KO4HD
```

---

746. Re: [APRSSIG:3329] Re: APRS on the internet

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 25 Jul 96 15:37:29 -0400
To: <aprssig@tapr.org>
Message-ID: <199607251934.PAA24557@bridge.net>
Rendered body type: text/plain

```
>These "key words" are determined by the people creating the web pages. You
>have to
>specifiy desired key words when submiting your URL to the search engines.
>
>i.e.
>
>URL= http://home.navisoft.com/agrelo/ae.htm
>KEY WORDS= DFjr, transmitters, etc.
>
>Key words could be: Automatic Position Reporting System, APRS Radio, APRS
>Packet,
>APRS Telemetry, ETC...
>
Depends on the search engine. A lot of them index all text on a page,
e.g. altavista

Steve KO4HD
```

---

747. AEA

From: Roger Breckon <n8chb@tir.com>
Date: Thu, 25 Jul 1996 19:36:33 +0100
To: aprssig@tapr.org
Message-ID: <31F7BEB1.69FD@tir.com>
Rendered body type: text/plain

```
I'm experimenting with my AEA command codes and would like to
compare them.
tnc's - 88 and pk-900 (any other set-up will be fine too)
Please e-mail direct, also I will send my initaea.tnc file
to anyone that asks as long as u don't use as is. hi hi

thanks,

de Roger n8chb@tir.com
```

---

748. KF2WM

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jul 1996 15:58:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960725155649.25020C-100000@arctic>
Rendered body type: text/plain

```
If anyone knows how to contact KF2WM, my mail to him is bouncing...
If you can pass something to him, lemme know...

de wb4apr@amsat.org
```

749. Re: [APRSSIG:3306] Re:

From: rwf <rwf@mindspring.com>
Date: Thu, 25 Jul 1996 11:05:28 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960725150528.006ab668@atl.mindspring.com>
Rendered body type: text/plain

```
I have mentioned this to Steve, that he needs a 32 mile map top see all of
us (and the DIGIS), but he doesn't know what a 32 mile map is.  It means
nothing to a Mac User.  I'll send him the DOS GA-ATL.MAP and he can use it.
Then you'll see all of us.

I was thinking he could snapshot a map like he has been using, but just make
it a bigger radius.  You are right, though about the DeLorme maps being
really "busy" tho.

I'm sending him the map now.

Ralph Fowler
N4NEQ


Lew wrote:
 Only about
>1/5 of the stations are within the Atlanta map, so you might have to
>wait a while.  Also, the APRS symbols are camaflauged by the yellow
>background, and are quite hard to see.
>
```

---

750. Re: [APRSSIG:3328] Re: APRS on the internet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jul 1996 16:23:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960725161335.25020H-100000@arctic>
Rendered body type: text/plain

```
On Thu, 25 Jul 1996, Bernard Seront  tried the search engines available
under netscape and got:

> Yahoo: 2 hits only, but both related to APRS
> Infoseek: >50 hits, majority related to APRS
> Lycos: about the same
> Magellan: >50 hits majority related to "Association ...P R whatever".

APRSdos REPLY COMMENT:  I saw the same thing, 2 hits on YAHOO, but then
saw in the fine print "displaying the first 10 of 750"...  Paging down
ad nausium revealed the rest...

de wb4apr@amsat.org
```

---

751. Re: [APRSSIG:3331] Rain Gauge

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 25 Jul 1996 16:32:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960725162844.25020J-100000@arctic>
Rendered body type: text/plain

```
On Thu, 25 Jul 1996, Steve Sable wrote:

> I am confused with the readings or how to read my rain gauge with the
> Ultimeter 500.  The 500 display read's right now 0.00in. If the amount
> of rain showed 0.04in on the 500, how would you read this? Would it be 4
> one hundredth's of an inch or 4 tenths of an inch?

APRSdos REPLY COMMENT: IN APRS, the display is always the same /Rith

Where "i" is inches, "t" is tenths and "h" is hundredths.  But the count
that APRS gets from the ULTIMETER is simply just a numerical count of
hits.  That is why you have to tell APRS whether each count meants tenths
or 100's instrument....

de wb4apr@amsat.org
```

---

752. Re: [APRSSIG:3334] Web Search

From: Dick Mead <mead@hamal.usc.edu>
Date: Thu, 25 Jul 96 14:06:49 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.838328809.mead@hamal.usc.edu>

Rendered body type: text/plain

aprs and radio

works fine, seems logical, especially with the 'and'

;)

Dick WB6NGC

www.altavista.digital.com scores ~3000

---

753. Re: [APRSSIG:3336] Re: APRS on the internet

From: Joseph Agrelo <jagrelo@cris.com>
Date: Thu, 25 Jul 1996 17:13:30 -0700
To: aprssig@tapr.org
Message-ID: <31F80DAA.693F@concentric.net>
Rendered body type: text/plain

Steve Dimse wrote:

> \>
> \> >These "key words" are determined by the people creating the web pages. You
> \> >have to
> \> >specifiy desired key words when submiting your URL to the search engines.
> \> >
> \> >i.e.
> \> >
> \> >URL= http://home.navisoft.com/agrelo/ae.htm
> \> >KEY WORDS= DFjr, transmitters, etc.
> \> >
> \> >Key words could be: Automatic Position Reporting System, APRS Radio, APRS
> \> >Packet,
> \> >APRS Telemetry, ETC...
> \> >
> \> Depends on the search engine. A lot of them index all text on a page,
> \> e.g. altavista
> \>
> \> Steve KO4HD

Oh!

73 De Joe N2OOC

---

754. Re: [APRSSIG:3326] Re: APRS on the internet

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 25 Jul 1996 18:22:00 -0700
To: aprssig@tapr.org
Message-ID: <31F81DB8.4996@cyberenet.net>
Rendered body type: text/plain

Search engines get their ques from the author of the page. That is when
the page is created the author can specify in the document topics which
when the page is registered with a search engine are what are used to
create indexes that the search engine will use during a search.

So it seemd to me that the pages already out there would need to be
edited to include a consistant reference topic, maybe
Amateur Radio + APRS or APRS + GPS or something along these lines.

But first an agreement on topic name/title should be discussed and pinned
down here on the SIG.

73...Bob, n2iph

---

755. APRS and internet searches

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 25 Jul 1996 18:35:01 -0700
To: aprssig@tapr.org
Message-ID: <31F820C5.1979@cyberenet.net>
Rendered body type: text/plain

The text below copied from a ALta-Vista search on

"APRS + Packet Radio"

AltaVista Web Pages

```
Found 20579 matches containing aprs + packet radio.
Displaying matches 11-20.


73...Bob

NNNN
```

756. Re: [APRSSIG:3324] notebook ram

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Thu, 25 Jul 1996 18:58:52 -0400
To: aprssig@tapr.org
Message-ID: <31F7FC2C.36A0@pobox.com>
Rendered body type: text/plain

```
David W. McNeil wrote:


> Ah..regardless...I have a 486 CompuADD model 433TXC in dire need of ram.
> Anyone have any info, or can point me in the right direction??
>
> TNX in advance
> de Dave  KI5VM


Check out the Raod Warrier Outpost at http://www.warrior.com/

-Lew
```

757. Re: APRS on the internet and Searches

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 25 Jul 1996 19:10:32 -0400
To: aprssig@tapr.org
Message-ID: <199607252310.TAA06083@grumpy.magg.net>
Rendered body type: text/plain

```
Most of the hits I get on APRS is from where else ??? The Naval Post
Graduate school I think. Something about minutes of some meetings, whatever
it is they have a LOT of DATA!!!!


>On Thu, 25 Jul 1996, Bob Bruninga wrote:
>
>> I just did a Yahoo search on APRS.  Last time I did this, I got about 50
>> matches and most were APRS.  This time I got 750 and most were NOT...
>
>APRSdos REPLY COMMENT:  Well, the obvious APRS + PACKET or APRS + POSITION
>are good ideas.  Originally APRS was the AUTOMATIC PACKET REPORTING
>system, then I changed it to AUTOMATIC POSITION REPORTING SYSTEM, so these
>will give inconsistent results.
>
>How about APRS + RADIO?
>
>How do the Search engines decide on the key words?  Could everyone that is
>doing an APRS WEB site be sure to use the key word RADIO somewhere in
>their topics so that this APRS + RADIO would always work?
>
>de wb4apr@amsat.org
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

758. Re: javAPRS with Live data

From: k0bwn@juno.com (James L McVay)
Date: Wed, 24 Jul 1996 18:09:38 PST
To: aprssig@tapr.org
Message-ID: <19960725.164643.9590.0.k0bwn@juno.com>
Rendered body type: text/plain

```
On Wed, 24 Jul 1996 17:36:33 -0500 (CDT) Steve Dimse <sdimse@bridge.net>
writes:
>>All I get is
>>
>>
```

```
>>                    Sorry, your browser doesn't do Java!
>>
>>
>>BUT IT DOES!  I am running Netscaoe 2.02 16 bit.  What am I doing
>wrong?

Sorry I can't help because I'm not knowledgeable enough but I can say
that it works with Netscape 2.01E

NEAT!!!

Jim, K0BWN
k0bwn@juno.com.
```

---

759. Re: [APRSSIG:3338] KF2WM

From: Robert Radmore <R.Radmore@worldnet.att.net>
Date: Thu, 25 Jul 1996 23:36:13 +0000
To: aprssig@tapr.org
Message-ID: <19960725233610.AAA369@LOCALNAME>
Rendered body type: text/plain

```
At 08:11 PM 7/25/96 +0000, you wrote:
>If anyone knows how to contact KF2WM, my mail to him is bouncing...
>If you can pass something to him, lemme know...
>
>de wb4apr@amsat.org
>
Bob,
KF2WM is a personal friend. If you wish to answer thru me I will forward by
landline. He does have his validation if that is the question.
73 de N2PWP
```

---

760. Re: [APRSSIG:3345] APRS and internet searches

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 25 Jul 96 20:09:40 -0400
To: <aprssig@tapr.org>
Message-ID: <199607260006.UAA21543@bridge.net>
Rendered body type: text/plain

```
>The text below copied from a ALta-Vista search on
>
>"APRS + Packet Radio"
>
>
>AltaVista Web Pages
>
>Found 20579 matches containing aprs + packet radio.
>Displaying matches 11-20.
>
In AltaVista the syntax above results in searching for all docs
containing Packet, and the results are prioritized by the other two
words. A plus sign means to be found it must contain that word, and
phrases must be in double quotes. The search you meant (I think) would be:

+APRS +"Packet Radio"

Which finds all docs containing both APRS and the phrase packet radio.

+APRS +Packet +Radio

would only find docs containing all three words.

+APRS +(Packet Radio)

would find docs with APRS and at least one of packet or radio.

This is my favorite search engine. All the instructions are on line. BTW,
this is the simple syntax...there is a more powerful advanced search!

73 de Steve
```

---

761. javAPRS rides again

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 25 Jul 96 20:42:53 -0400
To: <aprssig@tapr.org>
Message-ID: <199607260040.UAA24785@bridge.net>
Rendered body type: text/plain

OK, we're ready to try again.

Dale feels that the problem was due to the load of WWW server and javAPRS. Therefore, only local applets will be able to to access the server. This means you will not be able to use Netscape to access the data.

You must get the Applet Viewer from Sun...as far as I know it only comes as part of the Java Development Kit. Here is the URL:

http://java.sun.com/java.sun.com/download.html

Once this is installed, you will need to turn off the security features. This is accessed in the properties dialog, under the File menu on the Mac. You others are on your own. Then, you will need the javAPRS package, at this URL:

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/javAPRS.zip

Unzip this, and run any of the three HTML files in the Applet Runner. Each of these will display a different map:

atlanta.html is the DeLorme detail of Atlanta
seast.html is the wide view of the Southeast US
ga-atl.html is a medium view (I'm told it's a "32 mile map") of the greater Atlanta area. This is the best place to start.

Please only run one file at a time, in order to keep the load on the server reasonable.

Enjoy.

Steve KO4HD

---

762. Re: [APRSSIG:3331] Rain Gauge

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 25 Jul 1996 22:11:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960725215621.3212A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Thu, 25 Jul 1996, Steve Sable wrote:

> I am confused with the readings or how to read my rain gauge with the
> Ultimeter 500. The gauge's that were avail were the "self emptying"
> 1/100 or the 1/10. I got the 1/100.
> The 500 display read's right now 0.00in. If the amount of rain showed
> 0.04in on the 500, how would you read this? Would it be 4 one hundredth's
> of an inch or 4 tenths of an inch?
> Do I need to change the display the on 500 to read 0.0in instead of
> 0.00in?

4 One Hundredths of an inch is correct, and you don't need to change the display.

I'm glad you posted, I was meaning to post something myself (actually tried earlier this evening, but my provider dumped me)

I recently added the .1 rain gauge to my Ultimeter II. I do not believe that APRS is displaying rain info properly. Bob, can you clear things up for me.

Rxxx is for rain in the last hour (as per the docs) The values for xxx are, inches, tenths, and hundredths

Pxxx is for rain for the last 24 hours (same values)

Does APRS keep a time value for EACH click?
Does APRS delete one click from the R field when that time value exceeds 60 min? Or Does APRS keep track of all clicks for 1 hour and then re-set to zero for the next hour?

According to how I reed the docs, the P field is the amount of rain for the last 24 hours. Yet when we had a rain storm a few evenings ago, by the next morning the P field was down to zero (a lot less than 24 hours)

==

```
Following comments are for the AutoWX program (Bob, is not the author but
he has posted here before)

We have one local user of AutoWX (WB1F, Melrose, Mass) and HIS rain
reports are NOT to APRS standards!  Instead of inches, tenths, and
hundredths HIS reports are tens, inches, tenths.

I know, because our two WX stations are only about 12 miles apart and
I've looked at both during the last storm. (it was a general rain and
there would NOT be a tenfold difference in actual rainfall)

Anyone else notice this?

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

763. Re: [APRSSIG:3351] javAPRS rides again

From: "Roderick, Ren" <rroderick@intp.com>
Date: Thu, 25 Jul 96 22:12:12
To: aprssig@tapr.org
Message-ID: <9606258383.AA838357932@intp.intp.com>
Rendered body type: text/plain

```
Date:    7/25/96 9:38 PM


     Steve,

     Way to GO!

     I downloaded the JDK and installed it, then downloaded your stuff
     from TAPR.

     However, when I unzipped your files, two things happened:

        1       Using pkzip204g, I see that I needed the -d flag to
                maintain directory structure.  Had problems with
                8x3 filename vs what your code was looking for....

        2       So, I download the UnZip program referenced in the JDK
                download instructions and tried again.  Still had the
                problem with 8x3 file names in the javaprs subdirectory.

     Both 'extracts' were onto NT machines running NTFS for long file name
     support...

     So, using the error messages from appletviewer as a guide, I
     eventually renamed all of the .cla files to .class, changes all of the
     files containing *pars or *par or *parse to *parser, and finally
     changed paramete.cla to parameters.class.  Whew!

     Maybe you can find a version of some zip tool that maintains long file
     names and re-upload the files?

     Aside from these minor problems, WOW!

     Don't the people in Georgia ever sleep?  It's 9:30 PDST as I write
     this and I'm still getting updates.


     Ren--WA7QFR
     rroderick@intp.com
     renr@eskimo.com
     renr@stimpy.wa7qfr.ampr.org

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3351] javAPRS rides again
Author:  aprssig@tapr.org
Originator: aprssig@tapr.org at Internet-Mail
Date:    7/25/96 6:41 PM


OK, we're ready to try again.


     The important directions deleted   ;-)
```

Please only run one file at a time, in order to keep the load on the server reasonable.

Enjoy.

Steve KO4HD

764. GPS Antenna Calibration Paper

From: Bob Winingham <kc5ejk@onramp.net>
Date: Fri, 26 Jul 96 06:01:32 0500
To: aprssig@tapr.org
Message-ID: <199607260600.BAA08202@mailhost.onramp.net>
Rendered body type: text/plain

There is a paper by Dr. G.L. Mader of the Geosciences Research Division , NGS, NOAA discussing the calibration of GPS antennas.

The research was used to develop mapping functions to allow the mixture of different antenna types. Large errors in the vertical result when mixing antenna types without such a capability.

The URL is www.grdl.noaa.gov/GRD/GPS/Projects/ANTCAL/antcal_toc.html.

```
<=====================================================>
<== Donald M. Mulcare        email:dmulcar@ibm.net ==>
<== NGS Advisor to Maryland  410.333.1240 (voice)  ==>
<=====================================================>
```

765. javAPRS zip problem

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 26 Jul 96 02:38:41 -0400
To: <aprssig@tapr.org>
Message-ID: <199607260635.CAA03238@bridge.net>
Rendered body type: text/plain

I'm told there may be a problem with the zip file I uploaded to the tapr ftp site. Apparently the program "WinZip" truncates the file names to and 8.3 filename. Last time I had to deal with an 8.3 file system was 1984, when I left CP/M for the Mac (how do people live like that???) Anyway, I need some help.

1. What do the class files look like on the Windows version of Java (mac uses .class)?

2. Is there some other Windows zip file that would preserve the full file names? (I've heard a rumor that now Windows has long file names...)

3. If you change the classes to .class manually, does it work then?

For now, I'd like to hear all success and failure stories (emailed to me direct to save bandwidth, please). I'll share with the sig what works and doesn't.

Thanks de Steve KO4HD

766. Re: [APRSSIG:3353] Re: javAPRS rides again

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 26 Jul 96 03:04:43 -0400
To: <aprssig@tapr.org>
Message-ID: <199607260701.DAA04433@bridge.net>
Rendered body type: text/plain

>   Maybe you can find a version of some zip tool that maintains long file
>   names and re-upload the files?
>
>   Aside from these minor problems, WOW!
>

OK, I found the problem. It turns out there is a hidden option in the zip program I was using that truncated to 8.3 filenames. It is fixed now, a new version is up on the TAPR server. Sorry for the problem, thanks to Ren Roderick for pointing me in the right direction.

Have fun...

Steve KO4HD

767. Re: [APRSSIG:3324] notebook ram

From: Joe Scalet <jscalet@dound.net>
Date: Fri, 26 Jul 1996 07:53:12 -0700
To: aprssig@tapr.org
Message-ID: <31F8DBD8.3749@dound.net>
Rendered body type: text/plain

```
David W. McNeil wrote:
>
> OK! I NEED INFO!  HELP!
> I am one who purchased a CompuADD Notebook computer only to have the
> company go "Out of business" last year. While trying to interface GPS
> and Aprs whith CD Rom map databases, I find myself in need of "MORE
> RAM".
> I haven't been able to find a listing for the CompuADD in the ram board
> cross-reference manuals.
> I was told at one time, but I can't remember now, who manufactured the
> notebook for CompuADD.(Was it Toshiba??)
> Ah..regardless...I have a 486 CompuADD model 433TXC in dire need of ram.
> Anyone have any info, or can point me in the right direction??
>
> TNX in advance
> de Dave  KI5VMdial 800-360-7170 and request fax document #1087001 for tech info then
call 800-726-9695 for a dealer near you.
```

---

768. Re: [APRSSIG:3352] Re: Rain Gauge

From: Les Blalock <lcb911@apex2000.net>
Date: Fri, 26 Jul 1996 08:15:10 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960726081221.1f4fb3d4@apex2000.net>
Rendered body type: text/plain

```
>Following comments are for the AutoWX program (Bob, is not the
author but
>he has posted here before)
>
>We have one local user of AutoWX (WB1F, Melrose, Mass) and HIS rain
>reports are NOT to APRS standards!  Instead of inches, tenths, and
>hundredths HIS reports are tens, inches, tenths.
>
>I know, because our two WX stations are only about 12 miles apart and
>I've looked at both during the last storm. (it was a general rain and
>there would NOT be a tenfold difference in actual rainfall)
>
>Anyone else notice this?
>
>Richard Amirault              N1JDU           Boston,
Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>

AutoWx does report in tenths only (up to 999 tenths) and has been
fixed as of version 3.6   I never noticed the change (?) in the
report format because here in West Texas, rain is mostly a
theoretical phenomenom.

Les/N5KOA
```

---

769. Re: [APRSSIG:3352] Re: Rain Gauge

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 26 Jul 1996 09:59:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960726090437.22398B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 25 Jul 1996, Richard Amirault wrote:

> Is APRS displaying rain info properly?
> Rxxx  is for rain in the last hour in inches, tenths, and hundredths
> Pxxx is for rain for the last 24 hours (same values)
>
> Does APRS delete one click from the R field when that time valueexceeds
> 60 min?  Or Does APRS keep track of all clicks for 1 hour and then re-set
> to zero for the next hour?

APRSdos REPLY COMMENT:  The WX station outputs the current rain count.
APRS has a buffer of 6 values for the per-hour count and every 10 minutes
saves the new value on the end and throws away the oldest value.  The rain
per hour is the difference between the latest value and the oldest value
(one hour ago).  Same thing for the P  value, except that it keeps 24
```

hourly values...

de wb4apr@amsat.org

---

770. Re: [APRSSIG:3327] MAR-6.

From: crawford@vt8200.vetmed.lsu.edu (Dr. Pat M Crawford - Louisiana State University (SVM))
Date: Fri, 26 Jul 1996 09:02:52 -0500
To: aprssig@tapr.org
Message-ID: <96072609025234@vt8200.vetmed.lsu.edu>
Rendered body type: text/plain

Bernard:
     Please let me know if I am one of those pending orders.

Thanks,

M.Pat - K5AHE

ps - Going to look at your web page for antenna now.

---

771. Kidnapped (again?)

From: Mark Sproul <sproul@ap.org>
Date: Fri, 26 Jul 1996 11:08:06 -0400
To: aprssig@tapr.org
Message-ID: <v03007607ae1e8e528ed4@[165.1.27.20]>
Rendered body type: text/plain

To the APRS sig

The last time I went away and did not respond for a week, rumors started to circulate that I (we) had been kidnapped.

I am going to be out of town for the next 2 weeks and when I get back I am sure its going to take me at least a week to get caught up on email.

Keith will still be around and will be able to answer most questions, please send any registration questions to him at ksproul@noc.rutgers.edu

You can expect the next release of WinAPRS around the end of August.

Mark

```
__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

772. mapping offsets

From: ko6xs@ko6xs.ampr.org
Date: Fri, 26 Jul 96 08:13:21 PDT
To: aprssig@tapr.org
Message-ID: <3357@ko6xs.ampr.org>
Rendered body type: text/plain

I just got WinAPRS 1,1,2 up and running as a standalone tracker with my Garmin 45. It seems to work OK but the placement ofmy position seems to be off. Most of the time the position reported by the GPS shows up on the map as .8 to 2.5 miles west of my actual position. This happens both with WinAprs maps and with my own maps, made for DOSAprs using mkmap.exe. The Garmin is outputting wps84 datun format. What's wrong here?? Thanks for your help.
73s de Jon Kaplan

```
                                        □□□
                                       (□ □)
         □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

773. Re: [APRSSIG:3293] Re: javAPRS with Live data

From: Gary Arnold <garnold@naples.net>
Date: Fri, 26 Jul 1996 15:22:29 -0700
To: aprssig@tapr.org
Message-ID: <31F94525.17C5@naples.net>
Rendered body type: text/plain

Dave Kaplan wrote:
>
> At 03:34 PM 7/24/96 -0500, you wrote:
> >>Just keeps coming up with "DOCUMENT CONTAINS NO DATA"
> >
> >The server has been rebooted and I am reloading javAPRS...hopefully this
> >will work!
> >
> >Steve KO4HD
> >
> >
> >
> All I get is
>
>   Sorry, your browser doesn't do Java!
>
> BUT IT DOES! I am running Netscaoe 2.02 16 bit. What am I doing wrong?

16 bit Netscape does JavaSCRIPT, not Java. Only the 32 bit runs true
Java.

73,
Gary
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves "breakfast at any time. I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary

---

774. Re: [APRSSIG:3317] RE:

From: Gary Arnold <garnold@naples.net>
Date: Fri, 26 Jul 1996 15:42:54 -0700
To: aprssig@tapr.org
Message-ID: <31F949EE.6A26@naples.net>
Rendered body type: text/plain

Dave Creek wrote:
>
> On Wed, 24 Jul 1996 ku0g@sprynet.com wrote:
>
> > Same here on the "Documents contains no data"
> >
> >
> > I suspect that you have to be running Netscape 2.0. I am not as I can't get
> > dial-up networking to function with my ISP!
> >
> > Best 73,
> > Jim Duncan, KU0G
> > APRS--Kansas City Coordinator
> > EMail: ku0g@sprynet.com
> >
> >
> You must be running Netscape 2.02 or higher for WIN 95 or WIN NT under
> WIN 95 or WIN NT! A note in Netscape states Java is disabled when using
> 16 Bit operating systems.

Correct...the 16 bit version of Netscape (2.0 or later) works with
JavaSCRIPT (created by Netscape), but NOT with Sun's Java. Also: check
OPTIONS - NETWORK - LANGUAGE and be sure JavaScript is checked (both
Java AND JavaScript in the 32 bit versions) or it won't work.

The beauty of JavaScript is that it allows client side processing
instead of running the Java processor on the server. It's also not
capable of everything Java does...yet.

73,
Gary WB2WPA
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves "breakfast at any time. I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary

---

775. Re: [APRSSIG:3362] mapping offsets

From: Joseph Agrelo <jagrelo@cris.com>
Date: Fri, 26 Jul 1996 13:06:45 -0700
To: aprssig@tapr.org
Message-ID: <31F92555.6EBD@concentric.net>
Rendered body type: text/plain

```
ko6xs@ko6xs.ampr.org wrote:
>
> I just got WinAPRS 1,1,2 up and running as a standalone tracker with my
> Garmin 45. It seems to work OK but the placement ofmy position seems to be
> off. Most of the time the position reported by the GPS shows up on the map
> as .8 to 2.5 miles west of my actual position. This happens both with
> WinAprs maps and with my own maps, made for DOSAprs using mkmap.exe. The
> Garmin is outputting wps84 datun format. What's wrong here?? Thanks for
> your help.
> 73s de Jon Kaplan
>
>                                         óóó
>                                        (□ ¢)
>          ÉÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍoOOÍ(_)ÍOOoÍÍÍÍÍÍÍÍÍ»
>          º ²±°  TNX     73...de...ko6xs, John       °±² º
>          º ²±°  smtp  ko6xs.ampr.org. 44.16.1.241   °±² º
>          º ²±°  ax25  ke6daq@wb6ymh.#soca.ca.usa    °±² º
>          º ²±°  email ko6xs@wwcb.earthlink.net      °±² º
>          ÈÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ¼
```

Jon,

My guess is that you should be out putting NEMA 0183 V1.5 (NEMA/NEMA) 4800 baud.
This is a semi-educated guess beacase I don't know which Garmin you have.

```
73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

776. Re: [APRSSIG:3359] Re: Rain Gauge

From: William Nolle <wa8inz@cris.com>
Date: Fri, 26 Jul 1996 12:13:40 -0700
To: aprssig@tapr.org
Message-ID: <31F918E4.4F9F@concentric.net>
Rendered body type: text/plain

Bob in version 76f like the last few versions when i place an object on
the map with a direction and speed it doesn't move at all. I think i
asked you this question once before. Did the command change??.

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
```

```
        Bill WA8INZ
      wa8inz@cris.com
     wa8inz@amsat.org
```

---

777. Bugs??

From: William Nolle <wa8inz@cris.com>
Date: Fri, 26 Jul 1996 12:16:44 -0700
To: aprssig@tapr.org
Message-ID: <31F9199C.62B3@concentric.net>
Rendered body type: text/plain

```
O Bob while i'm at it. When loading a backup file saved froma previous
session all calls dissapear, all but my own call. I also brought this to
your attention in a previouse version i think.
--
          \////
          (o o)
    *--oOO-(_)-OOo--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

778. APRS s/w for Unix/X

From: Rick Ebert <rick@ipac.caltech.edu>
Date: Fri, 26 Jul 1996 10:53:50 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.960726104726.5447D-100000@hutton>
Rendered body type: text/plain

```
Hello,

  I have heard that there is, or may be in development, a UNIX/X-Windows
  APRS program.  I would appreciate any information on this, especially
  w.r.t. versions for Linux.

Thanks,

 rick... KE6ONX

Rick Ebert

Infrared Processing and Analysis Center (IPAC)
Jet Propulsion Laboratory (JPL)
California Institute of Technology (CalTech)
```

---

779. Made Trip; Alas, sans APRS

From: Randy Hammock <kc6hur@garc.gsfc.nasa.gov>
Date: Fri, 26 Jul 1996 14:04:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.93.960726133744.6478C-100000@garc.gsfc.nasa.gov>
Rendered body type: text/plain

```
I made the trip I had planned across the country and have started working
at the new job.  I had originally planned to use APRS and hod a nice setup
for it; however, when I stopped to fill-up at 100 miles into the trip, I
discovered that I had just a wire stub where a Larson 2/70 on a mag mount
had been. (That makes $240 worth of antennas and mag mounts lost to paper
bags, tree limbs and who knows what.  I've lost three sets.)  Oh, well. As
a result, No APRS operation on this trip. Many thanks to those who
responded to my initial posting about making the trip.


--
Randy Hammock   KC6HUR      | E-Mail: kc6hur@garc.gsfc.nasa.gov
P.O. Box 12028              |  Voice: +1-818-248-6924
LA CRESCENTA CA 91224-7028  |  Pager: +1-818-423-2062
```

---

780. Re: [APRSSIG:3356] Re: javAPRS rides again

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Fri, 28 Jun 1996 11:16:33 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960628101633.00916470@dgps.com>
Rendered body type: text/plain

```
Steve,
Whats the address of the TAPR server??
At 02:10 AM 7/26/96 -0500, Steve Dimse wrote:
```

```
>>     Maybe you can find a version of some zip tool that maintains long file
>>     names and re-upload the files?
>>
>>     Aside from these minor problems, WOW!
>>
>OK, I found the problem. It turns out there is a hidden option in the zip
>program I was using that truncated to 8.3 filenames. It is fixed now, a
>new version is up on the TAPR server. Sorry for the problem, thanks to
>Ren Roderick for pointing me in the right direction.
>
>Have fun...
>
>Steve KO4HD
>
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

---

781. : RE APRS for Unix/Linux/X-Windows

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 26 Jul 96 14:45:30 EDT
To: aprssig@tapr.org, <rick@ipac.caltech.edu>
Message-ID: <CMM-RU.1.4.838406730.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>  I have heard that there is, or may be in development, a UNIX/X-Windows
>  APRS program.  I would appreciate any information on this, especially
>  w.r.t. versions for Linux.


We are indeed working on a X-Windows/Unix/Linux version.

We had a demo running at Dayton with X-APRS running on a SUN. At that point
the only thing that was working was the maps. But we ARE working on it. At
this point we are NOT promising any dates...

Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

782. Re: [APRSSIG:3365] Re: mapping offsets

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 26 Jul 1996 14:21:31 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960726192131.008f0de4@144.188.134.33>
Rendered body type: text/plain

```
Does not the phrase "standalone tracker" typically mean no computer
involved? Don't you really mean "mobile APRS station" if you have a computer
connected?  Not to be nit-picking mind you.



At 12:14 PM 7/26/96 -0500, you wrote:
>ko6xs@ko6xs.ampr.org wrote:
>>
>> I just got WinAPRS 1,1,2 up and running as a standalone tracker with my
>> Garmin 45.
Paul, WD9ABE
```

---

783. APRS7.6F

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Fri, 26 Jul 1996 17:25:23 +0000
To: aprssig@tapr.org
Message-ID: <199607262132.RAA32345@hemisphere.neocomm.net>
Rendered body type: text/plain

I have a small problem here. My floppy drive keeps filling up with
*.log and *.hst files. I have no Postions marked for tracking, I do
not have Nmea Log on , and Log is not on. What do I do to stop
saving these files? Space is very limited on a 720k bootable floppy
with APRS76f on it.

Thanks

chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM

---

784. Re: [APRSSIG:3360] Re: MAR-6.

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Fri, 26 Jul 1996 14:46:41 -0700 (PDT)
To: "Dr. Pat M Crawford - Louisiana State University (SVM)" <crawford@vt8200.vetmed.lsu.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.93.960726144430.1344E-100000@spork.callamer.com>
Rendered body type: text/plain

Hi all. I have been trying to get into the web page without luck since it
was first published. Would you again put the address on the BBS? I have:
http://rock.seism1.ess.sunysb.edu:8080/hobby.html
Is this right?   thanks Cliff K7RR

On Fri, 26 Jul 1996, Dr. Pat M Crawford - Louisiana State University (SVM) wrote:

```
>  Bernard:
>      Please let me know if I am one of those pending orders.
>
> Thanks,
>
> M.Pat - K5AHE
>
> ps - Going to look at your web page for antenna now.
>
>
```

---

785. Neophyte question

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Fri, 26 Jul 1996 17:53:25 -0700
To: aprssig@tapr.org
Message-ID: <199607270053.RAA16146@netcom22.netcom.com>
Rendered body type: text/plain

How well does APRS run on an HP200? Obviously, lots of maps are a
problem.
73, doug

---

786. Re: [APRSSIG:3362] mapping offsets

From: KE6VRL@aol.com
Date: Fri, 26 Jul 1996 21:37:14 -0400
To: aprssig@tapr.org
Message-ID: <960726213713_165170531@emout15.mail.aol.com>
Rendered body type: text/plain

>I just got WinAPRS 1,1,2 up and running as a standalone tracker with my
>Garmin 45. It seems to work OK but the placement ofmy position seems to be
>off.

The problem lies in the Map Datum used to create the map. You need to set
your GPS reciever to whatever mapdatum was used to make the map. Someone
made a program to update old maps to the new map datum but I forgot who . . .
anyone from San Diego Remember???

73 Hector KE6VRL@aol.com

---

787. APRS on the Internet...

From: ku0g@sprynet.com
Date: Fri, 26 Jul 1996 22:44:38 -0700
To: APRSSIG@tapr.org
Message-ID: <199607270544.WAA10271@m1.sprynet.com>
Rendered body type: text/plain

Steve or somebody, please (Karla cleaned house yesterday) all of the prints of the messages of accessing the Atlanta APRS Internet site were lost! Could somebody put up the URL and the Java Information again?

I was finally motivated to work on and get Dial-Up Networking to function tonight so I could use Netscape 2.01 just to look at this experiment....

Special notes and help will be appreciated! Sorry to waste bandwidth due to repeats....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

788. Re: [APRSSIG:3372] Re: mapping offsets

From: ko6xs@ko6xs.ampr.org
Date: Sat, 27 Jul 96 05:27:54 PDT
To: aprssig@tapr.org
Message-ID: <3490@ko6xs.ampr.org>
Rendered body type: text/plain

I stand corrected! I meant I had a setup with a computer and a Garmin 45 but
no radio and no tnc. Maybe that's a mobile deaf & dumb :-)
73s de Jon Kaplan

```
                                               □□□
                                              (□ □)
          □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
          □ □□□  TNX     73...de...ko6xs, John       □□□ □
          □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
          □ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
          □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
          □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

789. Re: [APRSSIG:3375] Neophyte question

From: n4nr@vulcan.com (N4NR)
Date: Sat, 27 Jul 96 07:29:00 -0600
To: aprssig@tapr.org
Message-ID: <8C541C1.0012001E8E.uuout@vulcan.com>
Rendered body type: text/plain

-> How well does APRS run on an HP200? Obviously, lots of maps are a
-> problem.
-> 73, doug

Hi Doug,

I have run APRS on my 200LX, and it runs pretty well in dedicated DOS mode. The maps can take a little while to draw initially. Also the aspect ratio is a little off due to the screen's width/height ratio.

I have 16 Mb of flash ram for a HD, so the maps are not a problem. I have the standard USA set plus detailed Alabama maps. Of course you could only have the map(s) you REALLY need loaded.

```
     _   ______________________________________________________   _
    / ) |                                                      | ( \
   / /  | Dennis Dease -  n4nr@vulcan.com  -or- n4nr@amsat.org |  \ \
 _( (_  | _ The WireNET BBS - Birmingham's Amateur Radio BBS   |  _) )_
(((\ \> |/ )     Home of vulcan.com - - - 205-444-WNET      ( \| </ /)))
(\\\\ \_/ / PACSATS KO-23, KO-25, UO22 & AO-13 Mode B and S  \ \_/ ////)
 \       /            WWW: http://scott.net/~n4nr            \       /
  \    _/   E-Mail to: n4nr-key@vulcan.com for PGP public key  \_    /
  /   / |   robot-info@vulcan.com for list of available info   | \   \
 /   /  |______________________________________________________|  \   \
```

---

790. Re: Re: MAR-6.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Sat, 27 Jul 1996 10:34:05 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960727143405.0074b240@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 04:53 PM 7/26/96 -0500, you wrote:
>Hi all. I have been trying to get into the web page without luck since it
>was first published. Would you again put the address on the BBS? I have:

```
>http://rock.seism1.ess.sunysb.edu:8080/hobby.html
>Is this right?   thanks  Cliff K7RR

That's correct. Don't forget the :8080.
The server used to crash every now and then, but it seems stable now.
If someone cannot connect, try to report any indication that may help fix a
possible problem (i.e. unable to connect, server not in DNS, page not found,
waiting  ...).
The network is known to be quite slow on Long Island, maybe you need to be
patient: but that shouldn't prevent connection.

I'll post the file to the TAPR ftp server.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

---

791. OOOPS here is the correct URL.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Sat, 27 Jul 1996 11:19:53 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960727151953.0070decc@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 09:54 AM 7/27/96 -0500, you wrote:
>At 04:53 PM 7/26/96 -0500, you wrote:
>>Hi all.  I have been trying to get into the web page without luck since it
>>was first published.  Would you again put the address on the BBS? I have:
>>http://rock.seism1.ess.sunysb.edu:8080/hobby.html
>>Is this right?   thanks  Cliff K7RR

That's NOT correct.
The correct address is:

http://rock.ess.sunysb.edu:8080/hobby.html

(Don't forget the :8080 anyway).

FYI: I don't have root privileges on these machines, so I can't fix the
address mess. Sorry about that, I know it's a pain.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

---

792. AutoWx Update

From: Les Blalock <lcb911@apex2000.net>
Date: Sat, 27 Jul 1996 12:37:42 -0700
To: aprssig@tapr.org
Message-ID: <31FA7006.6736@apex2000.net>
Rendered body type: text/plain

```
AutoWeather version 2K2.7L is now in the tapr ftp library (/WEATHER
directory)
This version has the wx beacons in the correct APRS format, showing /P
and /R in 100ths.  This version is for the U-2000 and U-500 only.
(The corrected version for the U-II is AutoWx 6.5)



--
Les/N5KOA
lcb911@apex2000.net
```

---

793. Settings for Standalone PICO/45?

From: Kent V Hufford <khufford@erols.com>
Date: Sat, 27 Jul 1996 17:54:57 -0400
To: aprssig@tapr.org
Message-ID: <199607271755.NAA20223@smtp1.erols.com>
Rendered body type: text/plain

```
I have been trying to get a GARMIN 45, PicoPacket w/2nd serial port to work
in a standalone mode. That is without the laptop APRS running. Have not been
able to do this yet. I saved lots of emails on this sig about what to do,
most contradict each other. Could someone(s) please give me the correct
```

settings for the 45 AND the PicoPacket to work in the standalone mode. MANY thanks in advance.

Kent

KQ4KK

794. 2 questions

From: KD4EMI@aol.com
Date: Sat, 27 Jul 1996 13:59:20 -0400
To: aprssig@tapr.org
Message-ID: <960727135919_586163243@emout16.mail.aol.com>
Rendered body type: text/plain

#1
I saw a most unique antenna array today and thought one of you could help. I would describe it as a plexiglass looking jellyfish shaped thing, but not like a parabolic dish but 4 small (<2ft diam) plexigalss thingies. shaped like bells .They were poiinting DOWN to the base of the antenna .
Any clue ?

#2
GARMIN GPS 45

Drove about 1 hour and the 45 just locked up. No sats, but all functions normal, did not track. It was cool in the car (at night with air on) but I had the internal GPS light on. Shut it off, rebooted, nothing. Parked the car, ate and came back and in the same spot, turned it on, and 6 sats came on line...Weird...

Mike
KD4EMI@AOL.COM
..

795. Re: [APRSSIG:3383] Settings for Standalone PICO/45?

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 27 Jul 1996 14:34:54 -0500
To: aprssig@tapr.org
Message-ID: <199607271926.OAA24618@tapr.org>
Rendered body type: text/plain

At 12:59 PM 96-7-27 -0500, you wrote:
>I have been trying to get a GARMIN 45, PicoPacket w/2nd serial port to work
>in a standalone mode. That is without the laptop APRS running. Have not been
>able to do this yet. I saved lots of emails on this sig about what to do,
>most contradict each other. Could someome(s) please give me the correct
>settings for the 45 AND the PicoPacket to work in the standalone mode. MANY
>thanks in advance.
>
>Kent
>
>KQ4KK
>
Here is my pico config for standalone weather with a U-2000 just change the gpstext value to that of your NMEA string Like $GPRMC and also the unproto and lpath values.
Most of all make sure to run the baud command for the second port and set it to 4800 as well as making sure the garmin I/O is set to NMEA and not garmin protocol.

>
[Attachment: PICO.TNC; text/plain; 689 bytes]

796. Re: [APRSSIG:3384] 2 questions

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 27 Jul 1996 14:38:11 -0500
To: aprssig@tapr.org
Message-ID: <199607271929.OAA24669@tapr.org>
Rendered body type: text/plain

>#2
>GARMIN GPS 45
>
>Drove about 1 hour and the 45 just locked up. No sats, but all functions
>normal, did not track. It was cool in the car (at night with air on) but I
>had the internal GPS light on. Shut it off, rebooted, nothing. Parked the
>car, ate and came back and in the same spot, turned it on, and 6 sats came on
>line...Weird...
>Mike

>KD4EMI@AOL.COM

I've had this occur when my transmitter densed the Garmin input. If you have any kind of transmitter in the car watch on the sat display of the garmin and if it's overload the sat's will just dissapear at the time of transmission.

```
----------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
----------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

797. Another Stamp application

From: KD4EMI@aol.com
Date: Sat, 27 Jul 1996 15:40:33 -0400
To: aprssig@tapr.org
Message-ID: <960727154032_586209599@emout17.mail.aol.com>
Rendered body type: text/plain

I was thinking...Wouldnt it be neat to leave my tracker in the car without having to go thru an ordeal to turn it off etc..
SO...
I put my stamp to work.

Now, when I leave the car, I hit DTMF tone 1 on my HT, which resets the TNC to beacon every 15 minutes.

When I get into the car, I hit 3 and it resets the tnc to xmit every 5 min and resets the unproto for wide,wide and unproto 2 for relay,wide.

Kinda neat...

Ive had multiple inquiries about the lightning stuff. 2 problems

#1 The lightning monitor I got from AOL wx store stinks. You need a VLF ground to make the thing work. Tough...I live in an apt...hard to start running coax down the wall. (I already get away with HF LOOP and small tower plus Ive had beams up there from time to time) Ive had bolts hit within 2 miles...nothing...My old crummy one works better. When I get some cash, will look into the hand held device.

#2 SOFTWARE
I gotta learn how to write software..I understand that APRS is in quickbasic (?)... I wont get anywhere without some software. Basic stamp and lightning stuff starts getting expensive. Need to get some software to get this thing working correctly. (maybe a tsr over aprs?)

So there it is..the software for the stamp is easy..If youve got one you know how to read the dtmf tone and xmit the computer stuff to change the tnc params..

Mike
KD4EMI@AOL.COM

---

798. New javAPRS features

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 27 Jul 96 18:16:16 -0400
To: <aprssig@tapr.org>
Message-ID: <199607272213.SAA15384@bridge.net>
Rendered body type: text/plain

A new version of javAPRS is up on the tapr server.

The new features are the ability to use pgup (or U), pgdn (or D), and arrow keys to zoom in and scroll the map. Also the L key will dump a station list to the java console window.

Before these are active in Netscape you will need to click on the map, so that the applet is made active and receives the keypress events.

Rumor has it that Dale may be able to bring the html server back up soon, which will again allow viewing without the stand alone applet runner.

Not to steal anyone else's thunder, but look for another source of
(almost) live data on the internet soon...

Steve KO4HD

---

799. Bertha: lessons learned (long)

From: kf4dys@juno.com (Joe Foor)
Date: Sat, 27 Jul 1996 17:50:53 PST
To: aprssig@tapr.org, 71572.3727@compuserve.com, ad4bl@juno.com,
jcutchins@digitalexp.com, kd4siv@juno.com, kd4tok@juno.com,
ks4ny@aol.com, n0ubw@juno.com, wa4nda@juno.com
Message-ID: <19960727.175120.11943.0.kf4dys@juno.com>
Rendered body type: text/plain

Greetings all;

I am the ARES Tropical Cyclone tracker for the EPAN APRS vhf net, in
the
Florida Panhandle.

This is a new net, with only a few stations at this time, so as an
exercise, I tracked Bertha, from the first, to the final NWS advisory. In

the process, I encountered several problems

To ensure that data can move back and forth between the EPAN net and
the
WPAN net, I have been discussing problems and coordinating the solutions
with Hank Holt ks4ny, the AEC for Santa Rosa County.

Problems encountered in the EPAN net:

1) Proper use of Tropical Cyclone symbols
2) Selecting a path
3) APRS software malfunctions
4) Acquisition of NWS data
5) Distribution of NWS Advisories
6) Interference by other stations
    a) accidental capture of locally posted object
    b) map cluttered with unnecessary data
    c) different data posted by other stations

1) Proper use of Tropical Cyclone symbols;

Being new to APRS, I initially was using the standard Advisory Flag
symbols, one flag for a Tropical Depression and two flags for a Tropical
Storm.
Hank guided me to understanding the modified Hurricane symbol, as used

for all levels of Tropical Cyclones.
Accordingly, any time I am tracking a Tropical Cyclone, you can expect
to
see the Hurricane symbol. The symbol will be Blue for a Tropical
Depression,
Yellow for a Tropical Storm and Red for a Hurricane. Additionally, the
symbol will include Range Rings, indicating the areas where high winds
can
be found. Hurricane force winds (above 64kts) will be inside the Red ring

and Tropical Storm force winds (above 34kts) will be inside the Yellow
ring.

2) Selecting a path;

Since EPAN has a single digi, located in the approximate center of the

district, this would not normally be a problem. However, at the request
of
ks4ny, I was also posting the tracking data throughout WPAN, during the
day,
when their designated Tracking Operators were at work.
For reasons stated later in this report, I did not use any WIDE's in
my
path.
The path KD4TOK-7,W4NN-1,KS4NY-7,W2GFF-7 turned out to be reliable
enough

for use during the early afternoon, when propagation is at it's poorest.

I posted Bulletins, requesting that I be informed if I was causing interference, by using this long path, and there were no responses.

When providing tracking data for just the EPAN net, KD4TOK-7 is all the path that is necessary.

3) APRS software malfunctions;

There were two minor problems in this area.

First, my station would stop transmitting the Bertha data, when the Positions page filled up. This problem was eliminated by registering the software and installing the validation number.

Second, the software would stop responding to the left mouse button, after more than five hours with no keyboard entries. This interferes with zooming and hooking. Since the <enter> key can be used for the same purpose, this has only a minor effect on the operating technique.

This problem was common to versions 7.5c, 7.6d and it still happens in 7.6f. Validating the software did not eliminate this problem.

4) Acquisition of NWS data;

During the exercise, it was reported to me that access to the NWS Internet web pages, on the NHC site, had been restricted. Since I was not using the web page links, to obtain copies of the NWS advisories, this was not a problem.

5) Distribution of NWS Advisories;

With so few local stations, initially, the most recent NWS advisory was maintained as a bulletin in my TNC's mailbox and a bulletin announcing that, was posted on APARS.

As the more distant stations, using a long path, accessed the advisory, it became apparent that this was interfering with the net's normal use. I then designated an (O)ps (D)igi path, posting the bulletin on the local net only and that interference stopped.

Since then, many of the stations in EPAN (including all the APARS operators) have gotten on the Juno e-mail server and the DEC has instituted an EPAN Mailing List, which is used to distribute the NWS advisories. I no longer maintain the most recent NWS advisory in my mailbox.

6) Interference by other stations;

During the evenings and the early mornings, when propagation was at it's best, I normally, directly receive stations from northern Alabama and Georgia, through central Florida. During band openings, I have seen stations as far away as Canada and Haiti. When the net is being used solely for entertainment purposes, this is fine. Unfortunately, this causes some problems for local use.

a) accidental capture of locally posted object;

This was the most common problem, throughout the exercise. During the evenings and the early mornings, when propagation was at it's best, my posted storm was repeatedly being captured by distant stations, who were also posting the storm.

Initially, I tried to eliminate the reception of these distant stations, by reducing my receiver sensitivity. This was a complete failure, as most of the distant stations were indiscriminately using WIDE in their path and the EPAN digi would also repeat the packets.

WA8INZ demonstrated a simple solution, by appending the advisory number to his object name. A unique object name prevents accidental capture.

I now append "P" (for Panhandle) as the ninth character in the object name for all Tropical Cyclones.

b) map cluttered with unnecessary data;

Distant stations, not being in the direct and immediate path of the storm, have a tendency to post additional and unnecessary data to the net.

This is completely normal and will probably always happen. After all, the best time to experiment with alternate methods of reporting, is when the storm is not coming your way. That way if something doesn't work out, you won't interfere with local preparations for the upcoming disaster.

During the evenings and the early mornings, when propagation was at it's best, undesired data would show up from distant nets, contributing to a confusion of information on the local net displays. Again, the indiscriminate use of WIDE in many distant stations' path, contributes enormously to the interference.

Since the reception of packets from distant stations is usually intermittent, an alert operator can easily capture and (K)ill the undesired posted objects. By using a specific path for just the local net, this should maintain the local net at maximum usability, while continuing to permit the distant nets to experiment with alternate methods.

I noticed that my software was not allowing the displaying of new incoming Bulletins, when the Bulletin page was already full. This appeared to be a problem even after validation.

Routinely erasing the Bulletins with Alt-E prevents this from happening. If anyone knows how to erase individually specified Bulletins, instead of the entire page, please let me know how.

c) different data posted by other stations

Distant stations, not being in the direct and immediate path of the storm, have a tendency to fail to perform timely updates to the data, that they are posting. Sometimes, data would come in, from distant nets, that was as much as 24 hours old. Since very few Tropical Cyclones read the NWS advisories, they do not normally follow the predicted path.

During the evenings and the early mornings, when propagation was at it's best, old data would show up from distant nets, contributing to a confusion of information on the local net displays. Again, the indiscriminate use of WIDE in many distant stations' path, contributes enormously to the interference.

Again, an alert operator can easily capture and (K)ill posted objects from distant stations.

This problem, if combined with the problem in 6)a), could have disastrous effects in an area using a local net to prepare for an imminent Hurricane.

If you think I exaggerate how critical this problem could be, just imagine what it would have been like if during the final 12 hours before Opal's landfall, the Panhandle had been using 24 hour old data in making preparations.

Suggestions for future operations:

Since the indiscriminate use of WIDE directly contributed to the interference problems, I recommend that all operators, throughout the APARS community, develop the habit of avoiding the use of WIDE, whenever possible.

Admittedly, it is necessary for mobiles to use WIDE and digis should also use WIDE,WIDE to give maximum spread to their IDs and beacons. Base

```
stations,
however should tailor a specific path for whatever their needs are,
avoiding
all use of WIDE, whenever possible.
   Even more important, stations transmitting data packets that relate to

disaster preparations in another net, should *NEVER* use WIDE in their
path.
Additionally, all individual base stations, east of the Mississippi,
should
remove every WIDE from their path, several hours before any Atlantic
Tropical Cyclone makes landfall.

   The local net will find it advantageous, to have one operator
designated
to capture and kill, all distant station data, from the local net, during
the
final four hours prior to landfall of the Tropical Cyclone.
   If the Tropical Cyclone makes landfall in the late afternoon, then the

designated operator will not have much to do. On the other hand, if the
Tropical Cyclone makes landfall during the hours of darkness or anytime
up
to mid morning, then the designated operator will be critical to
maintaining
a local net, free from confusing data.


Joe Foor kf4dys
Florida ARES
East Panhandle District
Tropical Cyclone Tracking Operator
```

---

800. Fwd: Another Stamp application

From: 0004818186@mcimail.com Sun Jul 28 09:18:16 1996
Date: Sun, 28 Jul 1996 10:19:06 -0400
To: aprssig@tapr.org
Message-ID: <960728101905_586602622@emout10.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-07-28 07:29:00 EDT, 0004818186@mcimail.com (Miami
Network) writes:

>If you have a stamp in your car you only need to have it watch
>the $GPRMC String that the GPS is sending out {if you are in
>fact leaving that on all the time} even when you are out of the
>car.
>
>If the Stamp detects a 0 MPH then it can change the beacon to
>15 minutes and if it sees a speed > 5 MPH it will go into the
>3 minute mode and change the paths for you.  DTMF is still a
>good idea and you should not eliminate it!
>
>This way you maximize the intelligence of the stamp. The only thing that is
>wrong is you need to eliminate the RELAY,WIDE
>which does absolutely nothing and just keep it at WIDE,WIDE.
>
>In South Florida everything will be a WIDE to generate maximum
>signal thru put by means of the digipeat concept

I am having problems with the stamp reading the GPS data.
Not sure why. One comment, stamp support is tough to get. They are pretty
busy lot there.
Though this is a great idea. I also thought the frequency of the xmits can be
decreased as you slow down.
Mike

---------------------
Forwarded message:
From:   0004818186@mcimail.com (Miami Network)
To:     kd4emi@aol.com (Mike Kantor)
Date: 96-07-28 07:29:00 EDT

If you have a stamp in your car you only need to have it watch
the $GPRMC String that the GPS is sending out {if you are in
fact leaving that on all the time} even when you are out of the
car.

If the Stamp detects a 0 MPH then it can change the beacon to
```

15 minutes and if it sees a speed > 5 MPH it will go into the
3 minute mode and change the paths for you. DTMF is still a
good idea and you should not eliminate it!

This way you maximize the intelligence of the stamp. The only thing that is
wrong is you need to eliminate the RELAY,WIDE
which does absolutely nothing and just keep it at WIDE,WIDE.

In South Florida everything will be a WIDE to generate maximum
signal thru put by means of the digipeat concept.

73, Seymour, KC4NMY

---

801. err code 11

From: Roger Breckon <n8chb@tir.com>
Date: Sun, 28 Jul 1996 14:39:58 +0100
To: aprssig@tapr.org
Message-ID: <31FB6DAE.7D96@tir.com>
Rendered body type: text/plain

aprs ver f:

Getting an err code 11
can not make it fail all the time but seems to have something to do
wit page up and down, also when moving the mouse?

attached is my setup file.

de Roger n8chb@tir.com
[Attachment: Initaea.tnc; text/plain; 893 bytes]

---

802. Re: [APRSSIG:3390] Fwd: Another Stamp application

From: w2g3zfj@unix.asb.com (bob)
Date: Sun, 28 Jul 1996 11:18:12 -0400
To: aprssig@tapr.org
Message-ID: <199607281524.LAA22376@unix.asb.com>
Rendered body type: text/plain

Hi Mike

I have a similar application but use a 'Domino' from Micromint. This has
much better performance than the STAMP and costs are similar. I use it to
take the GPGGA and GPVTG data from my Magnavox GPS unit and synthesize a
GPRMC sentence which is much more effcient for use with APRS. Obviously, the
Domino has no problems with reading the GPS data as it must do in this
application. I am at present working on just such a system as you described
to reduce the transmit rate when the car is parked. If anyones interested I
can put the source code on my home page. But it is pretty simple!

I have no connection with Micromint but for $79, 10 i/o bits, 32K ram, 32k
EEPROM its a pretty good unit!

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/aprs1.htm

>In a message dated 96-07-28 07:29:00 EDT, 0004818186@mcimail.com (Miami
>Network) writes:
>
>>If you have a stamp in your car you only need to have it watch
>>the $GPRMC String that the GPS is sending out {if you are in
>>fact leaving that on all the time} even when you are out of the
>>car.
>>
>>If the Stamp detects a 0 MPH then it can change the beacon to
>>15 minutes and if it sees a speed > 5 MPH it will go into the
>>3 minute mode and change the paths for you. DTMF is still a
>>good idea and you should not eliminate it!
>>
>>This way you maximize the intelligence of the stamp. The only thing that is
>>wrong is you need to eliminate the RELAY,WIDE
>>which does absolutely nothing and just keep it at WIDE,WIDE.
>>
>>In South Florida everything will be a WIDE to generate maximum
>>signal thru put by means of the digipeat concept
>
>I am having problems with the stamp reading the GPS data.

```
>Not sure why. One comment, stamp support is tough to get. They are pretty
>busy lot there.
>Though this is a great idea. I also thought the frequency of the xmits can be
>decreased as you slow down.
>Mike
>
>---------------------
>Forwarded message:
>From:  0004818186@mcimail.com (Miami Network)
>To:    kd4emi@aol.com (Mike Kantor)
>Date: 96-07-28 07:29:00 EDT
>
>If you have a stamp in your car you only need to have it watch
>the $GPRMC String that the GPS is sending out {if you are in
>fact leaving that on all the time} even when you are out of the
>car.
>
>If the Stamp detects a 0 MPH then it can change the beacon to
>15 minutes and if it sees a speed > 5 MPH it will go into the
>3 minute mode and change the paths for you.  DTMF is still a
>good idea and you should not eliminate it!
>
>This way you maximize the intelligence of the stamp. The only thing that is
>wrong is you need to eliminate the RELAY,WIDE
>which does absolutely nothing and just keep it at WIDE,WIDE.
>
>In South Florida everything will be a WIDE to generate maximum
>signal thru put by means of the digipeat concept.
>
>
>73, Seymour, KC4NMY
>
>
>
>
>
```

---

803. W7LUS Images on Home Page

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 28 Jul 1996 12:57:04 -0400
To: aprssig@tapr.org
Message-ID: <199607281657.MAA08275@grumpy.magg.net>
Rendered body type: text/plain

```
If anyone is interested in seeing what the W7LUS-14 mobile looks like or see
a picture of Peter himself check out

http://www.magg.net/~n2czf/aprs.html

The links to the images will be at the bottom which you can directly access
using the "National News" button
toward the top of the page.

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

804. INFO ABOUT MEETING

From: KD4EMI@aol.com
Date: Sun, 28 Jul 1996 14:44:20 -0400
To: aprssig@tapr.org
Message-ID: <960728144419_247478251@emout18.mail.aol.com>
Rendered body type: text/plain

```
RE MELBOURNE HAMFEST:

There is a Mcdonalds (large) just down the street from the hamfest. I will
be attending it and hope to see you guys there. I will be operating HF and
VHF mobile on the trip up (at least VHF for sure).

Lets nail down a time and place..

How about in front of the hamfest at 12 noon and then go to MCdonalds or play
it by ear from there...
Also, some kinda distictive thing to wear to recognize fellow aprs's would be
neat ...
```

Any suggestions ?
Mike
KD4EMI@AOL.COM

---

805. APRS Internet server back

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sun, 28 Jul 96 17:47:52 EDT
To: aprssig@tapr.org
Message-ID: <199607282148.VAA111203@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

I've put the APRS server back on line. Direct your Java enabled browsers to:

http://www.wa4dsy.radio.org/aprs/

It has been known to stop sending TNC data for no reason
so be advised that it's still being debuged. If you don't see
any activity for 2 or 3 minutes it's probably gone brain dead.
The max users is still 30.

Have fun

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

806. GPS_20 TAPR Update

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 28 Jul 1996 19:00:50 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing), tapr-bb@tapr.org (TAPR-BB mailing)
Message-ID: <199607290000.TAA23756@tapr.org>
Rendered body type: text/plain

As an update to the current Garmin GPS-20 group purchase,
we are lacking about 20 orders to meet the requirements of the purchase.

Get those friends and family members ordering :-)

Cheers - Greg, WD5IVD
TAPR

---

807. AirMobile Operation

From: Dave Kaplan <dkaplan@pionet.net>
Date: Sun, 28 Jul 1996 19:22:33 -0500
To: aprssig@tapr.org
Message-ID: <9607290022.AA08316@ELWOOD.pionet.net>
Rendered body type: text/plain

WB0WNX-7 will be operating airmobile from Sioux City, IA to Kansas City, MO
this Tuesday. Departure from SUX will be approx 0730L. Cruising altitude
will be 17,000. Path is APRS VIA WIDE,GATE,GATE,WIDE every 30 seconds on
145.79 running 10 watts into a rubber duck suctioned to co-pilot side
window. GPS is a Motorola Encore with the puck thrown on top of the dash on
the co-pilot's side. Return to Sioux City will be approx 1900L (depending
on how much dinner I eat) at 16,000 ft. Requests copies of ground tracks
and your home QTH Lat/Long to get an idea of how far I can reach.

Dave
WB0WNX
NE0272

---

808. Re: [APRSSIG:3395] APRS Internet server back

From: Roger Breckon <n8chb@tir.com>
Date: Mon, 29 Jul 1996 00:32:13 +0100
To: aprssig@tapr.org
Message-ID: <31FBF87D.2154@tir.com>
Rendered body type: text/plain

Dale Heatherington wrote:
>
> I've put the APRS server back on line. Direct your Java enabled browsers to:
>
////////////////////////

```
works and looks perfect using netscape.

thanks,

73

de Roger n8chb@tir.com
```

809. Re: [APRSSIG:3373] APRS7.6F

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 21:56:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728215534.28607A-100000@arctic>
Rendered body type: text/plain

```
On Fri, 26 Jul 1996, Charles W. Davidson wrote:

> I have a small problem here. My floppy drive keeps filling up with
> *.log and *.hst files. I have no Postions marked for tracking, I do
> not have Nmea Log on , and Log is not on.  What do I do to stop
> saving these files?

APRSdos REPLY COMMENT:  If you save a BACKUP file on exit with any other
name than BACKUP.BK, then you will always save the other files too....

de wb4apr@amsat.org
```

810. SAREX For The Deaf (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 22:01:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728215904.28607C-100000@arctic>
Rendered body type: text/plain

```
These guys might get a kick out of APRS too.

de wb4apr@amsat.org

---------- Forwarded message ----------
From: John Rothert <rothertj@digital.net>
To: sarex@amsat.org
Subject: SAREX For The Deaf

        I am currently working with a group of deaf students here in central
Florida call New Friends.  It is a non-profit organization for deaf and
hearing impaired children. The function of the organization is to provide an
atmosphere where deaf children can meet to socialize and share learning
experiences. When you first think of Amateur Radio you think of Voice and
CW, but we have many modes that could be used by hearing impaired. Radio
Teletype, Amtor, Packet, Pactor, TV and even CW could be a means of
communicating via Amateur Radio for the deaf. Now with digital read out dial
displays, tuning to the proper frequency is no problem. I have been involved
with the SAREX program here in the central Florida since STS-35, and thought
this would be a great project to get these kids involved with. Last year we
summitted our application to ARRL and the SAREX commitity to have a
scheduled possible Packet contact with one of the up coming missions. As I
understand it NASA is interested in this project and we may get our chance
on a future mission. Some of our student objectives are:

A. Learn about Space Science.
B. Show how computers can help you communicate.
C. Learn about the Internet.
D. Spark interest in Amateur Radio.
E. Communicate with the Space Shuttle.

        If any of you know of any deaf Hams please let me know how I can get in
touch with them. I am sure the kids at New Friends would like hear about
them. I am also looking for any idea you may have that would help make
Amateur Radio more exciting to these kids.

73,
John
KC4IYO
```

811. Silly reply to INFO ABOUT MEETING and serious question

From: KD1YV <jimkd1yv@ix.netcom.com>
Date: Sun, 28 Jul 1996 22:27:37 -0300
To: aprssig@tapr.org

Message-ID: <31FC1389.7EFF@ix.netcom.com>
Rendered body type: text/plain

>Also, some kinda distictive thing to wear to recognize fellow aprs's would be
>neat ...

How about a page from a street or road map using different colored push-pins to attach it to the back of your jacket :-) Sorry, I just really couldn't resist that one.

I do have a serious question about APRS that a friend has posed. Is there some filter that could be set on that would only display stations heard directly, i.e., not digi-peated. I know that this defeats the general purpose of APRS, but he has suggested a sort of unique application.

He is a heavy VHF/UHF user, and wants to use it as a way to track and plot propagation conditions, and to alert him of band openings to a particular area. Sort of a DX-mode type of operation, but directly heard, and for VHF.

Does anybody have any suggestions?

73 de Jim, KD1YV

---

812. Re: [APRSSIG:3270] Re: San Diego Freq - Again

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Sun, 28 Jul 1996 22:44:41 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9607282237.A15288-a100000@login>
Rendered body type: text/plain

Thanks to all you did respound to my request. Unfortunately Mr Murphy was working overtime. My orginal message out of the service I used for E-mail did not hit hear until Monday 7/22. I was already in S.D. by then. A quick call to Ham Radio Outlet did let me know that APRS was on good old 5.79.

The rental lap top and TNC did not get along at all. By looking at the LED Bar on the hand help, I had to be within eyeball of a relay or wide, by two nights of putzing drew no luck on the comm problem, so I threw it in, and speent the evenings watching the sun go down over the Pacific instead.

John Baum - KB8JXO - Sysop APRS OHIO LLBBS (614) 443-4249
Cruise Missile Address: 39 56.35 N 082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper

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813. Re: [APRSSIG:3389] Bertha: lessons learned (long)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 23:00:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728224636.28607H-100000@arctic>
Rendered body type: text/plain

joe FOor kf4dys gave some excellent problems and solutions for operating an APRS severe weather net for REAL. He seems to ahave a very good grasp of some of the obscure techniques built in. Only one thing that he didnt mention was the consideration to use an alternate net. APRS has two features for isolating operations from other operatsion on the same frequency

1) alt-SETUP-MODES-SPECIAL sets yyour station to send all packets TO SPCL and to ignore all other packets on freequency ECEPT those to SPCL. There are two aspects of this:
   a) All other APRS stations WILL see all of the data to SPCL
   b) All of the SPCL station only see each other but can receive MSGS from outsiders
   c) But if other remote areas also use SPCL then you will still see them TOO

2) alt-SETUP-MODE-altNET Same as above with the following additional differences:
   a) You can uniquely NAME your altnet
   b) No one else on frequencey OTHER than your group will see you
   c) You will see no one else
   d) Im not sure if you will receive incomming messages or not

NOTE: !!! These commands are from memory, so Im not exactly sure 0f the exact command, but they are in SETUP somewhere...

3) What happens if you BUDLIST out WIDE? I think the filters in the

TNC's only BUDLIST the FROM and TO calls, and you cant filter out the DIGI path?

TEST THESE, They have been little used, and may not be perfewt...

de wb4apr@amsat.org

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814. Re: Air Mobile into OJC Airport

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 23:26:35 -0400 (EDT)
To: Dave Kaplan <dkaplan@pionet.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728230146.28607I-100000@arctic>
Rendered body type: text/plain

Concerning what to use for APRS AERO mobile...

YOu would be SHOT if you used RELAY, hi hi..... YOu would be keying up every radio in hundreds of miles for NO ADVANTAGE WHAT SO EVER...

Use NOTHING. Everyone will hear an airplane at 30K ft out 250 miles. No need to hit any digi

But by using WIDE, you will go an additional 20 miles beyond the 250 mile range Line of sight (big deal). But you will penetrate some basements you wouldnt otherwise hit. ANd one WIDE will never loop. so its OK

You could do just GATE and all VHFers with an outside antenna would see you out 250 miles at 30K feet PLUS all of the HFers would see you. *BUT* MANY GATES will hear you and they will ALL collide on HF at the same time, so this is NOT a good idea either....

DO *NOT* do WIDE,GATE.   THe GATEs will hear that packet TWICE and you will be QRMing the HF net by 400% due to the many gates times TWO..

So it looks to me like the only answer is WIDE only...

de wb4apr@amsat.org

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815. Re: [APRSSIG:3396] GPS_20 TAPR Update

From: N5RKN@aol.com
Date: Sun, 28 Jul 1996 23:22:26 -0400
To: aprssig@tapr.org
Message-ID: <960728232225_444133353@emout07.mail.aol.com>
Rendered body type: text/plain

What was the cost, Greg? I'm sure there might be several in the West Texas area that would be interested.
  73' Robert N5RKN

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816. Re: [APRSSIG:3397] AirMobile Operation

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 23:49:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728234300.28607L-100000@arctic>
Rendered body type: text/plain

On Sun, 28 Jul 1996, Dave Kaplan wrote:

> WB0WNX-7 will be operating airmobile from Sioux City, IA to Kansas City, MO
> this Tuesday. Departure from SUX will be approx 0730L. Cruising altitude
> will be 17,000. Path is APRS VIA WIDE,GATE,GATE,WIDE every 30 secs...

APRSdos REPLY COMMENT: ALthough I advised that the most effecient path for AERO whould probably be just WIDE.... Hey, I always believe in EXPERIMENTATION too!, and the flight aint gonna last all day. so GO FOR IT!

But if there is someone monitoring live, it would be nice to observe the effect on HF comapred to what VHFers hear direct... Please, HFers, report to me the total packets copied from beginning to end so we can see the percentage that get through... This will be a good data experiment...

de wb4apr@amsat.org

---

817. Re: [APRSSIG:3401] Silly reply to INFO ABOUT MEETING and serious question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 23:52:36 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728235056.28607M-100000@arctic>
Rendered body type: text/plain

```
On Sun, 28 Jul 1996, KD1YV wrote:

> >Also, some kinda distictive thing to wear to recognize fellow aprs's would be
> >neat ...

APRSdos REPLY COMMENT: I have a T-SHIRT mfr making up an APRS design.  BUT
the guy just bought a new house and said he cant get back to it till about
mid August.  But I think he will do sweatshirts too..., hi hi


de wb4apr@amsat.org
```

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818. Re: [APRSSIG:3401] Silly reply to INFO ABOUT MEETING and serious question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 28 Jul 1996 23:56:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960728235240.28607N-100000@arctic>
Rendered body type: text/plain

```
On Sun, 28 Jul 1996, KD1YV wrote:

> I do have a serious question about APRS that a friend has posed.  Is there
> some filter that could be set on that would only display stations heard
> directly... He is a heavy VHF/UHF user, and wants to use it as a way to
> track and plot propagation conditions...

APRSdos REPLY COMMENT:  Its in there!  CONTORLS-FILTERS-DIRECT

de wb4apr@amsat.org
```

---

819. Re: Bertha: lessons learned (long)

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 29 Jul 1996 01:08:50 PST
To: aprssig@tapr.org
Message-ID: <19960729.010859.11079.0.kf4dys@juno.com>
Rendered body type: text/plain

```
On Sun, 28 Jul 1996 22:02:01 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
> Only one thing that he
>didnt mention was the consideration to use an alternate net.  APRS has
>two
>features for isolating operations from other operatsion on the same
>frequency
>
>1)  alt-SETUP-MODES-SPECIAL sets yyour station to send all packets TO
>SPCL
>and to ignore all other packets on freequency ECEPT those to SPCL.

>2)  alt-SETUP-MODE-altNET  Same as above with the following additional
>differences:

Thanks for the reminder, Bob. I'll go back and read the documents
again. That sounds like exactly what we need to handle the interference
problem.

>3)  What happens if you BUDLIST out WIDE?  I think the filters in the
>TNC's only BUDLIST the FROM and TO calls, and you cant filter out the
>DIGI path?

   I thought of that. Well, almost... I suggested to the DEC that as
a last resort we might remove the WIDE from the digi about six hours
before a storm makes local landfall. Unfortunately that would still
allow distant stations to put data on the individual displays,
although they would no longer be able to disrupt the entire net.
   One of the reasons that I am doing this task is, I am the
farthest inland station (60 miles) on the local net. Consequently
I should still have reliable communications when the heart of the
storm hits the coast. Unfortunately, this makes me more susceptable
to interference from inland distant stations, that are unconcerned
about the accuracy of their data.
   It still might come down to that, but I think the SPECIAL and
ALTNET modes will do the job.

It's too late to try it for Cesar, but the next TD is fair game. I'll
```

let you know how it works out.

regards,
Joe

---

820. Re: [APRSSIG:3401] Silly reply to INFO ABOUT MEETING and serious question

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 29 Jul 1996 07:14:48 -0400
To: aprssig@tapr.org
Message-ID: <31FC9D27.4569@co.pinellas.fl.us>
Rendered body type: text/plain

KD1YV wrote:
>
> >Also, some kinda distictive thing to wear to recognize fellow aprs's would be
> >neat ...
>
> How about a page from a street or road map using different colored push-pins to attach
> it to the back of your jacket :-) Sorry, I just really couldn't resist that one.
>
> I do have a serious question about APRS that a friend has posed. Is there some filter
> that could be set on that would only display stations heard directly, i.e., not
> digi-peated. I know that this defeats the general purpose of APRS, but he has suggested
> a sort of unique application.
>
> He is a heavy VHF/UHF user, and wants to use it as a way to track and plot propagation
> conditions, and to alert him of band openings to a particular area. Sort of a DX-mode
> type of operation, but directly heard, and for VHF.
>
> Does anybody have any suggestions?
>
> 73 de Jim, KD1YV

Sure is Jim, just go into the filter menu and turn on the GATE
filter..this prevents posting of any station with GATE in their path
much in the same way as the BUDLIST in your TNC prevents connects to
stations you don't want to hear from.
--
****
From: Kevin Heyboer   E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR   Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
****

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821. Re: [APRSSIG:3407] Re: Silly reply to INFO ABOUT MEETING and serious question

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 29 Jul 1996 07:41:08 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960729124108.006ce76c@tbcnet.com>
Rendered body type: text/plain

How 'bout just the letters "APRS" and then what it stands for: "Automatic
Position Reporting System"?

Then nobody has to fight over GPS, WX, maps, mac, win, dos, etc applications.

jbl

At 23:10 7/28/96 -0500, you wrote:
>On Sun, 28 Jul 1996, KD1YV wrote:
>
>> >Also, some kinda distictive thing to wear to recognize fellow aprs's
would be
>> >neat ...
>
>APRSdos REPLY COMMENT: I have a T-SHIRT mfr making up an APRS design. BUT
>the guy just bought a new house and said he cant get back to it till about
>mid August. But I think he will do sweatshirts too..., hi hi
>
>
>de wb4apr@amsat.org
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm

American Red Cross Disaster Services

822. Re: [APRSSIG:3407] Re: Silly reply to INFO ABOUT MEETING and serious question

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Mon, 29 Jul 1996 09:01:47 -0700
To: aprssig@tapr.org
Message-ID: <31FCE06B.4680@worldnet.att.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Sun, 28 Jul 1996, KD1YV wrote:
>
> > >Also, some kinda distictive thing to wear
>
> APRSdos REPLY COMMENT:  But I think he will do sweatshirts too..., hi hi
>
> de wb4apr@amsat.org

Just picture wearing a SWEATshirt in South Central Florida in Aug. or
Sept...(:-}


Bud(WB4LTF)
```

823. Re: [APRSSIG:3409] Re: Bertha: lessons learned (long)

From: William Nolle <wa8inz@cris.com>
Date: Mon, 29 Jul 1996 08:15:46 -0700
To: aprssig@tapr.org
Message-ID: <31FCD5A2.28B7@concentric.net>
Rendered body type: text/plain

```
Joe Foor wrote:
>
> On Sun, 28 Jul 1996 22:02:01 -0500 (CDT) Bob Bruninga
>
>    I thought of that. Well, almost... I suggested to the DEC that as
> a last resort we might remove the WIDE from the digi about six hours
> before a storm makes local landfall. Unfortunately that would still
> allow distant stations to put data on the individual displays,
> although they would no longer be able to disrupt the entire net.
>    One of the reasons that I am doing this task is, I am the
> farthest inland station (60 miles) on the local net. Consequently
> I should still have reliable communications when the heart of the
> storm hits the coast. Unfortunately, this makes me more susceptable
> to interference from inland distant stations, that are unconcerned
> about the accuracy of their data.
>    It still might come down to that, but I think the SPECIAL and
> ALTNET modes will do the job.
>
> It's too late to try it for Cesar, but the next TD is fair game. I'll
> let you know how it works out.
>
> regards,
> Joe

Joe i respect what you and the group are trying to do, BUT you keep saying
that other user information is not accurate "inland distant stations, that
are unconcerned about the accuracy" I beg to differ with you and take
offence to your remarks. During betha i downloaded the information directly
from NOAA as it came in and no more then 2 minutes later posted it on APRS.
You cannot expect the whole APRS network to stop because you think they
should. Believe me you'r going to run into these problems, i can tell you
this first hand because i did also. But please don't refer to other users
of APRS that have been using it for many years as INTERFERENCE and that they
are UNCONCERNED about ACCURACY. I surely hope the people in your area have
more precise and accurate equipment to predict heavy weather then APRS,
although i agree it can be very helpfull to local ARES and RACES groups.

--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

824. Re: [APRSSIG:3409] Re: Bertha: lessons learned (long)

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 29 Jul 1996 08:49:32 -0500
To: <aprssig@tapr.org>
Message-ID: <199607291357.IAA16921@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>    It still might come down to that, but I think the SPECIAL and
> ALTNET modes will do the job.
>
>
> regards,
> Joe

I'd be careful here! Bob, wouldn't the ALT-net be more like a PRIVATE net
and not allow anyone monitoring the net see it? I can understand using
that for certain situations, but in this case, it would be best for all to
be able to monitor it.

Please clarify this.........
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

825. Re: [APRSSIG:3404] Re: Air Mobile into OJC Airport

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 29 Jul 1996 08:55:38 -0500
To: <aprssig@tapr.org>
Message-ID: <199607291357.IAA16923@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> But by using WIDE, you will go an additional 20 miles beyond the 250
mile
> range Line of sight (big deal).  But you will penetrate some basements
you
> wouldnt otherwise hit.  ANd one WIDE will never loop. so its OK
>
> de wb4apr@amsat.org

If the digi is picking up the generic WIDE, would it not send that out and
therefore be MORE than just 20 miles. Right???

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

826. APRS T shirts

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jul 1996 10:03:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960729095941.19874A-100000@arctic>
Rendered body type: text/plain

```
On Mon, 29 Jul 1996, John B. Leonard, Jr wrote:

> How 'bout just the letters "APRS" and then what it stands for:  "Automatic
> Position Reporting System"?   Then nobody has to fight over GPS, WX,
> maps, mac, win, dos, etc applications.

APRSdos REPLY COMMENT:  Yes, hopefully it will appear generic.   THe chest
is a big oval globe of the world in black.  Over the top is big red
letters APRS and under the globe are the words Automatic Position
Reporting System... in Blue with the first letter of each word in RED...

Again, I will announce when the guy is ready.  You will order from him...

de wb4apr@amsat.org
```

827. Re: [APRSSIG:3412] Re: Silly reply to INFO ABOUT MEETING and serious question

From: Dave Creek <dcreek@pixi.com>
Date: Mon, 29 Jul 1996 04:06:06 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.95.960729040416.7911A-100000@mothra22.pixi.com>
Rendered body type: text/plain

On Mon, 29 Jul 1996, B.G. Gotshall wrote:

> Bob Bruninga wrote:
> >
> > On Sun, 28 Jul 1996, KD1YV wrote:
> >
> > > >Also, some kinda distictive thing to wear
> >
> > APRSdos REPLY COMMENT: But I think he will do sweatshirts too..., hi hi
> >
> > de wb4apr@amsat.org
>
> Just picture wearing a SWEATshirt in South Central Florida in Aug. or
> Sept...(:-}
>
>
> Bud(WB4LTF)

Or in Hawaii any time of the year. <g>

Dave Creek, NH6BA
Ewa Beach, HI
dcreek@pixi.com

---

828. APRS Perseids Meteor Scatter Test

From: stanzepa@usa.nai.net (stan horzepa)
Date: Mon, 29 Jul 1996 10:45:43 -0400
To: aprssig@tapr.org
Message-ID: <v01540b00ae227e5a8772@[206.98.48.249]>
Rendered body type: text/plain

APRS Perseids Meteor Scatter Test Announcement

Date and Time: August 11 0000 UTC to August 12 1200 UTC
(August 10 2000 EDST to August 12 0800 EDST)

Frequency: 145.79 and 50.62 MHz (if available in your area)

Mode   1200 baud AX.25 packet

All amateurs are encouraged to participate in the Perseids meteor scatter test August 11-12. Although 6 meters is better than 2 meters for meteor scatter work, everyone has a 2-meter radio and we can make up in numbers what we lack in performance (during the 1995 test, numerous stations received packets from 600 to 1000 miles away and a handful even copied stations over 1000 miles away... on 2 meters). All you need is a TNC and, preferably, high power and a beam. The objective is to see how many grid square (DX) packets you can receive over the 36-hour event (a successful connection would be icing on the cake).

Stations in the four quadrants of the continent transmit alternately for 15 seconds (the quadrants are formed by the 39 degree north latitude and 96 degrees west longitude). There are two ways to do this: (1) by using the Meteor Scatter (MS) mode built into the DOS version of APRS or (2) by placing your six-digit grid square in the Unproto To call sign field, for example, WA1LOU>FN31MP.

Suggested procedures for the test follow:

1) Point your beam towards a major population area 500 to 1000 miles away in one of the other US quadrants. If there is another active local station, coordinate your beam headings so you are not both hitting the same azimuth and receiver target area.

2) Enter your grid square into your TNC using the following command:

```
cmd: UNPROTO FN31mp
```

where FN31mp is your six-digit grid square. If you can't estimate the last two digits, use aa. Note that no Via Digipeater is used.

3) For attended operation, enter the Converse Mode (cmd: CONV). Each time you hit carriage return <CR>, you send a packet. Hit 20 <CR>s and you send 20 grid square packets. Synchronize your clock with WWV and transmit as many packets that you can according to the following schedule:

Northeast stations transmit between 00 to 14 seconds of each minute.

Southeast stations transmit between 15 to 29 seconds of each minute.

Southwest stations transmit between 30 to 44 seconds of each minute.

Northwest stations transmit between 45 to 59 seconds of each minute

4) Alternatively, run APRS DOS version 7.1b or later. Its automated meteor scatter mode plots received packets on a map. (Read the file METEOR.TXT bundled with the latest releases of APRS.)

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM. For example, during last year's test, I transmitted 150 watts into an 11-element beam and nobody reported receiving my packets!

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log.

If you are not running APRS, set the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer. Watch for stations sending packets containing grid squares. Make a note of the grid squares that are 500 to 1200 miles from your QTH. When you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

After the test, I will need your reports to see how we did. Your reports should contain the following information:

Your call sign

Your state/province

Your grid square

Your effective radiated power

Call signs of received/connected stations

Grid squares of received/connected stations

Time of reception/connection in UTC and number of received packets

Distance between you and the received/connected stations

Send your reports by email to:

stanzepa@nai.net

Or by mail to:

Stan Horzepa, WA1LOU
One Glen Ave.
Wolcott, CT 06716-1442

Have fun!

---

829. Re: [APRSSIG:3415] Re: Air Mobile into OJC Airport

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jul 1996 11:20:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960729111911.19874C-100000@arctic>
Rendered body type: text/plain

On Mon, 29 Jul 1996, J. Scott Ratchford, KC5JGV wrote:

> > But by using WIDE, you will go an additional 20 miles beyond the 250mi
> > range Line of sight (big deal). But you will penetrate some basements
> > you wouldnt otherwise hit. ANd one WIDE will never loop. so its OK
> > de wb4apr@amsat.org
>
> If the digi is picking up the generic WIDE, would it not send that out and
> therefore be MORE than just 20 miles. Right???

APRSdos REPLY COMMENT: That was a conservative estimate for a 100 foot DIGI on flat land, hi hi.

de wb4apr@amsat.org

---

830. Re: [APRSSIG:3414] Re: Bertha: lessons learned (long)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jul 1996 11:25:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960729112101.19874D-100000@arctic>
Rendered body type: text/plain

```
On Mon, 29 Jul 1996, J. Scott Ratchford, KC5JGV wrote:

> > I think the SPECIAL and ALTNET modes will do the job....
>
> I'd be careful here! Bob, wouldn't the ALT-net be more like a PRIVATE net
> and not allow anyone monitoring the net see it? I can understand using
> that for certain situations, but in this case, it would be best for all to
> be able to monitor it.

APRSdos REPLY COMMENT: True, altNET is "private" BUT everyone can see it
by just setting CONTROLS to OTHER.  In this case, someone should beacon a
bulletin saying "To see severe WX net, set CONTROLS-OTHER..." I agree that
this is not optimum.  I would think that SPECIAL is the way to go then
everyone else AUTOMATICALLY sees it.

One other thing, remember that you can set WX-JUST under the WX menu so
that ONLY WX stuff is displayed.  This is a toggle setting as opposed to
the normal JUST-WX command which is a one-time display...

de wb4apr@amsat.org
```

---

831. Re: [APRSSIG:3390] Fwd: Another Stamp application

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Mon, 29 Jul 1996 11:28:07 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960729152807.00876a14@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 09:28 AM 7/28/96 -0500, you wrote:
>In a message dated 96-07-28 07:29:00 EDT, 0004818186@mcimail.com (Miami

>>If you have a stamp in your car you only need to have it watch
>>the $GPRMC String that the GPS is sending out {if you are in
>>fact leaving that on all the time} even when you are out of the
>>car.
>>
>
>I am having problems with the stamp reading the GPS data.
>Not sure why. One comment, stamp support is tough to get. They are pretty
>busy lot there.

I have an application to read GPS data with a stamp (BS2 needed for 4800
bauds), and display the data on a 16*2 LCD.
Ask direct if interested. I'll try to put it on the web sometime.

Bernard, KB2TGH

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

---

832. Re: [APRSSIG:3389] Bertha: lessons learned (long)

From: Cap Pennell <cap@cruzio.com>
Date: Mon, 29 Jul 1996 08:23:11 -0700
To: aprssig@tapr.org
Message-ID: <31FCD75F.313@cruzio.com>
Rendered body type: text/plain

```
Joe Foor wrote:
>
> Greetings all;
>
>    I am the ARES Tropical Cyclone tracker for the EPAN APRS vhf net, <snip!>
>  the software would stop responding to the left mouse button,
> after more than five hours with no keyboard entries. This interferes with
>
> zooming and hooking. Since the <enter> key can be used for the same
> purpose,
> this has only a minor effect on the operating technique.
>    This problem was common to versions 7.5c, 7.6d and it still happens in
>
> 7.6f. Validating the software did not eliminate this problem.
>
<snip!>
> Joe Foor kf4dys
> Florida ARES
> East Panhandle District
> Tropical Cyclone Tracking Operator
>
> .-

I have noticed this as well.  Kinda irritating when you get used to
using the left mouse button for resizing maps.
73.  Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com
packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
```

---

833. Special Nets

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 29 Jul 1996 11:11:55 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199607291613.LAA18348@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
There is a good message on here about the "expirences" of APRSnet during
Bertha that identified a few bugs. It was well written and very
informative to us "land lovers" here in tornado alley. In the message the
problem of "outside the net" reports was identified. Mainly due to the
good conditions during these storms, does this happen.

Out here in the "sticks" we welcome all input that we can get, be it one
or two miles off course or not. In addition to our local net, we receive
(when conditions are good) reports from other areas, which often effect
our situation on down the line.

Bob, may I suggest this in an upgrade. That an additional mode, called
LocalNet (or whatever) be added that DOES see the "outside" stations but
DOES NOT plot them without operator ok or unless x amount of Heards. A
sort of delayed-DX mode. This mode should give the operator the option to
"flag" out-of-net position reports on or off. Instead of out-of-net it
could rather be out-of-x amount of mile range.

Just a thought.......any comments?
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

834. APRS Internet server

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 29 Jul 96 13:15:01 EDT
To: aprssig@tapr.org
Message-ID: <199607291715.RAA154957@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
The APRS server seems to be working fine when accessed
from a telnet client.  Since Steve uploaded the latest
version of JavAPRS at about 9:00 AM today I've been unable
to get JavAPRS to connect to the server.

If you get a map to display but don't see any APRS stations
on the map, try clicking on the telnet link on the
home page.  If that works then the server is working.

It may be just my Java applet viewer.  Let me know
if it works for you or not.



Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
```

```
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.
```

---

835. Info on Crystals

From: jaym1@soho.ios.com (Jay Millard)
Date: Mon, 29 Jul 1996 13:27:17 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ae22a3e078b9@[206.20.7.3]>
Rendered body type: text/plain

```
A well-sited amateur radio station operator has agreed to set up a
RELAY-WIDE digi in our area, if I re-crystal his radio for him.  Since I've
been having trouble getting out of my not-so-well-sited QTH, I've agreed.

His radio is a Motorola MOXY (he says).  Does anyone know of:

1.  A source for transmit and receive crystals for this type of radio.

2.  Any special tech requirements for these crystals.

Appreciate in advance any response.

73 de Jay

Jay Millard
*Amateur Radio Station KD1LY*
Darien, CT  06820
```

---

836. Need answer for Oshgosh trip.

From: lmkeeran@rs6000.cmp.ilstu.edu (Larry Keeran)
Date: Mon, 29 Jul 1996 13:10:51 -0500
To: aprssig@tapr.org
Message-ID: <v02120d04ae22ae2ccbe6@[138.87.2.109]>
Rendered body type: text/plain

```
My friend has the TINI-2 MK-2 with built-in GPS (one year old) and a single
port DOS PC with APRS on it.

To show himself on the dosAPRS map, on his PC, while in motion mobiling -
what commands does he need to issue? and will this be able to send his
position out to others simultaneously, over his mobile?


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

837. Re: [APRSSIG:3425] Info on Crystals

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 29 Jul 1996 13:25:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607291825.NAA08668@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Jay Millard sez:
>
> His radio is a Motorola MOXY (he says).  Does anyone know of:
>
> 1.  A source for transmit and receive crystals for this type of radio.
>
> 2.  Any special tech requirements for these crystals.

Both Marden and International Crystal can make these reliably.  Further, with
the appropiate data from the serial plate (something like U43MLT) you will
give them all the info needed to make the crystal and get it cut correctly.

International's phone number is 1-800-call-icm

Marden's got an 800 number, but I cannot recall what it is, and all my Parden
data are at home... and I'm not!

Hope this helps.  73,
gerry
n5jxs@tamu.edu
```

---

838. Re: [APRSSIG:3425] Info on Crystals

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 29 Jul 1996 13:41:56 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960729184156.006ff3b8@144.188.134.33>
Rendered body type: text/plain

```
The crystal mfgs advertising in QST know what a Motorola Moxy is, and have
the xtal requirements on file. Just ask for the TX or RX freq.

At 12:32 PM 7/29/96 -0500, you wrote:
>His radio is a Motorola MOXY (he says).  Does anyone know of:
>
>1.  A source for transmit and receive crystals for this type of radio.
>
>2.  Any special tech requirements for these crystals.
>
>
Paul, WD9ABE
```

839. Re: Bertha: lessons learned

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 29 Jul 1996 13:20:13 PST
To: aprssig@tapr.org
Message-ID: <19960729.134158.4479.1.kf4dys@juno.com>
Rendered body type: text/plain

```
On Mon, 29 Jul 1996 11:05:47 -0500 (CDT) Cap Pennell
   <cap@cruzio.com> writes:
>Joe Foor wrote:
>>  the software would stop responding to the left mouse button,
>> after more than five hours with no keyboard entries. This interferes
>>with
>>
>> zooming and hooking.
>
>I have noticed this as well.  Kinda irritating when you get used to
>using the left mouse button for resizing maps.

I use the (M)ap (S)ave 3,5,7 or 9, to eliminate the need
to resize the maps.

By the way Bob, The docs say that 1 is supposed to be the
USA map, by default. I find that it is actually the
Marathon display and I can't save any other map to that
number. This forces me to waste another number on the USA
map. How do I get it to save the USA map to 1?

regards,
Joe
```

840. Re: [APRSSIG:3425] Info on Crystals

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 29 Jul 1996 14:03:07 -0500
To: <aprssig@tapr.org>
Message-ID: <199607291904.OAA20742@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> His radio is a Motorola MOXY (he says).  Does anyone know of:
>
> 1.  A source for transmit and receive crystals for this type of radio.
>
> 2.  Any special tech requirements for these crystals.
>
> Appreciate in advance any response.
>
> 73 de Jay
>
> Jay Millard
> *Amateur Radio Station KD1LY*
> Darien, CT  06820
>

Jan's Crystals in Florida. They have a 1 800 number but I don't! Sorry.
You can find it listed in any ham mag. They got me crystals send out in
two days after the order. All you need to tell them is the freq and radio
type and they'll do the rest!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
```

```
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

841. Re: [APRSSIG:3424] APRS Internet server

From: Joseph Agrelo <jagrelo@cris.com>
Date: Mon, 29 Jul 1996 15:19:01 -0700
To: aprssig@tapr.org
Message-ID: <31FD38D5.AEA@concentric.net>
Rendered body type: text/plain

```
Dale Heatherington wrote:
>
> The APRS server seems to be working fine when accessed
> from a telnet client.  Since Steve uploaded the latest
> version of JavAPRS at about 9:00 AM today I've been unable
> to get JavAPRS to connect to the server.
>
> If you get a map to display but don't see any APRS stations
> on the map, try clicking on the telnet link on the
> home page.  If that works then the server is working.
>
> It may be just my Java applet viewer.  Let me know
> if it works for you or not.
>
> Dale Heatherington, WA4DSY
> e-mail - wa4dsy@wa4dsy.radio.org
> e-mail - daheath@ibm.net  (in case the first one doesn't work)
> Web page - http://www.wa4dsy.radio.org
> This message brought to you by OS/2 Warp Connect.

Dale,

Everything works perfect here through Netscape 2.01 32 bit Windows95.
I found that a couple of times the map loaded in but no data, all I
did was hit reload and all was well, my guess is that the server was
near it's 30 users limit or I stepped in at an inconvenient time for
the server.

Excellent work! Thanks

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

842. Re: [APRSSIG:3418] APRS Perseids Meteor Scatter Test

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jul 1996 15:50:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960729154636.26028A-100000@arctic>
Rendered body type: text/plain

```
I am having big probs at work, I will be out of town for the Meteor
scatter test and wont have time to test the curent versions of APRS
to be sure that Meteor mode still works.  WOuld someone test it and
confirm that I didnt break it with all the recent SAREX changes...

de wb4apr@amsat.org
```

843. Re: [APRSSIG:3429] Re: Bertha: lessons learned

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 29 Jul 1996 16:07:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960729160609.26028G-100000@arctic>
Rendered body type: text/plain

```
On Mon, 29 Jul 1996, Joe Foor wrote:
>
> I use the (M)ap (S)ave 3,5,7 or 9, to eliminate the need
> to resize the maps.
>
> By the way Bob, The docs say that 1 is supposed to be the
> USA map, by default. I find that it is actually the
> Marathon display and I can't save any other map to that key

APRSdos REPLY COMMENT:  The 1 key is actually the default map pointed
to by the current MAPLIST.XX file.  For the MAPLIST.USA, it is the
USA.  For MAPLIST.GA, it would be Georgia, etc...

de wb4apr@amsat.org
```

---

844. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Message-Id: <2.2.32.19960729200956.006e5c5c@mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Pro Version 2.2 (32)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 29 Jul 1996 16:09:56 -0400
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:3430] Re: Info on Crystals
Cc: jaym1@soho.ios.com

Beware of Jan Crystals for a digi or repeater... especially their 2 day
non-aged ones.
Stick with a manufacturer like International, not an el-cheapo!
We sent back over a dozen crystals to Jan because they were drift-o-matics.
Along with them, we sent a good International crystal.  Instructions were to
not send the crystals back until they were of equal quality.

I stopped by Jan Crystals when I was in Ft Myers  on my infamous Florida
trip this past Winter... they refused to allow me to see their manufacturing
process and quality control facility. No tour, no pictures, not even a glass
window.

BTW-  about the returned crystals... They never even offered to remake them
or refund the money!

Bomar is ~~ok~~, but still not great.  About half of the ones I get from
them are off freq, drift, or have low activity.


In an earlier message, Scott Ratchford recommended:
>>
>
>Jan's Crystals in Florida. They have a 1 800 number but I don't! Sorry.
>You can find it listed in any ham mag. They got me crystals send out in
>two days after the order. All you need to tell them is the freq and radio
>type and they'll do the rest!
>
```

---

845. javAPRS Update

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 29 Jul 96 16:37:51 -0400
To: <aprssig@tapr.org>
Message-ID: <199607292034.QAA16584@bridge.net>
Rendered body type: text/plain

```
An upload I had made last night with new and improved features messed
things up. Sorry for the problems. Everything works good for me now.

For those of you who haven't checked recently, take a look at:

http://www.wa4dsy.radio.org/aprs

The live data server is on line, and working great.

Good job Dale!

73 de Steve KO4HD
```

846. Re: [APRSSIG:3399] Re: APRS7.6F

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Mon, 29 Jul 1996 17:21:04 +0000
To: aprssig@tapr.org
Message-ID: <199607292128.RAA02300@hemisphere.neocomm.net>
Rendered body type: text/plain

```
> Date:          Sun, 28 Jul 1996 20:53:20 -0500 (CDT)
> Reply-to:      aprssig@tapr.org
> From:          Bob Bruninga <bruninga@nadn.navy.mil>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:3399] Re: APRS7.6F

> On Fri, 26 Jul 1996, Charles W. Davidson wrote:
>
> > I have a small problem here. My floppy drive keeps filling up with
> > *.log and *.hst files. I have no Postions marked for tracking, I do
> > not have Nmea Log on , and Log is not on.  What do I do to stop
> > saving these files?
>
> APRSdos REPLY COMMENT:  If you save a BACKUP file on exit with any other
> name than BACKUP.BK, then you will always save the other files too....
>
> de wb4apr@amsat.org
>
    But I don`t exit, this station runs 24 hours...except when the
floppy fills up and I get Dos erra #61 . But at least the digi keeps
on digie`ing ha ha. Actualy I just pull the disk and delete the log
and hst files, replace disk and hit enter and it (APRS) keeps on
running. Perhaps I will delete the config file and try
again? I only have room for 3 maps...I`ll have to delete 2 of them so
my PCjr will run through a whole weekend without crashing.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
```

---

847. Re: [APRSSIG:3368] APRS s/w for Unix/X

From: "Paul Christenson [N3EOP]" <christen@codger.physics.duq.edu>
Date: Mon, 29 Jul 1996 17:22:25 -0400
To: aprssig@tapr.org
Message-ID: <31FD2B91.1D4AD8C3@codger.physics.duq.edu>
Rendered body type: text/plain

```
Rick Ebert wrote:

>   I have heard that there is, or may be in development, a UNIX/X-Windows
>   APRS program.  I would appreciate any information on this, especially
>   w.r.t. versions for Linux.

The last official word I heard was that there IS an X version being developed.
They hope to have a beta out in six months or so.
```

---

848. Re: [APRSSIG:3369] Made Trip; Alas, sans APRS

From: "Paul Christenson [N3EOP]" <christen@codger.physics.duq.edu>
Date: Mon, 29 Jul 1996 17:29:40 -0400
To: aprssig@tapr.org
Message-ID: <31FD2D44.21C4B72@codger.physics.duq.edu>
Rendered body type: text/plain

```
Randy Hammock wrote:

> However, when I stopped to fill-up at 100 miles into the trip, I
> discovered that I had just a wire stub where a Larson 2/70 on a mag mount
> had been. (That makes $240 worth of antennas and mag mounts lost to paper
> bags, tree limbs and who knows what.  I've lost three sets.)  Oh, well.

That's odd for antennas to break like that.  I've never lost an antenna, even
when a BIRD hit it.  (But then, I use permanant mount antennas.)

If that's an ongoing problem for you, may I suggest that you get a Larsen
NMO-MM base (mag mount), and an NMO-Q quarter wave whip?  I had one of those
things, and nothing would remove it.  (Well, a kid with a pair of wire cutters
eventually did...)
```

---

849. Re: [APRSSIG:3396] GPS_20 TAPR Update

From: "Paul Christenson [N3EOP]" <christen@codger.physics.duq.edu>
Date: Mon, 29 Jul 1996 17:42:05 -0400

To: aprssig@tapr.org
Message-ID: <31FD302D.172A127D@codger.physics.duq.edu>
Rendered body type: text/plain

```
Greg Jones wrote:
>
> As an update to the current Garmin GPS-20 group purchase,
> we are lacking about 20 orders to meet the requirements of the purchase.

I plan on getting one; however, I'm in the process of moving.
Remind me in a week or so.. hopefully I'll have the cash then.
```

---

850. Re: [APRSSIG:3403] Re: Bertha: lessons learned (long)

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 29 Jul 1996 18:20:38 -0400
To: aprssig@tapr.org
Message-ID: <199607292220.SAA06158@grumpy.magg.net>
Rendered body type: text/plain

```
Bob Wrote:

>3)  What happens if you BUDLIST out WIDE?  I think the filters in the
>TNC's only BUDLIST the FROM and TO calls, and you cant filter out the
>DIGI path?
>
>TEST THESE,  They have been little used, and may not be perfewt...
>
>de wb4apr@amsat.org
>
Another comamnd that may come in handy is the GATE Filter. If you are
bothered by the "DX" from a GATEWAY in the area or a GATE coming in during
morning or evening skip from another area nearby turn on the GATE filter as
we have done during the metor tests.  This will keep the screen clear of all
that traffic.

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

851. Re: [APRSSIG:3412] Re: Silly reply to INFO ABOUT MEETING and serious question

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 29 Jul 1996 18:50:53 -0400
To: aprssig@tapr.org
Message-ID: <199607292250.SAA07688@grumpy.magg.net>
Rendered body type: text/plain

```
>Bob Bruninga wrote:
>>
>> On Sun, 28 Jul 1996, KD1YV wrote:
>>
>> > >Also, some kinda distictive thing to wear
>>
>> APRSdos REPLY COMMENT:  But I think he will do sweatshirts too..., hi hi
>>
>> de wb4apr@amsat.org
>
>Just picture wearing a SWEATshirt in South Central Florida in Aug. or
>Sept...(:-}
>
>
>Bud(WB4LTF)
>
CAN WE SAY RIPE ?
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

852. Re: [APRSSIG:3417] Re: Silly reply to INFO ABOUT MEETING and serious question

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 29 Jul 1996 18:58:03 -0400
To: aprssig@tapr.org
Message-ID: <199607292258.SAA07942@grumpy.magg.net>
Rendered body type: text/plain

>
>On Mon, 29 Jul 1996, B.G. Gotshall wrote:
>
>> Bob Bruninga wrote:
>> >
>> > On Sun, 28 Jul 1996, KD1YV wrote:
>> >
>> > > >Also, some kinda distictive thing to wear
>> >
>> > APRSdos REPLY COMMENT: But I think he will do sweatshirts too..., hi hi
>> >
>> > de wb4apr@amsat.org
>>
>> Just picture wearing a SWEATshirt in South Central Florida in Aug. or
>> Sept...(:-}
>>
>>
>> Bud(WB4LTF)
>
>Or in Hawaii any time of the year. <g>
>
>Dave Creek, NH6BA
>Ewa Beach, HI
>dcreek@pixi.com
>
Hey Dave how about you surfer dudes design a APRS bikini ? Maybe use the WX
ICON or something like that in your design. I will market it here in Palm Beach.

That's it, nuff from here on this subject!
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

853. Re: [APRSSIG:3425] Info on Crystals

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 29 Jul 1996 19:05:44 -0400
To: aprssig@tapr.org
Message-ID: <199607292305.TAA08230@grumpy.magg.net>
Rendered body type: text/plain

THey were far from the best in their time but for the price of crystals I
would say it is worth it.

As far as crystals any of the crystal companies can help you out, you MUST
have the EXACT model number and just tell them TX 145.79 and RX 145.79. BTW
MOXY is not the model number, this will be a long series of letters and
numbers that actually tell you the frequency span (probably modified if
already in ham use) power output, year made, and number of channels it is
capable of.

International Crystal is the best company out there but expensive. Bomar
Crystals in Middlesex NJ is another less expensive one and so is Frequency
Managemant in CA. I have ordered crystals from all of them in the past and
would probably go with Frequency Management or International. Whatever you
do stay away from JAN Crystals!

>A well-sited amateur radio station operator has agreed to set up a
>RELAY-WIDE digi in our area, if I re-crystal his radio for him. Since I've
>been having trouble getting out of my not-so-well-sited QTH, I've agreed.
>
>His radio is a Motorola MOXY (he says). Does anyone know of:
>
>1. A source for transmit and receive crystals for this type of radio.
>
>2. Any special tech requirements for these crystals.
>
>Appreciate in advance any response.
>
>73 de Jay
>
>Jay Millard
>*Amateur Radio Station KD1LY*
>Darien, CT 06820
>
>
>

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

854. Re: [APRSSIG:3430] Re: Info on Crystals

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 29 Jul 1996 19:09:39 -0400
To: aprssig@tapr.org
Message-ID: <199607292309.TAA08385@grumpy.magg.net>
Rendered body type: text/plain

Remember Crystals must age properly if not you will have problems in the future. Fast is great but too fast is a bad sign. I have tried Jan in the past and all I have had is problems usually 3 or so years later if not as soon as they had arrived. Never had one crystal from them be 100%.

>
>Jan's Crystals in Florida. They have a 1 800 number but I don't! Sorry.
>You can find it listed in any ham mag. They got me crystals send out in
>two days after the order. All you need to tell them is the freq and radio
>type and they'll do the rest!
>
>--
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>* North Arkansas Amateur Radio Society, Inc.
>* Marshall Volunteer Fire Dept./EMS First Responder
>* Calf Creek Lodge #426
>* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
>
>

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

855. DFjr Test Results

From: melliott@ocslink.com
Date: Mon, 29 Jul 1996 18:59:11 -0500
To: aprssig@tapr.org
Message-ID: <199607292359.SAA32467@ocslink.com>
Rendered body type: text/plain

Hello Joe

I know it has been a long time since you heard anything from me, and I know that you are probably still swamped with a long list of E-mails from everyone. Therefore, I will make this report very brief.

Mark/N9WST, and myself were finally able to get together and try our DFjrs out. The semi-controlled tests were under real conditions, and only on VHF (two meters). After calibrating my unit, I set out to "hide" from Mark. When he located my position, he would go "hide" for me.

With the unit in the statistical mode and left at the default sampling rate, my DFjr seemed to work exceptionally well. Mark hid in some pretty challenging locations, and yet, the DFjr led me right to him each and every time without fail.

Reflections? ... what reflections? I did not notice any real problem with reflections, but I know they were there. Occasionally, I could hear the distorted/tinny sound, and perhaps an off-beat LED indication every now and then, but one just needs to keep in motion. We also transmitted multiple DTMF tones in an attempt to throw the DFjr off course ... nothing doing.

I have noticed that you really need to keep a close eye on the display while it is in this mode. As the sampling rate does not update like I am used to, and before I knew it, I had already passed the transmitter location. (I am used to using a homebrew DoppleScAnt, which is always in the "raw" mode).

Mark and I still intend to do some testing, perhaps on 220 and 440 and above. I have a few ideas to try out, and the only good way to try to complete all of the various testing, is to just be able to get out and do it. I will keep you aware of our progress.

I do have one suggestion to improve the DFjr. That is to add an ON/OFF switch to the unit. This would really make the unit more user friendly.

73,
Mark/WB9NKP

---

856. Old Zenith computer query

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Mon, 29 Jul 1996 20:31:23 -0400
To: aprssig@tapr.org
Cc: dsp2232@rmi.de
Message-ID: <199607300031.TAA00416@tapr.org>
Rendered body type: text/plain

Hello...TNX for reading this. I am looking for info concerning
 A old Zenith data systems mod. ZFL-171-42 (lugable style) computer.
        My question is, does it use pin 8 of the RS-232 serial port
 for the DCD line. I have a program that requirs it, but will not work.
        Any help would be appreciated.
          -73- Charlie K3VDB

---

857. Re: Bertha: lessons learned

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 29 Jul 1996 20:16:26 PST
To: aprssig@tapr.org
Message-ID: <19960729.202124.4335.0.kf4dys@juno.com>
Rendered body type: text/plain

On Mon, 29 Jul 1996 15:14:51 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>APRSdos REPLY COMMENT: The 1 key is actually the default map pointed
>to by the current MAPLIST.XX file. For the MAPLIST.USA, it is the
>USA. For MAPLIST.GA, it would be Georgia, etc...

Thanks, Bob. I've been using maplist.nfl, put out by ks4ny. That
info was enough, to enable me to figure out how to make it do it
my way.

regards,
Joe

---

858. Re: Bertha: lessons learned (long)

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 29 Jul 1996 20:21:16 PST
To: aprssig@tapr.org
Message-ID: <19960729.202124.4335.1.kf4dys@juno.com>
Rendered body type: text/plain

On Mon, 29 Jul 1996 08:26:53 -0500 (CDT) William Nolle <wa8inz@cris.com>
writes:
>
>Joe i respect what you and the group are trying to do, BUT you keep
>saying
>that other user information is not accurate "inland distant stations,
>that
>are unconcerned about the accuracy" I beg to differ with you and take
>offence to your remarks.

I am sorry, Bill, that you have taken this personally.

I deliberately refrained from publicly identifying any
station that posted bad or obsolete data. Instead, I
attempted to contact those operators, privately, and
provided assistance with path recomendations, math
conversions and urls for the Marine Forecast Advisories,
to use instead of the Public Advisories. I wish someone
had done the same for me, when I first started out,
rather than just ignoring my mistakes and letting me find
them out the hard way.

I believe that these same mistakes will continue to
happen, as every storm will bring out new stations,
trying out the techniques, so this will continue to be an
ongoing problem.

The simple fact that I did mention your station, as a
source for one solution, should reassure you that I was
not attempting to infer that your data was erroneous. I
do pick up your packets, intermittently, and your
postings are always square on the track of my own storm.

If the time comes that one of your postings is off to the
side of my own track, I will disable my transmitter and
take the time to check my own data, before doing anything
else.

If your station came in 80% of the time instead of
intermittently in the evenings and early mornings, I
would not be doing this task in the first place. Instead,
I would work to figure out a way to digi your packets
into our local net, all the time.

regards,
Joe

---

859. Re: [APRSSIG:3424] APRS Internet server

From: ku0g@sprynet.com
Date: Mon, 29 Jul 1996 20:24:16 -0700
To: aprssig@tapr.org
Message-ID: <199607300324.UAA09629@m1.sprynet.com>
Rendered body type: text/plain

I took a look at the server last night (very late!). After the long load I was
impressed with the map and I saw monitored packets on the bottom of the screen
but no positions were shown on the map! I then tried switching to the SE US map
and got the map but no more data...

Tried to access late this afternoon and got a fatal error in Netscape Navigator.
I'm wondering if the newer version has a bug....

Nonetheless, I'm looking forward to playing with this more and we may even be
interested in doing the same thing here in Kansas City in the near future! I
have access to a full-time server at school and I could easily get space....
The location of my school (extreme NW MO, 20 miles S of Clarinda IA would make
the entire IA/MO/KS APRS Network accessible by Internet!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

860. Re: [APRSSIG:3442] Re: Silly reply to INFO ABOUT MEETING and serious question

From: ku0g@sprynet.com
Date: Mon, 29 Jul 1996 20:34:37 -0700
To: aprssig@tapr.org
Message-ID: <199607300334.UAA11991@m1.sprynet.com>
Rendered body type: text/plain

I'm wondering here....

What would the "female" version look like?!?!?!? I'm certainly eager!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

861. Huricane track

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 30 Jul 1996 00:39:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960730003652.8487A-100000@arctic>
Rendered body type: text/plain

I just posted BERTHA.ZIP which contains two files:

BERTHA.HST which is mostly just BERTHA
BERTHAWX.HST which is Bertha plus all other WX stations on air at the
time...

de wb4apr@amsat.org

---

862. *?

From: ko6xs@ko6xs.ampr.org
Date: Tue, 30 Jul 96 07:57:00 PDT
To: aprssig@tapr.org
Message-ID: <3772@ko6xs.ampr.org>
Rendered body type: text/plain

I've been hearing DX stations in the morning. I usually hear them through a
local WIDE as denoted by the * next to it in the station's string. But, how
do I tell which local WIDE I'm receiving? Also, shouldn't my unproto be set
to wide,gate,wide to reply? It is and I haven't been able to reach those DX
stations.. What am I doing wrong? Thanks in advance for any help.
73s de Jon Kaplan

```
                                        □□□
                                       (□ □)
         □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

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863. WB0ONX-7 Flight Update....

From: ku0g@sprynet.com
Date: Tue, 30 Jul 1996 10:35:16 -0700
To: aprssig@tapr.org
Message-ID: <199607301735.KAA05224@m1.sprynet.com>
Rendered body type: text/plain

Checked when I got up this morning and no sign of ONX-7 either on P or L
listing. Wonder if the flight got cancelled at the last minute or if the setup
failed. Will be watching again this evening at expected departure time...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

864. Re: [APRSSIG:3425] Info on Crystals

From: "JOHN M. GRATTON" <acmekc@sky.net>
Date: Tue, 30 Jul 1996 14:39:15 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607301939.OAA19322@sky.net>
Rendered body type: text/plain

At 12:33 PM 7/29/96 -0500, you wrote:
>A well-sited amateur radio station operator has agreed to set up a
>RELAY-WIDE digi in our area, if I re-crystal his radio for him. Since I've
>been having trouble getting out of my not-so-well-sited QTH, I've agreed.
>
>His radio is a Motorola MOXY (he says). Does anyone know of:
>
>1. A source for transmit and receive crystals for this type of radio.
>
>2. Any special tech requirements for these crystals.
>
>Appreciate in advance any response.
>
>73 de Jay
 TRY INTERNATIONAL CRYSTAL IN OKLAHOMA CITY (I THINK)..

73
JOHN..

---

865. Interesting Press Release

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 30 Jul 1996 14:44:45 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960730144445.20405ae7@exame2.dseg.ti.com>
Rendered body type: text/plain

Shades of APRS!!!
Does this sound familiar, or what!?

73 Claude
   K5DTN
==
Date: Tue, 30 Jul 1996 12:58:59 -0400
From: NASANews@luna.osf.hq.nasa.gov (NASA HQ Public Affairs Office)
Message-Id: <9607301658.AA14784@luna.osf.hq.nasa.gov>
To: press-release@venus.hq.nasa.gov
Subject: Agencies Team Up to Improve Aerial Firefighting
Sender: owner-press-release@venus.hq.nasa.gov

Don Nolan-Proxmire
Headquarters, Washington, DC   July 30, 1996
(Phone: 202/358-1983)

Mike Mewhinney
Ames Research Center, Mountain View, CA
(Phone: 415/604-3937)

Hugh Carson
Bureau of Land Management, Reno, NV
(Phone: 702/785-6526)

Lanny Allmaras
USDA Forest Service, Boise, ID
(Phone: 208/387-5634)

RELEASE: 96-151

AGENCIES TEAM UP TO IMPROVE AERIAL FIREFIGHTING

In an effort to improve aerial firefighting safety and efficiency, NASA, the Bureau of Land Management, the USDA Forest Service and the Nevada Division of Forestry are cooperating to examine and evaluate aerial firefighting communications and the airspace structures over wildland fires.

The agencies also are evaluating an electronic Advanced Navigation Display System (ANDS), developed by NASA's Ames Research Center, Mountain View, CA, to aid aerial firefighters in their communications and operations.

"This project potentially will help aerial commanders direct their assault on a wildland fire by simplifying, standardizing and reducing their verbal communications," said Ames' Vernol Battiste, the project's principal investigator and a former air traffic controller. "Loss of situational awareness by pilots in high workload situations often has disastrous consequences," he said.

"Our research will assist firefighting agencies nationwide in identifying solutions that should reduce the cost of extinguishing fires and improve safety during aerial firefighting operations," added Battiste.

During the project's first phase, scheduled to begin in early August, in-cockpit, air-to-air, and air-to-ground communications will be recorded and pilot workload information will be collected.

"This will be accomplished through use of mini-cameras installed in the cockpits of the aircraft, as well as through a post-flight questionnaire to be completed by the pilot and crew," said Hugh Carson, the Bureau of Land Management's Nevada aviation manager and project leader.

Five firefighting aircraft based near Reno, NV, will be used during the data-gathering phase of the project. Participating aircraft include an OV-10 lead plane, a Commander 500 air attack aircraft, two P2V airtankers contracted from Neptune, Inc., Missoula, MT, and a Bell 204 helicopter from Idaho Helicopters. Along with audio-video recording capability, the prototype ANDS electronic display system also will be installed in each aircraft.

The ANDS system shows the position of other firefighting aircraft, establishes an airspace structure graphically on the computer screen, identifies areas needing retardant or water drops and transmits those images to other aircraft.

NASA researchers also will be testing integration of Forward-Looking Infrared technology with the navigation display. Participating companies that have loaned equipment to the project include Baker Electronics of Sarasota, FL, Landmark Technologies of San Jose, CA, Inframetrics of North Billerica, MA, and Dynametrics, Inc., of Las Vegas.

The ANDS system uses Pentium-class computers, graphics displays utilizing CD-ROM moving maps, radio modems, and Global Positioning System signals to show each aircraft's position and provide two-way data communications between aircraft.

Carson said the display's success will be highly dependent upon whether it can assist the pilot or air tactical supervisor in his or her tasks. "It must be a human-aiding tool," Carson said. "This aspect of the project will be totally driven by user feedback. It has the potential to significantly reduce the need for verbal communications. However, if the pilots and air tactical supervisors don't like it or use it, it's not going to end up in our airplanes."

Battiste said the human-machine interface of the ANDS system, and the challenges it presents in a high workload situation such as aerial firefighting, is a critical part of this study.

According to Lanny Allmaras, national aerial attack systems specialist for the Forest Service at the National Interagency Fire Center, Boise, ID, the basic objective during this first phase of the project is to gather information about what actually goes on in and outside the cockpit of an aircraft during aerial firefighting operations.

"Communications issues are frequently brought up at many post-fire reviews, as well as at aerial firefighter meetings," Allmaras said. "Whether or not the hardware technology can assist us in doing a better job remains to be seen, but we welcome an outside look by NASA, a proven world leader in aeronautics, communications and human factors research."

Under an interagency agreement signed last fall, the Bureau of Land Management and Forest Service are responsible for providing NASA with sufficient data to accomplish its research. Tests and data collection during actual firefighting missions are expected to continue into the 1997 fire season.

NASA will then make recommendations back to the fire agencies concerning communications, airspace structure, training and the display system. The fire agencies will examine these recommendations, consider available funding, and decide on implementing the proposal.

NOTE TO EDITORS: To arrange on-site interviews with the aerial firefighters, contact Cheryl Davis, Sierra Front Coordinator, Reno, NV, at 702/883-5995; or 702/721-3377.

-end-

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA.

---

866. Re: [APRSSIG:3449] Re: APRS Internet server

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 30 Jul 96 16:49:41 -0400
To: <aprssig@tapr.org>
Message-ID: <199607302046.QAA10919@bridge.net>
Rendered body type: text/plain

>I took a look at the server last night (very late!). After the long load
>I was
>impressed with the map and I saw monitored packets on the bottom of the
>screen
>but no positions were shown on the map! I then tried switching to the SE
>US map
>and got the map but no more data...
>
>Tried to access late this afternoon and got a fatal error in Netscape

```
>Navigator.
> I'm wondering if the newer version has a bug....
>
Probably...two steps forward, one back. It seems to be OK now, been
trying a new version out, and just went online with it. Give it another
try.

>Nonetheless, I'm looking forward to playing with this more and we may even
>be
>interested in doing the same thing here in Kansas City in the near future!
> I
>have access to a full-time server at school and I could easily get space....
>The location of my school (extreme NW MO, 20 miles S of Clarinda IA would
>make
>the entire IA/MO/KS APRS Network accessible by Internet!!!
>
Cool. Stay tuned for what you'll need to do to go online!

Steve
```

867. Re: [APRSSIG:3434] Re: Info on Crystals

From: Mike Stickney <michael@calweb.com>
Date: Tue, 30 Jul 1996 17:13:19 -0700
To: aprssig@tapr.org
Message-ID: <31FEA51F.F49@calweb.com>
Rendered body type: text/plain

```
rwf wrote:
>
> Beware of Jan Crystals for a digi or repeater... especially their 2 day
> non-aged ones.
> Stick with a manufacturer like International, not an el-cheapo!

Out of the 20 or so RF xtals we've ordered from Jan, 10 of them have had
to be returned.  I've never returned a xtal to ICM.

--
Mike Stickney   Mail: mailto:michael@calweb.com
KM6PX           Home: http://www.calweb.com/~michael
              Packet: km6px.#nocal.ca.usa.noam
                  IP: 44.2.0.132
```

868. xtals

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 30 Jul 1996 21:10:17 -0400
To: aprssig@tapr.org
Message-ID: <31FEB279.24CE@global2000.net>
Rendered body type: text/plain

```
Hi

A simple statement:
                        Bar none International xtal is THE best!

John << N2OJY >>

BTW- their # is  1-800-426-9825
```

869. Re: [APRSSIG:3453] WB0ONX-7 Flight Update....

From: Dave Kaplan <dkaplan@pionet.net>
Date: Tue, 30 Jul 1996 21:08:45 -0500
To: aprssig@tapr.org
Message-ID: <9607310208.AA29714@ELWOOD.pionet.net>
Rendered body type: text/plain

```
At 12:55 PM 7/30/96 -0500, you wrote:
>Checked when I got up this morning and no sign of ONX-7 either on P or L
>listing.  Wonder if the flight got cancelled at the last minute or if the
setup
>failed.  Will be watching again this evening at expected departure time...
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>
>
```

Hi guys. What happens when you leave the switch in the 12V position then
hook up to a 24V aircraft?

SMOKE!

Sorry. The KPC-3 is rated for 28V but the Motorola Encore and Allinco
DR1200 are not. Have to tear into them and see how much damage my STUPID
ATTACK did.

Dave
Mojave N9232Y
WB0WNX-7

P.S. If all goes well I'll be traveling to Oklahoma City and back as well
as St. Joe, MO next week. I'll keep you advised.

P.P.S. Even though there is NO APRS activity in the Sioux City area other
than me, once I climbed through 6,000 ft (5,000 above the ground) the
frequency was constantly busy. One day, when someone else is flying, I'll
hook a computer up and see what I can hear!

---

870. Re: [APRSSIG:3418] APRS Perseids Meteor

From: K2ADJ@prodigy.com (MR RODNEY G FOWLER)
Date: Tue, 30 Jul 1996 21:13:04, -0500
To: aprssig@tapr.org
Message-ID: <199607310113.VAA19084@mime3.prodigy.com>
Rendered body type: text/plain

I just read Stan's epistle on how to work the Meteor Shower and that you
should run at least 100 watts and use a whoppum beam and I have a question
as to the validity of a signal being received.

I am the sysop of a BBS and look at nodes tables as they fly by on the
screen and many times during the evening I will see NODES showing up in the
tables that are hundreds of miles away, the ONLY way that could have
happened is if the broadcast from the original node was reflected off of an
aircraft flying up in the Wild Blue Yonder.

So, with aircraft flying up around 40,000 feet, how can you tell by
watching your screen that it was a meteor reflection and not from a passing
aircraft? Running 100 watts plus with a high gain beam, I am quite sure
you will be bouncing your signal off of many aircraft!

73 de Rod

---

871. Re: [APRSSIG:3456] Re: APRS Internet server

From: ku0g@sprynet.com
Date: Tue, 30 Jul 1996 19:29:31 -0700
To: aprssig@tapr.org
Message-ID: <199607310229.TAA17131@m1.sprynet.com>
Rendered body type: text/plain

I logged on the Internet APRS site again today and watched with GREAT ENTHUSIASM
as stations began popping up on the map! What a NEAT applet!!! MORE MORE!!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

872. Re: 30 Meter Gate

From: "Jerry" <jerdptro@xnet.com>
Date: Tue, 30 Jul 1996 21:49:09 +0000
To: aprssig@tapr.org
Message-ID: <199607310248.VAA21501@flood.xnet.com>
Rendered body type: text/plain

Greetings:
I have just finished installing a Force 12 antenna system on at 70
foot tower. I installed a linear loaded dipole at 75 feet for 30
meter gate operation. The dipole will be firing in a NE and SW
direction. I would appreciate signal reports. The old antenna was
an inverted vee at 30 feet.

Also, I have 2 meter antenna at 78 feet and I am on a very high piece
of real estate about 13NM NW of O'Hare Field. I have been getting a
lot of 2 meter spots from Michigan.

```
I am soliciting signal reports.
Thanks for your attention
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com
```

---

873. Re: [APRSSIG:3457] Re: Info on Crystals

From: N5RKN@aol.com
Date: Tue, 30 Jul 1996 22:55:14 -0400
To: aprssig@tapr.org
Message-ID: <960730225512_588780639@emout10.mail.aol.com>
Rendered body type: text/plain

```
I will NEVER order anything from BOMAR crystal anytime soon.  About 4 years
ago, I ordered a set for 145.130... only to receive 155.130.  They even
repeated my
order twice verbally to me during the order.  Their response to receiving the
wrong
crystals:  They don't accept returns... and according to their notes, I had
ordered
155.130.  What a rip!
  N5RKN
```

---

874. Re: [APRSSIG:3459] Re: WB0ONX-7 Flight Update....

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 30 Jul 1996 23:50:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960730233524.15450A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 30 Jul 1996, Dave Kaplan wrote:

> P.P.S.  Even though there is NO APRS activity in the Sioux City area other
> than me, once I climbed through 6,000 ft (5,000 above the ground) the
> frequency was constantly busy.

APRSdos REPLY COMMENT: This is an important point for Balloons and
Aircraft.  Your receiver wiill hear so much activity on 145.79 that it
might not EVER hear the channel go clear, and therefore may not ever
transmit!  If your flight is important, you might consider setting the TNC
to full duplex so that it will transmit without regard to channel busy...

I say this with anxiety, becasue this is a feature not to be abused! hi hi

This is how SAREX operates.  Otherwise, we would never hear anything...
I just calculated that as soon as the flight is line-of-sight to about 60
stations, averaging 4 digi hops each, then you will hear 100% channel
saturation, and the flight will never hear a quiet period!  Here in
Annapolis, on the ground, I routinely see the full 80 capacity of APRS all
the time!

de wb4apr@amsat.org
```

---

875. Re: [APRSSIG:3432] Re: APRS Perseids Meteor Scatter Test

From: "Arthur J. Martin" <amartin@world2u.com>
Date: Wed, 31 Jul 1996 01:05:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199607310505.BAA15387@ants3.world2u.com>
Rendered body type: text/plain

```
At 02:55 PM 7/29/96 -0500, you wrote:
>I am having big probs at work, I will be out of town for the Meteor
>scatter test and wont have time to test the curent versions of APRS
>to be sure that Meteor mode still works.  WOuld someone test it and
>confirm that I didnt break it with all the recent SAREX changes...
>
>de wb4apr@amsat.org

Hi, Bob...

Using APRS 7.5F.

Did the Alt-S, Format, for beam direction I put 000, power 025 and selected
the defaults for the rest.

At the first transmit, got error msg in 2nd line of upper left corner of
map. (map had the blue grid squares like SPACE mode)
```

```
Any other specific I should test for? OH... set the Unproto to NONE

73 de Art (The Old Timer) <grin>



>
>
>
==================================
From:  Arthur J. Martin
TEL:   +908+876+3189
Inet:  amartin@world2u.com
AX.25: N2QAE@N2QAE.#NNJ.NJ.USA.NA
==================================
```

---

876. Re: [APRSSIG:3463] Re: Info on Crystals

From: Todd Erickson <z008876b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 31 Jul 1996 01:04:19 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9607310143.A19690-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
On Tue, 30 Jul 1996 N5RKN@aol.com wrote:

>  I will NEVER order anything from BOMAR crystal anytime soon.  About 4 years
> ago, I ordered a set for 145.130... only to receive 155.130.  They even
> SNIP <

Hey, word of mouth says a lot!  I will be sure never to order from BOMAR
or JAN, due to the bad rap they are recieving here.  So what seems to be
the best, International?
```

---

877. Re: [APRSSIG:3432] Re: APRS Perseids Meteor Scatter Test

From: "Arthur J. Martin" <amartin@world2u.com>
Date: Wed, 31 Jul 1996 01:21:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199607310521.BAA15585@ants3.world2u.com>
Rendered body type: text/plain

```
At 02:55 PM 7/29/96 -0500, you wrote:
>I am having big probs at work, I will be out of town for the Meteor
>scatter test and wont have time to test the curent versions of APRS
>to be sure that Meteor mode still works.  WOuld someone test it and
>confirm that I didnt break it with all the recent SAREX changes...
>
>de wb4apr@amsat.org

Bob... I apologize... trying to be multi-modal and failing (rapidly)...

The error msg said to CHECK YOUR APRS SUBDIRECTORIES

The Grid square identifier displays as for the space mode. Until I
regenerate the screen, that is. Then it is gone and the grid squares are too.

When it does a meteor transmit, in view mode I see:

cmd:cmd:

And nothing in the View mode when I kick off any other type (ALL)

Hope this helps a bit. I never tried this before so I really don't feel that
I know what it is I think I see on the screen. The TNC seems to kick off
when APRS beeps.

Give me something specific to try, perhaps. That may be more fruitful.

73 de The Old Timer



>
>
>
==================================
From:  Arthur J. Martin
```

```
TEL:   +908+876+3189
Inet:  amartin@world2u.com
AX.25: N2QAE@N2QAE.#NNJ.NJ.USA.NA
==================================
```

---

878. Re: [APRSSIG:3465] Re: APRS Perseids Meteor Scatter Test

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Wed, 31 Jul 1996 07:15:57 -0700
To: aprssig@tapr.org
Message-ID: <31FF6A9D.4B29@worldnet.att.net>
Rendered body type: text/plain

```
WOuld someone test it and
> >confirm that I didnt break it with all the recent SAREX changes...
> >
> >de wb4apr@amsat.org
>
> Hi, Bob...
>
> Using APRS 7.5F.
>
> Did the Alt-S, Format, for beam direction I put 000, power 025 and selected
> the defaults for the rest.
>
> At the first transmit, got error msg in 2nd line of upper left corner of
> map. (map had the blue grid squares like SPACE mode)
>
> Any other specific I should test for? OH... set the Unproto to NONE
> I also checked 7.6f using much the same setup.  Everything seemed to work
as advertised.  No error messages.

Bud (WB4LTF)
```

---

879. Re: [APRSSIG:3453] WB0ONX-7 Flight Update....

From: Carlos Peres da Costa <CPC@NPD.UFPE.BR>
Date: Wed, 31 Jul 1996 09:23:38 -0300
To: aprssig@tapr.org
Message-ID: <01I7PUHSFOZ68WWAKM@NPD.UFPE.BR>
Rendered body type: text/plain

```
Dear Om
    Could you please cancel my name from the tapr.org mail list. I do
   not succeed to sign off the list by the suggested procedure.
          Thanks    Peres        CPC@NPD.UFPE.BR
```

---

880. Re: [APRSSIG:3466] Re: Info on Crystals

From: Carlos Peres da Costa <CPC@NPD.UFPE.BR>
Date: Wed, 31 Jul 1996 10:19:07 -0300
To: aprssig@tapr.org
Message-ID: <01I7PWI204TU8WWAKM@NPD.UFPE.BR>
Rendered body type: text/plain

```
Please cancel my E mail addd from the subscriber list
 Thanks  CPC@NPD.UFPE.Br
```

---

881. New Virginia Digi!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jul 1996 09:24:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960731091959.17279A-100000@arctic>
Rendered body type: text/plain

```
I just saw a new digi last night in western Virginia.  It is KB4CNI-3
which has been moved to 4400 feet on Elliott Knob.  It has been on the air
before, but its height above average trerrain has gone up from 80 to over
2500 feet..  Currently the next digi north, WA4TFZ, is off the air due to
local interferrence to/with its colocated voice repreater...  So I was
lucky to see it.  If you do a MAP-PLOTS-POWER you will notice that it
favors to the north.

de wb4apr@amsat.org
```

---

882. APRS in CAVES

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 31 Jul 1996 09:44:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960731094151.17279C-100000@arctic>

Rendered body type: text/plain

```
In response to my note about using APRS in CAVES, we have three of us
chatting off line about doing some tests.  One other person responded, but
I lost his address.  If you are a caver and have something to contribute,
lemme know, and I will add your address for copies...

de wb4apr@amsat.org
```

---

883. APRS Internet

From: dwetzel@uswest.com (Douglas Wetzel)
Date: Wed, 31 Jul 1996 08:27:37 -0500
To: aprssig@tapr.org
Message-ID: <1FF6DB30.1262@acmspgw1.mnet.uswest.com>
Rendered body type: text/plain

```
I agree - more, the only problem is the 12 Gigbytes of memory required to run
Netscape 3.0! ;-)

Doug
KC7CO

>I logged on the Internet APRS site again today and watched with GREAT
ENTHUSIASM

>as stations began popping up on the map!  What a NEAT applet!!!  MORE MORE!!!!

>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
```

---

884. Re: [APRSSIG:3466] Re: Info on Crystals

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 31 Jul 1996 10:22:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199607311522.KAA14550@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Todd Erickson sez:
>
> Hey, word of mouth says a lot!  I will be sure never to order from BOMAR
> or JAN, due to the bad rap they are recieving here.  So what seems to be
> the best, International?

I've had good luck with both International as a first choice and Marden as a
2nd choice for both quick-ship (2 weeks) and aged/compensated crystals for
repeater and mobile work.

73, gerry
n5jxs@tamu.edu
```

---

885. Re: [APRSSIG:3463] Re: Info on Crystals

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@babbage.csee.usf.edu>
Date: Wed, 31 Jul 1996 11:54:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960731115223.25945C-100000@babbage>
Rendered body type: text/plain

```
We've had problems with Bomar too... ordered 223.34 xtal and somehow they
sent a 224.94 xtal.  How they managed to send us the xtal for the output
of our 220 repeater instead of the input I'll never know.

Have a friend who lives in Ft. Myers who sounds like he's getting in good
with Jan (he has tons of repeaters and builds and sells them too) and I'm
he seems to be using more Jan xtals of late for whatever reason.

Paul

 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /               Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

---

886. Re: [APRSSIG:3473] APRS Internet

From: Roger Breckon <n8chb@tir.com>
Date: Wed, 31 Jul 1996 16:14:41 +0100
To: aprssig@tapr.org

Message-ID: <31FF7860.2681@tir.com>
Rendered body type: text/plain

```
Douglas Wetzel wrote:
>
> I agree - more, the only problem is the 12 Gigbytes of memory required to run
> Netscape 3.0! ;-)
> Doug
> KC7CO
>
> >I logged on the Internet APRS site again today and watched with GREAT
> ENTHUSIASM
>
> >as stations began popping up on the map!  What a NEAT applet!!!  MORE MORE!!!!
>
> >Best 73,
> >Jim Duncan, KU0G
> >APRS--Kansas City Coordinator
> >EMail:  ku0g@sprynet.com

//////////////////////////////////////

To bad abt ur not being able to use netscape but u might try
http://www.wa4dsy.radio.org:14579/
that will give u text and u can visualize what things look like!
also seeing hf stations though the gateway.

neat stuff coming from Atlanta?

de Roger n8chb@tir.com
```

---

887. KD1DU?

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 31 Jul 96 12:18:41 EDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.838829921.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
Is KD1DU on this list?  I see your call KD1DU-15 on my TNC's heard list
(was running TNC only) as heard direct, which is extremely unusual given
my location.  Did you happen to drive by recently, perhaps on the Taconic
State Parkway through Briarcliff Manor?  Unfortunately the TNC forgot what
time it is again, so I don't have a timestamp on the heard list.

73 de Alan N2YGK [FN31cd]
```

---

888. Re: [APRSSIG:3466] Re: Info on Crystals

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 31 Jul 1996 17:25:37 -0400
To: aprssig@tapr.org
Message-ID: <199607312125.RAA30981@grumpy.magg.net>
Rendered body type: text/plain

```
Yes, International is one of the best and Frequency International is not bad
either. It is no International but at about $12.50 per crystal they are not
too expensive. Frequency International is a division of Standard
Communications Commercial Division or a part of Standard that just recently
broke off on their own.


>On Tue, 30 Jul 1996 N5RKN@aol.com wrote:
>
>>  I will NEVER order anything from BOMAR crystal anytime soon.  About 4 years
>> ago, I ordered a set for 145.130... only to receive 155.130.  They even
>> SNIP <
>
>Hey, word of mouth says a lot!  I will be sure never to order from BOMAR
>or JAN, due to the bad rap they are recieving here.  So what seems to be
>the best, International?
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

889. Re: [APRSSIG:3460] Re: APRS Perseids Meteor

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 31 Jul 96 17:27:38 -0400
To: <aprssig@tapr.org>
Message-ID: <199607312124.RAA13060@bridge.net>
Rendered body type: text/plain

```
>I just read Stan's epistle on how to work the Meteor Shower and that you
>should run at least 100 watts and use a whoppum beam and I have a question
>as to the validity of a signal being received.
>
Yes, but, as one half of the longest contact on the first Meteor Test, I
used an 8 dB omni antenna. When there are a lot of stations on the air,
sometimes you get lucky...

Steve KO4HD
```

890. KD1DU?

From: KD1YV <jimkd1yv@ix.netcom.com>
Date: Wed, 31 Jul 1996 20:02:43 -0300
To: aprssig@tapr.org
Message-ID: <31FFE613.5229@ix.netcom.com>
Rendered body type: text/plain

```
>From: Alan Crosswell <alan@watsun.cc.columbia.edu>

>Is KD1DU on this list?  I see your call KD1DU-15 on my TNC's heard list
>(was running TNC only) as heard direct, which is extremely unusual given
>my location.  Did you happen to drive by recently, perhaps on the Taconic
>State Parkway through Briarcliff Manor?  Unfortunately the TNC forgot what
>time it is again, so I don't have a timestamp on the heard list.

Alan,

I don't think that Del, KD1DU is on the list.  However, his QTH is the envy of
VHF operators, being on top of a ridge with his antenna on a tower that peaks
well over 1000 ft ASL.  He lives in Ridgefield, CT, which borders NYS.  He
selected that house about a year and a half ago, based on its RF ability.  That
probably explains why you heard him.  Perhaps that, plus we have had some
dramatic tropo openings in the last couple of days, mornings and evenings.

Del is setting up a WIDE digi to assist some stations in SW Connecticut
that can't otherwise get into the net due to topography and distance to
other WIDEs.

In case you saw the question I posed the other day about being able to
monitor and plot only stations heard directly, it was for Del's benefit,
since he is a big-time VHF/UHF/microwave user.


73 de Jim, KD1YV
```

891. info needed

From: rbost@itexas.net (Roy Bost)
Date: Wed, 31 Jul 1996 20:45:14 -0500
To: <aprssig@tapr.org>
Message-ID: <19960801014610453.AAA125@rbost.itexas.net>
Rendered body type: text/plain

```
Sometime back there was discussion about a device that would send an APRS
pack burst at the end of a voice transmittion.  Would appreciate some info
about this device as it would seem perfect for Skywarn activities.

Also, can anyoe tell me how to make a map for WinAPRS without using a Mac??

de Roy, N5TAM
```

892. RE: [APRSSIG:3481] info needed

From: Horning S SSgt 607AIS/INXX <HorningS@tiger.osan.af.mil>
Date: Thu, 01 Aug 96 12:15:00 JST
To: aprssig <aprssig@tapr.org>
Message-ID: <31FED23E@smtpgate.osan.af.mil>
Rendered body type: text/plain

```
>Also, can anyoe tell me how to make a map for WinAPRS without using a Mac??

Will the DOS maps work with WinAPRS?

73,
Steve Horning
```

N0XVZ/HL9XVT

---

893. Re: [APRSSIG:3482] RE: info needed

From: rbost@itexas.net (Roy Bost)
Date: Wed, 31 Jul 1996 23:11:36 -0500
To: <aprssig@tapr.org>
Message-ID: <19960801041232100.AAA116@rbost.itexas.net>
Rendered body type: text/plain

DOS maps will work with WinAPRS but the maps made for WinAPRS can have more detail and a size limited only my the size of the computer (so I'm lead to belive!).

de Roy, N5TAM

August 1996

Original source file: aprssig.9608
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-08/TAPR-APRS_1996-08.txt

1. Re: [APRSSIG:3481] info needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Aug 1996 13:40:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960801133803.18573D-100000@arctic>
Rendered body type: text/plain

```
On Wed, 31 Jul 1996, Roy Bost wrote:

> Sometime back there was discussion about a device that would send an APRS
> pack burst at the end of a voice transmittion.  Would appreciate some info
> about this device as it would seem perfect for Skywarn activities.

APRSdos REPLY COMMENT: It is called the APRS MIC-ENcoder.  We have a few
dozen prototype kits available.  If you have a recent version of APRS,
read the VOX-APRS.TXT file or VOX-RPTR.TXT file...  They are $95 and are
available from Clement Engineering 410-268-6736.

de wb4apr@amsat.org
```

---

2. Re: [APRSSIG:3483] RE: info needed

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Aug 1996 13:43:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960801134151.18573E-100000@arctic>
Rendered body type: text/plain

```
On Wed, 31 Jul 1996, Roy Bost wrote:

> DOS maps will work with WinAPRS but the maps made for  WinAPRS can have
> more detail and a size limited only my the size of the computer (so I'm
> lead to belive!).

APRSdos REPLY COMMENT: DOS maps can have any detail even to the tables
within the HARA arena in Dayton.  The difference is that WinAPRS maps can
have a much larger number of points in them without having to change
maps.

de wb4apr@amsat.org
```

---

3. NMEA=>LCD display with stamp BS2

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Thu, 01 Aug 1996 16:30:45 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960801203045.0067cfd8@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
A few people asked for the code, so here it is (at the end of this message).

It's very basic, and can certainly be improved. One think to do is to add a
switch to scroll between two or more displays (lat/long then speed/direction
then time ....).

Major problem with the stamps is the RAM limited to 28 bytes: you just
cannot read more than (for example) lat, long and time in one operation.
That makes for a quite slow refreshing rate if you want to display 5 or 6
parameters

A better way to do the job would be to use directly the PIC microcontroller
(16C57, cost <10$) found in the stamp, programmed in assembly language.

Bernard, KB2TGH.

-----------------------------------------------------------------------------
' Display latitude and longitude out of a GPS (NMEA output) on a 16*2 lines
LCD display using the hitachi HD 44780 controller. Needs the stamp BS2 for
4800 bauds NMEA. The LCD is wired in 4 bits mode according to the
application note #1 in the stamp 1 manual. The code for LCD is adapted to
the BS2 from the same app note. The NMEA input is on PIN 7.
```

```
lat var byte(8)         'latitude without last decimal
long var byte(9)        'longitude without last decimal
'time var byte(6)       'time (not used for now)
ns var byte             'North South character
ew var byte             'East West character

E con 5         'LCD Enable pin, 1 = enabled
RS con 4        ' LCD Register select pin, 0 = instruction
char var byte   'Character sent to LCD.
c var byte      'not use anymore I think (?)
ni var byte     'nibble sent to the LCD


begin:

outl = 0                'Clear the output lines
dirl = %01111111        'One input, 7 outputs.
pause 200               'Wait 200 ms for LCD to reset.


' Initialize the LCD in accordance with Hitachi's instructions for 4-bit
interface.

outl = %00000011        'Set to 8-bit operation.
pulsout E,5             'Send data three times
pause 10                'to initialize LCD.
pulsout E,5
pause 10
pulsout E,5
pause 10

outl = %00000010        'Set to 4-bit operation.
pulsout E,5
pulsout E,5
outl = %00001010
pulsout E,5

char = 14               'Set up LCD in accordance with
gosub wr_LCD            'Hitachi instruction manual.

char = 6                'Turn on cursor and enable
gosub wr_LCD            'left-to-right printing.

char = 1                'Clear the display.
gosub wr_LCD

high    RS              'Prepare to send characters.

start:

' get NMEA data from pin 7, wait for the sentence "$GPGGA" to appear then
skip 8 characters then read a 8 char string in lat .....

serin 7,188+$4000,[wait("$GPGGA"),skip 8 ,str lat\8,skip 1,str ns\1,skip
1,str long\9,skip 1,str ew\1]


'display on the pc screen for debug purpose to test NMEA connection only
'debug str lat\7," ",ns,"   ",str long\8," ",ew,cr

'put LCD cursor at 1st position on 1st line
low RS : char=%10000000 : gosub wr_LCD : high RS


char="L" : gosub wr_LCD         'write "LAT N 74°56.45'" on LCD first line
char="A" : gosub wr_LCD
char="T" : gosub wr_LCD
char=" " : gosub wr_LCD
char=ns  : gosub wr_LCD
char=" " : gosub wr_LCD
char=lat(0) : gosub wr_LCD
char=lat(1) : gosub wr_LCD
char=%11011111    : gosub wr_LCD        'hitachi's code for char "°"
char=lat(2) : gosub wr_LCD
char=lat(3) : gosub wr_LCD
char=lat(4) : gosub wr_LCD
char=lat(5) : gosub wr_LCD
char=lat(6) : gosub wr_LCD
char=lat(7) : gosub wr_LCD
```

```
char=39 : gosub wr_LCD                  'hitachi's code for char "'"

'move LCD cursor to 1st position on 2d line
low RS : char=%11000000 : gosub wr_LCD : high RS

char="L" : gosub wr_LCD         'write "LNG W 125°56.45'" on LCD second line
char="N" : gosub wr_LCD
char="G" : gosub wr_LCD
char=" " : gosub wr_LCD
char=ew  : gosub wr_LCD

char=long(0) : gosub wr_LCD
char=long(1) : gosub wr_LCD
char=long(2) : gosub wr_LCD
char=%11011111    : gosub wr_LCD
char=long(3) : gosub wr_LCD
char=long(4) : gosub wr_LCD
char=long(5) : gosub wr_LCD
char=long(6) : gosub wr_LCD
char=long(7) : gosub wr_LCD
char=long(8) : gosub wr_LCD
char=39 : gosub wr_LCD

goto start

end

' Write the ASCII character in char to LCD.
'rem: actually not all the codes are exact ASCII match.

wr_LCD: outl = outl & %00010000
        ni = char/16            'Put high nibble of b3 into b2.
        outl = outl | ni        'OR the contents of b2 into pins.
        pulsout E,10            'Blip enable pin.
        ni = char & %00001111   'Put low nibble of b3 into b2.
        outl = outl & %00010000 'Clear 4-bit data bus.
        outl = outl | ni        'OR the contents of b2 into pins.
        pulsout E,10            'Blip enable.
return
```

Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/

---

4. Maps for WinAPRS

From: elmartin@iamerica.net (Eric L. Martin)
Date: Thu, 01 Aug 1996 21:43:19 -0600
To: aprssig@tapr.org
Message-ID: <199608020244.VAA26541@ns2.iamerica.net>
Rendered body type: text/plain

I'm looking at purchasing a new laptop that I would like to use on
my trip to the DCC this September. I am going to be running WinAPRS mobile
on Amtrak. I am aware of several mapping programs (ie. Street Atlas USA by
Delorme), and I am wondering if any of these maps can be used in WinAPRS (or
APRSDos also) from the CD. Also, if the maps can't be used, is there any
certain programs that stick out above the rest for details, as I would still
like to have a good mapping program for regular use? TNX

--
Eric L. Martin (KC5ENU)
elmartin@iamerica.net

---

5. APRS data over internet

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Fri, 2 Aug 1996 11:27:06 -0500
To: aprssig@tapr.org, Steve Dimse <sdimse@bridge.net>
Message-ID: <9608021127.AA06922@oscar.telalink.net>
Rendered body type: text/plain

I just used the TGE TCP Communications Toolbox tool on my Mac to connectthe
APRS telnet port(www.wa4dsy.radio.org:14579 or 206.28.196.150:14579) to my HF
TNC port on MacAPRS. Very cool. The data from Atlanta came in (normally see
alot of Atlanta stations anyway here in Nashville) and displayed on the map
just fine. A few questions/statements.

1. I assume the telnet site ignores anthing sent from the sites logging in.

2. How can I set up something like this in Nashville?

3. Assuming other folks find this interesting enough, is it possible to take
the data from several cities and consolidate it to a single telnet port
(kindof like a one way HF gateway)?

4. Am I the only one that thinks this is an interesting spin on APRS?

73

Bruce

```
--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net    *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                    *
* Hermitage TN  37076-2650                                     *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W    *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W       *
* URL:  http://www.telalink.net/~martinbw/home.html            *
*        ftp://ftp.telalink.net/~martinbw                      *
*    I have a 486DX33 to play games and run some HAM programs,*
*        when I want to do serious work I use a Macintosh.     *
****************************************************************
```

6. Re: [APRSSIG:3488] APRS data over internet

From: tfleming@madison.tec.wi.us (Tom Fleming)
Date: Fri, 2 Aug 1996 12:52:37 -0500
To: aprssig@tapr.org
Message-ID: <v01530505ae27ac0262e4@[198.150.211.6]>
Rendered body type: text/plain

>I just used the TGE TCP Communications Toolbox tool on my Mac

What is TGE TCP Communications Toolbox tool and where can I get it?

```
________________________________________
Tom Fleming       Network Tech
Postmaster
Madison Area Tech College
(608) 246-6140
Internet:tfleming@madison.tec.wi.us
N9SZF
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
IBM's are computers you work on. Macintosh's are Computers you work with.
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

7. Maps for APRS

From: Mel Muecke <MMuecke@InterfaceTech.com>
Date: Fri, 02 Aug 1996 11:26:13
To: aprssig@tapr.org
Message-ID: <19960802112613.388d89ee.in@InterfaceTech.com>
Rendered body type: text/plain

I too am interested in mapping sources. Does anyone know the differences
between Street Atlas USa (Delorme?) and Precision Mapping 2.0?

I have noticed that Street Atlas has lots of little errors at the street level.

Which one would be better for use in generating maps for APRS?

thanks,

Mel

```
________________________________________________________
  @__0~_           Mel Muecke - Applications Engineer
 ,>/->/-#          mmuecke@InterfaceTech.com
(*)\--\(*)         Interface Technology - Walnut, CA  USA
                   (909) 595-6030   Fax (909) 595-7177
```

8. Re: [APRSSIG:3488] APRS data over internet

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Fri, 02 Aug 96 14:58:11 EDT
To: aprssig@tapr.org
Message-ID: <199608021858.SAA53436@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

On Fri, 2 Aug 1996 11:28:57 -0500 (CDT) you wrote:

>I just used the TGE TCP Communications Toolbox tool on my Mac to connectthe
>APRS telnet port(www.wa4dsy.radio.org:14579 or 206.28.196.150:14579) to my HF
>TNC port on MacAPRS. Very cool. The data from Atlanta came in (normally see
>alot of Atlanta stations anyway here in Nashville) and displayed on the map
>just fine. A few questions/statements.
>
>1. I assume the telnet site ignores anthing sent from the sites logging in.

Yes, But this may change in th future.

>
>2. How can I set up something like this in Nashville?

The current server is C++ code for OS/2. As soon as I get all the
bugs worked out I'll make it available in source form. This was
a "quick and dirty" project so portablilty was not considered.
Others are welcome build versions for their favorite OS. It's
really not very complex.

You will also need a fixed IP address and domain name on a machine
with 24hr internet access.

>
>3. Assuming other folks find this interesting enough, is it possible to take
>the data from several cities and consolidate it to a single telnet port
>(kindof like a one way HF gateway)?

Sure.... as soon as we work out a protocol for inter-server communications.
This could be as simple as the server resending everything it hears
from the telnet port to everyone logged on except the sender. A time-to-live
field will probablily be required to prevent infinite loops.

>
>4. Am I the only one that thinks this is an interesting spin on APRS?

I hope not ;-)

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

9. Re: [APRSSIG:3488] APRS data over internet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Aug 1996 15:29:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960802152202.25210E-100000@arctic>
Rendered body type: text/plain

On Fri, 2 Aug 1996, Bruce W. Martin wrote:

> I just used the TGE TCP Communications Toolbox tool on my Mac to connectthe
> APRS telnet port(www.wa4dsy.radio.org:14579 or 206.28.196.150:14579) to my HF
> TNC port on MacAPRS. Very cool. The data from Atlanta came in and
> displayed on the map just fine.
>
> How can I set up something like this in Nashville?

APRSdos REPLY COMMENT: I have a program running on a DOS machine that
listens to a TNC, and ships 4 files over to my WEB page server. These
files contain: APRS ALL (all stations heard)
                     APRS live (Last 2 hours worth)
                     HF   (all HF packets)
                     BOATS   (all Naval Academy boats)

These files are updated every 10 minutes (could be every few seconds, tho
I dont see the neeed)

When you access my APRS WEB page, then you dont have to wait for 10
minutes to see what is happening, you get a full map of everything all
the way up to the current minute (or so)..

This uses Steve Dimse's java application to display...

It has been working locally for 2 days and yet, we still are having problems with remote WWW access. That should be solved in a few hours more... I will post the web site then...

de wb4apr@amsat.org

---

10. javAPRS Update

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 2 Aug 96 15:52:42 -0400
To: <aprssig@tapr.org>
Message-ID: <199608021949.PAA00499@bridge.net>
Rendered body type: text/plain

Thanks to all for all the kind words about javAPRS. The development is continuing, although I am spending much of my time working an an internet server. There is a new update available on the tapr ftp server, as well as on WA4DSY's http server.

The biggest new feature in the ability to use control-click to center a map, and alt (option on the mac)-click to center and zoom.

Also, you can now click on a station and see data displayed. Lat/lon is now in degrees, minutes.hundreths, instead of decimal degrees.

For those of you who haven't looked, here are the urls:

Live Atlanta data-
http://www.wa4dsy.radio.org/aprs

Canned demos-
http://www.bridge.net/~sdimse/javAPRS.html

tapr file-
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/javaprs.zip

(Using this requires the Java Development kit from Sun, or some other Java environment, be installed on the host computer.

Steve KO4HD

---

11. New PIC BASIC Compiler

From: "Richard L. Holbert" <holbert@arinc.com>
Date: Fri, 2 Aug 1996 17:07:12 -0400
To: aprssig@tapr.org
Message-ID: <96Aug2.160645edt.6233-2@interlock.arinc.com>
Rendered body type: text/plain

>
> Date: Thu, 01 Aug 1996 16:30:45 -0400
> From: Bernard Seront <seront@seism1.ess.sunysb.edu>
> To: aprssig@tapr.org
> Subject: NMEA=>LCD display with stamp BS2
> Message-ID: <2.2.32.19960801203045.0067cfd8@seism1.ess.sunysb.edu>
>
> A few people asked for the code, so here it is (at the end of this
> message).
>
> It's very basic, and can certainly be improved. One think to do is
> to add a switch to scroll between two or more displays (lat/long
> then speed/direction then time ....).
>
> Major problem with the stamps is the RAM limited to 28 bytes: you
> just cannot read more than (for example) lat, long and time in one
> operation. That makes for a quite slow refreshing rate if you want
> to display 5 or 6 parameters
>
> A better way to do the job would be to use directly the PIC
> microcontroller (16C57, cost <10$) found in the stamp, programmed in
> assembly language.
>
> Bernard, KB2TGH.

Or you can use the PBASIC Compiler to port your large BASIC Stamp programs over to PIC machine language.

```
Introducing the PBASIC Compiler.

A Product by MicroEngineering Labs. of Colorado Springs CO US.

The PBASIC Compiler takes programs written for the BASIC Stamp 1 and
converts them into PIC compatible hex or binary files. These files can
be programmed directly into a PIC microcontroller eliminating the need
for a BASIC Stamp module. The easy-to-use BASIC language makes the PIC
programming available to everyone with its English-like instruction
set.

In addition to the hex or binary file output, the PBASIC Compiler also
generates an intermediate assembler file. This source code file may be
edited and re-assembled using the included PIC Macro Assembler (below)
to allow additional operations or access to other PIC registers.

While primarily intended for use with the electrically erasable
PIC16C84, other PICs with more memory or larger pin counts may be
substituted. The use of PICs other than the 16C84 allows for lower
cost, longer programs, and access to more I/O or RAM through the use
of assembler programming

     Easy to use English-like BASIC language.
     BASIC Stamp 1 compatible instruction set.
     Faster program execution than BASIC interpreters.
     Longer programs possible.
     Substantial cost savings over BASIC Stamp.
     Works with most PIC programmers.

Their web page is at http://www.labyrinth.net.au/~donmck/more.html
```

---

12. APRS USERS PACIFIC NORTHWEST

From: DDOBBINS@aol.com
Date: Fri, 2 Aug 1996 16:16:00 -0400
To: aprssig@tapr.org
Message-ID: <960802161559_448079080@emout07.mail.aol.com>
Rendered body type: text/plain

```
I'd like to develop a list of APRS users in OR, WA, ID, & MT, so we may work
together more closely in developing an active APRS effort in the Pacific
Northwest (PNW). I've been working on the USAnwest.map, and other maps of WA,
ID, & MT. In process of developing a Seattle map now. Please send me your
name, address, phone number, and e-mail address. I'll compile list and
forward copies to all. If you know of others who are into APRS, but not
members of the SIG, or do not have e-mail, please send their info to me.
Appreciate the help. Dave/WH6YC, qth Seattle.
```

---

13. Re: [APRSSIG:3492] Re: APRS data over internet

From: Joseph Agrelo <jagrelo@cris.com>
Date: Fri, 02 Aug 1996 16:59:15 -0700
To: aprssig@tapr.org
Message-ID: <32029653.64BE@concentric.net>
Rendered body type: text/plain

```
*Bob Bruninga wrote:

> When you access my APRS WEB page, then you dont have to wait for 10
> minutes to see what is happening, you get a full map of everything all
> the way up to the current minute (or so)..

Bob,

What is the URL for your APRS WEB site?

73 De Joe N2OOC
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
  1145 Catalyn St. Schenectady, NY 12303 USA
               (518)381-1057
               (518)381-1058
        E-Mail: Jagrelo@concentric.net
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

14. PIC BASIC 3rd option.

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Fri, 02 Aug 1996 17:20:47 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960802212047.00898720@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
>
>Or you can use the PBASIC Compiler to port your large BASIC Stamp
>programs over to PIC machine language.
>
>Introducing the PBASIC Compiler.
>
>A Product by MicroEngineering Labs. of Colorado Springs CO US.
>...

Yes, looks like a very nice product to fill the gap between the stamp and
the PIC microcontrollers. It costs 99.95$. You need a programmer for the PIC
thought  (<50$ in kit), but if you plan to build more than one circuit
that's cost effective.

Beware that it only supports stamp1 code, and there is (as far as I know) no
planned move towards stamp2 code support. That means  that you have to trick
with the frequency (speed of the controller) to get 4800 bauds serial
communication.

Still another option is to use the parallax (company that makes the stamps)
PIC programmer (100$). With this one (and only this one) you can program a
16C58 with your basic code! What the programmer does is to program the chip
with the basic interpreter core at the same time. Supports only stamp1 code,
and is still interpreted at the execution, i.e. slower than the compiler.

FYI: in CQ DL, June 96 (German ham magazine) DF9IC presents a packet modem
based on a PIC microcontroller. Don't ask me for details, I got the
information second hand.

Anyone knows which microcontroller is used in the MIM?

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

---

15. WB0WNX-7 Airmobile to St.Joe, MO

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 2 Aug 1996 17:03:06 -0500
To: aprssig@tapr.org
Message-ID: <9608022203.AA19205@ELWOOD.pionet.net>
Rendered body type: text/plain

```
The good news--my xenor diode protected all my equipment from my over voltage.
The bad news-- the aircraft is down for maint until ???

Provided the aircraft comes back on line I will be operating (attempting
anyway) from Sioux City, IA to St. Joe, MO on 8/8 departing Sioux City about
0915L and returning 8/11 sometime in the PM.  I will be running
WIDE,GATE,GATE,WIDE as an experiment.

Bob B, you had suggested changing an option to that the tracker would
transmit every 1:00 regardless if the channel was busy.  Could you send that
command to me via private E-Mail so I can make the change.

Dave
dkaplan@pionet.net
```

---

16. info map request

From: gerardo arias <hk3gal@ibm.net>
Date: Thu, 01 Aug 1996 17:02:07 -0500
To: aprssig@tapr.org
Message-ID: <199608022203.WAA210552@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
Hi to all . i am new on this off aprs, but is very interesant for me..

sorry my english is not very good, but hope you can understand.

i would like know where can i find a software that can read my gps (nmea) and
plot a travel on a map.
```

```
i work on windows 95.

regards to all on the net.

73 hk3gal Bogota Colombia

hk3gal@ibm.net
```

---

17. Re: Strange Results!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Aug 1996 18:19:55 -0400 (EDT)
To: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960802181435.29801C-100000@arctic>
Rendered body type: text/plain

```
On Fri, 2 Aug 1996, J. Scott Ratchford, KC5JGV wrote:

> When I press the . or , or / key while the map is up, strange things
> happen! Bob, is this the wierd science part? Or the "Other Space" mode?

APRSdos REPLY COMMENT:  That is the "NEXT STATION" and PREVIOUS STATION
commands.  Notice that the upper case version of those keys are the
Keys < and > which cycle through the next or previous station on the "current"
map scale.  This is in contrast to the + and - keys which cycle throught
the NEXT and PREVIOUS station in the "system".  These < and > keys are
very handy for zooming into an area, and then rapidly cycling through
everyone in that area.

NOTE:  Since APRSdos avoids two-handed operation where possible, then the
lower case version of the same key will do the same thing.  Therefore
, means PREVIOIUS and . means NEXT.  Hope this helps... hi hi

de wb4apr@amsat.org
```

---

18. Re: [APRSSIG:3496] Re: APRS data over internet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 2 Aug 1996 18:26:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960802182438.29801F-100000@arctic>
Rendered body type: text/plain

```
On Fri, 2 Aug 1996, Joseph Agrelo wrote:

> *Bob Bruninga wrote:
> > When you access my APRS WEB page, then you dont have to wait for 10
> > minutes to see what is happening, you get a full map of everything all
> > the way up to the current minute (or so)..
>
> What is the URL for your APRS WEB site?
> 73 De Joe N2OOC

APRSdos REPLY COMMENT: As I mentioned, it works locally, but not under
remote access yet for some reason...  When we get it working, everyone
will be the first to know, hi hi...

de wb4apr@amsat.org
```

---

19. Davis Weather Wizard

From: George Skoubis <gaskoub@wctc.net>
Date: Fri, 02 Aug 1996 23:38:32 -0700
To: aprssig@tapr.org
Message-ID: <3202F3E8.1637@wctc.net>
Rendered body type: text/plain

```
Hi everyone, I am new to this group, just subscribed today.
  My name is George Skoubis / KF9YR.
I was wondering how you interface the Davis Weather Wizard III with
WINAPRS.  I see the menu item, but want to know if I need to buy the
software +interface from Davis, or can you make your own for less than
the $140 they tag you?
  Thanks in advance and sorry for the waste of bandwidth if this has been
gone over before.
George Skoubis / KF9YR / EN54be / Lake Petenwell / Central WI
```

---

20. [APRSSIG:3425] Info on Crystals

From: George.Henry@115-668.usbbs.com (George Henry)
Date: 01 Aug 96 14:37:19 -0500
To: aprssig@tapr.org
Message-ID: <968_9608030420@usbbs.com>
Rendered body type: text/plain

-=> Quoting Jay Millard to All <=-

JM> A well-sited amateur radio station operator has agreed to set up a
JM> RELAY-WIDE digi in our area, if I re-crystal his radio for him. Since
JM> I've been having trouble getting out of my not-so-well-sited QTH, I've
JM> agreed.
JM> His radio is a Motorola MOXY (he says). Does anyone know of:

JM> 1. A source for transmit and receive crystals for this type of radio.

Radio Shack scanner xtals work fine for RX, and are cheaper than most other sources. TX xtals are available from Marden, 1-800-222-6093, or JAN, 1-800-JAN-XTAL. Expect to pay $13-$15 each. Add $5-15 each for faster service.

JM> 2. Any special tech requirements for these crystals.

The xtal mfrs. have all the specs.

I am running a 25-watt Maxar, which is basically the same radio, on TCP/IP, and have a 60-watt Moxy in the car on the local repeater. Very decent rockbound radios.......

73 de KA3HSW

... Energize. Hey! Where'd that bunny come from?
--
|Fidonet: George Henry 1:115/668
|Internet: George.Henry@115-668.usbbs.com
|
| Standard disclaimer: The views of this user are strictly their own.

21. meteor scatter test coming soon

From: stanzepa@usa.nai.net (stan horzepa)
Date: Sat, 3 Aug 1996 09:27:38 -0400
To: aprssig@tapr.org
Message-ID: <v01540b02ae2903429479@[206.98.48.242]>
Rendered body type: text/plain

Just a reminder... next weekend is our second annual APRS meteor scatter test and barbecue.

If you missed the original announcement, email me and I will email you back with the details.

Stan "warming up the grill" Horzepa, WA1LOU

22. APRS in Richmond VA... NOT!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 3 Aug 1996 10:47:13 -0400 (EDT)
To: aprssig@tapr.org
Cc: wb3v@erols.com
Message-ID: <Pine.GSO.3.94.960803103638.10456F-100000@arctic>
Rendered body type: text/plain

With the new 4400 foot digi over in western VA, the black hole for APRS throughout Southeast VA along the I-95 corridor near Richmond can no longer be ignored.

I will prepare a letter and pay the postage if someone will get a list of Amateur Radio clubs within 50 miles of RIchmond (3750N 07728W).

23. Re: [APRSSIG:3502] Davis Weather Wizard

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 3 Aug 96 10:42:47 EDT
To: aprssig@tapr.org
Cc: <gaskoub@wctc.net>
Message-ID: <CMM-RU.1.4.839083367.ksproul@hardees.rutgers.edu>

Rendered body type: text/plain

> I see the menu item, but want to know if I need to buy the
> software +interface from Davis, or can you make your own for less than
> the $140 they tag you?

Yes, you have to buy Davis's Weather Interface unit... Then WinAPRS will
work with the Davis Weather Unit..

Keith

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

---

24. AMSAT UK (APRS) News

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 3 Aug 1996 11:05:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960803104855.10456H-100000@arctic>
Rendered body type: text/plain

> This years Amsat-UK Colloquium at the University of Surrey was attended
> by 92 people;... Probably representing 17 countries..
>
> Recommended frequencies for future Mir and ISS operations are: voice -
> 144.45/47 MHz uplink, 145.81 MHz downlink; packet - 144.49 MHz uplink,
> 145.81 MHz downlink. A secondary downlink of 145.84 MHz will be used to
> avoid qrm when space platforms are in close proximity.
>
> W2RS assembled statistics about amateur satellite operators. There seem to
> be about 18000 satellite operators world-wide; 25% of these have some sort
> of digital capability...

APRSdos REPLY COMMENT: 1) Looks like there is some movement away from the
145.800 which if you remember was causing concern for its proximity to
APRS operations. 2) Lets see, that means there are 4000 digital capable
amsat operators... I just went back and looked at my APRS SAREX report
for STS78 and noticed that I estimated between 2200 and 4400. (Only 37
of these were APRS stations...)

I still think there is a great application for APRS in the amateur space
program. But I dont feel comfortable about being the primary "PUSHER"...
So when,where you see opportunities, put in a word for APRS...

de wb4apr@amsat.org

---

25. Re: [APRSSIG:3505] APRS in Richmond VA... NOT!

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 3 Aug 1996 14:21:08 -0400
To: aprssig@tapr.org
Message-ID: <199608031821.OAA20576@grumpy.magg.net>
Rendered body type: text/plain

Heck last time I was up there the Washington/Woodbridge VA area along I-95
had very little coverage if at all, more like at noise level. With the
number of hams in that area you would think they can talk HRO in Woodbridge
to sponsor a digi or at least help. Any plans to expand in that area and
make it solid into Baltimore along 95 ?

>With the new 4400 foot digi over in western VA, the black hole for APRS
>throughout Southeast VA along the I-95 corridor near Richmond can no
>longer be ignored.
>
>I will prepare a letter and pay the postage if someone will get a list of
>Amateur Radio clubs within 50 miles of RIchmond (3750N 07728W).
>
>

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

26. Wharton TX balloon launch maps

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sat, 3 Aug 1996 15:11:02 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae2960c07474@[204.251.33.25]>
Rendered body type: text/plain

```
There will be a balloon launch on August 10 from the Wharton Airport (about
50 miles south-west of Houston). It will be carrying a transmitter sending
NEMA GPS data compatible with APRS.

The coordinates of Wharton are roughly 29 deg 16' N, 96 deg 6 min W.

Are there Mac/Win 100K maps available for that area? Depending on winds
(expected to be light) it would be best the have three quadrangles just
west, south-west and south of the Houston quadrangle.

Lacking the Mac/Win maps, is there a detailed DOS APRS map of the area?
```

---

27. Re: [APRSSIG:3509] Wharton TX balloon launch maps

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 3 Aug 96 18:34:48 EDT
To: aprssig@tapr.org
Cc: w5rkn@amsat.org
Message-ID: <CMM-RU.1.4.839111688.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>Are there Mac/Win 100K maps available for that area? (Houston/Wharton) TX


If they are not on the CD, I will make the maps and put them up on TAPR..

Good luck with your balloon launch!!!

Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

28. Re: [APRSSIG:3509] Wharton TX balloon launch maps

From: William Nolle <wa8inz@cris.com>
Date: Sat, 03 Aug 1996 19:07:10 -0700
To: aprssig@tapr.org
Message-ID: <320405CE.EA4@concentric.net>
Rendered body type: text/plain

```
Ronald G. Parsons wrote:
>
> There will be a balloon launch on August 10 from the Wharton Airport (about
> 50 miles south-west of Houston). It will be carrying a transmitter sending
> NEMA GPS data compatible with APRS.
>
> The coordinates of Wharton are roughly 29 deg 16' N, 96 deg 6 min W.
>

Sorry Ron can't help you with the maps since i don't have the CD to cover that
area. What is the planned time of the launch, and also the alternate day if
any. Also the frequency if not 145.790. Thanks will be watching for it, and
will be pointing my stacket 13B2's that way.

--
          \////
          (o o)
    *--oOO-(_)-OOo--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

29. Wb0WNX-7

From: Dave Kaplan <dkaplan@pionet.net>
Date: Sat, 3 Aug 1996 19:46:29 -0500
To: aprssig@tapr.org
Message-ID: <9608040046.AA19351@ELWOOD.pionet.net>
Rendered body type: text/plain

```
WB0WNX-7 operated airmobile from Sioux City to Colombus, NE and back today.
Did anybody get any track on this?
```

Dave

---

30. Re: [APRSSIG:3509] Wharton TX balloon launch maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 4 Aug 1996 09:58:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960804095659.20067B-100000@arctic>
Rendered body type: text/plain

On Sat, 3 Aug 1996, Ronald G. Parsons wrote:

> There will be a balloon launch on August 10 from the Wharton Airport (about
> 50 miles south-west of Houston). It will be carrying a transmitter sending
>
> Lacking the Mac/Win maps, is there a detailed DOS APRS map of the area?

APRSdos REPLY COMMENT: THe best I have done of that area are in
Cmapsxx.zip using the MAPLIST.CEN. But they will only contain the major
highways. THere maybe local texas maps, but no one has informed me of
it...

de wb4apr@amsat.org

---

31. Re: [APRSSIG:3510] Re: Wharton TX balloon launch maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 4 Aug 1996 10:02:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960804100056.20067D-100000@arctic>
Rendered body type: text/plain

I really do need the map data around 5139.5N 3911.5E in Russia.
THis guy is ready to buy, and I gotta give him some maps...
Please...

de wb4apr@amsat.org

---

32. Re: [APRSSIG:3512] Wb0WNX-7

From: ronalda@InterLink.NET (ronalda)
Date: Sun, 04 Aug 1996 10:04:06 -0400
To: aprssig@tapr.org
Message-ID: <9608041402.AA21326@InterLink.NET>
Rendered body type: text/plain

>WB0WNX-7 operated airmobile from Sioux City to Colombus, NE and back today.
>Did anybody get any track on this?
>
>Dave
>
>
>I from Montreal saw you on my screen about six times.

de VE2JOR Ron

---

33. route-stations heard

From: ko6xs@ko6xs.ampr.org
Date: Sun, 04 Aug 96 07:48:26 PDT
To: aprssig@tapr.org
Message-ID: <4185@ko6xs.ampr.org>
Rendered body type: text/plain

I would like to know how I find out in APRS (either DOS or WIN) what path a
distant station's beacon took in reaching me. More specifically, I would
like to find which local gate is relaying HF signals on the local 2m freq,,
so I can set up my unproto correctly. Thanks in advance for any help.
73 de Jon Kaplan ko6xs

```
                               □□□
                              (□ □)
□□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
□ □□□  TNX     73...de...ko6xs, John       □□□ □
□ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
□ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
□ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

34. APRS Server moved

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sun, 04 Aug 96 09:49:37 EDT
To: aprssig@tapr.org
Message-ID: <m0un4yQ-0001PlC@wa4mei.radio.org>
Rendered body type: text/plain

```
To better facilitate debuging I've moved the APRS server
from  www.wa4dsy.radio.org to wa4dsy-3.wa4dsy.radio.org.
It's still on port 14579.   This was done Friday night.

Those who have been accessing it via the web page
at  http://www.wa4dsy.radio.org/aprs/  are not affected
by the change.  Only those who are using standalone
JavAPRS or telnet directly need to change their pointers.




Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.
```

---

35. RE: [APRSSIG:3514] Re: Wharton TX balloon launch maps

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Sun, 4 Aug 96 16:26:39 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608041625020302@msn.com>
Rendered body type: text/plain

```
Hi Bob
Don't have any CD for Europe, but now you may regret using positive
values for western hemisphere longitudes!  you got to think ahead
jack, KB4XF
```

---

36. Re: Making Maps

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 04 Aug 96 12:48:11 EDT
To: <aprssig@tapr.org>
Message-ID: <960804164811_71301.3106_FHJ30-1@CompuServe.COM>
Rendered body type: text/plain

```
Last Wednesday, Roy wrote:

>can anyone tell me how to make a map for WinAPRS without using a Mac??

No way that I know of, other than making DOS maps and translating them.
Something that could be useful to know is that MacAPRS has the ability to
combine maps. That way, you could possibly create multiple DOS maps and then
glue them together. But I don't know if that feature was ported to WinAPRS,
and, if it was, whether there is the ability to merge translated DOS maps as
opposed to original Mac/Win maps from DCW (Digital Chart of the World) or 100K
(USGS Digital Line Graphs) sources.

Also - and this is not really an announcement; more like a strong hint - I'm
about to add insult to your injury with "MacDLG", a new map generation program.
The first version is in final configuration and testing, and I expect to
release it within the next two or three weeks. It generates both Mac/Win and
DOS APRS maps from 100K DLG and Census Bureau TIGER data. A neat feature is
that it optimizes the line data, resulting in maps with file sizes 35%-40%
smaller than the current crop of 100K maps. I'll be uploading a couple of maps
to the FTP server in a day or two.

I have no plans to produce a Windows version of MacDLG - unless somebody wants
to make me comfortably wealthy to do so. ;-)


And then on Friday, Mel said:

>I too am interested in mapping sources.  Does anyone know the differences
>between Street Atlas USa (Delorme?) and Precision Mapping 2.0?
>
>I have noticed that Street Atlas has lots of little errors at the street
>level.
>
>Which one would be better for use in generating maps for APRS?

Neither. The file formats are proprietary and can't be translated, and if
```

somebody did, there'd be Hell to pay in the form of lawsuits. Commercial mapping companies are intensely protective of their data. Map companies are notorious for "spiking" map data - deliberate misspellings, added nonexistant items like the minor residential street that really isn't there - that are used to prove that somebody copied their map.

Practically speaking, there's been some discussion about the eventual ability to use bitmapped screen snapshots in Win/MacAPRS, but this is still on the "to do" list. Then there's the limitations of bitmaps to consider, such as scalability, and information content vs. storage size vs. program overhead in image handling.

Street Atlas USA is based on the Census Bureau's TIGER mapping database, and the errors you note originate from that. I've been finding things wrong in TIGER that were just fine in the USGS 100K database, which was where most of the TIGER cartography was supposed to have come from, while TIGER has important things updated that aren't in the 100K files. Go figure!

Anyway, this is why there is so much discussion around here about converting USGS 1:100,000 DLG data, Digital Chart of the World, and, with MacDLG, the TIGER database. These are public-domain databases published by the US government (DCW is from the Defense Department). While the data is usually not free in the acquisition due to media and processing costs (though some is available through anonymous FTP), it doesn't have the severe usage restrictions the commercial stuff has.

...mike musick, N0QBF
71301.3106@compuserve.com

37. RE: Wharton Tx Balloon Launch Maps

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 4 Aug 96 13:06:19 EDT
To: w5rkn@amsat.org (Ronald G. Parsons)
Cc: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.839178379.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

TThe hi-res map files for the area south and west of Houston are up on the TAPR server...

/tapr/SIG/aprssig/files/maps/100K_Not_on_CD/Texas/

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

38. DOS ERROR: 21

From: n3mps@juno.com (Jack Van Gilder)
Date: Sun, 4 Aug 1996 13:14:07 EST
To: aprssig@tapr.org
Message-ID: <19960804.131732.2111.0.N3MPS@juno.com>
Rendered body type: text/plain

While trying to load WAPRS112 from Windows 3.1 I get an
" Unexpected Dos Error: 21"   message. I have searched
my books and online help for the decode of DOS ERR 21
and can find nothing about it. Can someone advise what
is happening □   Thanks, Jack

n3mps@juno.com

39. unsubsribe

From: jgooldy@ix.netcom.com (John D Gooldy)
Date: Sun, 4 Aug 1996 10:38:17 -0700
To: aprssig@tapr.org
Message-ID: <199608041738.KAA28881@dfw-ix1.ix.netcom.com>
Rendered body type: text/plain

[Empty message body]

40. Re: [APRSSIG:3521] DOS ERROR: 21

From: Roger Breckon - n8chb <n8chb@tir.com>
Date: Sun, 04 Aug 1996 19:57:19 -0700
To: aprssig@tapr.org

Message-ID: <3205630F.7E6@tir.com>
Rendered body type: text/plain

```
Jack Van Gilder wrote:
>
> While trying to load  WAPRS112 from Windows 3.1 I get an
> " Unexpected Dos Error: 21"    message.  I have searched
> my books and online help for the decode of DOS ERR 21
> and can find nothing about it.  Can someone advise what
> is happening ¿          Thanks, Jack
>
> n3mps@juno.com
////////////////////////////

hi-Jack,

Depends on ur ver. and type of dos system.

MS-DOS or PC-DOS etc.

try looking at www.ibm.com fer messages and codes manuals
Mr. Gate's can be found at www.microsoft.com

cul and gud luck

de Roger n8chb@tir.com
```

---

41. Re: [APRSSIG:3382] AutoWx Update

From: etjm@ECUA.NET.ec (Ing Teodoro Jaramillo M.)
Date: Sun, 04 Aug 1996 16:19:49 -0500
To: aprssig@tapr.org
Message-ID: <9608042013.AA38054@ecua.net.ec>
Rendered body type: text/plain

```
>AutoWeather version 2K2.7L is now in the tapr ftp library (/WEATHER
>directory)
>This version has the wx beacons in the correct APRS format, showing /P
>and /R in 100ths.  This version is for the U-2000 and U-500 only.
>(The corrected version for the U-II is AutoWx 6.5)
>
>
>--
>Les/N5KOA
>lcb911@apex2000.net
hello this is  TED  HC5K A NEW COMER TO THE ARTS OF  APRS-GPS-AND MUCH TO
LEARN AND KEEPING UP WITH THE  TRENDS AND INFORAMTION....
I HAVE BEEN ON THE AIR  10.151.0 BECONNING AND HOPE I AM BEING RELAYED
ALSO...NOT SURE.. THRU   W7LUS...? ANY REPORTS... WILL BE WELCOME.

ALSO NEED SOME INFO ON EXACTLY HOW TO SSET UP A   2 METER TO  30 METERS
GATE   THRU A  KAM PLUS AND VEHICLE AND  BASE STATION... PROPERLY... I AM
THE ONLY
ONE IN ECUADOR SO NO WORRY ABOUT TOO MUCH BEACOING FROM VHF TO HF... BESIDES
THE  PROPGATION ETC.. ANY HEL ON THE ACTUAL  WORDING TO SET UP THINGS
PROPERLY..???

NEXT QUESTION IS THE  LOCAL  CIVIL DEFENSE AND AMATEURS  ARE TALKING ABOUT A
WEATHER SYSTEM THRU  PACKET  APRS AND AS FAR AS I HAVE BEENABLE TO LEARN SO
FAR  THERE IS TWO  SOURCES...   "ULTIMETER" AND  dAVIS".. THE QUSTIONSS  ARE
WHO IS BEST AND MOST ACCURATE AND ALSO  WHO DOES THE BEST  PACKET  FLOW THRU
APRS AND  THE DATA HAS TO BE COLLECTED IN A CENTRAL POINT FOR  SHORT FUTURE
EVALUATION AND ANALAISIS.. SO  HERE IS THE  HELP REQUIRED... WHO DOES BETTER
AND COMPLETE AND AUTOMATIC AND HOW EXTENSIE AND OPOTIONS ARE AVAILABLE FORM
BOTH TO SENSE, RECOLLECT AND TRANSMIT  WX  INFORMATION... THRU   APRS IF POSSI
BLE....??/ ANY HELP  AND  APPRECIATED... INDEED.

ALSO IF THE SYSTEM TAKES OFF PROPERLY THE AMATEURS LOCALLY ARE WILLING
EVENTUALLY TO INVEST AND INSTALL   APRS-GPS SYSTEMS IN SOME VEHICLES AND
SITES AND PLACE THEM  INTO  DIGITAL  MAPS  WHCIH I AM INPROCESS TO ACQUIRE
SOME THEL HAS BEEN OFFERED ON THAT ALREADY... PERHAPS WILL NEED SOME MORE....

I GUESS LAST QUESTIONS WIL EB REGRDING  ACTUAL  HARDWARE  FOR THE  WEATHER

WIL IT BE  KANTRONCIS  KPC-3'S AND OR MFJ AND OR  A.E.A. 'S AND  ANY OTHER
AT THE WX SITES  AND  WITH PERHAPS....  TEKK  2-5- WATT UNITS...AND  PROPER
ANTENNAS.. ETC...TO FORM A  NETWORK  FOR  WEATHER.....
 THANKS TO ALL
 AND CONGRTULATIONS TO  BOB BRUNINGA  FOR  HIS TREMENDOUS  EFFORTS... INDEED
AND ALSO   WINAPRS WHICIH I CALLED SEVERAL TIMES  BUT NO REPLY  YET AND MET
ALLOF THE TWO GENTLEMEN AT DAYTON... THIS YER.
```

ADIOS AMD WILL BE WATCHING 10.151 AND USUALLY RECORD ABOAUT AN EVERAGE OF
  10- 30 SITES PER NIGHT AT TIMES OTHER VERY FEW....
  WATCH FOR HC5K APRS   GPS TINY 2 MK2 FROM CUENCA ECUADOR
 0255.15S   0790056.W   2850 METERS ABSAL.

73'S
 TED HC5K >
>
>

42. Wharton TX Balloon Launch Details

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sun, 4 Aug 1996 16:39:21 -0500
To: aprssig@tapr.org
Cc: wa5zib@amsat.org
Message-ID: <v02140b00ae2aa7dc440f@[204.251.33.69]>
Rendered body type: text/plain

At 100,000 feet, the APRS signal on 144.290 should have a wide range.

Mac/Win APRS maps of the launch area were created by Keith Sproul (Thanks, Keith) and may be found at:

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/maps/100K_Not_On_CD/Texas/angleton.zip
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/maps/100K_Not_On_CD/Texas/eagle_la.zip
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/maps/100K_Not_On_CD/Texas/el_campo.zip
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/maps/100K_Not_On_CD/Texas/freeport.zip

The HOUSTON map is on the CD-ROM.

```
_________________________________________
|  EAGLE_LA         |  HOUSTON          |
|                   |                   |
|                   |                   |
|___________________|___________________|
|  EL_CAMPO         |  ANGLETON         |
|      Wharton  *   |                   |
|                   |                   |
|___________________|___________________|
                    |  FREEPORT         |
                    |                   |
                    |                   |
                    |___________________|
```

The following info is from Austin SummerFest '96 at the AMSAT presentation by WA5ZIB.

Launch: August 10, 1996 at 9 AM (CDT)
         Wharton County Municipal Airport

Payload: Lifting Body and one sub-package

NET: 7155 kHz before and during the flight (WB5UUK)

The lifting body contains most of the electronics. The vehicle will not be released for free flight, but will parachute back to earth after balloon burst near 100,000 feet. Package attitude and some flight control will be commanded from the ground.

* Color ATV camera with 2 watts output on 1255 MHz FM to a vertically-polarized ground-plane antenna. On-screen GPS and directional data included. Signal may be sufficient to be repeated through the HATS ATV repeater (421.290 MHz AM).
* GPS data (NMEA format) via AX.25 on 144.290 MHz FM. Other data from ground-control stations will be digi-peated through the system. The data should be APRS compatible, but the digi-peat function will NOT be open.
* Direction-finding beacon (carrier) on 433.915 MHz.

The sub-package contains a Basic-stamp computer with ten-meter transmitter (28.322 CW), a 35-mm camera set to take color photos every three minutes, a light strobe and a set of lithium batteries.

A CW beacon on 28.322 MHz sends three-digit HEX numbers representing the
on-board pressure transducer measurements. ...

---

43. Re: [APRSSIG:3490] Maps for APRS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 4 Aug 1996 17:23:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608042223.RAA07927@solar.cs.tamu.edu>
Rendered body type: text/plain

> I too am interested in mapping sources. Does anyone know the differences
> between Street Atlas USa (Delorme?) and Precision Mapping 2.0?

Both derive from Tiger/1992 data from the US Census bureau. Both are thus
based on geocoded DLG from USGS data. And, unfortunately, both suffer from
the same nagging errors.

I really like the DLGs, but the Tiger files with geocoding are attractive
simply for the index to street-level addressing.

73, gerry

---

44. Garmin 45

From: UXZX97A@prodigy.com (ALFRED B CHAN)
Date: Sun, 4 Aug 1996 18:23:13, -0500
To: aprssig@tapr.org
Message-ID: <199608042223.SAA21254@mime2.prodigy.com>
Rendered body type: text/plain

What is the price of Garmin 45? I have a laptop. What else do I need
to make it run?

-al.

---

45. Re: [APRSSIG:3513] Re: Wharton TX balloon launch maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 4 Aug 1996 18:17:23 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608042317.SAA08703@solar.cs.tamu.edu>
Rendered body type: text/plain

Indeed there are more Texas maps, but I just discovered that dillo.tamu.edu is
BEHIND the firewall, instead of outside it!

Further, I do not have anything of the Wharton area yet.

Sorry. Working on the problems between working fer real!

73, gerry

---

46. Re: [APRSSIG:3527] Garmin 45

From: ko6xs@ko6xs.ampr.org
Date: Sun, 04 Aug 96 16:09:51 PDT
To: aprssig@tapr.org
Message-ID: <4240@ko6xs.ampr.org>
Rendered body type: text/plain

I've seen Garmin 45's for as low as $260 recently.(I think because they were
trying to unload an earlier version before coming out with an upgraded version.
As long as you have the data cord your Garmin45 will be complete. If you have
two ports on your laptop, you'll be set. Otherwise, with only one port, you'll
a hardware piece that switches between tnc and GPS. In WinAPRS, that hasn't
been fully implemented yet. In DosAPRS, I believe it is fully implemented.
I hope this gets you started.
73s de Jon Kaplan

```
                                   □□□
                                  (□ □)
□□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
□ □□□  TNX     73...de...ko6xs, John       □□□ □
□ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
□ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
□ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

47. Re: [APRSSIG:3514] Re: Wharton TX balloon launch maps

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 4 Aug 1996 18:18:56 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608042318.SAA08740@solar.cs.tamu.edu>
Rendered body type: text/plain

Bob Bruninga sez:
>
> I really do need the map data around 5139.5N 3911.5E in Russia.

I'll try to make some calls tomorrow, but I suspect there is little AVAILABLE
digital line graphic mapping data. Note the key word. DMA's not real
forthcoming yet about these data.

gerry

48. Re: [APRSSIG:3502] Davis Weather Wizard

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Mon, 05 Aug 1996 07:07:18 -0400
To: aprssig@tapr.org
Message-ID: <3205D5E6.6C1E@co.pinellas.fl.us>
Rendered body type: text/plain

George Skoubis wrote:
>
> Hi everyone, I am new to this group, just subscribed today.
>   My name is George Skoubis / KF9YR.
> I was wondering how you interface the Davis Weather Wizard III with
> WINAPRS. I see the menu item, but want to know if I need to buy the
> software +interface from Davis, or can you make your own for less than
> the $140 they tag you?
>   Thanks in advance and sorry for the waste of bandwidth if this has been
> gone over before.
> George Skoubis / KF9YR / EN54be / Lake Petenwell / Central WI

Regrettably George, the Davis Instruments computer interface is more
than just a D/A converter...it contains the proprietary chip that
actually decodes the data and puts into useable format....so, yes, you
must purchase the unit, I don't know of anyone who has tried to do
otherwise.
--
****
From: Kevin Heyboer   E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR   Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
****

49. Re: [APRSSIG:3518] Re: Wharton TX balloon launch maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Aug 1996 08:52:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960805085130.7352B-100000@arctic>
Rendered body type: text/plain

My message was supposed to be to Keith, instead of the SIG. hi hi
Maybe I outta go buy one of those CD's...

de wb4apr@amsat.org

50. Re: [APRSSIG:3519] Re: Making Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Aug 1996 08:57:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960805085339.7352C-100000@arctic>
Rendered body type: text/plain

On Sun, 4 Aug 1996, Mike Musick wrote:

> Something that could be useful to know is that MacAPRS has the ability to
> combine maps. That way, you could possibly create multiple DOS maps and then
> glue them together.

APRSdos REPLY COMMENT: MAPFIX can also combine maps up to about 12,000
points or about four 3000 point maps.

de wb4apr@amsat.org

51. Re: [APRSSIG:3515] Re: Wb0WNX-7

From: schiers@ames.net
Date: Mon, 05 Aug 96 08:37:13 -0500
To: aprssig@tapr.org
Message-ID: <199608051337.IAA13711@tapr.org>
Rendered body type: text/plain

```
In <758075@bbs.ames.net>, on 08/04/96 at 09:25 AM,
   aprssig@tapr.org said:

>>WB0WNX-7 operated airmobile from Sioux City to Colombus, NE and back toda
>>Did anybody get any track on this?
>>
>>Dave
>>
>>
>>I from Montreal saw you on my screen about six times.

>de VE2JOR Ron

I tracked it in a big circle, but am not sure if I saved the track. 73,
(WinAPRS 1.1.2)

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

52. Re: [APRSSIG:3519] Re: Making Maps

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 5 Aug 96 10:17:14 EDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.839254634.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
See http://www.cloud9.net/~alan/ham/aprs.  I've made a few large DOS-format
maps which work just fine with winaprs.  Not as pretty, but hey, the winaprs
map format is still proprietary.
/a
```

---

53. Re: [APRSSIG:3519] Re: Making Maps

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 5 Aug 96 10:41:43 EDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <CMM.0.90.4.839256103.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
>...
>TIGER that were just fine in the USGS 100K database, which was where most of
>the TIGER cartography was supposed to have come from, while TIGER has important
>things updated that aren't in the 100K files. Go figure!

If you've got the time and patience, the TIGER data has a source code
in record type 1 so you can track down the discrepancies:

" "        Not Documented Elsewhere
"A"      Updated 1980 GBF/DIME-File
"B"      USGS 1:100,000-Scale DLG-3 File
"C"      Other USGS Map
"D"      Census Bureau Update Prior to Enumeration Operations
"E"      Census Bureau Enumerator Update
"F"      Census Bureau Update from Other Operations
"G"      Unconfirmed Local Official Updates
"H"      Census Bureau Update Post-1990 Operations
"I"       TIGER--Master Address File Building Operations

Above from Appendix H of the TIGER/Line documentation.

Also, you need to know which year of TIGER/Line you are using.  A lot
of stuff out there appears to be based on TIGER/Line 1992.  The
current TIGER/Line is 1994 and 1996 is due to start coming out this
month.

Oh yeah, TIGER/Line 1994 uses NAD27 datum and TIGER/Line 1996 will use
NAD83 (same as WGS84).  See the archives for discussion of the need to
correct detailed (1 mile) maps since the GPS reference datum is WGS84.

See http://www.cloud9.net/~alan/ham/aprs.
```

```
/a
```

---

54. APRS in Newport R.I.

```
From: Bill Northup <northup@sw.stratus.com>
Date: Mon, 5 Aug 1996 11:05:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608051505.LAA24994@blackdog.sw.stratus.com>
Rendered body type: text/plain
```

```
I see that there is finally an APRS station in Newport R.I. -- I will bring
my tracker station back to the boat next weekend and see if it will work better
now.

Also did anyone see my boat traveling around Long Island/Block Island/Newport
area a few weeks ago ? I know I was repeated a few times but not on a regular
basis.

        Bill

--

    Bill Northup, N1QPR         EMAIL n1qpr@amsat.org
                                QRP-NE #307
                                NorCal #1027
                                QRP-L  #356
```

---

55. Re: [APRSSIG:3522] unsubsribe

```
From: Carlos Peres da Costa <CPC@NPD.UFPE.BR>
Date: Mon, 05 Aug 1996 15:20:27 -0300
To: aprssig@tapr.org
Message-ID: <01I7X6GLLNF48WW65T@NPD.UFPE.BR>
Rendered body type: text/plain
```

```
Anastasios
    Please unsubscribe me from the TAPR list. I cant get to do it as
per instructions. thanks        73 PY7 CPC
```

---

56. Garmin 45

```
From: UXZX97A@prodigy.com ( ALFRED B CHAN)
Date: Mon,  5 Aug 1996 16:12:38, -0500
To: aprssig@tapr.org, Al@w6dnt.ampr.org, alchan49@cris.com,
        al.chan@toadhall.com, ko6xs@ko6xs.ampr.org
Message-ID: <199608052012.QAA15696@mime2.prodigy.com>
Rendered body type: text/plain
```

```
-- [ From: AL * EMC.Ver #2.10P ] --

Date: Monday, 05-Aug-96 10:05 AM

From: al chan                  \ PRODIGY:     (UXZX97A)
To:   GPS                      \ Internet:    (aprssig@tapr.org)
To:   me at 145.75             \ Internet:    (al@w6dnt.ampr.org)
To:   me at Concentric         \ Internet:    (alchan49@cris.com)
To:   me at toal hall          \ Internet:    (al.chan@toadhall.com)
cc:   Ko6xs@ko6xs.ampr.o       \ Internet:    (ko6xs@ko6xs.ampr.org)

Subject: Re: [APRSSIG:3529] Re: Garmin 45


Thanks for reply. Can I use all WINapp. I am using Windows 3.1. Do I
need a
DOS app too?

Where do I get the software?  What does APRS stand for?

-al.     al@w6dnt.ampr.org

I noticed you too are running a tcp/ip node. (ko6xs.ampr.org) What city
and
state are you running it. Mine is on 24 hours a day in Foster City,
California. The gateway is Stanford University in Palo Alto.

-------- REPLY, Original message follows --------

Date: Sunday, 04-Aug-96 08:46 PM

From: Ko6xs@ko6xs.ampr.o       \ Internet:    (ko6xs@ko6xs.ampr.org)
To:   al chan                  \ PRODIGY:     (UXZX97A)
```

Subject: [APRSSIG:3529] Re: Garmin 45

I've seen Garmin 45's for as low as $260 recently.(I think because
they
were
trying to unload an earlier version before coming out with an upgraded
version.
As long as you have the data cord your Garmin45 will be complete. If
you
have
two ports on your laptop, you'll be set. Otherwise, with only one port,
you'll
a hardware piece that switches between tnc and GPS. In WinAPRS, that
hasn't
been fully implemented yet. In DosAPRS, I believe it is fully
implemented.
I hope this gets you started.
73s de Jon Kaplan

```
                              ___
                             (□ □)
+--------------------------oOO-(_)-OOo---------+
□ ___  TNX     73...de...ko6xs, John       ___ □
□ ___  smtp  ko6xs.ampr.org. 44.16.1.241   ___ □
□ ___  ax25  ke6daq@wb6ymh.#soca.ca.usa    ___ □
□ ___  email ko6xs@wwcb.earthlink.net
```

-------- REPLY, End of original message --------

---

57. Re: Virginia Beach Hamfest

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Aug 1996 18:06:50 -0400 (EDT)
To: Daniel Velez <dvelez@infi.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960805180156.26999A-100000@arctic>
Rendered body type: text/plain

On Mon, 5 Aug 1996, Daniel Velez wrote:

> This week I _finally_ made an APRS presentation to the Virginia Beach
> Amateur Radio Club! Now, I've been called to give a presentation at
> the Virginia Beach Hamfest (weekend of 21 Sept)...BUT I'll be GONE!
>
> APRS in this NORFOLK area is nearly nil. Can anyone come give this
> talk? If anyone can make the trip, or might be swayed to head this way,
> please let me know in the next couple of days. I am headed to sea _soon_

APRSdos REPLY COMMENT: Anyone going? If so, let me know too
(wb4apr@amsat.org)

de wb4apr@amsat.org

---

58. Re: Making Maps

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 05 Aug 1996 18:34:39
To: APRSSIG@tapr.org
Message-ID: <199608052237.SAA14491@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

In addition to Mike Musick's program-in-the works, one
should also remember that WinAPRS & MacAPRS have the capability
of displaying DOS-style maps WITHOUT the 3000-point limitation
inherent in APRSDos. Alan Crosswell (N2YGK) made an excellent
street-level map of Westchester County using this method and
Tiger/Census data with a program of his own devision. To see
the results of this, go to the following url:

http://www.cloud9.net/~alan/ham/aprs/

and look for the "windows" map (I forget what he called it.)
Although it's technically a DOS map (open it up with a text
viewer,) it has over 212,000 points! DON'T try to use it with

```
APRSDos!  You'll scare the pojies out of it!  73


Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I can't lock onto those coordinates, Captain.
There's too much subspace interference."
```

59. Fwd: [APRSSIG:3538] Re: unsubsribe

From: CPC@npd.ufpe.br Mon Aug 05 19:55:13 1996
Date: Mon, 5 Aug 1996 20:54:32 -0400
To: aprssig@tapr.org
Message-ID: <960805205431_172496609@emout07.mail.aol.com>
Rendered body type: text/plain

```
ditto, please
---------------------
Forwarded message:
From:   CPC@npd.ufpe.br (Carlos Peres da Costa)
Sender: aprssig@tapr.org
Reply-to:       aprssig@tapr.org
To:     aprssig@tapr.org
Date: 96-08-05 15:27:13 EDT

Anastasios
    Please unsubscribe me from the TAPR list. I cant get to do it as
per instructions. thanks        73 PY7 CPC
```

60. PROBLEMS GETTING NEW USER RUNNING / QEM / COM PORT / IRQ / BAUD

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Tue, 6 Aug 96 00:10 EDT
To: aprssig@tapr.org
Message-ID: <m0undTU-000Qk2C@nevets.oau.org>
Rendered body type: text/plain

```
I put this question out for help on our local Florida APRS SIG and had
only 3 replies.  None of them addressed the use of memory managers. Then
again we have a lot of obstacles to overcome as you will read below. In
addition we would like to know if there is a library available of files
to replace the standard InitAEA.TNC such as for the AEA PK-232, so that
the user can smoothly reset his TNC after running PK Gold or PKPackratt,
and like-wise, a "RESTORE.TNC" file that would permit running the same.
---------------------------------------------------------------------
To: aprs-fl@tapr.org
Subject: [APRS-FL:102] PROBLEMS GETTING UP ON APRS IN ST. CLOUD

KA8ANQ, Edgar is having problems getting his computer with QEM memory
manager to work with APRS.  He also has a 4-port COM card and an AEA
PK-232 TNC that is giving him fits with the AEA Init file.  He complains
that APRS will not run after using PAKRATT or PKGOLD packet programs.
I encouraged him to reset his TNC with a special switch installed to
remove internal battery power.  He is still having problems and we need
confirmation from anyone who had an experience like what Edgar is going
through.

If anyone can help, please post a message so we can share this solution.

                         Geoffrey, wa4ikq@nevets.oau.org
```

61. Differential GPS

From: Joe Scalet <jscalet@dound.net>
Date: Tue, 06 Aug 1996 08:31:22 -0700
To: aprssig@tapr.org
Message-ID: <3207654A.36D7@dound.net>
Rendered body type: text/plain

```
Does anyone know what the format of the differential GPS data is ?
Are there any web sites that address this ? Do the different
manufacturers use different formats ?
        I live outside of Kansas City and the Coast Guard is scheduled to
install a Diff. GPS Beacon on the Missouri around Kansas City. There is a
beacon in STL and I can recieve it. It appears to be a low data rate FSK
signal but I cannot decode it with my PK232. At any rate it is too far
away to be of any use.
```

62. la.htq??

From: ko6xs@ko6xs.ampr.org
Date: Tue, 30 Jul 96 07:33:47 PDT
To: aprssig@tapr.org
Message-ID: <3768@ko6xs.ampr.org>
Rendered body type: text/plain

I downloaded a map file called la.htq from the Mac area of tapr's aprs bbs.
I believe it's a map of Los Angeles. Since I had been told that WinAprs reads
Mac maps, I renamed the file la.map, but nothing happens when I load it up.
Why? Thanks in advance for any help.
73s de Jon Kaplan

```
                                         □□□
                                        (□ □)
          □□□□□□□□□□□□□□□□□□□□□□□□□□□oOO□(_)□OOo□□□□□□□□□□
          □ □□□  TNX     73...de...ko6xs, John       □□□ □
          □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
          □ □□□  ax25  ke6daq@wb6ymh.#soca.ca.usa    □□□ □
          □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
          □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

63. Re: [APRSSIG:3544] Differential GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 6 Aug 1996 11:06:32 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608061606.LAA02845@solar.cs.tamu.edu>
Rendered body type: text/plain

Joe Scalet sez:

> Does anyone know what the format of the differential GPS data is ?
> Are there any web sites that address this ? Do the different
> manufacturers use different formats ?
> I live outside of Kansas City and the Coast Guard is scheduled to
> install a Diff. GPS Beacon on the Missouri around Kansas City. There is a
> beacon in STL and I can recieve it. It appears to be a low data rate FSK
> signal but I cannot decode it with my PK232. At any rate it is too far
> away to be of any use.

The differential signal broadcast by most folks is in RTCM SC-104 (Radio
Technical Commission for Maritime Operations, Special Committee 104) format.

It's a binary format that is generally understood by "DGPS Capable" receivers,
providing you follow their spec for piping it into the receiver. The USCG
beacons are using MSK at somthing around 300 khz to transmit the data. It's
not FSK and it's not going to make sense unless you have a program that will
decode it and present it as ascii data.

I've been working on a cheap-n-dirty DGPS broadcast system, and the data
format has been the real sticking point. W3IWI sent me some code fragments
that have helped a lot, but I've not been able to implement them yet into my
efforts... Maybe when I get more time after summer school?

There are several vendors for the MSK receiver/modems needed for this effort.
Check out http://www.csi-dgps.com as an example (although I've not used their
gear...).

73, gerry
n5jxs@tamu.edu

---

64. Re: [APRSSIG:3544] Differential GPS

From: ku0g@sprynet.com
Date: Tue, 6 Aug 1996 10:56:27 -0700
To: aprssig@tapr.org
Message-ID: <199608061756.KAA14538@m1.sprynet.com>
Rendered body type: text/plain

No, Joe, I don't know the format. That's good info, though, as I've been
thinking of buying a differential receiver and tying it into the WIDE digi to
provide DGPS correction to the network! Guess I'll have to get serious now!!!
When's the Coast Guard going to do this thing?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

65. WinAPRS

From: deang@mail.syntron.com
Date: Tue, 06 Aug 96 13:28:48 CST
To: aprssig@tapr.org
Message-ID: <9607068393.AA839363633@mail.syntron.com>
Rendered body type: text/plain

It says in the WinAPRS documentation that it has been tested with up to ten serial ports under Windoze95... WinAPRS has no trouble opening the standard ports Com1/Com2 (3F8/2F8), but it fails to open Com3-Com10. I am using a Digiboard PC/8e with up-to-date Windoze95 drivers. I can access the ports using other programs, but not WinAPRS. I received my WinAPRS registration number yesterday, hoping that the ports had simply been disabled until I forked over $60...no dice.

Am I missing something? Is anyone else using a Digiboard? How is everybody else getting 10 serial ports?!?

```
My configuration :
Com1  - Microsoft Mouse
Com2  - KPC9612 TNC
Com3  -                      |
Com4  -                      |
Com5  - Garmin GPS-45        |
Com6  - Ultimeter 2000       | Digiboard
Com7  -                      |
Com9  -                      |
Com10 - SupraFaxModem v.34   |

    \\//
    (..)
-ooO-(_)-Ooo-----------------------------------------------------
| George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
-----------------------------------------------------------------
```

66. Nice article in GPS world

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 6 Aug 1996 15:58:22 -0500
To: aprssig@tapr.org
Message-ID: <v03007801ae2d1962b1f0@[138.87.2.109]>
Rendered body type: text/plain

This month there was a nice article in GPS world describing what Paccomm is doing with APRS in Bosnia. Of course, they don't say it is APRS exactly.

Congratulations on the innovative application Gwen.

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

67. Blackjack GPS Antennas to run again!

From: ku0g@sprynet.com
Date: Tue, 6 Aug 1996 15:08:14 -0700
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <199608062208.PAA10971@m1.sprynet.com>
Rendered body type: text/plain

Greetings all! For those who were in the initial purchase of the Blackjack GPS antenna, Karla and I would like to say thank you for your orders and helping us get the initial purchase moved!!!

FIRST PRODUCTION RUN COMMENCING!

We are happy to announce our first production run of 50 units will begin in two weeks and we are taking advance reservations for these 50 beginning now! Two units are already consigned to existing orders that have been back-ordered to this point. These orders will have first priority on shipping. The remaining 48 units are up for grabs to the first 48 reservations received!

We anticipate shipment to begin the first week of September. As an incentive to those of you who wish to reserve units we are offerring a discounted price on the unit of $37.00 per unit plus $4.50 shipping/handling charge. This discounted price is only good for reservations received by August 18th.

To reserve your Blackjack Antenna, send EMail DIRECT to me at the address listed below. Include your full name, address, callsign and shipping address (if different from your address). You will receive a confirmation of your reservation and be issued a sequence number at the time your reservation is received. We will also mail you a printed order confirmation with an anticipated shipping date at which time you will be billed for all charges and requested to mail payment. Please do NOT send payment at this time!

ON OTHER FRONTS...

We have decided that we will not be producing an active antenna at this time due to the start-up costs involved versus the number of actual requests for an amplified version. We do offer a "weather-proofing kit" which will allow the user to place to Blackjack outside of a vehicle in the elements. There is ample room inside the radome for a KPC-3 or Pico-Packet TNC and, perhaps, even a small digital radio! Price of the Weather Proofing Kit is $15.00 plus $5.00 shipping/handling. This kit contains a radome (approximate dimensions 6 by 6 by 2.5 inches) and clear latex silicon for sealing purposes. If ordered along with a Blackjack Antenna the WP Kit is $11.00 and $3.00 shipping/handling.

Karla and I thank you for your support of our little cottage industry!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

68. Tracker Project Boxes

From: BordingK@aol.com
Date: Tue, 6 Aug 1996 22:06:21 -0400
To: aprssig@tapr.org
Message-ID: <960806220620_593983983@emout15.mail.aol.com>
Rendered body type: text/plain

I'm looking for a source of suitable sized project boxes for GPS Stand-Alone Trackers. I don't want plastic or aluminum jnk boxes from Radio Shack. I'm looking for those nice formed, waterproof boxes, but I can not find a local supplier.

Any suggestions?

de KF4COH
Ken

---

69. Re: [APRSSIG:3551] Tracker Project Boxes

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 7 Aug 1996 00:39:08 -0500
To: aprssig@tapr.org
Message-ID: <v02140b07ae2dd89329bc@[199.1.11.124]>
Rendered body type: text/plain

>I'm looking for a source of suitable sized project boxes for GPS Stand-Alone
>Trackers. I don't want plastic or aluminum jnk boxes from Radio Shack. I'm
>looking for those nice formed, waterproof boxes, but I can not find a local
>supplier.

Try the local "Container-Store" Lots of fun boxes there.

I found the Ammo-boxes to be too big. I also wanted a small box that would not look "TOO interesting" when left in a car seat.

Don't forget an extra heat sink for the radio if used in the Hot parts of the USA and If you use a GPS with a LCD display watch out for below zero weather.

I just leave the Car GPS unit running for the
ONE night in Dallas when it gets too cold. :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

70. re: Making Maps

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 07 Aug 96 02:04:19 EDT
To: <aprssig@tapr.org>
Message-ID: <960807060419_71301.3106_FHJ55-1@CompuServe.COM>
Rendered body type: text/plain

OK, I've just uploaded TXBALOON.ZIP to the FTP site.

This zip file contains TXBALOON.MAP, which is a Mac/WinAPRS compatible map file created by MacDLG, the new map generation application mentioned the other day. Titled "Balloon Area Summary", it is a map covering a rectangle 90 mi. by 115 mi. centered on Wharton, Texas, the approximate area suggested by Ron Parsons as being useful coverage for their balloon launch this weekend.

Detail selection for generation of this map was major rivers, shorelines, primary highways, and tertiary roads (local arteries). Data is from the USGS 1:100,000 DLG database. The finished map contains 158K points, reduced from the original 210K points in the raw data.

There are a couple of things I don't like about this map. One is that the final point count is a bit high due to the current lack of filtering to eliminate small features generated by enabling "shorelines". This feature type seems to be a catch-all in the 100K dataset, but it's essential for capturing coastlines. The other is that there seems to be a problem in the road subtyping in the USGS data -- there are a couple of spots of dense local road detail that tell me that they coded local streets incorrectly.

Since I'm still writing some of the code, I can't get into a lot of detail about the program because I might make a liar out of myself in the interim. But basically it is a map generator that takes USGS 100K files and Census Bureau TIGER files and converts them to Win/Mac or DOS maps. It's not particularly fast -- that balloon map took two hours on my PPC7200/75 -- but I've generated maps with over 200K points without crashing the system around my ears. ;-) DOS maps -- that is, maps which will compress down to 3000 points or less after optimizing and smoothing -- take about five or ten minutes depending on how many DLG files we have to traipse through to collect vectors.

One key feature I like to talk about, though, is the vector optimization. This really cuts map size -- by as much as 40%. By doing a whole bunch of extra processing to try to locate and join related lines, intermediate points can frequently be eliminated, especially in metro-area maps with lots of straight-line streets. The optimization routine, frankly, is the lion's share of the time it takes to process a map, but I think it's worth it in file size reductions and faster map loading.

I have one more development release planned to wring-out bugs or feature problems, but I figure that MacDLG 1.0 will be out before the end of August. The only favor I ask of the troops is to not bug me too much about it until it's out so my development time doesn't get waylayed dealing with correspondence.

...mike/N0QBF
71301.3106@compuserve.com

---

71. Best Unit Garmin GPs-38 or GPS-45

From: "DENNIS JAMES" <den_j@msn.com>
Date: Wed, 7 Aug 96 07:37:09 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608070738380739@msn.com>
Rendered body type: text/plain

Iam looking to buy a GPS unit out of the Two Garmin units GPS-38 and GPS-45 which is the best unit feature wise and why.

Also is there a mail order company (that handles overseas orders) that i can order through that handles a visa card.

Do they have a email address.

I have not forgot the Magellan units GPS-3000

Thank you
Dennis
Scone Australia
VK2DOR
KO-23,KO-25 AND UO-22
Email vk2dor@amsat.org

---

72. GPS Week Rollover: A Problem?

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 7 Aug 1996 9:39:33 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960807093933.2040c06a@exame2.dseg.ti.com>

Rendered body type: text/plain

The following is an excerpt from the August 1996 issue of "GPS World", from the "Notes" section.

GPS Week Rollover: A Problem?

Some users are looking for reassurance from manufacturers that current and future GPS receivers are designed to accommodate a "rollover" in the GPS week, expected to occur in 1999, without causing temporary or permanent malfunctions in the equipment.

The satellite broadcasts the GPS week count in the navigation message as a 10-bit binary number that begins with a zero week of January 5, 1980. At midnight, August 21/22, 1999, the week count will reach the 1024 maximum and roll over - that is, begin counting from zero as though it were 1980 again. At issue is whether this rollover will create a discrepancy in data that GPS units might interpret as an anomaly, causing malfunctions during or after the event.
..
..
..
U.S. Air Force (USAF) organizations responsible for developing and acquiring the GPS satellites and user sets have included notices of the rollover in documents describing signal specifications. "The GPS Joint Program Office (JPO) is continuing to assess the impact of the GPS time rollover on military GPS receivers," says an Air Force representative. "Currently, we do not believe the JPO-procured military receivers will be impacted. However, each manufacturer, civil and military, has a unique design and may be impacted by the rollover, dependent upon the manufacturer's implementation of Interface Control Document (ICD) GPS-200 Navstar GPS Space Segment/Navigation User Interface."
..
..
..
FYI. 73
Claude Head
K5DTN
Dallas, TX
chead@exame2.dseg.ti.com

73. TXBALOON.ZIP is Corrupt!

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 07 Aug 96 10:52:45 EDT
To: <aprssig@tapr.org>
Message-ID: <960807145244_71301.3106_FHJ88-1@CompuServe.COM>
Rendered body type: text/plain

Apologies to everyone!

I just downloaded the map created last night and discovered that the .ZIP file is corrupt. Since .ZIP is not a "usual" Mac format all I can figure is that I used the wrong save option on Zip It. If it doesn't work again (this time I'll verify the un-ZIP locally first <g!>), I'll be forced to upload it as a MacBinary .hqx file and you Win users will have to do whatever magic is required to decode it on your end.

Not planning ahead, I left the map file at home, so it will be this evening before a corrected version can be uploaded.

Again, I'm sorry for the false start.

...mike/N0QBF

74. Re: [APRSSIG:3551] Tracker Project Boxes

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Wed, 7 Aug 1996 07:59:57 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960807075230.816A-100000@willow>
Rendered body type: text/plain

I use polycarbonate boxes from Pomona Electronics. They are at least water-resistant with neoprene gaskets. They are well designed and rugged. They come in the following sizes:

65x58x35mm
115x65x40mm
115x65x55mm
115x90x55mm

171x121x55mm
222x146x55mm

You can get them direct at 909-469-2900
Newark Electronics also carries the Pomona line.

Pomona makes other styles as well such as thermoplastic, phenolic, and die cast aluminum.

Chris

---

75. Atlanta APRS Server status

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 07 Aug 96 11:14:17 EDT
To: aprssig@tapr.org
Message-ID: <m0uoAJR-0001HCC@wa4mei.radio.org>
Rendered body type: text/plain

I've made some improvments to the Atlanta area APRS server.

1. It will send you all the APRS data it has collected during the previous 15 minutes (less dups) when you first connect.

2. I think I've finally identified and fixed the crashing problem.

Don't be shy about connecting to the server ;-) I need some user load to make sure the bugs are really fixed.

Two individuals using Win95 and Netscape 2.02 have reported that the South East and Atlanta regional maps don't work. My Linux Netscape 3.0b beta crashes after loading the Atlanta detail map but works fine with the others . I don't know if these are Java implementation problems or bugs in the Java applet. All maps work with the Java implimentations on Macintosh and OS/2.

If you get different results let me know.

Browsers can reach the server through:

http://www.wa4dsy.radio.org/aprs/

You can telnet to the server at on port 14579 at

telnet://wa4dsy-3.wa4dsy.radio.org:14579

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp: The only x86 operating system that
is more stable than most people who use it.

---

76. Re: [APRSSIG:3547] Re: Differential GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 7 Aug 1996 10:17:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608071517.KAA17929@vanilla.cs.tamu.edu>
Rendered body type: text/plain

ku0g@sprynet.com sez:
>
> No, Joe, I don't know the format. That's good info, though, as I've been
> thinking of buying a differential receiver and tying it into the WIDE digi to
> provide DGPS correction to the network! Guess I'll have to get serious now!!!
> When's the Coast Guard going to do this thing?

W3IWI did this from Goddard SFC a couple of years ago. I've accomplished the same thing for Cows In Space, too.

You have to set the thing up in TRANS mode, I use a pactime AFTER 5, and then you decide on the DGPS interval, either 15 or 30 seconds... Anything beyond that and you've diluted your benefit pretty significantly.

gerry

77. Re: [APRSSIG:3549] Nice article in GPS world

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 7 Aug 1996 10:27:32 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608071527.KAA18045@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
Larry Keeran sez:
>
> This month there was a nice article in GPS world describing what Paccomm is
> doing with APRS in Bosnia.  Of course, they don't say it is APRS exactly.
>
> Congratulations on the innovative application Gwen.

Larry beat me to it.  I was out yesterday when the magazine came, and was
pleasantly surprised to see the combination Automatic Border Location System
and AVL highlighted as an innovation contest winner.

I had suspected Gwyn was busy with something of this sort, but now the cat's
out of the bag.  Congratulations!

Y'all should check out Page 12 of the current GPS Worldfor more info.

There is also a whole motherlode of info in this showcase issue.  Lots of
newly available antennas and receiver opportunities.

73, Gerry N5JXS
n5jxs@tamu.edu
```

78. Re: [APRSSIG:3551] Tracker Project Boxes

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 7 Aug 1996 10:50:04 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608071550.KAA18203@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
BordingK@aol.com sez:
>
> I'm looking for a source of suitable sized project boxes for GPS Stand-Alone
> Trackers.  I don't want plastic or aluminum jnk boxes from Radio Shack.  I'm
> looking for those nice formed, waterproof boxes, but I can not find a local
> supplier.

Hammond or Vector make both aluminum and plastic boxes.  If memory serves me
(often a gross assumption) the plastic ones can be hermetically sealed, the
aluminum ones are not gasketed.

Zero makes both plastic and aluminum boxes that can be sealed.

I took standard Hammond die-cast aluminum boxes and sealed them with Dow
Corning 737 (doesn't make acetic acid when drying) for the Cows In Space
project, and was quite satisfied with the result.  The only condensate
corrosion we saw was as a result of sealing the boxes in a high humidity
environment and letting the vapor condense.  The cows never got 'em wet on the
inside.

73, gerry
n5jxs@tamu.edu
```

79. Re: [APRSSIG:3555] GPS Week Rollover: A Problem?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 7 Aug 1996 10:56:26 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608071556.KAA18340@vanilla.cs.tamu.edu>
Rendered body type: text/plain

```
If memory serves, W3IWI fooled his PVT-6 grade receiver into thinking it was
clicking over at the millineum, and it performed to spec.  GPS World's also
encouraged the various receiver manufacturers to write them with details of
how their various hardware will respond.

73, gerry
```

80. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id QAA116770 for
<aprssig@tapr.org>; Wed, 7 Aug 1996 16:17:49 GMT
Message-Id: <199608071617.QAA116770@smtp-gw01.ny.us.ibm.net>
Received: from unknown(166.72.54.85) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
        id smayOoDFW; Wed Aug  7 16:17:44 1996
X-Sender: hk3gal@pop03.ca.us.ibm.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 06 Aug 1996 11:16:47 -0500
To: aprssig@tapr.org
From: gerardo arias <hk3gal@ibm.net>
Subject: Re: [APRSSIG:3544] Differential GPS
```

At 08:46 AM 8/6/96 -0500, you wrote:
>Does anyone know what the format of the differential GPS data is ?
>Are there any web sites that address this ? Do the different
>manufacturers use different formats ?
>   I live outside of Kansas City and the Coast Guard is scheduled to
>install a Diff. GPS Beacon on the Missouri around Kansas City. There is a
>beacon in STL and I can recieve it. It appears to be a low data rate FSK
>signal but I cannot decode it with my PK232. At any rate it is too far
>away to be of any use.
>
>
>Hi.

the diferencial corection are in a format called rtcm and is an ascii

i hope that the transmision is ascii around 100 or 300 bauds.(some times less)
try to decode in this way ==> ascii
also you can play with inverter ascii or maybe the marc or space tones are
not standard
i dont have work with the pk232, but i think that you can change the
frecuency of the tones. i have do that job with the kantronics kam in this way.

good luck

gerardo

---

81. APRS (LIVE) WEB PAGE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 7 Aug 1996 13:31:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960807131115.5033C-100000@arctic>
Rendered body type: text/plain

My APRS web site is now on line using KO4HD's javAPRS to give you a live
display of several APRS networks monitored here in Annapolis:

http://web.usna.navy.mil/~bruninga/aprs.html

Besides the usual replay files, are 4 live map displays as follows:

AMATEUR RADIO ALL	(145.79 all stations heard (last 250 packets)
AMATEUR RADIO CURRENT	(145.79 only last 2 hours of packets)
HF APRS	(10.151 MHz LSB)
ACADEMY	(6.261 MHz USB
ACARS	(131.55 MHz AM shows commercial aircraft)

I have a small program running on a PC that every N minutes sends over the
last 250 packets heard. These packets are filtered to remove all dupes.
For now, N is 10 minutes. During special events, we will change N to be
every minute or less. This gives you a complete map page instantly when
you link to my APRS rather than having to wait for the data to dribble
in...

Per murphy's law, our file servers are up and down during summer upgrades
going on, so if it doesnt work, then try again later...

This has been working for a week, but not externally. Steve figured out
the problem, and that is that our http server "assumes" that .map files
are to be treated as graphics, so it was getting messed up on the .map
files we were using with javAPRS.

de wb4apr@amsat.org

82. Re: [APRSSIG:3559] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 07 Aug 1996 10:46:35 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960807094635.00937058@dgps.com>
Rendered body type: text/plain

```
Hi,
I am President of DCI, the worlds leading supplier of DGPS.  We currently
broadcast over FM subcarrier, and are operating in 11 countries.  I have
been toying with the idea of putting the corrections over packet.
In the US, we utiliza a wide area network, connected together via frame
relay.  We process the data here in Cupertino, CA, and uplink it to Raleigh,
where it is then broadcast to our radio stations over Ku utilizing FM
squared technology.  We currently broadcast over 160 radio stations in north
america, covering approx 1.6 million sq miles.

The signal is encrypted, and provided on a subscription basis.  We have 3
levels of service, 1,5, and 10 meter.

What I have toyed with is broadcasting the 10 meter service free, but
charging for the 1 and 5 meter service.  This can be done by scrambling part
of the correction, but leaving the rest of it in the clear.  We could
provide a small inexpensive connector device which unscrambles the high
accuracy bits.

What do you thing of this idea.  10 meters is certainly accurate enough for
the APRS marketplace.



At 10:38 AM 8/7/96 -0500, Gerald J Creager wrote:
>ku0g@sprynet.com sez:
>>
>> No, Joe, I don't know the format.  That's good info, though, as I've been
>> thinking of buying a differential receiver and tying it into the WIDE
digi to
>> provide DGPS correction to the network!  Guess I'll have to get serious
now!!!
>> When's the Coast Guard going to do this thing?
>
>W3IWI did this from Goddard SFC a couple of years ago.  I've accomplished the
>same thing for Cows In Space, too.
>
>You have to set the thing up in TRANS mode, I use a pactime AFTER 5, and then
>you decide on the DGPS interval, either 15 or 30 seconds... Anything beyond
>that and you've diluted your benefit pretty significantly.
>
>gerry
>
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
---------------------------------------------------------------------------
----------
```

83. Re: [APRSSIG:3559] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 07 Aug 1996 10:51:18 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960807095118.00926bf0@dgps.com>
Rendered body type: text/plain

```
Hi again,
The other item I forgot to mention is that we have a patent that allows us
to get one meter accuracy with less than 50 bits per second.
I look forward to your response.


At 10:38 AM 8/7/96 -0500, Gerald J Creager wrote:
>ku0g@sprynet.com sez:
```

```
>>
>> No, Joe, I don't know the format.  That's good info, though, as I've been
>> thinking of buying a differential receiver and tying it into the WIDE
digi to
>> provide DGPS correction to the network!  Guess I'll have to get serious
now!!!
>> When's the Coast Guard going to do this thing?
>
>W3IWI did this from Goddard SFC a couple of years ago.  I've accomplished the
>same thing for Cows In Space, too.
>
>You have to set the thing up in TRANS mode, I use a pactime AFTER 5, and then
>you decide on the DGPS interval, either 15 or 30 seconds... Anything beyond
>that and you've diluted your benefit pretty significantly.
>
>gerry
>
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

84. Re: [APRSSIG:3544] Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 07 Aug 1996 10:59:02 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960807095902.0094b9fc@dgps.com>
Rendered body type: text/plain

```
All manufacturers use RTCM SC104.  This is a well defined format.  Any
receiver that is differential ready will take in this format.

You cam get receivers from the USCG, of from commercial operators like DCI.
Check our web page at http://www.dgps.com for coverage and moer info.



At 08:46 AM 8/6/96 -0500, Joe Scalet wrote:
>Does anyone know what the format of the differential GPS data is ?
>Are there any web sites that address this ? Do the different
>manufacturers use different formats ?
>       I live outside of Kansas City and the Coast Guard is scheduled to
>install a Diff. GPS Beacon on the Missouri around Kansas City. There is a
>beacon in STL and I can recieve it. It appears to be a low data rate FSK
>signal but I cannot decode it with my PK232. At any rate it is too far
>away to be of any use.
>
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Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

85. Re: [APRSSIG:3559] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 07 Aug 1996 11:12:25 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960807101225.00926bf0@dgps.com>
Rendered body type: text/plain

```
Gerry,
Could you give me your phone # so that I can call.
Thanks,


At 10:38 AM 8/7/96 -0500, Gerald J Creager wrote:
```

```
>ku0g@sprynet.com sez:
>>
>> No, Joe, I don't know the format.  That's good info, though, as I've been
>> thinking of buying a differential receiver and tying it into the WIDE
digi to
>> provide DGPS correction to the network!  Guess I'll have to get serious
now!!!
>> When's the Coast Guard going to do this thing?
>
>W3IWI did this from Goddard SFC a couple of years ago.  I've accomplished the
>same thing for Cows In Space, too.
>
>You have to set the thing up in TRANS mode, I use a pactime AFTER 5, and then
>you decide on the DGPS interval, either 15 or 30 seconds... Anything beyond
>that and you've diluted your benefit pretty significantly.
>
>gerry
>
>
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---------------------------------
Ronald P. Haley                         PH:     +1-408-446-8350
President and C.E.O.                    Fax:    +1-408-446-8383
Differential Corrections Inc            E-Mail: ronhaley@dgps.com
10121 Miller Ave                        Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

86. APRSair upgrade

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 7 Aug 1996 17:29:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960807171656.26527A-100000@arctic>
Rendered body type: text/plain

```
As you know, APRSair will plot the location of commercial aircraft heard
on the ACARS frequency of 131.55 MHz AM if you have a TNC capable of ACARS
decoding.  I am using a DSP-12 but I have heard that AEA makes one too.
With a roof top antenna, I typically see aircraft out about 200 miles.

I just added the ALT-SETUP-MODES-REPORT-acars mode that will then transmit
an APRS packet out the other serial port on the PC as an object report.
These packets are transmitted to the address of ACARS instead of APRS,
however, so that normal APRS operators dont see them.  But if someone
wants to see where some commercial aircraft are, they just set
CONTROLS-FILTERS-OTHER and then they will begin to see these packets...

If they want to plot ONLY the ACARS posits, then they can use the
ALT-SETUP-MODES-ALTNET command to watch for ONLY ACARS traffic.

I did this so that these ACARS packets can be linked over to my APRS web
page so you can select to see the commercial airlines in the area...

de wb4apr@amsat.org
```

87. USGS Map Makin

From: Les Blalock <lcb911@apex2000.net>
Date: Wed, 07 Aug 1996 16:29:25 -0700
To: aprssig@tapr.org
Message-ID: <320926D5.7581@apex2000.net>
Rendered body type: text/plain

```
I've been trying to make an APRS map with MK100K2A.EXE using the USGS
data I downloaded.  The MK1002KA.TXT file refers to an "EXTRACT.EXE"
program when using the CD ROM data... do I need EXTRACT.EXE with the
downloaded stuff?  If so, where do I find it?  If you've got firsthand
experience in making a map from Internet data, I would appreciate some
help. (Email me direct - if there's interest, I'll send a SIG msg with
instructions after I muddle through.)

Les/N5KOA
Odessa, TX
```

88. Formula for distance between points?

From: John Ackermann <jra@febo.com>
Date: Wed, 07 Aug 1996 19:39:44 -0400
To: aprssig@tapr.org

Message-ID: <199608072339.TAA18611@ag9v.ampr.org>
Rendered body type: text/plain

I wonder if someone can help me out... I used to have the formula (actually, the code) for calculating the distance between two lat/long pairs. Now that I need it, I can't find it anywhere around here. Could someone forward it to me, either via private mail or the list.

Why do I need it? I want to write a filter program that will read a .HST file and output some useful stuff: Mainly, it will let you filter out closely-spaced points. When I travel, I read the GPS data at 5 second intervals, but that makes for very slow displays of "where I went on my summer vacation" (though it allows for very neat displays over small areas). I want to be able to extract points that are, say, 1 mile apart to make a neat and speedy playback.

I'm also toying with summing the distances between the individual points, and comparing with the distance calculated using only the first and last points, to determine how direct a route is compared to a straight line. And, while I'm at it, I want to capture the furthest N/S/E/W, max, min, and average speeds, etc.

If someone will help me out with the key formula, I'll make the resulting Qbasic program available to all comers.

Thanks!

John   AG9V
jra@febo.com

---

89. Re: [APRSSIG:3565] Re: Differential GPS

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Wed, 7 Aug 1996 17:04:27 -0700 (PDT)
To: "Ronald P. Haley" <ronhaley@dgps.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960807170355.4138B-100000@spork.callamer.com>
Rendered body type: text/plain

It is not clear if this ten meter service is real time or not. Is it?

On Wed, 7 Aug 1996, Ronald P. Haley wrote:

```
> Hi,
> I am President of DCI, the worlds leading supplier of DGPS.  We currently
> broadcast over FM subcarrier, and are operating in 11 countries.  I have
> been toying with the idea of putting the corrections over packet.
> In the US, we utiliza a wide area network, connected together via frame
> relay.  We process the data here in Cupertino, CA, and uplink it to Raleigh,
> where it is then broadcast to our radio stations over Ku utilizing FM
> squared technology.  We currently broadcast over 160 radio stations in north
> america, covering approx 1.6 million sq miles.
>
> The signal is encrypted, and provided on a subscription basis.  We have 3
> levels of service, 1,5, and 10 meter.
>
> What I have toyed with is broadcasting the 10 meter service free, but
> charging for the 1 and 5 meter service.  This can be done by scrambling part
> of the correction, but leaving the rest of it in the clear.  We could
> provide a small inexpensive connector device which unscrambles the high
> accuracy bits.
>
> What do you thing of this idea.  10 meters is certainly accurate enough for
> the APRS marketplace.
>
>
>
> At 10:38 AM 8/7/96 -0500, Gerald J Creager wrote:
> >ku0g@sprynet.com sez:
> >>
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> digi to
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> >
> >W3IWI did this from Goddard SFC a couple of years ago.  I've accomplished the
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> >
> >You have to set the thing up in TRANS mode, I use a pactime AFTER 5, and then
> >you decide on the DGPS interval, either 15 or 30 seconds... Anything beyond
> >that and you've diluted your benefit pretty significantly.
> >
> >gerry
> >
> >
> --------------  Worldwide leaders in Real Time DGPS
> ---------------------------------
> Ronald P. Haley                               PH:     +1-408-446-8350
> President and C.E.O.                  Fax:    +1-408-446-8383
> Differential Corrections Inc          E-Mail: ronhaley@dgps.com
> 10121 Miller Ave                      Web:    http://www.dgps.com
> Cupertino, CA 95014
> ---------------------------------------------------------------------------
> ----------
>
>
```

---

90. TXBALOON.MAP Uploaded

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 07 Aug 96 20:36:34 EDT
To: <aprssig@tapr.org>
Message-ID: <960808003634_71301.3106_FHJ31-2@CompuServe.COM>
Rendered body type: text/plain

```
Well, it took an Act of Congress, but the MacDLG demo map, TXBALOON.MAP, has
been uploaded to the FTP area. The *correct* file is:

    txbaloon.zip.hqx

Apparently the uploader I use at home does funny things to binaries, and as
some of you might see it took several tries to get the file there successfully.

For those who take the time to download it (thank you!), let me know what you
think.

  ...mike/N0QBF
     71301.3106@compuserve.com
```

---

91. Re: [APRSSIG:3554] Best Unit Garmin GPs-38 or GPS-45

From: David Wells <davew@cruzio.com>
Date: Wed, 7 Aug 1996 21:23:51 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608071922.aa20171@cruzio.com>
Rendered body type: text/plain

```
At 02:48 AM 8/7/96 -0500, you wrote:
>Iam looking to buy a GPS unit out of the Two Garmin units GPS-38 and GPS-45
>which is the best unit feature wise and why.
>
>Also is there a mail order company (that handles overseas orders) that i can
>order through that handles a visa card.
>
>Do they have a email address.
>
>I have not forgot the Magellan units GPS-3000
>

If you want the best of both, the 45XL is a 45 with the 38 software.
Available from West Marine, fax 408-728-4360.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

---

92. Re: [APRSSIG:3565] Re: Differential GPS

From: ku0g@sprynet.com
Date: Wed, 7 Aug 1996 19:28:02 -0700
To: aprssig@tapr.org
Message-ID: <199608080228.TAA28227@m1.sprynet.com>
Rendered body type: text/plain

```
This would be wonderful if we could all have free access to the 10 meter
accuracy.  Is there a station in the Kansas City area already broadcasting the
subcarrier?  If so, what station and frequency???  Perhaps this may be the easy
answer to our desire to make differential correction available to our entire
network via our WIDE digipeater!
```

```
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

93. Re: [APRSSIG:3562] Re: GPS Week Rollover: A Problem?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 8 Aug 1996 02:21:08 -0500
To: aprssig@tapr.org
Message-ID: <v02140b01ae2f0a7d6f73@[199.1.11.124]>
Rendered body type: text/plain

```
Claude said:
> At  midnight, August 21/22, 1999, the week count will reach the 1024 maximum
Gerald said:
>clicking over at the millineum, and it performed to spec. GPS World's also...
----

Oh where is Tom Clock and his Totally Accurate Clark when you need him ?? :-)

Year    EVENT
-----  -------
1999   GPS clock rollover -- August 21/22, 1999
2000   Computer software might have problems with the 00 -- Jan 1 2000
2001   The new millennium starts Jan 1 2001

The next century will also start on Jan 1 2001 , but we in the USA are not
15th in the world in Math and Science for nothing.

Just like the computer screen display in the movie "Independence Day"
We need Tom to include with his Totally Accurate GPS clock ,a count down
program that showes time to the new millennium.

Lots of people slip up on this:
The news said the first Olympics of the new millennium would be held
in Australia.


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

94. Re: [APRSSIG:3574] Re: Best Unit Garmin GPs-38 or GPS-45

From: mbary@nmaa.org (Mark L. Bary)
Date: Thu, 08 Aug 1996 06:22:49 -0700
To: aprssig@tapr.org
Message-ID: <3209EA29.69B2@nmaa.org>
Rendered body type: text/plain

```
>Iam looking to buy a GPS unit out of the Two Garmin units GPS-38 and GPS-45
>which is the best unit feature wise and why.
>

Here are a couple of differences to keep in mind:

1. The 45 (or 45XL) has an easier way to connect an external antenna in
that the unit has a BNC connector for the stock antenna.
   The 38 would require you to use one of those "special" connectors, if
it could be done at all. A quick look at the Garmin Marine Retail Price
List (which also lists accessory items for each unit) shows that an
external antenna is NOT listed as an accessory item!  External antennas
are listed for the models GPS-40, GPS-45, etc.  Buyer Beware!

2. If you want to feed the units with external power, you must feed the
38 with a regulated source of 5-8 volts.  The 45 will accept a source of
from 5-40 volts, which means you can use any convienient 12v source.

3. The 45 comes with a carrying case.

Most of the other specifications seem to me to be identical.

Hope this helps...

73
Mark
N4EOC
Germantown, MD
```

95. Re: [APRSSIG:3565] Re: Differential GPS

From: rwf <rwf@mindspring.com>
Date: Thu, 08 Aug 1996 09:13:46 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960808131346.006b3428@atl.mindspring.com>
Rendered body type: text/plain

At 12:45 PM 8/7/96 -0500, Ron Haley wrote:
>Hi,
>I am President of DCI, the worlds leading supplier of DGPS.

Hi, Ron- glad to see you on the SIG. You popped in at an appropriate time in these discussions. My little project here in Atlanta is complete, a roaring sucess! It actually saved the day on Sunday Morning's big event, when it was used for its intended purpose (helicopter was "IFR on top"), motos were amongst downtown buildings.

Hope you're copying more APRS packets up there now and welcome to the SIG.

Ralph Fowler, N4NEQ
Atlanta, GA

(feeling good because I introduced Ron to APRS)

---

96. Re: [APRSSIG:3571] Formula for distance between points?

From: Carlos Peres da Costa <CPC@NPD.UFPE.BR>
Date: Thu, 08 Aug 1996 10:02:38 -0300
To: aprssig@tapr.org
Message-ID: <01I81285K5FO8WVZ9M@NPD.UFPE.BR>
Rendered body type: text/plain

Help ! I am trying to u unsubscribe but I get an invalid request.
Can anybody help me to get out of this ....

---

97. Re: [APRSSIG:3571] Formula for distance between points?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Aug 1996 09:16:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960808091055.16145F-100000@arctic>
Rendered body type: text/plain

On Wed, 7 Aug 1996, John Ackermann wrote:

> I wonder if someone can help me out... I used to have the formula (actually,
> the code) for calculating the distance between two lat/long pairs.
> and output some useful stuff: Mainly, it will let you filter out
> closely-spaced points.

APRSdos REPLY COMMENT: For that application, you have a flat earth and th difference between points is just the normal distance formula

d = sqr(LA ^ 2 + LO ^ 2)

But then you can be more accurate if your multiply the longitude value by the cosine of the lattitude. Oh yes, one minute of latitude = 1 nautical mile... This should certainly be accurate enough for distances under 100 miles... (relatively speaking) since you are only interested in a relative distance measurement. If you want an exact distance to feet, then you need the real solution...

de wb4apr@amsat.org

---

98. Re: Still trying...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Aug 1996 09:19:58 -0400 (EDT)
To: Arte Booten <N2ZRC@gnn.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960808091814.16145H-100000@arctic>
Rendered body type: text/plain

If you are using GGA then you can get an HSP timeout, since APRS is waiting to see if it can find a VTG sentence too...

Is there somereason your GPS is not outputting a VTG?

I assume you are getting a good posit plottted on the map, and your only concern is the HSP TIMEOUT MESSAGE?

de wb4apr@amsat.org

99. Re: None

From: "Richard L. Holbert" <holbert@arinc.com>
Date: Thu, 8 Aug 1996 10:16:54 -0400
To: aprssig@tapr.org
Message-ID: <96Aug8.091624edt.6154-1@interlock.arinc.com>
Rendered body type: text/plain

```
> FYI: in CQ DL, June 96 (German ham magazine) DF9IC presents a packet modem
> based on a PIC microcontroller. Don't ask me for details, I got the
> information second hand.
>
> Anyone knows which microcontroller is used in the MIM?
>
> Bernard, KB2TGH.
>
> -----
> Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
> http://rock.ess.sunysb.edu:8080/
Bernard,

The MIM is based on a PIC microcontroller and the software written in PIC assembly
language.

Rick Holbert, KB8DNR, holbert@arinc.com
```

---

100. Re: Formula for distance between points?

From: n3mps@juno.com (Jack Van Gilder)
Date: Thu, 8 Aug 1996 09:55:24 EST
To: aprssig@tapr.org
Message-ID: <19960808.100710.5247.1.N3MPS@juno.com>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996 08:03:45 -0500 (CDT) Carlos Peres da Costa
<CPC@npd.ufpe.br> writes:
>Help ! I am trying to u  unsubscribe but I get an invalid request.
>     Can anybody help me to get out of this   .......
>
>
Carlos...FYI ...73, Jack

To unsubscribe from this mailing list send a message to
`listserv@tapr.org`
with the following line in the body of the message:

signoff aprssig
```

---

101. Question on Lambda V Reg.

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Thu, 08 Aug 1996 10:36:21 -0400
To: aprssig@tapr.org
Message-ID: <199608081436.JAA16870@tapr.org>
Rendered body type: text/plain

```
I am looking for the 'pin out' of a Lambda power hybrid
  voltage regulator Model LAS 2205. (5V at 5A) I would also like to
  know the input requirements and external config.

     TNX for your help.


      -73- Charlie  K3VDB
```

---

102. Re: [APRSSIG:3571] Formula for distance between points?

From: Gumby <rgeer@physio-control.com>
Date: Thu, 8 Aug 96 07:58:51 PDT
To: aprssig@tapr.org
Message-ID: <9608081458.AA16017@physio-control.com>
Rendered body type: text/plain

```
I pulled this out of my personal archives, I hope it helps!

Enjoy!
Gumby


Awhile back John Fricks wrote:

Following is an Excel spreadshhet implementation of the
Great Circle formulae:
```

Objective: Distance and azimuth between major cities

```
Enter coordinates of origin: (Nairobi)
   ORGLAT          -1.2833
   ORGLON         -36.8167
Enter coordinates of destination: (Dar es Salaam)
   DESLAT          -6.8000
   DESLON         -39.2833
Are both locations in the southern hemisphere?
   SOHEM                 1   =IF(ORGLAT<0,IF(DESLAT<1,1,0),0)
Is origin closest to the pole?
   NSF                   0   =IF(ABS(ORGLAT)<ABS(DESLAT),0,1)
Let point B be the one closer to the pole
   BLAT            -6.8000   =IF(NSF=1,ORGLAT,DESLAT)
   BLON           -39.2833   =IF(NSF=1,ORGLON,DESLON)
Let point A be the one closer to equator
   ALAT            -1.2833   =IF(NSF=1,DESLAT,ORGLAT)
   ALON           -36.8167   =IF(NSF=1,DESLON,ORGLON)
Use this constant:
   RAD             57.2958   =360/(2*pi())
Now do some spherical trigonometry:
   LONDIF          -0.0215   =((BLON-ALON)/2)/RAD
   LATDIF          -0.0481   =((BLAT-ALAT)/2)/RAD
   LATSUM          -0.0705   =((BLAT+ALAT)/2)/RAD
   YXDIF            1.1511   =ATAN((1/TAN(LONDIF))*SIN(LATDIF)/COS(LATSUM))
   YXSUM            1.5693   =ATAN((1/TAN(LONDIF))*COS(LATDIF)/SIN(LATSUM))
   Y                2.7203   =YXSUM+YXDIF
   AZY            155.8637   =Y*RAD
   X                0.4182   =YXSUM-YXDIF
   AZX            -23.9622   =-X*RAD
   Z               -0.0527   =ATAN(TAN(LATDIF)*SIN((Y+X)/2)/SIN((Y-X)/2))
Calculate great circle distance from between points:
   KM                671.2   =111.12*(2*ABS(Z)*RAD)
   MI                417.1   =69.05*(2*ABS(Z)*RAD)
Calculate azimuth from origin:
  (Note: AZY is the azimuth if both locations are in northern hemisphere
and
  the origin is closer to pole. AZX is the azimuth if both locations are in
   southern hemisphere and the origin is closer to pole.)
   AZ1               155.9
=IF(SOHEM=0,IF(NSF=1,AZY,AZX),IF(NSF=1,AZX,AZY))
   AZO               155.9   =IF(AZ1_<0,360+AZ1_,AZ1_)
```

Dar es Salaam is 671.2 km. from Nairobi. From Nairobi, depart along azimuth 155.9 degrees.

--
+++
John Fricks
Email: John_Fricks@nt.com
Nortel Inc.

---

103. Re: [APRSSIG:3577] Re: Best Unit Garmin GPs-38 or GPS-45

From: mcinnis@austin.ibm.com (McInnis)
Date: Thu, 8 Aug 1996 10:18:53 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608081518.AA25832@babe01.austin.ibm.com>
Rendered body type: text/plain

> ...
>
> 1. The 45 (or 45XL) has an easier way to connect an external antenna in
> that the unit has a BNC connector for the stock antenna.
>   The 38 would require you to use one of those "special" connectors, if
> it could be done at all...
>

Actually, the GPS 38 doesn't accept an external antenna at all. The "special" external antenna connector that was on the 40 is gone from the 38. (At least, I couldn't find it in the same place when I looked at a 38, and I have also heard it doesn't exist.) I'm rather irritated at Garmin for removing this but...

I suppose you could have an external, active antenna and radiatively couple to the 38 by placing some sort of radiating element on your active antenna output over the 38's receive antenna.

> ...
>
> 73
> Mark
> N4EOC
> Germantown, MD

--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.

---

104. Re: [APRSSIG:3575] Re: Differential GPS

From: Donf@cris.com
Date: Thu, 8 Aug 1996 15:31:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <9608081931.AA07190@galileo.cris.com>
Rendered body type: text/plain

>
> This would be wonderful if we could all have free access to the 10 meter
> accuracy. Is there a station in the Kansas City area already broadcasting the
> subcarrier? If so, what station and frequency??? Perhaps this may be the easy
> answer to our desire to make differential correction available to our entire
> network via our WIDE digipeater!
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com
>
>

Hi Jim, I just started to get the messages form APRS and noticed that there is discussion about Differential GPS. I have always wondered if there was an aprs specification that would allow the transmission of differential GPS corrections? Because the generation of corrections is really quite a simple matter. And we (amateurs) would not have to rely on corrections from other sources, as we could do them ourselves.

Thanks
Donf@cris.com On the air-N1NBO, In the air-N1869X

---

105. javAPRS WEB page

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Aug 1996 16:35:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960808162700.1509A-100000@arctic>
Rendered body type: text/plain

New features. Just added satellite pages from APRtrak. You can now see the positions of the AMSATS and some GEO birds. Not only can you select the usual map display, but also the AZ-EL view from Wash DC. I will probably make multiple cities available. FOr now, dont worry if the SAT positions are not exact, I will update the keps when it is all running fine.

Also if you have had problems linking to our site, SO HAVE WE. The file server has been more down than up these last few days...

```
  http://web.usna.navy.mil/~bruninga/aprs.html
             ^^^^
```

I may have put out an earlier address with nadn instead of usna as shown above...

de wb4apr@amsat.org

---

106. Re: [APRSSIG:3578] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Thu, 08 Aug 1996 13:35:07 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960808123507.0099df18@dgps.com>
Rendered body type: text/plain

Hi Ralph,
I broke down and bought myself an ICOM IC-Z1A. Am now hooked. Will have a DGPS version working soon I hope.

```
At 08:00 AM 8/8/96 -0500, rwf wrote:
>At 12:45 PM 8/7/96 -0500, Ron Haley wrote:
>>Hi,
>>I am President of DCI, the worlds leading supplier of DGPS.
>
>Hi, Ron- glad to see you on the SIG.  You popped in at an appropriate time
>in these discussions.    My little project here in Atlanta is complete, a
>roaring sucess!  It actually saved the day on Sunday Morning's big event,
>when it was used for its intended purpose (helicopter was "IFR on top"),
>motos were amongst downtown buildings.
>
>Hope you're copying more APRS packets up there now and welcome to the SIG.
>
>Ralph Fowler, N4NEQ
>Atlanta, GA
>
>(feeling good because I introduced Ron to APRS)
>
>
>
>WARNING: The remainder of this message has not been transferred.  Click on
the server retrieve icon above and check mail again to get the whole thing.
If the server retrieve icon is not showing, then this message
>
>is no longer on your mail server.
>The estimated size of this message is 89337 bytes.
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

---

107. Re: [APRSSIG:3565] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Thu, 08 Aug 1996 13:46:49 +0100
To: Clifford Buttschardt <cbuttsch@slonet.org>
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960808124649.00980514@dgps.com>
Rendered body type: text/plain

```
Yes it is.  Not much use otherwise.

At 05:04 PM 8/7/96 -0700, Clifford Buttschardt wrote:
>It is not clear if this ten meter service is real time or not.  Is it?
>
>On Wed, 7 Aug 1996, Ronald P. Haley wrote:
>
>> Hi,
>> I am President of DCI, the worlds leading supplier of DGPS.  We currently
>> broadcast over FM subcarrier, and are operating in 11 countries.  I have
>> been toying with the idea of putting the corrections over packet.
>> In the US, we utiliza a wide area network, connected together via frame
>> relay.  We process the data here in Cupertino, CA, and uplink it to Raleigh,
>> where it is then broadcast to our radio stations over Ku utilizing FM
>> squared technology.  We currently broadcast over 160 radio stations in north
>> america, covering approx 1.6 million sq miles.
>>
>> The signal is encrypted, and provided on a subscription basis.  We have 3
>> levels of service, 1,5, and 10 meter.
>>
>> What I have toyed with is broadcasting the 10 meter service free, but
>> charging for the 1 and 5 meter service.  This can be done by scrambling part
>> of the correction, but leaving the rest of it in the clear.  We could
>> provide a small inexpensive connector device which unscrambles the high
>> accuracy bits.
>>
>> What do you thing of this idea.  10 meters is certainly accurate enough for
>> the APRS marketplace.
>>
>>
>>
>> At 10:38 AM 8/7/96 -0500, Gerald J Creager wrote:
>> >ku0g@sprynet.com sez:
>> >>
```

>> >> No, Joe, I don't know the format. That's good info, though, as I've been
>> >> thinking of buying a differential receiver and tying it into the WIDE
>> digi to
>> >> provide DGPS correction to the network! Guess I'll have to get serious
>> now!!!
>> >> When's the Coast Guard going to do this thing?
>> >
>> >W3IWI did this from Goddard SFC a couple of years ago. I've
accomplished the
>> >same thing for Cows In Space, too.
>> >
>> >You have to set the thing up in TRANS mode, I use a pactime AFTER 5, and
then
>> >you decide on the DGPS interval, either 15 or 30 seconds... Anything beyond
>> >that and you've diluted your benefit pretty significantly.
>> >
>> >gerry
>> >
>> >
>> -------------- Worldwide leaders in Real Time DGPS
>> ---------------------------------
>> Ronald P. Haley   PH: +1-408-446-8350
>> President and C.E.O.   Fax: +1-408-446-8383
>> Differential Corrections Inc   E-Mail: ronhaley@dgps.com
>> 10121 Miller Ave   Web: http://www.dgps.com
>> Cupertino, CA 95014
>> ---
>> ----------
>>
>>
>
>
>
>WARNING: The remainder of this message has not been transferred. Click on
the server retrieve icon above and check mail again to get the whole thing.
If the server retrieve icon is not showing, then this message
>
>is no longer on your mail server.
>The estimated size of this message is 49034 bytes.
>
-------------- Worldwide leaders in Real Time DGPS

Ronald P. Haley   PH: +1-408-446-8350
President and C.E.O.   Fax: +1-408-446-8383
Differential Corrections Inc   E-Mail: ronhaley@dgps.com
10121 Miller Ave   Web: http://www.dgps.com
Cupertino, CA 95014

----

108. Re: [APRSSIG:3575] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Thu, 08 Aug 1996 13:57:50 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960808125750.0098087c@dgps.com>
Rendered body type: text/plain

Jim,
Tell me a little about your wide digipeater. Whats nice about our signal is
that it is the same everywhere. What changes it the location of the Virtual
Reference station and the local weather. From whar I see, the weather
doesn,t need to be broadcast, as you seem to have ample access to this.
regards,

At 09:40 PM 8/7/96 -0500, ku0g@sprynet.com wrote:
>This would be wonderful if we could all have free access to the 10 meter
>accuracy. Is there a station in the Kansas City area already broadcasting the
>subcarrier? If so, what station and frequency??? Perhaps this may be the
easy
>answer to our desire to make differential correction available to our entire
>network via our WIDE digipeater!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>

```
>
>WARNING: The remainder of this message has not been transferred.  Click on
the server retrieve icon above and check mail again to get the whole thing.
If the server retrieve icon is not showing, then this message
>
>is no longer on your mail server.
>The estimated size of this message is 66311 bytes.
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

109. Re: [APRSSIG:3575] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Thu, 08 Aug 1996 13:58:53 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960808125853.0099f6c0@dgps.com>
Rendered body type: text/plain

```
Our FM station in KS is KYYS.
At 09:40 PM 8/7/96 -0500, ku0g@sprynet.com wrote:
>This would be wonderful if we could all have free access to the 10 meter
>accuracy.  Is there a station in the Kansas City area already broadcasting the
>subcarrier?  If so, what station and frequency???  Perhaps this may be the
easy
>answer to our desire to make differential correction available to our entire
>network via our WIDE digipeater!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com
>
>
>
>WARNING: The remainder of this message has not been transferred.  Click on
the server retrieve icon above and check mail again to get the whole thing.
If the server retrieve icon is not showing, then this message
>
>is no longer on your mail server.
>The estimated size of this message is 66311 bytes.
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

110. Re: [APRSSIG:3587] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Thu, 08 Aug 1996 14:25:19 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960808132519.009821c8@dgps.com>
Rendered body type: text/plain

```
Don,
You can do it yourself.  You need to purchase a GPS receiver that outputs
RTCM.  Typically $4-6,000.  You also need to survey the antenna correctly.
A  good survey is around $1500-$3,000.
regards,
At 02:41 PM 8/8/96 -0500, Donf@cris.com wrote:
>>
>> This would be wonderful if we could all have free access to the 10 meter
>> accuracy.  Is there a station in the Kansas City area already
broadcasting the
>> subcarrier?  If so, what station and frequency???  Perhaps this may be
the easy
```

```
>> answer to our desire to make differential correction available to our entire
>> network via our WIDE digipeater!
>>
>> Best 73,
>> Jim Duncan, KU0G
>> APRS--Kansas City Coordinator
>> EMail:  ku0g@sprynet.com
>>
>>
>Hi Jim, I just started to get the messages form APRS and noticed that
>there is discussion about Differential GPS.  I have always wondered if
>there was an aprs specification that would allow the transmission of
>differential GPS corrections?  Because the generation of corrections is
>really quite a simple matter.  And we (amateurs) would not have to rely on
>corrections from other sources, as we could do them ourselves.
>
>Thanks
>Donf@cris.com  On the air-N1NBO, In the air-N1869X
>
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                         PH:     +1-408-446-8350
President and C.E.O.                    Fax:    +1-408-446-8383
Differential Corrections Inc            E-Mail: ronhaley@dgps.com
10121 Miller Ave                        Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

111. Re: [APRSSIG:3587] Re: Differential GPS

From: Gumby <rgeer@physio-control.com>
Date: Thu, 8 Aug 96 14:31:03 PDT
To: aprssig@tapr.org, Donf@cris.com
Message-ID: <9608082131.AA18632@physio-control.com>
Rendered body type: text/plain

```
on Thu, 8 Aug 1996, Donf@cris.com wrote
> [snip]
>  Because the generation of corrections is really quite a simple
> matter.  And we (amateurs) would not have to rely on
> corrections from other sources, as we could do them ourselves.
>
>Thanks
>Donf@cris.com  On the air-N1NBO, In the air-N1869X


lets hear more!
how involved is it? I know you need a dedicated GPS, but how are the
corrections encoded for input, broadcast?

Thanks for your time
Gumby
```

112. Re: [APRSSIG:3578] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Thu, 08 Aug 1996 14:40:36 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960808134036.0092a358@dgps.com>
Rendered body type: text/plain

```
Ralph,
Whats the SPRE experiment??

At 08:00 AM 8/8/96 -0500, rwf wrote:
>At 12:45 PM 8/7/96 -0500, Ron Haley wrote:
>>Hi,
>>I am President of DCI, the worlds leading supplier of DGPS.
>
>Hi, Ron- glad to see you on the SIG.  You popped in at an appropriate time
>in these discussions.    My little project here in Atlanta is complete, a
>roaring sucess!  It actually saved the day on Sunday Morning's big event,
>when it was used for its intended purpose (helicopter was "IFR on top"),
>motos were amongst downtown buildings.
>
>Hope you're copying more APRS packets up there now and welcome to the SIG.
>
>Ralph Fowler, N4NEQ
```

```
>Atlanta, GA
>
>(feeling good because I introduced Ron to APRS)
>
>
>
>WARNING: The remainder of this message has not been transferred.  Click on
the server retrieve icon above and check mail again to get the whole thing.
If the server retrieve icon is not showing, then this message
>
>is no longer on your mail server.
>The estimated size of this message is 89337 bytes.
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                         PH:     +1-408-446-8350
President and C.E.O.                    Fax:    +1-408-446-8383
Differential Corrections Inc            E-Mail: ronhaley@dgps.com
10121 Miller Ave                        Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

---

113. Re: [APRSSIG:3580] Re: Formula for distance between points?

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Thu, 08 Aug 1996 17:54:53 -0500
To: aprssig@tapr.org
Message-ID: <199608082259.RAA18096@sparc.isl.net>
Rendered body type: text/plain

```
On a related topic: What is the formula for the last two characters of the
six character grid square?  I've seen umteen references for how to determine
the first four, which, of course, is not a problem unless you are trying to
write a program to do it.  Grid square maps are readily available.  But I
can't find any reference for how to get the last two!

73.
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet:   aa0sm@wd0gnk.#semn.mn.usa.na
```

---

114. Re: [APRSSIG:3593] Re: Differential GPS

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Thu, 8 Aug 1996 15:57:27 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960808154909.275C-100000@willow>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996, Ronald P. Haley wrote:

> Don,
> You can do it yourself.  You need to purchase a GPS receiver that outputs
> RTCM.  Typically $4-6,000.

Why?  Just use any receiver you can dedicate to the job, have Bob
Bruniga write a patch to APRS that does the correction from your
surveyed position and then transmits an APRS correction string that can
be interpreted by APRS at the receiving end.  Of course this means you
now have to use APRS & a computer at the WIDE.

>  You also need to survey the antenna correctly.

Most real repeater mountain sites are already surveyed.

Chris, AA7WD
zoom@willow.sps.mot.com
```

---

115. (no subject)

From: KD4EMI@aol.com
Date: Thu, 8 Aug 1996 19:20:01 -0400
To: aprssig@tapr.org
Message-ID: <960808192000_255343543@emout14.mail.aol.com>
Rendered body type: text/plain

```
Subject: All this talk about differential

When I first started with aprs I thought I just HAD to get a
```

diff gps reciever for my tracker. Now, after about 2 years, I think the
effect has faded a bit.

Dont get me wrong, I think access to higher accuracy GPS fixes is a great
idea, and boater and whoever else wants it should be able to get it.

BUT

For APRS, and strictly aprs, why bother. Do we need 10 meter resolution to
watch someone out on the water, in the air, or driving around town.
No, I dont think so. Perhaps you could argue that other uses of GPS demand
great resolution. I would not disagree. BUT we arent flying planes with APRS,
nor are we surveying land with aprs. Nor are we using it for an anchor alarm.
ITs just for fun and the resolution of 99 feet and sometimes 66 feet is good
enough for that purpose. (for me) Who cares if Im 40 feet off..? In the
maps we have of Fl, it is pretty easy to tell where someone is, and greater
resolution is GENERALLY not needed.
I say, if you want to play, go ahead..but lets keep it in perspective, all
this fuss about higher resolution (AGAIN ONLY FOR APRS) is confusing.

Another issue..and it's one I bring up for the sake of discussion.
IT MAY BE "illegal" to duplicate a service that is already available
commercially. EG DGPS corrections on packet. This can be obtained by CG or
pay services. When I wanted to play wx man, everyone freaked out because it
was DUPLICATING another service that was available. IE the wx stuff. Im not
saying it IS illegal, but individual operators may want to
think about this.

Sure go ahead and flame...But recall this please, This issue is for
discussion not hot headed illogical comments. Try to impress us with your
ability to verbalize intelligently your opinion, and not flame.
Perhaps you may even change my mind, as I am open to the whole thing and only
desire enlightenment.

Mike
KD4EMI@AOL.COM

---

116. APRS 76 f U2000 .01 rain gauge

From: rkramer@cdx.net (Ronald Kramer)
Date: Fri, 09 Aug 1996 00:31:54 GMT
To: aprssig@tapr.org
Message-ID: <320a85bd.25615692@mail.cdx.net>
Rendered body type: text/plain

Hi Bob...
I am running a U2000 with the outside humidity and
the wireless .01 inch rain gauge.
Is it possible to have aprs save to a one line file the
wx as in the P list so that if the power goes out that
the rain and percipitaion readings do not start at zero
when you bring aprs back on line. We had over 1 inch
of rain in an hour yet my aprs said we had zero rain
because we had 4 power outages in that hour
and aprs does not store the rain gauge totals in a file
as it updates.
The U2000 is showing 1.65 inch of rain since 8am today
and aprs is showing R022/P039 since the last power
outage this afternoon.
It shure would be nice to be able to send
out the correct info in situations like this..
tnx in advance de Ron

```
Regards, Ron ...                          73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

117. Re: [APRSSIG:3598] All this talk about differential

From: rkramer@cdx.net (Ronald Kramer)
Date: Fri, 09 Aug 1996 00:41:17 GMT
To: aprssig@tapr.org
Message-ID: <320a884d.26271876@mail.cdx.net>
Rendered body type: text/plain

On Thu, 8 Aug 1996 18:27:50 -0500 (CDT), you wrote:

>ITs just for fun and the resolution of 99 feet and sometimes 66 feet is good
>enough for that purpose. (for me) Who cares if Im 40 feet off..? In the
>maps we have of Fl, it is pretty easy to tell where someone is, and greater

>resolution is GENERALLY not needed.

All nice but If I remember correctly with SA turned on it's +/- 150
meters, that's +'- 450 feet not 99 feet, there is quite a bit of
difference. Also the garmin 45 says accuracy with SA off
is +/-15 meter's that about +/- 50 ft accuracy......
boy I would be glad with your accuracy of 99 or 66 ft
accuracy.........

```
Regards, Ron ...                           73 de Ron
         Internet: rkramer@cdx.net (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

118. Re: [APRSSIG:3598] All this talk about differential

From: William Neal <wmn3@dfw.net>
Date: Thu, 08 Aug 1996 18:57:52 -0700
To: aprssig@tapr.org
Cc: 4frsar@airmail.net
Message-ID: <320A9B20.1FE1@dfw.net>
Rendered body type: text/plain

KD4EMI@aol.com wrote:
>
> When I first started with aprs I thought I just HAD to get a
> diff gps reciever for my tracker. Now, after about 2 years, I think the
> effect has faded a bit.
>
> Dont get me wrong, I think access to higher accuracy GPS fixes is a great
> idea, and boater and whoever else wants it should be able to get it.
>
> BUT
>
> For APRS, and strictly aprs, why bother. Do we need 10 meter resolution to
> watch someone out on the water, in the air, or driving around town.
> No, I dont think so. Perhaps you could argue that other uses of GPS demand--snip!
> I say, if you want to play, go ahead..but lets keep it in perspective, all
> this fuss about higher resolution (AGAIN ONLY FOR APRS) is confusing.
> Yes, generally speaking we don't need it. However, if you are doing Search and Rescue
in the Amateur Service, it is VERY important to know where "things" are located. The
Probablility Of Detection or POD is a mathimatical formula used by professional SAR
teams when searching for a person or object. If we have abso-darned-lutely good
location info on just where the SAR team members WERE when searching, then the
management portion of the SAR team can plot where the next team of searchers should pay
special attention. In other words, the probibility of detection is increased
tremendously!

> Another issue..and it's one I bring up for the sake of discussion.
> IT MAY BE "illegal" to duplicate a service that is already available
> commercially. EG DGPS corrections on packet. This can be obtained by CG or
> pay services. When I wanted to play wx man, everyone freaked out because it--snip!
>
> Mike
> KD4EMI@AOL.COM

Mike has an interesting point. Is it illegal, or in a grey area? I for one would LOVE
to find out from a commercial source, the costs of using this service for a non-profit
(as defined in IRS reg's) SAR organization, AND the coverage area of that service.

Emergencies just don't happen in the local area all the time, and it's possible that a
SAR team could be sent outside their "hometown" area where the error correction "node"
is located. The only way, at the present time, I can see getting corrections, is thru a
commercial service. Can anyone add to my statement?
--
Cheers, Bill Neal - N0NSA
http://www.dfw.net/~wmn3/

---

119. RE: [APRSSIG:3570] USGS Map Makin

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Fri, 9 Aug 96 00:07:43 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608090013210663@msn.com>
Rendered body type: text/plain

No extract.exe is not required for downloaded map data. Just unzip.
there is a bug in version 2a. work around is to use a 6 character
file name. good luck Jack, KB4XF

---

120. RE: [APRSSIG:3571] Formula for distance between points?

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Fri, 9 Aug 96 00:12:45 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608090013230827@msn.com>
Rendered body type: text/plain

```
Formula will be found in any spherical trigonometry textbook or
handbook of mathematical formulas.   The formaula you want is called
the law of cosines.  it can be coded in one line if you just want just
distance.
if you want an azimuth bearing, it gets tricky as you have to use law of sines

too and figure out what quadrant is the real one. GL
```

---

121. Re: [APRSSIG:3591] Re: Differential GPS

From: ku0g@sprynet.com
Date: Thu, 8 Aug 1996 17:20:03 -0700
To: aprssig@tapr.org
Message-ID: <199608090020.RAA11054@m1.sprynet.com>
Rendered body type: text/plain

```
Our digipeater in KC is located in just about the center of the city (72nd and
Troost Ave.).  We also have one located in St. Joseph, Mo. and Graham, Mo.  All
are at least up 200 feet and run at least 25 watts.  I don't quite understand
how we could bring DC into the mix, but would really like to talk to you about
it!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

122. Re: [APRSSIG:3592] Re: Differential GPS

From: ku0g@sprynet.com
Date: Thu, 8 Aug 1996 17:22:03 -0700
To: aprssig@tapr.org
Message-ID: <199608090022.RAA11403@m1.sprynet.com>
Rendered body type: text/plain

```
KYYS is BKA KY-102 in Kansas City. Classic Rock station, been around a
LOOOOOOOOoooooooooooooooooooooonnnnnnnnnnnnnnng
time!  Our digi is about 4 miles from their tower.  Should be an easy hit.  Also
believe that 102.1 is good on north to both of our sites in STJ and
Graham....Now:  How do we make this work?  We're willing to be the test-bed for
what you propose!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

123. Re: GPS Week Rollover: A Problem?

From: jimk@on-ramp.net
Date: Thu, 8 Aug 1996 21:31:06 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608090131.VAA16127@mail.ee.net>
Rendered body type: text/plain

```
On Wed, 7 Aug 1996, gerry@cs.tamu.edu wrote:

>Date: Wed, 7 Aug 1996 10:56:26 -0500 (CDT)
>From: Gerald J Creager <gerry@cs.tamu.edu>
>To: aprssig@tapr.org
>Subject: Re: GPS Week Rollover: A Problem?
>Message-ID: <199608071556.KAA18340@vanilla.cs.tamu.edu>

>If memory serves, W3IWI fooled his PVT-6 grade receiver into thinking it was
>clicking over at the millineum, and it performed to spec.  GPS World's also
>encouraged the various receiver manufacturers to write them with details of
>how their various hardware will respond.

>73, gerry

Its funny that this subject should come up at this point since I just had my
PVT-6 tested on our $100,000 GPS simulator at work last week. For what its
worth, my unit DID roll over correctly as expected. We even it got it to come
back to its senses for the correct date & time, for that particular day in time,
without any ill effects. To this day, its still working fine.
```

```
----------------------------------------------------------------------------
|  73, de Jim (KG8GE) |  jimk@on-ramp.net        |  Home of PLT2MAP, MAP2DXF |
|                     |  KG8GE@WN7C.NCOH.OH.USA  |         and DXF2MAP       |
----------------------------------------------------------------------------
```

124. RE: [APRSSIG:3597] Re: Differential GPS

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 8 Aug 1996 20:37:01 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960809013701Z-1944@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
Chris Terwilliger wrote:
>
>> On Thu, 8 Aug 1996, Ronald P. Haley wrote:
>>
>> > Don,
>> You can do it yourself.  You need to purchase a GPS receiver that outputs
>> RTCM.  Typically $4-6,000.
>>
>> Why?  Just use any receiver you can dedicate to the job, have Bob
>> Bruniga write a patch to APRS that does the correction from your
>> surveyed position and then transmits an APRS correction string that can
>> be interpreted by APRS at the receiving end.  Of course this means you
>> now have to use APRS & a computer at the WIDE.
>>

Because the difference between surveyed and GPS-derived positions
 in general *will not be the same* for the two receivers.  Sorry; DGPS
isn't that simple at all.

73 de KB9JTT

>
```

125. Re: [APRSSIG:3595] Re: Differential GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Aug 1996 22:51:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960808224953.11488C-100000@arctic>
Rendered body type: text/plain

```
Just use APRSdos to replay the SPRE file and you will see 66 stations that
digipeated theeir positions via the STS-74 shuttle mission.  37 were
successful on the STS-78 mission.  Hopefully all SAREX missions will
support APRS positions reporting on future flights..  ALso there are a
handful of amateur satellites that can be used TODAY for mobile satelite
positions reporting!

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

126. Re: [APRSSIG:3597] Re: Differential GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Aug 1996 22:55:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960808225258.11488D-100000@arctic>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996, Chris Terwilliger wrote:

> > You can do it yourself.  You need to purchase a GPS receiver that outputs
> > RTCM.  Typically $4-6,000.
>
> Why?  Just use any receiver you can dedicate to the job, have Bob
> Bruniga write a patch to APRS that does the correction from your
> surveyed position and then transmits an APRS correction string that can
> be interpreted by APRS at the receiving end.

APRSdos REPLY/COMMENT:  This Pseudo Differnetial is built into APRS for
the last year.  But it is only of value if your mobiles and your base
station GPS units are locked onto EXACLTY the same satellites.  Back when
there were only 3 visible most of the time, that worked.  Now with 8 in
view and 12 channel receivers, its not worth the trouble..

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

127. Re: [APRSSIG:3599] APRS 76 f U2000 .01 rain gauge

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 8 Aug 1996 22:58:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960808225707.11488F-100000@arctic>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996, Ronald Kramer wrote:

> Is it possible to have aprs save to a one line file the
> wx as in the P list so that if the power goes out that
> the rain and percipitaion readings do not start at zero
> when you bring aprs back on line. We had over 1 inch

APRSdos REPLY/COMMENT:  How often do you want to cycle your hard drive?
WOuld once an hour be sufficient.  THen you are never more than 1 hour off
your true rain count?

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

128. Re: [APRSSIG:3600] Re: All this talk about differential

From: KD4EMI@aol.com
Date: Thu, 8 Aug 1996 23:02:47 -0400
To: aprssig@tapr.org
Message-ID: <960808230246_255495598@emout19.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-08-08 20:41:35 EDT, you write:

>
>All nice but If I remember correctly with SA turned on it's +/- 150
>meters, that's +'- 450 feet not 99 feet, there is quite a bit of
>difference. Also the garmin 45 says accuracy with SA off
>is +/-15 meter's that about +/- 50 ft accuracy......
>boy I would be glad with your accuracy of 99 or 66 ft
>accuracy.........

I am only telling you what my garmin 45 says the accuracy is..
Is this number incorrect ?

I think that with SA turned on it CAN BE as much as 150 Meters + / -
but typically here the Garmin says 99 feet and sometimes it has reported
66 feet.

Mike
```

---

129. Saving Mscat format/cfg?

From: "Peter Markham" <pmarkham@sun.lssu.edu>
Date: Fri, 9 Aug 1996 00:01:20 -0400
To: aprssig@tapr.org
Message-ID: <199608090401.AAA05609@sun.lssu.edu>
Rendered body type: text/plain

```
I cannot save the Mscat format configuration I am playing with.
When I boot that configuration, it comes up in space mode.
Is Mscatt suppose to save? Any ideas? I am running version 7.6f.

                                             TIA,
                                                   Pete/wa4hei
```

---

130. EAST APRS 2M Meteor QSO, anyone?

From: "Peter Markham" <pmarkham@sun.lssu.edu>
Date: Fri, 9 Aug 1996 00:08:35 -0400
To: aprssig@tapr.org
Message-ID: <199608090408.AAA05618@sun.lssu.edu>
Rendered body type: text/plain

```
As the nearest active VHF APRS activity is well over 100 air
miles from me, I have chosen to aim my recently constructed
crossed yagi at the sky at an elevation of 45 degrees and a bearing
of 110 degrees, from the central North shore of Lake Michigan.
I wannabe part of the first? APRS qso. Anyone else wannabe?
Read meteor.txt in the latest docs for details.

  My absence from hf is temporary. Currently working on a remote
hf project, which, if it happens as I envision, will put an hf gate
dx catcher on 10.151.  The plan: A 296' dipole at 270' above the top
of the highest local hill. Model that scenario for hf dx! When the
```

```
remote is not being used for other things, it will function as a
gate/digi.

                           Here's Dreaming,
                                                        Pete
```

131. MKMAPKKE, CONV.EXE, etc. bugs...

From: ku0g@sprynet.com
Date: Thu, 8 Aug 1996 21:15:01 -0700
To: aprssig@tapr.org
Message-ID: <199608090415.VAA05735@m1.sprynet.com>
Rendered body type: text/plain

```
Can anyone explain to me why the conversion program and the two big automatic
map-makers seem to ignore level 3, 4, 5, 9 and 10 in the RDF files from the 100K
CD-ROM?  It's a real pain to have to manually go in and put in major streets
(non-highway) and county roads.

Hey Ken and others, can we take a SERIOUS look at this?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

132. Re: [APRSSIG:3611] Re: All this talk about differential

From: ku0g@sprynet.com
Date: Thu, 8 Aug 1996 21:51:02 -0700
To: aprssig@tapr.org
Message-ID: <199608090451.VAA13038@m1.sprynet.com>
Rendered body type: text/plain

```
Best I've seen is 54 feet and that was right around the middle of May this year.
 Most of the time I see something in the 66 to 80 range here...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

133. Re: [APRSSIG:3613] EAST APRS 2M Meteor QSO, anyone?

From: "David Michael Gaytko //\\//\\ WD4KPD/fm15mm" <cn2859@coastalnet.com>
Date: Fri, 09 Aug 1996 08:44:20 +0000
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960809084420.006696d8@abaco.coastalnet.com>
Rendered body type: text/plain

```
At 23:19 08-08-96 -0500, you wrote:
>
>    As the nearest active VHF APRS activity is well over 100 air
>miles from me, I have chosen to aim my recently constructed
>crossed yagi at the sky at an elevation of 45 degrees and a bearing
>of 110 degrees, from the central North shore of Lake Michigan.
>I wannabe part of the first? APRS qso. Anyone else wannabe?
>Read meteor.txt in the latest docs for details.
>
>  My absence from hf is temporary. Currently working on a remote
>hf project, which, if it happens as I envision, will put an hf gate
>dx catcher on 10.151.  The plan: A 296' dipole at 270' above the top
>of the highest local hill. Model that scenario for hf dx! When the
>remote is not being used for other things, it will function as a
>gate/digi.
>
>                           Here's Dreaming,
>                                                        Pete
>
============================================================================
==================================

well dont aim it that high.....2 maby 3 or so would be fine

i would like to do it and can use aprs @ 2400baud if you like

there is a better program for one on one's......by i2ksk....you can get it
via ftp.funet.fi and others
its called mspaket i think....i think this would work better, and it has
some docs in it about data modes and meteor scatter.
```

can run either...will be in the aprs ms test also on 6 & 2m one day of each

get back to me with your preferences

73's....david

__ ..   .   . __ __   __ ..   ...__   __ . __   . __ __ .   __ . .

all men are created equal....with the need for each other

nnnn

134. GPS mobile

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 09 Aug 1996 07:16:56 -0400
To: aprssig@tapr.org
Message-ID: <320B1E27.2DD@co.pinellas.fl.us>
Rendered body type: text/plain

Look for KD4UYR-9 to be travelling GPS mobile through FL, GA, NC, VA,
and TN between Aug 11 and Aug 19...hope to make lots of contacts.
Equipment will be KAM TNC, Kenwood TS50 HF rig, ICOM 27A VHF rig, and
Datavue 8086 portable computer with Magellan Meridian and HSP switch.

Will have full message capability. Have tent, will travel!

73
--
```
***********************************************************************
From:  Kevin Heyboer            E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call:  KD4UYR     Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
***********************************************************************
```

135. APRS MS Test This Weekend!

From: stanzepa@usa.nai.net (stan horzepa)
Date: Fri, 9 Aug 1996 07:40:37 -0400
To: aprssig@tapr.org
Message-ID: <v01540b00ae30d3a14fd3@[206.98.48.209]>
Rendered body type: text/plain

One last reminder... this weekend is our second annual APRS meteor scatter
test and car wash.

If you missed the original announcement, email me and I will email you back
with the details.

Stan "the Soap Man" Horzepa, WA1LOU

136. Icom 2700H Set Up for APRS

From: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Date: 09 Aug 1996 11:40:18 Z
To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested) (Receipt notification requested)
Message-ID: <05AA8320B23A2007*/c=us/admd=attmail/prmd=gov+usace/o=SAS02/ou=CESAS-EN-GG/s=Smith/g=Cardwell/i=H/@MHS>
Rendered body type: text/plain

Hello,

I am trying to set up my Icom 2700H mobile to use with APRS by using
one of the MFJ TNC/Mic switches. The 2700H microphone has the
"modular" type plug. The problem I'm having is getting the audio
through the MFJ switch. I can get PTT working but no audio.

If anyone else has done this I would sure like to hear from you.

Thanks,

Cardwell Smith, N4FOR

137. Beep turnoff?

From: "Peter Markham" <pmarkham@sun.lssu.edu>
Date: Fri, 9 Aug 1996 09:23:57 -0400
To: aprssig@tapr.org
Message-ID: <199608091324.JAA06266@sun.lssu.edu>
Rendered body type: text/plain

```
I have recently switched to Windows 95 and have discovered a
woe of  cpu resource sharing. With APRS 7.6f, Mscat format, running
in the background, what is normally a .25 second blip is now a 15 second
aggravating monotone. Toggling the beeps on or off  makes no difference.

  Short of  keeping the program on screen or assigning more time than
it needs (assuming that is possible), is there a more reasonable
solution than suicide?

                                    Pete/wa4hei
```

---

138. APRS position reporting SATS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Aug 1996 09:29:11 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.GSO.3.94.960809090256.26238A-100000@arctic>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996, Ron Haley wrote something like this:

> I ran the SAREX/SPRE satellite APRS replay.  Neat!  What does it take to
> communicate via these satellites.

APRSdos REPLY/COMMENT: There are at least 5 amateur satellites that I can
think of that have are currently capable of relaying APRS position
reports.  They come over about 6 times a day each.  This could give a ham
on remote travels as many as 30 reporting opportunities a day if he was
lucky.  For the PACSATS (3 of them) you need a special $250 TNC to
transmit and receive.  BUT!!!  to just TRANSMIT your position, you only
need to XOR the packet from a conventional TNC with its 1200 HZ clock!
and feed that to the MIC connector on any 2m FM radio!  Total cost about
$2 maybe... (still waiting for someone to show us where to hook it up)

Since we now have javAPRS that allows anyone with a web brrouser to
see APRS position maps LIVE, it is trivial to have a link to a web
page that is monitoring the PACSATS.  Then everyone can track the
mobile without needing a special satellite modem for receive.  Our
javAPRS web page (still under development and down as much as it is
up...) already displays several live nets:
    VHF APRS (145.79 in the mid atlantic states)
    HF  APRS (10.151 LSB nationwide)
    ACADEMY  (Locations of USNA boats along atlantic (HF))
    AMSATS   (current locations of AMSATS)
    ACARS    (Positions of commercial aircraft monitored on 131.55 MHz)

I guess since I have a spare satellite modem I could set up the APRS
satellite monitoring station for the East coast.  We would need one for
the central and west USA too, plus other countries.  These web sites would
then be able to display the locations of any GPS mobiles within their
footprints.

Typical applications, would be tracking HAM expeditions, HAMS at sea, or
just about any epic journeys where amateur radio plays an important
role...  THere are lots!

Even without the $2 standard TNC mod, anyone with a PACSAT modem could be
on the air today to begin experimenting with this exciting capability!
I would begin the receive site tomorrow, but every antenna for my lab has
been temporarily removed while they re-do the roof (a 3 month project).

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

139. Re: [APRSSIG:3613] EAST APRS 2M Meteor QSO, anyone?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Aug 1996 09:31:21 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960809093007.26238B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996, Peter Markham wrote:

>     As the nearest active VHF APRS activity is well over 100 air
> miles from me, I have chosen to aim my recently constructed
> crossed yagi at the sky at an elevation of 45 degrees and a bearing
> of 110 degrees, from the central North shore of Lake Michigan.

APRSdos REPLY/COMMENT:  Probably 30 degrees or less would be better.  Your
antenna will see a larger volume of meteors at a lower angle...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

140. Re: [APRSSIG:3612] Saving Mscat format/cfg?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Aug 1996 09:42:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960809093218.26238D-100000@arctic>
Rendered body type: text/plain

```
On Thu, 8 Aug 1996, Peter Markham wrote:

>   I cannot save the Mscat format configuration I am playing with.
> When I boot that configuration, it comes up in space mode.
> Is Mscatt suppose to save? Any ideas? I am running version 7.6f.

APRSdos REPLY/COMMENT: I did get a chance to play with Mscat mode the
other night, and noticed a lot of inconsistencies too that need to be
fixed.  No time, and im on travel..  So lemme summarize what I think I
learned:

 1) Put APRS in Mscatt mode  (i donno about the report above)
 2) Be sure to set digi to none (may have to use OCT screen direct)
 3) set your alt-BCN to something very short...

Confirm that it is working by monitroing with another TNC if possible.

Good luck!  WIsh I was going to be here...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

141. New APRS digi!

From: Joseph Agrelo <jagrelo@cris.com>
Date: Fri, 09 Aug 1996 10:37:51 -0700
To: aprssig@tapr.org
Message-ID: <320B776F.15F8@concentric.net>
Rendered body type: text/plain

```
To all,

We are in the works of installing a new APRS digi on 145.790 in
Schenectady, NY (close to Albany). Are there any other APRS digis near
by?

WB4APR, do you have a node list?

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler and talking products
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

142. WinAPRS Replay?

From: jra@febo.com
Date: Fri, 9 Aug 1996 10:54:01 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608091454.KAA26446@ag9v.ampr.org>
Rendered body type: text/plain

```
I'm trying to replay an APRS .HST file in WinAPRS, and don't have a clue how
to make it work.
```

I have tried putting the file in the winaprs directory, as well as in an "hsts" subdirectory (as in dos APRS), but when I click on the "Replay Tracks" command, all that I get is a short beep.

Is the file naming, format, and/or location different for WinAPRS? What do I need to do to replay my tracks?

Thanks for any help.

John
--
John Ackermann   AG9V
Internet: jra@febo.com
Packet: AG9V@N8ACV.#DAY.OH.USA

---

143. Re: [APRSSIG:3576] Re: GPS Week Rollover: A Problem?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 9 Aug 1996 10:48:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608091548.KAA15524@solar.cs.tamu.edu>
Rendered body type: text/plain

Robert Winingham sez:

>
> Claude said:
> > At midnight, August 21/22, 1999, the week count will reach the 1024 maximum
> Gerald said:
> >clicking over at the millineum, and it performed to spec. GPS World's also...
> ----
>
> Oh where is Tom Clock and his Totally Accurate Clark when you need him ?? :-)
>
> Year   EVENT
> ----- -------
> 1999   GPS clock rollover -- August 21/22, 1999
> 2000   Computer software might have problems with the 00 -- Jan 1 2000
> 2001   The new millennium starts Jan 1 2001
>
> The next century will also start on Jan 1 2001 , but we in the USA are not
> 15th in the world in Math and Science for nothing.

Robert's point is well taken... And he's right about the new millenium starting 1 Jan 2001... (sheepish grin)

The problem is, did the GPS geeks at DoD recall this as trivialists or did they apply standard engineering llgic to the problem and the rollover date *will* be 1 Jan 2000?

Gerry

---

144. snabkey@wings.net

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Aug 1996 12:10:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960809120859.13347D-100000@arctic>
Rendered body type: text/plain

Whoever has teh above mail address, my mailer is unable to reply. So my reply about javAPRS wont readh you...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

145. Re: [APRSSIG:3624] New APRS digi!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Aug 1996 12:16:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.94.960809121429.13347E-100000@arctic>
Rendered body type: text/plain

On Fri, 9 Aug 1996, Joseph Agrelo wrote:

> We are in the works of installing a new APRS digi on 145.790 in
> Schenectady, NY (close to Albany). Are there any other APRS digis near
> WB4APR, do you have a node list?

APRSdos REPLY/COMMENT: The file DIGI-E.BK has every known APRS digi in the north east. I keep it up-to-date in every APRS version. Problem is, many people may not be reproting to me the locations of permanent digis. You may Load the .BK file, or REPLAY it...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

146. (no subject)

From: UXZX97A@prodigy.com (ALFRED B CHAN)
Date: Fri, 9 Aug 1996 12:05:41, -0500
To: aprssig@tapr.org
Message-ID: <199608091605.MAA21438@mime2.prodigy.com>
Rendered body type: text/plain

-- [From: AL * EMC.Ver #2.10P] --

unsubscribe

---

147. Re: [APRSSIG:3597] Re: Differential GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 9 Aug 1996 11:18:30 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608091618.LAA15940@solar.cs.tamu.edu>
Rendered body type: text/plain

Chris Terwilliger sez:

>
> On Thu, 8 Aug 1996, Ronald P. Haley wrote:
>
> > Don,
> > You can do it yourself. You need to purchase a GPS receiver that outputs
> > RTCM. Typically $4-6,000.
>
> Why? Just use any receiver you can dedicate to the job, have Bob
> Bruniga write a patch to APRS that does the correction from your
> surveyed position and then transmits an APRS correction string that can
> be interpreted by APRS at the receiving end. Of course this means you
> now have to use APRS & a computer at the WIDE.
>
> > You also need to survey the antenna correctly.
>
> Most real repeater mountain sites are already surveyed.

Er, ah... I guess I'll wade back into this.

Ron's comments are on-track, if a little optimistic concerning costs. Our DGPS base station receiver is on the order of $10k, and our survey-grade receivers, $24-44k.

While getting all the data from a $300 Motorols or $400 Trimble OEM GPS receiver engine is straightforward, I've spend a lot of programming time trying to format it properly and have come up short. Still trying, but I suspect it cannot be done in either QuickBasic (which is the mother of APRS) or VisualBasic.

The essential problem here is that
1) RTCM corrections are not ASCII, but binary.
2) RTCM words are 30 bits, bitstuffed as 24 data bits with arbitrary boundaries, and with 6 bits of "checksum" which are not standard checksum data.

The "surveys" available for most repeater sites are not good to the meter level. That's a minimum definition for the base station precision and accuracy, or you're just not doing it right.

DCI (and Ron) do this for a living. Me? I just do it for research, which is *MY* living. Resolution of the corrections is not really trivial. More's the pity.

Now. To expand a bit onwhat I *THINK* you're thinking: If you have a high accuracy survey of the receiver antenna position, you can attempt to "correct" differentially by having APRS ship and process a position "delta." This will work fairly well within a smal area around the base station if you have the following:

1) All receivers, both base and rovers, are of the same receiver design
2) All receivers use the same algorithms and constants for pseudorange estimates
3) timing of corrections is tightly controlled and the corrections are calculated based on the received epocha nd the corrections epoch matching...

doesn't do much good to correct something with a correction that is different
from your basic determinant epoch
4) The receivers are all in the same immediate area, and have appropimately
the same pseudorange and geometry
5) (THE KICKER) All receivers *MUST* be using the same satellites

RTCM corrections are a more general solution, as they incorporate pseudorange
and pseudorange rate corrections to all satellites the base can receive.

If all 5 of the above conditions are met, and "corrections data" are
transmitted at least every 5 seconds, I'd be able to hope for (not expect)
about a 10-15 meter ellipsoid of error.

73, gerry

---

148. Re: [APRSSIG:3600] Re: All this talk about differential

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 9 Aug 1996 11:21:24 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608091621.LAA15963@solar.cs.tamu.edu>
Rendered body type: text/plain

Ronald Kramer sez:
>
> All nice but If I remember correctly with SA turned on it's +/- 150
> meters, that's +'- 450 feet not 99 feet, there is quite a bit of
> difference. Also the garmin 45 says accuracy with SA off
> is +/-15 meter's that about +/- 50 ft accuracy......
> boy I would be glad with your accuracy of 99 or 66 ft
> accuracy.........

With SA on, it's +/- 95 meters 2drms 95th percentile.

Or, it's about 71 +/-24 meters 95 percent of the time and somewhere in a 1AU
radius of the Sun 5% or less of the time :-)

---

149. Re: [APRSSIG:3615] Re: All this talk about differential

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 9 Aug 1996 11:34:54 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608091634.LAA16124@solar.cs.tamu.edu>
Rendered body type: text/plain

ku0g@sprynet.com sez:
>
> Best I've seen is 54 feet and that was right around the middle of May this year.
> Most of the time I see something in the 66 to 80 range here...

Actually, I've resolved the error to less than 3 meters several time in the
early summer, using a Trimble SV6 evaluation board with carrier phase
smoothing turned on. My PVT-6 has been documented in that range, or better,
for autonomous position determination repeatedly, when compared to
well-surveyed sites her at Texas A&M University. Also, last summer, when SA
was still cranked up, I was able to colocate with a survey GPS and collect
data for a period of 22 minutes, and resolved the horizintal error to <1.5
meters, and vertical error to < 2.3 meters, using some code that collected all
points ona 1 second update rate, and kept all with a PDOP < 4 and at least 5
satellites in the solution.

SA has not been necessarily turned off, but its effects apparently have been
minimized, based soley on some of the data I've seen since about 15 March
1996. I've also seen, however, short periods of significant, apparently
SA-related degradation when certain satellites are over the White Sands Test
Area. I suspect some anti-spoofing/anti-jamming research is in progress, but
have no (legitimate) mechanism of ascertaining such.

Gerry

---

150. Map Making

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 09 Aug 96 12:51:50 EDT
To: <aprssig@tapr.org>
Message-ID: <960809165150_71301.3106_FHJ61-1@CompuServe.COM>
Rendered body type: text/plain

Jim said:

> Can anyone explain to me why the conversion program and the two big automatic

> map-makers seem to ignore level 3, 4, 5, 9 and 10 in the RDF files from the
100K
> CD-ROM? It's a real pain to have to manually go in and put in major streets
> (non-highway) and county roads.

What do you mean by "level 3, 4, 5, 9 and 10"? Do you mean *class* 3, 4, 5, etc., or *subtype* 0203, 0204, 0205, 0209, and 0210?

Two factors may be at work here. One is that the map makers ('cept MacMapMaker) are oriented towards DOS APRS, and consequently are hugely concerned with data volume and have set some arbitrary cutoff point. The other is that I've found the 100K DLG data to be extremely inconsistent in assigning class levels. A "class 3" road can be anything from a major - but unnumbered - metro artery to a dirt path in a residental development somewhere out in the sticks to not being used at all in a quadrant's dataset. This is immensely frustrating.

This severe inconsistency may mean that a test set used during a particular program's development may not have had the same feature subtyping relationships as the map sets you're working with. I've worked with maps from five different areas so far, and am finding new things with each one. It's going to be impossible to test with every possible DLG file.

In MacDLG, I've had to rely a lot on route numbering subtypes to identify major routes, and even that is flaky. Identifying class 3 roads has helped, but unfortunately DOS APRS doesn't provide for a tertiary road class; it's Interstates, US highways, state routes... and then everything else... oops. But such is life with only 15 possible line feature distinctions.

You've given me some food for thought, though, for Mac/Win maps. I might be able to very quickly program a distinction for class three routes, by making class 3 routes show-up as regular gray, and then class 4 or less becomes light gray. I already have a request for class 5 roads (trails) in the mill.
  ...mike/N0QBF

---

151. Duplication of service?

From: PCE Enterprises <pce@infobahn.icubed.com>
Date: Fri, 9 Aug 1996 13:48:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.OSF.3.91.960809133802.28520B-100000@infobahn.icubed.com>
Rendered body type: text/plain

On Thu, 8 Aug 1996, William Neal wrote:

> KD4EMI@aol.com wrote:

> > Another issue..and it's one I bring up for the sake of discussion.
> > IT MAY BE "illegal" to duplicate a service that is already available
> > commercially.

> Mike has an interesting point. Is it illegal, or in a grey area?

Neither illegal nor gray. If duplicating a commercial service was illegal, then most of the activities we do would be illegal. Talk on the air? Duplicating the telephone. In the car? Cellular. SSTV? Send a fax.

I think that the confusion is in the prohibition of retransmitting commercial services. Taking the 10 meter data and directly resending it on 2m is probably illegal, but using the output of your own GPS receiver (which is creating the data) would not be.

Some free advice.. but remember you get what you pay for! (Just don't ask the FCC if it's legal. They'll probably say no, and then it IS illegal. It's better to just do it and ask forgiveness later if they do decide it's illegal.)

---

152. Re: [APRSSIG:3630] Re: Differential GPS

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Fri, 9 Aug 1996 11:37:36 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960809112654.1280A-100000@willow>
Rendered body type: text/plain

On Fri, 9 Aug 1996, Gerald J Creager wrote:
>
> Now. To expand a bit onwhat I *THINK* you're thinking: If you have a high
> accuracy survey of the receiver antenna position, you can attempt to "correct"
> differentially by having APRS ship and process a position "delta." This will
> work fairly well within a smal area around the base station if you have the

> following:

Actually, I had two thought processes going at the same time and they got
melded during typing...

I think Bob has already tried the above method and it suffers from the
things you point out here.

The better solution is to find a way to code or encapsulate the RTCM
binary data and use the digipeater to transmit it to the users. Then
APRS (or other software) can decode it and send it on to the GPS. I see
you have been working on the coding, there must be a way...Is the RTCM a
contant stream or could it be broken up into packets?

Chris, AA7WD
zoom@willow.sps.mot.com

---

153. RE: [APRSSIG:3614] MKMAPKKE, CONV.EXE, etc. bugs...

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Fri, 9 Aug 96 20:20:28 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608092022430033@msn.com>
Rendered body type: text/plain

Jim, I am author of mk100k and don't understand question. the rdf files on
cd only go to level 5 (jeep trails and uniproved dirt roads) Everything to
level
4 available on ver 2a if radius small enough - 4 mi or less. Ver 3 lets u get
everything off CD if you wish.
u may be talking about the "other" CD issued by state or FTP files. If that
the case, I am just not familiar with structure of those files. 73 Jack,
KB4XF

---

154. FW: [APRSSIG:3635] Re: Differential GPS

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 9 Aug 1996 16:39:25 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB8611.54682CE0@gwyn.paccomm.com>
Rendered body type: text/plain

Chris, AA7WD
zoom@willow.sps.mot.com
said:

>The better solution is to find a way to code or encapsulate the RTCM
>binary data and use the digipeater to transmit it to the users. Then
>APRS (or other software) can decode it and send it on to the GPS. I see
>you have been working on the coding, there must be a way...Is the RTCM a
>contant stream or could it be broken up into packets?

Sending the RTCM-104 data is no problem. Just broadcast it as UI frames to APRS TNCs.

The problem is in generating low cost RTCM-104 data.

---

155. Re: [APRSSIG:3624] New APRS digi!

From: Al and/or Lorie Zelna <ldajz@epix.net>
Date: Fri, 09 Aug 1996 16:52:18 +0000
To: aprssig@tapr.org
Message-ID: <320B6CC2.73FA@epix.net>
Rendered body type: text/plain

I guess that "close" is a relative term. I would be interested to know
if K3CSG-5 can be heard DIRECT. This APRS digi is located in Scranton,
PA (Lackawanna Co.)

Please reply directly to ldajz@epix.net

Tnx es 73

AL Z.

---

156. Re: [APRSSIG:3635] Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Fri, 09 Aug 1996 15:16:59 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960809141659.0099af20@dgps.com>
Rendered body type: text/plain

DGPS basically is a packet. There are two main types of message types,
namely type 1 and 9. Type 1 contains a header and a record for each visible
satellite. Type 9 contains a header and data for a smaller number of
satellites.
GPS receivers treat them differently, but I don't want to go into this here.
Basically its a binary stream of data, and as long as the RTCM data that
goes into the TNC is reproduced faithfully at the other end, you have an
RTCM message.
The header info added by APRS should be dropped by the GPS receiver, however
some don't do this well.

At 01:49 PM 8/9/96 -0500, Chris Terwilliger wrote:
>On Fri, 9 Aug 1996, Gerald J Creager wrote:
>>
>> Now. To expand a bit onwhat I *THINK* you're thinking: If you have a high
>> accuracy survey of the receiver antenna position, you can attempt to
"correct"
>> differentially by having APRS ship and process a position "delta." This will
>> work fairly well within a smal area around the base station if you have the
>> following:
>
>Actually, I had two thought processes going at the same time and they got
>melded during typing...
>
>I think Bob has already tried the above method and it suffers from the
>things you point out here.
>
>The better solution is to find a way to code or encapsulate the RTCM
>binary data and use the digipeater to transmit it to the users. Then
>APRS (or other software) can decode it and send it on to the GPS. I see
>you have been working on the coding, there must be a way...Is the RTCM a
>contant stream or could it be broken up into packets?
>
>Chris, AA7WD
>zoom@willow.sps.mot.com
>
>
-------------- Worldwide leaders in Real Time DGPS

Ronald P. Haley   PH: +1-408-446-8350
President and C.E.O.   Fax: +1-408-446-8383
Differential Corrections Inc   E-Mail: ronhaley@dgps.com
10121 Miller Ave   Web: http://www.dgps.com
Cupertino, CA 95014

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157. Re: [APRSSIG:3637] FW: Re: Differential GPS

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Fri, 09 Aug 1996 15:19:33 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960809141933.00959e24@dgps.com>
Rendered body type: text/plain

This is exactly right. That is where DCI might be able to help. We are
also looking at doing real time traffic data. A format already exists for
broadcasting this over the FM RDS subcarrier. Could also apply to APRS.

At 03:49 PM 8/9/96 -0500, Gwyn Reedy wrote:
>Chris, AA7WD
>zoom@willow.sps.mot.com
>said:
>
>>The better solution is to find a way to code or encapsulate the RTCM
>>binary data and use the digipeater to transmit it to the users. Then
>>APRS (or other software) can decode it and send it on to the GPS. I see
>>you have been working on the coding, there must be a way...Is the RTCM a
>>contant stream or could it be broken up into packets?
>
>Sending the RTCM-104 data is no problem. Just broadcast it as UI frames to
APRS TNCs.
>
>The problem is in generating low cost RTCM-104 data.
>
>

```
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                         PH:     +1-408-446-8350
President and C.E.O.                    Fax:    +1-408-446-8383
Differential Corrections Inc            E-Mail: ronhaley@dgps.com
10121 Miller Ave                        Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
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158. Re: [APRSSIG:3613] EAST APRS 2M Meteor QSO, anyone?

From: stanzepa@usa.nai.net (stan horzepa)
Date: Fri, 9 Aug 1996 19:59:09 -0400
To: aprssig@tapr.org
Message-ID: <v01540b03ae317ed1dac9@[206.98.48.228]>
Rendered body type: text/plain

```
>    As the nearest active VHF APRS activity is well over 100 air
>miles from me, I have chosen to aim my recently constructed
>crossed yagi at the sky at an elevation of 45 degrees and a bearing
>of 110 degrees, from the central North shore of Lake Michigan.
>I wannabe part of the first? APRS qso. Anyone else wannabe?
>Read meteor.txt in the latest docs for details.
>

APRS Perseids Meteor Scatter Test Announcement

Date and Time:   August 11 0000 UTC to August 12 1200 UTC
                 (August 10 2000 EDST to August 12 0800 EDST)

Frequency:       145.79 and 50.62 MHz (if available in your area)

Mode             1200 baud AX.25 packet

   All amateurs are encouraged to participate in the Perseids meteor
scatter test August 11-12. Although 6 meters is better than 2 meters for
meteor scatter work, everyone has a 2-meter radio and we can make up in
numbers what we lack in performance (during the 1995 test, numerous
stations received packets from 600 to 1000 miles away and a handful even
copied stations over 1000 miles away... on 2 meters). All you need is a TNC
and, preferably, high power and a beam. The objective is to see how many
grid square (DX) packets you can receive over the 36-hour event (a
successful connection would be icing on the cake).

   Stations in the four quadrants of the continent transmit alternately for
15 seconds (the quadrants are formed by the 39 degree north latitude and 96
degrees west longitude). There are two ways to do this: (1) by using the
Meteor Scatter (MS) mode built into the DOS version of APRS or (2) by
placing your six-digit grid square in the Unproto To call sign field, for
example, WA1LOU>FN31MP.

   Suggested procedures for the test follow:

   1)  Point your beam towards a major population area 500 to 1000 miles
away in one of the other US quadrants. If there is another active local
station, coordinate your beam headings so you are not both hitting the same
azimuth and receiver target area.

   2)  Enter your grid square into your TNC using the following command:

          cmd: UNPROTO FN31mp

where FN31mp is your six-digit grid square. If you can't estimate the last
two digits, use aa. Note that no Via Digipeater is used.

   3)  For attended operation, enter the Converse Mode (cmd: CONV). Each
time you hit carriage return <CR>, you send a packet. Hit 20 <CR>s
and you send 20 grid square packets. Synchronize your clock with WWV
and transmit as many packets that you can according to the following
schedule:

   Northeast stations transmit between 00 to 14 seconds of each minute.

   Southeast stations transmit between 15 to 29 seconds of each minute.

   Southwest stations transmit between 30 to 44 seconds of each minute.

   Northwest stations transmit between 45 to 59 seconds of each minute
```

4) Alternatively, run APRS DOS version 7.1b or later. Its automated meteor scatter mode plots received packets on a map. (Read the file METEOR.TXT bundled with the latest releases of APRS.)

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM. For example, during last year's test, I transmitted 150 watts into an 11-element beam and nobody reported receiving my packets!

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log.

If you are not running APRS, set the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer. Watch for stations sending packets containing grid squares. Make a note of the grid squares that are 500 to 1200 miles from your QTH. When you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

After the test, I will need your reports to see how we did. Your reports should contain the following information:

Your call sign

Your state/province

Your grid square

Your effective radiated power

Call signs of received/connected stations

Grid squares of received/connected stations

Time of reception/connection in UTC and number of received packets

Distance between you and the received/connected stations

Send your reports by email to:

stanzepa@nai.net

Or by mail to:

Stan Horzepa, WA1LOU
One Glen Ave.
Wolcott, CT 06716-1442

Have fun!

---

159. Re: [APRSSIG:3618] APRS MS Test This Weekend!

From: ku0g@sprynet.com
Date: Fri, 9 Aug 1996 17:38:06 -0700
To: aprssig@tapr.org
Message-ID: <199608100038.RAA25252@m1.sprynet.com>
Rendered body type: text/plain

On Fri, 9 Aug 1996, stanzepa@usa.nai.net (stan horzepa) wrote:
>One last reminder... this weekend is our second annual APRS meteor scatter
>test and car wash.

So what're we gonna do with all the money?

>Stan "the Soap Man" Horzepa, WA1LOU
>

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

160. Re: [APRSSIG:3627] snabkey@wings.net

From: ku0g@sprynet.com
Date: Fri, 9 Aug 1996 17:42:50 -0700
To: aprssig@tapr.org
Message-ID: <199608100042.RAA25982@m1.sprynet.com>
Rendered body type: text/plain

snabkey@wings.net is Sam Nabkey, WJ8T (I think I've got the call right it's a 2x1 at any rate)...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

161. Re: [APRSSIG:3633] Map Making

From: ku0g@sprynet.com
Date: Fri, 9 Aug 1996 17:53:59 -0700
To: aprssig@tapr.org
Message-ID: <199608100053.RAA28328@m1.sprynet.com>
Rendered body type: text/plain

Hi Mike.
The problem here is that when I generate county level maps (I'm taking several 2 mile maps and merging/crunching them here) the COUNTY "LETTERED" ROADS aren't coming out. I can interpolate their position fairly well, but am relegated to taking paper maps and trying to get as close as possible to the correct spots. This just isn't personally acceptable to me as I'm trying to be as dead-on accurate as possible. These same classes of roads also tend to be the major thoroughfares here in KC area: they are major arteries but not highways as such. These are USUALLY easier to put in place as they are, for the most part, straight lines...

Still and all, I'd like to see ALL road data extracted and, as you said, assign different color shadings. The mapfix program could then be used to change the colors to whatever is appropriate....

Ken, John: Are you all getting this? Hope this is a good idea....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

162. Re: [APRSSIG:3636] RE: MKMAPKKE, CONV.EXE, etc. bugs...

From: ku0g@sprynet.com
Date: Fri, 9 Aug 1996 18:01:14 -0700
To: aprssig@tapr.org
Message-ID: <199608100101.SAA29826@m1.sprynet.com>
Rendered body type: text/plain

Hi Jack. I'm using the 100K DLG (optional format) files. I consistently get major thoroughfares left out (such as lettered county roads and major city streets) with your program, Kens program as well as Ken's CONV100x.EXE

The CONVxxx program tries to output 10 files starting with interstates in 1, US highways in 2, State Highways in 3, etc. right down the list. 7 and 8 generally are the street level. I never get anything is 5 or 10.. Of course, this is Ken's problem, Jack, but it's just a way to describe the kind of problem that I keep running into with your program and his. Nothing personal, of course. Considering how difficult it is to manually draw maps or even to take the converted files from CONVxxx.EXE and generate a map, it's not a major deal, just something I would hope you guys could take a look at...

Thanks for the reply!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

163. Re: [APRSSIG:3636] RE: MKMAPKKE, CONV.EXE, etc. bugs...

From: ku0g@sprynet.com
Date: Fri, 9 Aug 1996 18:03:18 -0700
To: aprssig@tapr.org
Message-ID: <199608100103.SAA00153@m1.sprynet.com>
Rendered body type: text/plain

On Fri, 9 Aug 1996, "Carolyn Cavanagh" <cjcavanagh@msn.com> wrote:
>Jim, I am author of mk100k and don't understand question. the rdf files on

```
>cd only go to level 5 (jeep trails and uniproved dirt roads)  Everything to
>level
>4 available on ver 2a if radius small enough - 4 mi or less.

I still don't get the major thoroughfares, though...

>Ver 3 lets u get everything off CD if you wish.

VERSION >3<???? Maybe I'd better take a look at TAPR and be sure I've got the
latest version here....



> u may be talking about the "other" CD issued by state or FTP files. If that
>the case, I am just not familiar with structure of those files.  73 Jack,
>KB4XF
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

164. Re: [APRSSIG:3624] New APRS digi!

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 09 Aug 1996 21:11:40
To: APRSSIG@tapr.org
Message-ID: <199608100112.VAA24575@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi Joe,

On Fri, 9 Aug 1996 you wrote that:

>We are in the works of installing a new APRS digi on 145.790
>in Schenectady, NY (close to Albany). Are there any other APRS
>digis nearby?

     So far as I know, there is a distinct LACK of stations in
that area on APRS.  From my location in The Bronx I only see
two stations to my north with any regularity (N2YGK in Briar-
cliff Manor is the more northerly of the two with a beam facing
south and N2SF in White Plains running a WIDE.)  I refer to
this condition as The APRS Black Hole!

     I have been working on getting stations in The Hudson Val-
ley interested in APRS, particularly in respect to someone set-
ting up a WIDE digipeater in order to extend the net into this
"black hole."  My problem has been that of stations firing up
the software, nobody appears on their screen after an hour or
two and they then wipe it off of their harddrive.  After all,
it's no fun seeing your station in the middle and nothing else.

     With any amount of luck your new WIDE will hear some of
the stations I've been trying to get going and DIGI them.  If
this works, we'll have the start of something to extend the
existing northeast corridor APRS net into the heartland of the
state.  I'm still going to be pushing to get another WIDE some-
place between White Plains and Schenectady to help fill in the
holes that will undoubtedly exist in this sometimes RF-hostile
region.  I've found that north-south paths are better than
east-west ones due to the lay of the land.

     Best of luck with your new DIGI.  I'll be looking for you
on the screen (when the band is open it might just work!)  73


Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I can't lock onto those coordinates, Captain.
There's too much subspace interference."
```

---

165. Hmm

From: KD4EMI@aol.com
Date: Fri, 9 Aug 1996 23:32:46 -0400
To: aprssig@tapr.org

Message-ID: <960809233245_596189429@emout19.mail.aol.com>
Rendered body type: text/plain

```
Was thinking...

I see alot of bulls that really should be for local info...

Would there be a way, short of turning off the HF port  to write some code
to just xmit bulls on HF or VHF exclusively ?

Any thoughts...?
AND  another idea ...

I sometimes turn off my DOS aprs and do something else with the computer,
then go back to dosaprs. I hate to be a lid and keep xmitting my posit and
beacon over and over especially if I shut off aprs several times in an
hour...is there a way for a boot up option to change it like "aprs already in
progress "  ?

Thanks
Mike KD4EMI@AOL.COM
```

---

166. Harrier Jet Mobile

From: KD4EMI@aol.com
Date: Fri, 9 Aug 1996 23:41:29 -0400
To: aprssig@tapr.org
Message-ID: <960809234129_596195745@emout15.mail.aol.com>
Rendered body type: text/plain

```
Oh, since pepsi is giving away harrier jets...look for a new icon
(a pepsi swirl) in the new versions of aprs.

When you see the swirl moving quickly, be sure to toggle the X-Y view
to get a good appreciation of what it's doing.

Also a stealth fighter and stealth bomber icon is going to be available,
but the icon will be invisible..

Cheers..
Mike
KD4EMI@AOL.COM
```

---

167. Re: [APRSSIG:3598] All this talk about differential

From: rwf <rwf@mindspring.com>
Date: Sat, 10 Aug 1996 00:00:34 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960810040034.006e3f44@atl.mindspring.com>
Rendered body type: text/plain

```
I just got done with a very interesting APRS implementation, which would
have gone so much better with DGPS service.  I am writing it up and will
post it here (with photos on my web page) as soon as I can get a little
breathing room)

Ralph
N4NEQ



At 06:26 PM 8/8/96 -0500, Mike wrote:

>For APRS, and strictly aprs, why bother. Do we need 10 meter resolution to
>watch someone out on the water, in the air, or driving around town.
>No, I dont think so. Perhaps you could argue that other uses of GPS demand
>great resolution. I would not disagree. BUT we arent flying planes with APRS,
>nor are we surveying land with aprs. Nor are we using it for an anchor alarm.
```

---

168. RE: legality of DPGS ad nausem

From: KD4EMI@aol.com
Date: Sat, 10 Aug 1996 02:04:46 -0400
To: aprssig@tapr.org
Message-ID: <960810020445_596268192@emout15.mail.aol.com>
Rendered body type: text/plain

```
There is some confusion about what I meant about the retranmitting of
data on packet for use of GPS DGPS data.

The way I read it... (which really means nothing)  is:
```

If I aquire DPGS data, and re-transmit it on packet, thats illegal.

If I generate DGPS data, not by simply getting it off a subcarrier, but by some other means (I dont really know how its done) that seems to be legal.

So, hooking up my subcarrier radio, reformatting it into packet I believe is illeagal.. I know it sounds like legalese, and perhaps (probably) I dont really understand it, but I think any one concerned should be AT LEAST aware of this possible conflict.

No, Im not trying to rain on a parade, nor discourage experimenting, nor be a book beater, more rightous than thou, but so far Im not convinced that anyone has really written a valid rebuttal yet. Im still open to trying to figure it out ! REALLY I AM ! I suppose some will say it is and some will say it isnt.; would hate to spend $$ and find out it aint allowed...

Mike
KD4EMI@AOL.COM

---

169. Re: [APRSSIG:3504] meteor scatter test coming soon

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sat, 10 Aug 1996 08:26:52 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960810122652.006bce5c@mail.cyberstreet.com>
Rendered body type: text/plain

At 08:34 AM 8/3/96 -0500, you wrote:
>Just a reminder... next weekend is our second annual APRS meteor scatter
>test and barbecue.
>
>If you missed the original announcement, email me and I will email you back
>with the details.
>
>Stan "warming up the grill" Horzepa, WA1LOU
>
>
>Stan - I just came on board. Missed original announcement. Can you give me
more info? Thanks much. Ron in SW FLA.
73 cu Ron"KD4AMS"

---

170. Re: [APRSSIG:3549] Nice article in GPS world

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sat, 10 Aug 1996 08:50:50 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960810125050.006c5308@mail.cyberstreet.com>
Rendered body type: text/plain

At 04:07 PM 8/6/96 -0500, you wrote:
>This month there was a nice article in GPS world describing what Paccomm is
>doing with APRS in Bosnia. Of course, they don't say it is APRS exactly.
>
>Congratulations on the innovative application Gwen.
>
>
>/\
> Larry M. Keeran K9ORP   IS Data Processing Equip Tech k9orp@amsat.org
> EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
>\/
>
>Larry - GPS world sounds interesting. Where can I find it? Thanks, Ron
>
73 cu Ron"KD4AMS"

---

171. Re: [APRSSIG:3550] Blackjack GPS Antennas to run again!

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sat, 10 Aug 1996 08:55:17 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960810125517.006bb4e8@mail.cyberstreet.com>
Rendered body type: text/plain

At 05:26 PM 8/6/96 -0500, you wrote:
>Greetings all! For those who were in the initial purchase of the Blackjack
GPS
>antenna, Karla and I would like to say thank you for your orders and
helping us
>get the initial purchase moved!!!
>
>FIRST PRODUCTION RUN COMMENCING!

```
>
>We are happy to announce our first production run of 50 units will begin in
two
>weeks and we are taking advance reservations for these 50 beginning now!  Two
>units are already consigned to existing orders that have been back-ordered to
>this point.  These orders will have first priority on shipping.  The remaining
>48 units are up for grabs to the first 48 reservations received!
>
>We anticipate shipment to begin the first week of September.  As an
incentive to
>those of you who wish to reserve units we are offerring a discounted price on
>the unit of $37.00 per unit plus $4.50 shipping/handling charge.  This
>discounted price is only good for reservations received by August 18th.
>
>To reserve your Blackjack Antenna, send EMail DIRECT to me at the address
listed
>below.  Include your full name, address, callsign and shipping address (if
>different from your address).  You will receive a confirmation of your
>reservation and be issued a sequence number at the time your reservation is
>received.  We will also mail you a printed order confirmation with an
>anticipated shipping date at which time you will be billed for all charges and
>requested to mail payment.  Please do NOT send payment at this time!
>
>ON OTHER FRONTS...
>
>We have decided that we will not be producing an active antenna at this
time due
>to the start-up costs involved versus the number of actual requests for an
>amplified version.  We do offer a "weather-proofing kit" which will allow the
>user to place to Blackjack outside of a vehicle in the elements.  There is
ample
>room inside the radome for a KPC-3 or Pico-Packet TNC and, perhaps, even a
small
>digital radio!  Price of the Weather Proofing Kit is $15.00 plus $5.00
>shipping/handling.  This kit contains a radome (approximate dimensions 6 by
6 by
>2.5 inches) and clear latex silicon for sealing purposes.  If ordered along

with
>a Blackjack Antenna the WP Kit is $11.00 and $3.00 shipping/handling.
>
>Karla and I thank you for your support of our little cottage industry!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail:  ku0g@sprynet.com

>

>Jim I want the Blackjack and the WP kit. My name KD4AMS - Ron Oblinger,
2352 Pellam Blvd. Port Charlotte, Fl.33948. Thanks much.       73/kd4ams

73 cu Ron"KD4AMS"
```

---

172. Re: [APRSSIG:3654] Re: Blackjack GPS Antennas to run again!

From: ku0g@sprynet.com
Date: Sat, 10 Aug 1996 07:00:44 -0700
To: aprssig@tapr.org
Message-ID: <199608101400.HAA29504@m1.sprynet.com>
Rendered body type: text/plain

```
Your reservation is confirmed and the confirmation number is 9608006.  Please
write this number down and include it on your money order when I tell you to
mail it in...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

173. Blackjack Update...

From: ku0g@sprynet.com
Date: Sat, 10 Aug 1996 07:10:26 -0700
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <199608101410.HAA00869@m1.sprynet.com>
Rendered body type: text/plain

Six reservations have been received for the next run of the Blackjack GPS Antenna. We need a total of 25 reservations but will go into production as soon as there are 15. At this point we will have sufficient orders to cover the costs of the parts and outside tooling labor. For those that have reserved, please keep your eyes on the sig and I'll announce when to send the official order and $$$ in to us. We will also contact you by direct EMail....

I would also welcome a group purchase from anyones club or APRS group. There is a 10% group purchase discount for orders of 11 or more shipped to the same address and paid with one payment.

I am also exploring the possibility of starting an authorized dealer program if business warrants. Anyone interested in stocking the Blackjack as a dealer/distributor should contact me direct by EMail....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

174. Re: [APRSSIG:3652] Re: meteor scatter test coming soon

From: stanzepa@usa.nai.net (stan horzepa)
Date: Sat, 10 Aug 1996 11:10:14 -0400
To: aprssig@tapr.org
Message-ID: <v01540b00ae3256c6f030@[206.98.48.240]>
Rendered body type: text/plain

>>Stan - I just came on board. Missed original announcement. Can you give me
>more info? Thanks much. Ron in SW FLA.
>73 cu Ron"KD4AMS"

APRS Perseids Meteor Scatter Test Announcement

Date and Time: August 11 0000 UTC to August 12 1200 UTC
                 (August 10 2000 EDST to August 12 0800 EDST)

Frequency: 145.79 and 50.62 MHz (if available in your area)

Mode   1200 baud AX.25 packet

All amateurs are encouraged to participate in the Perseids meteor scatter test August 11-12. Although 6 meters is better than 2 meters for meteor scatter work, everyone has a 2-meter radio and we can make up in numbers what we lack in performance (during the 1995 test, numerous stations received packets from 600 to 1000 miles away and a handful even copied stations over 1000 miles away... on 2 meters). All you need is a TNC and, preferably, high power and a beam. The objective is to see how many grid square (DX) packets you can receive over the 36-hour event (a successful connection would be icing on the cake).

Stations in the four quadrants of the continent transmit alternately for 15 seconds (the quadrants are formed by the 39 degree north latitude and 96 degrees west longitude). There are two ways to do this: (1) by using the Meteor Scatter (MS) mode built into the DOS version of APRS or (2) by placing your six-digit grid square in the Unproto To call sign field, for example, WA1LOU>FN31MP.

Suggested procedures for the test follow:

1) Point your beam towards a major population area 500 to 1000 miles away in one of the other US quadrants. If there is another active local station, coordinate your beam headings so you are not both hitting the same azimuth and receiver target area.

2) Enter your grid square into your TNC using the following command:

```
cmd: UNPROTO FN31mp
```

where FN31mp is your six-digit grid square. If you can't estimate the last two digits, use aa. Note that no Via Digipeater is used.

3) For attended operation, enter the Converse Mode (cmd: CONV). Each time you hit carriage return <CR>, you send a packet. Hit 20 <CR>s and you send 20 grid square packets. Synchronize your clock with WWV and transmit as many packets that you can according to the following schedule:

Northeast stations transmit between 00 to 14 seconds of each minute.

Southeast stations transmit between 15 to 29 seconds of each minute.

Southwest stations transmit between 30 to 44 seconds of each minute.

Northwest stations transmit between 45 to 59 seconds of each minute

4) Alternatively, run APRS DOS version 7.1b or later. Its automated meteor scatter mode plots received packets on a map. (Read the file METEOR.TXT bundled with the latest releases of APRS.)

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM. For example, during last year's test, I transmitted 150 watts into an 11-element beam and nobody reported receiving my packets!

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log.

If you are not running APRS, set the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer. Watch for stations sending packets containing grid squares. Make a note of the grid squares that are 500 to 1200 miles from your QTH. When you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

After the test, I will need your reports to see how we did. Your reports should contain the following information:

Your call sign

Your state/province

Your grid square

Your effective radiated power

Call signs of received/connected stations

Grid squares of received/connected stations

Time of reception/connection in UTC and number of received packets

Distance between you and the received/connected stations

Send your reports by email to:

stanzepa@nai.net

Or by mail to:

Stan Horzepa, WA1LOU
One Glen Ave.
Wolcott, CT 06716-1442

Have fun!

175. Com ports and APRS?

From: David Wells <davew@cruzio.com>
Date: Sat, 10 Aug 1996 11:35:35 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608100933.aa10106@cruzio.com>
Rendered body type: text/plain

Hello All,

I am new to APRS and am trying to get ver 7.4 running. My TNC is on comm 4 IRQ9 and I cannot get APRS to recognize the TNC. Does it not work with non-standard comm ports and IRQ's? If it will, how do I configure it? Thanks.

Dave KD6TO
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA

---

176. Re: [APRSSIG:3545] la.htq??

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 10 Aug 96 14:52:59 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.839703179.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
Was the map name   LA.HQX  (you said it was  la.htq)

If so, you need to decompress it with the SIT.exe program (i don't remember
the exact name)..

Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

177. Re: Beep turnoff?

From: Norman Davis WB6SHI <normd@cwnet.com>
Date: Sat, 10 Aug 1996 14:47:36 +0000
To: aprssig@tapr.org
Message-ID: <199608101517.PAA11953@sbi1.cwnet.com>
Rendered body type: text/plain

```
Toggling the beeps on or off  makes no difference.
>

 Pete
 I have found the same problem, but with mine the beep has no end and the
toggling does stop it.
 I like the beep and wish I could hear it even when it is in background.

Norman Davis WB6SHI
Email normd@cwnet.com
Shingle Springs, Ca, USA
```

---

178. Help

From: BordingK@aol.com
Date: Sat, 10 Aug 1996 21:56:33 -0400
To: aprssig@tapr.org
Message-ID: <960810215633_453534563@emout19.mail.aol.com>
Rendered body type: text/plain

```
KF4COH-12*>RELAY>WAPRS:$GPGLL,3022.660,N,08130.244,W,210227.678,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.660,N,08130.242,W,210326.552,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.654,N,08130.241,W,210426.178,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.667,N,08130.256,W,210626.571,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.668,N,08130.272,W,210726.826,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.649,N,08130.259,W,210926.711,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.660,N,08130.268,W,211127.179,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.647,N,08130.263,W,211324.290,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.649,N,08130.264,W,211427.013,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.648,N,08130.263,W,211528.297,A

KF4COH-12*>RELAY>WIDE>APRS:$GPGLL,3022.650,N,08130.265,W,211625.425,A
```

---

179. Sorry!

From: BordingK@aol.com
Date: Sat, 10 Aug 1996 22:02:46 -0400
To: aprssig@tapr.org
Message-ID: <960810220246_381762876@emout08.mail.aol.com>
Rendered body type: text/plain

```
The NMEA GPS gibberish went out by mistake, sorry!   Email is a lot like an
ICBM, once you hit the button it real hard to call it back!!!
de KF4COH
```

180. Re: [APRSSIG:3637] FW: Re: Differential GPS

From: rwf <rwf@mindspring.com>
Date: Sat, 10 Aug 1996 23:41:58 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960811034158.006881d0@atl.mindspring.com>
Rendered body type: text/plain

Gwyn wrote:
>The problem is in generating low cost RTCM-104 data.

And in finding available bandwidth in a busy 1200 bps net in which to transmit it.

I'd rather use someone else's bandwidth if possible.

Ralph

---

181. All the business ads here

From: rwf <rwf@mindspring.com>
Date: Sat, 10 Aug 1996 23:42:00 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960811034200.00689844@atl.mindspring.com>
Rendered body type: text/plain

I encourage the growth of "cottage industries", including that of GPS patch antennas and even doppler DF units, but I'm wondering if maybe it is time for a special web page/email address for the orders, confirmations, production run announcements, etc.

An announcement here when something significant is announced is appreciated, but then the replies and back and forth stuff begin- each one quoting the previous message/announcement, etc.

Before you flame.... Notice that I said that I want to see these industries grow, including the announcements, but folks please: watch the reply button. that is probably what generates most of the traffic.

Ralph

---

182. Re: [APRSSIG:3664] All the business ads here

From: William Nolle <"wa8inz@cris.com"@cris.com>
Date: Sun, 11 Aug 1996 00:03:53 -0700
To: aprssig@tapr.org
Message-ID: <199608110503.BAA24240@cliff.cris.com>
Rendered body type: text/plain

rwf wrote:
>
> I encourage the growth of "cottage industries", including that of GPS patch
> antennas and even doppler DF units, but I'm wondering if maybe it is time
> for a special web page/email address for the orders, confirmations,
> production run announcements, etc.
>
> Before you flame.... Notice that I said that I want to see these industries
> grow, including the announcements, but folks please: watch the reply button.
> that is probably what generates most of the traffic.
>
> Ralph

Well i sooner see it here then it being send by APRS bullitens, like i have seen in the B list. People advertizing their web pages etc, specially coming way from down South East Florida. I won't go any further then that, but there's more of the same. I realy don't see anything wrong with it. Like many have told me Hit The Delete Button for those that don't like it. And this is not a flame just my opinion!.

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

183. Bruninga

From: William Nolle <"wa8inz@cris.com"@cris.com>
Date: Sun, 11 Aug 1996 00:09:03 -0700
To: aprssig@tapr.org

Message-ID: <199608110508.BAA25824@cliff.cris.com>
Rendered body type: text/plain

By the way i chatted with Bob Bruninga after i seen him popup on my map here in North Alabama, he had a heck of a time getting an antenna setup finally went to Radio Shack and got some coax and used a couple of fishing poles to get (Get this) a CB antenna up before he started seeing people pop up on his map. After pointing my beams at him (64 miles away) i could chat with him direct. He's in Florence,AL at visiting Family.

```
--
          \////
          (o o)
    *--oOO-(_)-OOo--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

184. Re: [APRSSIG:3664] All the business ads here

From: ku0g@sprynet.com
Date: Sat, 10 Aug 1996 23:28:08 -0700
To: aprssig@tapr.org
Message-ID: <199608110628.XAA12193@m1.sprynet.com>
Rendered body type: text/plain

As the most recent generator of the "business ads", I MUST (out of respect to EVERYBODY) say that an announcement is fine but replies need to be directed to the ORIGINATOR as opposed to posting to the SIG. Please, everyone, in the future when replying to my postings, use a direct EMail and don't simply ignore the TO field! Remember: On this SIG the "Reply To:" field is always set to APRSSIG@TAPR.ORG. It is NOT the ORIGINATOR.

Further, not just in these types of replies, but in ALL replies, it just isn't really necessary to quote an entire message. In some cases it IS desirable to include snips but the full text is rarely necessary...

Thanks!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

185. Running APRS on an HP 200XL...

From: byoung@qni.com
Date: Sun, 11 Aug 1996 08:36:20 -0500
To: aprssig@tapr.org
Message-ID: <9608111336.AA18034@qni.com>
Rendered body type: text/plain

APRS aficionados,

Quick history: A couple months ago my boss bought himself one of those nifty HP palmtop PCs to use for his schedule, notes, etc. He loves it and has extolled the virtues of it so much that when I asked for one he couldn't get off by telling me "No."

"So what?" you say... Well I have another agenda (pun intended...) for my 200XL! Driven to temptation by the occasional message I see on the SIG, I intend to run APRS on mine!

Any of you that have attempted and/or been successful, please lend me a hand! You have empirical knowledge I lack and can benefit from! Send any and all comments, suggestions, and instructions so that I may profit from your unsurpassed wisdom! (Gee, I may be laying it on too thick, but you can probably tell I'm asking for help...)

The unit I've obtained is a new Hewlett Packard 200LX with 2MB of RAM. What do I need, H/W and S/W wise, to make this work? I can get the "Connectivity Kit" for $72.50, or just the serial cable for $18.00. In addition, I have a very kind brother-in-law that works for a major Silicon Valley firm who's giving me at least one, maybe two, 16MB flash-RAM PCMCIA card. (Think of the maps I could keep on the little beastie...) What, if any, software will I need to make that work?

Any and all help appreciated! If this goes well. I hope to
write up an "HP200LX.TXT" file for Bob to consider adding to
the APRS docs...

Bill Young
byoung@qni.com
KB0UZQ

186. Re: [APRSSIG:3668] Running APRS on an HP 200XL...

From: "Patrick Voigt, KD4GCM" <pvoigt@loclnet.com>
Date: Sun, 11 Aug 1996 11:08:13 -0400
To: aprssig@tapr.org
Message-ID: <320DF75D.7FED@loclnet.com>
Rendered body type: text/plain

byoung@qni.com wrote:
>
> APRS aficionados,
>
> Quick history: A couple months ago my boss bought himself
> one of those nifty HP palmtop PCs to use for his schedule,
> notes, etc. He loves it and has extolled the virtues of it
> so much that when I asked for one he couldn't get off by
> telling me "No."
>
> "So what?" you say... Well I have another agenda (pun
> intended...) for my 200XL! Driven to temptation by the
> occasional message I see on the SIG, I intend to run APRS on
> mine!
>
> Any of you that have attempted and/or been successful,
> please lend me a hand! You have empirical knowledge I lack
> and can benefit from! Send any and all comments,
> suggestions, and instructions so that I may profit from your
> unsurpassed wisdom! (Gee, I may be laying it on too thick,
> but you can probably tell I'm asking for help...)
>
> The unit I've obtained is a new Hewlett Packard 200LX with
> 2MB of RAM. What do I need, H/W and S/W wise, to make this
> work? I can get the "Connectivity Kit" for $72.50, or just
> the serial cable for $18.00. In addition, I have a very
> kind brother-in-law that works for a major Silicon Valley
> firm who's giving me at least one, maybe two, 16MB flash-RAM
> PCMCIA card. (Think of the maps I could keep on the little
> beastie...) What, if any, software will I need to make that
> work?
>
> Any and all help appreciated! If this goes well. I hope to
> write up an "HP200LX.TXT" file for Bob to consider adding to
> the APRS docs...
>
> Bill Young
> byoung@qni.com
> KB0UZQ

Bill and All:
I have sucessfully been running APRS on my 200LX for about six
months now. All you need is the serial cable and a standard pc card
flashcard. The software to support the card is standard on the HP. I
copied the software the the flashcard from my laptop, popped it in the
HP, edited autoexec.bat to run APRS instead of 200 (the HP front end)
and away it went. A little slow on map redraws, but very useable.
-Patrick, KD4GCM

187. Re: [APRSSIG:3668] Running APRS on an HP 200XL...

From: AC6JA@aol.com
Date: Sun, 11 Aug 1996 12:04:03 -0400
To: aprssig@tapr.org
Message-ID: <960811120403_256876492@emout15.mail.aol.com>
Rendered body type: text/plain

hi there, mike here in foster city, ca. i've been running aprs with my hp
100lx 2mb palmtop in my work truck for quite some time. i bought the
connectivity cable and the 4 adapters to connect to another computer,
printer, modem, etc. i use the serial adapter to connect to the tnc and it
works fine. the only thing i have to do on mine and you may or may not have
to do, is close all applications in order to provide the palmtop with all its
memory allocated for the running application. the instruction book for the

palmtop explains how to do this. other than that, it works great! almost
better than a laptop because the palmtop display likes bright light!
 anyways, i run the palmtop with a kpc-3, garmin 45 gps, and radio shack
htx-202 with a paccom hsp y-cable.
hope to "see" you on aprs soon!
73's Mike AC6JA

188. Re: [APRSSIG:3669] Running APRS on an HP 200XL...

From: byoung@qni.com
Date: Sun, 11 Aug 1996 11:41:14 -0500
To: aprssig@tapr.org
Message-ID: <9608111641.AA26078@qni.com>
Rendered body type: text/plain

```
In-Reply-To: <320DF75D.7FED@loclnet.com>
X-Mailer: SPRY Mail Version: 04.00.06.17

Patrick and the group,

I guess we can run a "short" thread on the SIG, there may be
other poor souls interested in the same thing.<g>  Patrick,
could I ask a "few" specific questions?

What APRS revision are you running?
        I've pretty much standardized on 7.6f.  OK?
What (if any) recommendations for files/dirs in/excluded?
        Follow Bob's recommended minimum setup?
How much RAM does your 200LX have?
        Should/could I copy the program to internal RAM?
What size flash RAM card are you using?
        Do you ever switch cards to changes maps?
What kind of battery are you using?
        Alkaline or NiCd?
What kind of battery life are you getting?
Does the unit ever try to "power down" running APRS?

Your last post was *VERY* encouraging!  I want you to know
you're one of the people that's to blame for this wild fancy
I'm pursuing, so I appreciate your input!

Bill Young
byoung@qni.com
KB0UZQ
```

189. Re: [APRSSIG:3658] Com ports and APRS?

From: David Wells <davew@cruzio.com>
Date: Sun, 11 Aug 1996 12:28:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608111026.aa03224@cruzio.com>
Rendered body type: text/plain

```
At 11:42 PM 8/10/96 -0400, you wrote:
>David Wells wrote:
>I cannot get APRS to recognize the TNC. Does it not work with
>>non-standard comm ports and IRQ's? If it will, how do I configure it? Thanks.
>
>Configure it as Com1 or Com2.  That's how it is designed to work
>
>.-
>
>

Thats a bummer since my modem and mouse already occupy those ports and they
also will not work on non-standard port/IRQ's. How bout an update?????

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

190. Re: [APRSSIG:3672] Re: Com ports and APRS?

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 11 Aug 1996 16:24:04 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608111601.D20812-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Not a bad idea. I have an aftermarket package for my basic compiler that
allows com: port activity other than com1 and com2, and also allows
various IRQ usage on the other com: ports. The packege is called ProBas
and I couldn't get along without it.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Sun, 11 Aug 1996, David Wells wrote:

> At 11:42 PM 8/10/96 -0400, you wrote:
> >David Wells wrote:
> >I cannot get APRS to recognize the TNC. Does it not work with
> >>non-standard comm ports and IRQ's? If it will, how do I configure it? Thanks.
> >
> >Configure it as Com1 or Com2. That's how it is designed to work
> >
> >.-
> >
> >
>
> Thats a bummer since my modem and mouse already occupy those ports and they
> also will not work on non-standard port/IRQ's. How bout an update?????
>
> Dave
> David L. Wells KD6TO (KD6 Teletype Operator)
> INTERNET: davew@cruzio.com
> Watsonville, CA USA
>

---

191. Latest javAPRS News

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 11 Aug 96 17:00:45 -0400
To: <aprssig@tapr.org>
Message-ID: <199608112057.QAA18104@bridge.net>
Rendered body type: text/plain

I have posted a new version of javAPRS (0.4b1) to the tapr site, and can
also be seen at WA4DSY's site. Aside from fixing a few nagging i/o bugs,
the biggest improvement is the ability to correctly parse and display
incoming hurricane and weather packets. Clicking on a weather station on
the map will show the last data from that station. The data is also
displayed on the station list.

To check it out, see the Bertha replay at:

   http://www.bridge.net/~sdimse/hurricane.html

(This data is stolen from Bob, WB4APR, because it is so much better than
the data I was using to demo hurricane tracking.)

If you haven't seen Bob's site yet, there are lots of other cool demos
and live HF and VHF data. (He isn't using 0.4 yet, but I suspect it will
be up tomorrow.)

   http://web.usna.navy.mil/~bruninga/aprs.html

The 3.0b7 beta of Netscape Navigator for the Mac has just come out, and
is a great improvement in Java support. In particular, the initial
startup of javAPRS is almost three times as fast, and the java classes
are correctly cached, so moving from one page to another takes a couple
of seconds. Are the Windows versions showing similar improvements?

Dale, WA4DSY, has found and fixed the intermittant crashing bug in his
live data server. It also is now caching a bunch of data, so when you
first log on you get a bunch of posits all at once, and then live data
begins. Very nice!

   http://www.wa4dsy.radio.org/aprs

Enjoy de Steve KO4HD

---

192. Re: [APRSSIG:3668] Running APRS on an HP 200XL...

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Sun, 11 Aug 1996 18:05:55 -0400

To: aprssig@tapr.org
Message-ID: <2.2.32.19960811220555.0068671c@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 08:41 AM 11-08-96 -0500, you wrote:
>APRS aficionados,
>
>Quick history: A couple months ago my boss bought himself
>one of those nifty HP palmtop PCs to use for his schedule,
>notes, etc. He loves it and has extolled the virtues of it
>so much that when I asked for one he couldn't get off by
>telling me "No."
>
>"So what?" you say... Well I have another agenda (pun
>intended...) for my 200XL! Driven to temptation by the
>occasional message I see on the SIG, I intend to run APRS on
>mine!
>
>Any of you that have attempted and/or been successful,
>please lend me a hand! You have empirical knowledge I lack
>and can benefit from! Send any and all comments,
>suggestions, and instructions so that I may profit from your
>unsurpassed wisdom! (Gee, I may be laying it on too thick,
>but you can probably tell I'm asking for help...)
>
>[...]

APRS works fine on my HPLX-100. I put the whole thing on
a flash card. You must run it in native DOS and not from
the application manager. Do [More] then [menu] [application]
[terminate all]. You must have one of HP's serial cables
which translate their small connector to regular 9 pin
RS232. Also, you need a $3 null modem adapter from Radio
Shack. Then you're in business. The aspect ratio on the maps
is a little squished but readable. And the maps take a while
to load.

Cheersd,
Bob Kirk
N3OZB

---

193. Re: [APRSSIG:3665] Web ad's as APRS BLTN's

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 11 Aug 1996 17:15:01 -0500
To: aprssig@tapr.org
Message-ID: <199608112217.RAA04192@tapr.org>
Rendered body type: text/plain

>Well i sooner see it here then it being send by APRS bullitens, like i have
>seen in the B list. People advertizing their web pages etc, specially coming
>way from down South East Florida.

I definetly agree! In the midwest weather alert's show up in the B list and
I really get
peeved seeing www.----.---.-- showing up in an area I look for messages of much
greater concern.
Send the web ads on PBBS or here; since C F G will filter out even local's
if they have
gate anywhere in their proto path

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

---

194. Problem with Garmin 45 signal acquisition

From: "James R. Kauten, MD" <kauten@atl.mindspring.com>
Date: Sun, 11 Aug 1996 20:05:58 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960812000558.00bad470@pop.atl.mindspring.com>
Rendered body type: text/plain

Have been using my Garmin 45 in the car utilizing an outside antenna. Worked fine until recently. The unit now will not acquire any of the satellite signals and will shut off after 5 minutes or so. Tried new batteries and the portable antenna that came with it and no luck. Any thoughts regarding this would be helpful before I attempt to call Garmin. I see no place for a reset on the GPS. I did clear the track logging because it said all the memory was used up. Thank you.

Jim Kauten, KO4RQ

```
=====================================================
James R. Kauten, M.D.,  KO4RQ (kauten@mindspring.com)
=====================================================
Phone:      (404) 355-9537 (Fax)            (404) 355-9515 (Daytime)
Address:  James R. Kauten, M.D.,  95 Collier Road,  Suite 2055
                                             Atlanta, GA,  30305-1955
=====================================================
```

---

195. Re: [APRSSIG:3070] Re: APRS76F and MAPFIX26

From: Wwontroba@aol.com
Date: Sun, 11 Aug 1996 20:35:50 -0400
To: aprssig@tapr.org
Message-ID: <960811203548_454042018@emout19.mail.aol.com>
Rendered body type: text/plain

Sorry I'm so late in reading my mail! I've been on vacation for the past 3 weeks and am just getting into the swing of things.

I will get the proper new format to you ASAP.

73, Bill/K9PAJ

---

196. Re: Running APRS on an HP 200XL...

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Sun, 11 Aug 1996 18:29:27 -0700
To: aprssig@tapr.org
Message-ID: <199608120129.SAA21142@netcom19.netcom.com>
Rendered body type: text/plain

And would there be noticeable differnece in running APRS on a HP100LX vs. an HP200LX, for those of us who have to buy our own, rather than have our boss buy it, and know that EduCalc often has second-hand older models available, cheap?
73, doug

---

197. Re: [APRSSIG:3677] Problem with Garmin 45 signal acquisition

From: ku0g@sprynet.com
Date: Sun, 11 Aug 1996 18:46:25 -0700
To: aprssig@tapr.org
Message-ID: <199608120146.SAA22828@m1.sprynet.com>
Rendered body type: text/plain

Did you WEATHERPROOF the antenna? If the antenna gets shorted there is the possibility of damage to the receiver since it supplies power to an active antenna through the antenna cable! Most likely this is the cause, unfortunately... Good luck with getting it fixed though...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

198. MFJ MIc Switch and Icom Modular

From: "Mike Walker" <mwalker@interlog.com>
Date: Sun, 11 Aug 96 22:37:07 -0400
To: "Cardwell H Smith" <Cardwell.H.Smith@SAS02.usace.army.mil>
Cc: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199608120247.WAA25209@gold.interlog.com>
Rendered body type: text/plain

Hi Cardwell

You have an old Mic Switchf from MFJ. Take it back to your dealer and ask for one that has a Version 9 board in it. You likely have a version 7.

Hope this helps...mike

```
Mike Walker                               mwalker@interlog.com
127 High St. W.                               rf:  va3mw@va3bbs
```

Mississauga, ON
L5H 1K4

---

199. meteor?

From: kf4dys@juno.com (Joe Foor)
Date: Sun, 11 Aug 1996 22:00:22 PST
To: aprssig@tapr.org
Message-ID: <19960811.220030.8071.1.kf4dys@juno.com>
Rendered body type: text/plain

Heard in Graceville, Florida at 120141z:

```
WB4LTF>EL98IP:]?[^X4
WB4LTF>EL98IP:]?[^X4
```

---

200. Single COM and U-2000

From: BordingK@aol.com
Date: Sun, 11 Aug 1996 23:32:40 -0400
To: aprssig@tapr.org
Message-ID: <960811233239_382382424@emout15.mail.aol.com>
Rendered body type: text/plain

Is there a means to run the Peet Bros U-2000 and WinAPRS on a single COM port computer? Something like the HSP?

73s de KF4COH
Ken in JAX, FL

---

201. Meteor Scatter Test

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Sun, 11 Aug 1996 09:30:56 -0700
To: aprssig@tapr.org
Message-ID: <320E0AC0.17C9@worldnet.att.net>
Rendered body type: text/plain

It was interesting to see how the recent M Scatt. test worked in Florida.
Almost NO ONE disabled their digi paths, gates etc.
I tried on Sat. evening but after a number of phone calls telling me that
my station was broken or operating illegal I gave it up.
I posted a bullet on on aprs and copied the Test Announcement by WA1LOU
to the local BBS but I guess Hams in Florida can't read or don't care.
It is amazing how many people will operate a system or program without
knowing what they are doing. The old add age "WHEN ALL ELSE FAILS, READ
THE DIRECTIONS" sure holds true in Florida.

The asbestos suit is in place and the fire extinguishers are ready!!!

Bud (WB4LTF)

---

202. Re: [APRSSIG:3635] Re: Differential GPS

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 11 Aug 1996 23:02:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608120402.XAA07492@solar.cs.tamu.edu>
Rendered body type: text/plain

Chris Terwilliger sez:

>
> Actually, I had two thought processes going at the same time and they got
> melded during typing...

Happens sometimes! I've had that happen frequently when addressing the SIG...

> I think Bob has already tried the above method and it suffers from the
> things you point out here.

Indeed. Although this *IS* the 2ndary correction I use to get to submeter accuracy with the cows. But here I have all receivers with the same firmware and programming, in a relatively unrestricted access region for the sky, and started all about the same time, within 10 minutes of each other and allowed to acquire and go on. Makes a big difference.

> The better solution is to find a way to code or encapsulate the RTCM
> binary data and use the digipeater to transmit it to the users. Then
> APRS (or other software) can decode it and send it on to the GPS. I see
> you have been working on the coding, there must be a way...Is the RTCM a
> contant stream or could it be broken up into packets?

```
I use a Tiny-2 Mk2, in transparent mode, 8 bits, packtime AFTER 5, and
granularity set to 15 seconds.  For the Cows project that works just fine.
Granularity bet beyond 30 seconds dilutes the correction accuracy
significantly by requiring too many interpolations and too much error
propagation for my comfort.

It *IS* a fairly short packet, 256 bytes every 15 sec.  Oh, and it should NOT
be set to "RELAY,WIDE,WIDE" as you only want the data propagated around the
fairly local area you're in with the base station.  I'd think a "RELAY WIDE"
at most, or maybe just "WIDE" would suffice.

73, gerry
```

---

203. WB0WNX-7 Finally Seen!

From: ku0g@sprynet.com
Date: Sun, 11 Aug 1996 21:58:09 -0700
To: aprssig@tapr.org
Message-ID: <199608120458.VAA23683@m1.sprynet.com>
Rendered body type: text/plain

```
Well, we finally saw WB0WNX-7 Air Mobile this evening beginning about 2330
CDT....Sending $GPRMC strings only.  Received following one time:

/120426z3946.12N/09454.37W'360/96./raw*/good RMC fix

Saw several repeats of this same data over the course of the last 15-20 minutes.
 I suspect that he is/was either taxiing at Rosecrans or his GPS shut down at
the 99 knot limit!

Since he's a pilot, though, I'd bet he's not running a GPS-45!!!

Anyway, at least his tracker IS working to a point as far as I can see....

We'll look forward to hearing from him when he lands at SUX...

BTW:  What's the chances of having that Air Mobile down here in Kansas City area
over the weekend of Sept. 7-8?  It would make a GREAT airborne APRS command post
for the MS-150 Bike Ride (not to mention the PERFECT digipeater) crusing along
at about Angels-10...  (UZQ are you getting this????  Would this be WAY cool, or
what!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

204. Activity inthe east

From: Jeff.Ruhnke@115-410.usbbs.com (Jeff Ruhnke)
Date: 11 Aug 96 11:04:00 -0500
To: aprssig@tapr.org
Message-ID: <a4d_9608120420@usbbs.com>
Rendered body type: text/plain

```
I am planning a trip east on a business/vacation. I will be leaving
Chicago on the Aug 22 travelling east on I-90 to Erie PA then east on
PA/NY state RT 17 to Binghampton NY, then on to Phily (ST Peters), and
finally into DC, and then home.  What kind of aprs traffic should I
expect to see along the way. I know I should see some traffic in DC
but I am not shure what to expect elsewhere. I don't know if I will be
running APRS on the entire trip. When i am, I will be running with a
manual position input as I do not have a GPS yet. I will be running
as a -9.

Jeff Rhunke N9WEB
Member of the Board Northern Illinois APRS Network  (NIAN)
E-mail Jeff.Ruhnke@MWBBS.COM


___ Blue Wave/QWK v2.20 [NR]
--
|Fidonet:  Jeff Ruhnke 1:115/410
|Internet: Jeff.Ruhnke@115-410.usbbs.com
|
| Standard disclaimer: The views of this user are strictly their own.
```

---

205. Meteor Scatter

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 12 Aug 96 05:19:50 -0400

To: <aprssig@tapr.org>
Message-ID: <199608120916.FAA18784@bridge.net>
Rendered body type: text/plain

```
I only heard a single packet that was likely to be meteor scatter:

AB5TB>APRS,RELAY:@111533/[EL29li]

This was heard direct, not through the relay, at 1919z on 8/11.

There was way too much local QRM on 145.79 for me to have much of a
chance to hear anything.

Steve KO4HD
```

---

206. Re: [APRSSIG:3680] Re: Problem with Garmin 45 signal acquisition

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 12 Aug 1996 05:50:24 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae34b8971a4a@[199.1.11.104]>
Rendered body type: text/plain

```
If you had a 1/4 amp fuse in the power feed you were ok.

try
1. enter your Lon/lot/ alt and time via the keys
2. Force a search the sky mode
3. remove all power and batteries for a day or so
   to reset.
4. Check the Secret Diag mode which I think also does a reset
   see the Garmin-45 Faq
----------
Diagnostics mode:
  To get into this mode, quickly after turning on the power (while the globe
  is still spinning), press all 4 arrows one at a time (in any order).

  2 or 3 digit numbers are added to many screens.  Reportedly they are the
  process stack depth.                                                 |

  The signal strength bars are initially hollow. They become solid apparently
  when some specific data has been downloaded from the satellite.

  The number in the bottom right of the satellite screen (usually something
  like 1.3 or 4.2), looks like an indication of the geometric degradation of
  [precision] (GDOP).  It varies with the number and location of satellites
  being received, being lowest when a group of satellites scattered widely over
  the sky are present, and highest for a cluster of satellites, or when the
  received satellites are all in a straight line.  It also seems to vary in
  step with the "accuracy" number normally displayed in the top right.
  Contributed by proach@cais2.cais.com (Peter Roach)

  The internal temperature in degrees Fahrenheit is added to the position
  screen to the right of the time.

  A "DIAG" option is added at the bottom of the menu screen.  The following
  is displayed on the DIAG screen:

    Battery voltage in hundredths of volts.
    Elapsed time (can be zeroed by pressing ENTER).
    Screen can be paused by pressing MARK.
    Looks like there is a lot of internal software debugging info.

Get the full FAQ
Garmin GPS 45/40/38 Frequently Asked Questions
==============================================

V 1.081 Aug 8, 1996

Compiled by Lane A. Holdcroft

---------------------------------------------------------------

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

207. Activity in Minnesota

From: jack swift <jswift@up.net>
Date: Mon, 12 Aug 1996 07:56:58 -0500

To: aprssig@tapr.org
Message-ID: <9608121156.AA06996@btc1>
Rendered body type: text/plain

any chance there's someone running APRS around Bemidji, MN?

or any chance a rallyist is listening and planning on going to Ojibwe on the 24th?

how about the possibility that someone's got dos maps of the bemidji area (with trails and logging roads)?

```
--------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

208. Trimble and battery life

From: smiller@intelsun.rus.uni-stuttgart.de (Shannon Miller)
Date: Mon, 12 Aug 1996 16:29:11 +0200 (MET DST)
To: aprssig@tapr.org
Message-ID: <9608121429.AA06894@intelsun.rus.uni-stuttgart.de>
Rendered body type: text/plain

Sorry if this has already been answered many times, but I've been away for a while...

If the battery life for the Garmin-45 is "10 to 20 hours" with the standard antenna which comes with it, what can be expected if one uses that active Trimble antenna sold by PacComm?

Second question: A while back there was a debate (here?) that the active Trimble antenna actually caused damage to the Garmin-45 if operated for extended periods of time. It seems to me this debate finally concluded that it wasn't really true. Any developments since then?

73,

--Shannon, DL6SEU/N7APC

209. Re: [APRSSIG:3668] Running APRS on an HP 200XL...

From: deang@mail.syntron.com
Date: Mon, 12 Aug 96 10:00:59 CST
To: aprssig@tapr.org
Message-ID: <9607128398.AA839870033@mail.syntron.com>
Rendered body type: text/plain

I have been running APRS on my 200LX for months with no problem. I only have the standard 2Mb installed so I keep the number of maps to a minimum. I built a GPS tracker with the HSP circuit. I connect my tracker to the 200LX with the $18 serial cable and I'm online.

I had a great time using it this past weekend to watch/chase the BLT-12 balloon launch from Wharton, Texas. Too bad APRS doesn't do 3D predictions on where the balloon will land based on the RMC strings and the change in altitude. It did work rather well....I was able to drive right under it and watch it land in a cotton field.

```
        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3668] Running APRS on an HP 200XL...
Author:  aprssig@tapr.org at INTERNET_MAIL
Date:    8/11/96 9:16 AM
```

APRS aficionados,

Quick history: A couple months ago my boss bought himself one of those nifty HP palmtop PCs to use for his schedule, notes, etc. He loves it and has extolled the virtues of it so much that when I asked for one he couldn't get off by telling me "No."

"So what?" you say... Well I have another agenda (pun
intended...) for my 200XL! Driven to temptation by the
occasional message I see on the SIG, I intend to run APRS on
mine!

Any of you that have attempted and/or been successful,
please lend me a hand! You have empirical knowledge I lack
and can benefit from! Send any and all comments,
suggestions, and instructions so that I may profit from your
unsurpassed wisdom! (Gee, I may be laying it on too thick,
but you can probably tell I'm asking for help...)

The unit I've obtained is a new Hewlett Packard 200LX with
2MB of RAM. What do I need, H/W and S/W wise, to make this
work? I can get the "Connectivity Kit" for $72.50, or just
the serial cable for $18.00. In addition, I have a very
kind brother-in-law that works for a major Silicon Valley
firm who's giving me at least one, maybe two, 16MB flash-RAM
PCMCIA card. (Think of the maps I could keep on the little
beastie...) What, if any, software will I need to make that
work?

Any and all help appreciated! If this goes well. I hope to
write up an "HP200LX.TXT" file for Bob to consider adding to
the APRS docs...

Bill Young
byoung@qni.com
KB0UZQ

---

210. Richmond, VA, is an APRS black hole

From: w4wwq@juno.com
Date: Mon, 12 Aug 1996 11:37:35 PST
To: aprssig@tapr.org
Cc: hhassell@i2020.net
Message-ID: <19960812.113741.22887.0.W4WWQ@juno.com>
Rendered body type: text/plain

Bob Bruninga wanted information about this BLACK HOLE.

145.790 is already active in Richmond by a BBS devoted to TCP/IP. The
call sign is K4ZIV.

The Virginia State EOC at Richmond (and with a 300' tower) call sign is
W4ZA. The trustee is K4YEF.

A "digital" contact might be Bob Smith, WA4YPV. (He may have e-mail at
BOBSMITH@i2020.net)

My source of information is Henry Hassell, K4LMY, e-mail
HHASSELL@i2020.net.
Henry has APRS software but due to other business interests and the lack
of activity in the Richmond area he hasn't been able to "push a chain"
so to speak. He wasn't able to be the catalyst to make APRS happen in
the Richmond area.

For long term planning, on the 2nd or 3rd weekend of January each year
the Richmond club (R.A.T.S.) sponsors FROST FEST, a well attended ham
fest.

Pete
Forest, VA

---

211. Running APRS on HP200LX

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 12 Aug 96 11:50:33 EDT
To: <aprssig@tapr.org>
Message-ID: <960812155033_71301.3106_FHJ64-1@CompuServe.COM>
Rendered body type: text/plain

Bill -

I run 7.6f on a 200 with 1MB internal and a 5MB flashcard, attached to a
home-brew HSP adapter for serial port sharing. I spent a very intense two weeks
running APRS mobile this way late last winter.

Adding to and amplifying some of the other's comments:

```
1) Flash card - you'll need one. It may be possible to squeeze a
super-minimized APRS system into drive C: on a 2MB 200, but I think it'd be a
constant struggle. If you go for a non-HP flashcard (there *are* bargains to be
had), you need to be sure it is "ATA-compatible". There are a lot of non-ATA
flashcards out there and they will not work in the HP.

2) Not only is map drawing slow, maps have to be redrawn every time you display
a bulletin list or other non-map display. My edu-guess is that this is because
of running in CGA mode, and there is no video display paging like you'd get
with VGA. This exacerbates the slow map draw problem, and tends to increase the
teeth-grit factor of pressing the wrong key.

3) Commercially-built HSP adapters *may* not work out of the box. I was unable
to get my HSP to work until the line-level biasing was removed. Be sure to
fully read the HSP documentation in "\README\GPS.TXT".

4) I recommend using the full Connectivity Kit. Not only do you get the cable
and an assortment of very useful adapters, the special LapLink software makes
transferring files between your PC and the 200 very easy. I run a "full blown"
APRS (help files and all) on my 200, and it's primarily because LapLink made
file transfers effortless.

5) Unfortunately, you must run APRS out of DOS. While .EXE files can be
configured to run from the 200's "Program Manager", there is not enough CPU
memory space to do it. You will have to "ALT-A, T" from the Program Manager.
Which reminds me...

6) Be *very* careful about adding TSR's. APRS takes a lot of space, and since
there is no "high memory" like you may be accustomed to on a usual DOS box,
that 640K of base memory is very precious. One or two TSR's and APRS might not
load.

7) A couple of 3rd-party mods are available for the 200 - an internal 5MB
option, and a double-speed CPU clock. The 5MB mod might be nice, but it's
roughly double the price of a flashcard. The double-speed mod is about $60, and
may be something I might just try. Either will void the warranty, however, and
there has been some talk that HP won't even repair 200's with the double-speed
mod.

8) Don't even think about the PCMCIA GPS cards. They take way too much current
for the 200's feeble card port.

9) The 200's internal power supply is very RF noisy. I had mine plugged into
the filtered power subsystem in my "mobile shack", and it took about three days
before I realized that all that funny sounding interference on three out of
four radios was the HP. No amount of filtering - chokes, ferrites, bypass caps
- would deal with it. If I ran it on batteries, no problem, so it's been on
batteries ever since.

10) I run alkalines, for their longer running life and longer shelf life.
During the trip I'd get about 2 days on a pair. The consumption problem is from
constantly powering the serial port, because otherwise the 200 is very miserly
with power.

11) After also being concerned about the auto power-off, I discovered that APRS
somehow (tho' probably not intentionally) disables this. Just don't start APRS
for grins and then forget it, because you'll kill the batteries fast (see #10).

12) A "classic" 200 problem is weak hinges. You won't see this for several
months, but with even irregular use, before it's a year old the display half
will start getting pretty floppy. I'm fabricating a simple support stand for my
heads-up display situation because it's starting to fall over when hitting
bumps.


The 200LX is certainly a usable - albeit not the best - configuration for APRS.
My biggest gripe, aside from slow map draws, is that with APRS's reliance on
color for line feature distinction, sometimes maps are a useless jumble of
lines. This makes complex maps a double-whammy: slow *and* hard to read.

But all in all, I think you'll enjoy it. It's fun, a little different, and the
"ultimate portability" certainly has utility.

  ...mike/N0QBF
     71301.3106@compuserve.com
```

212. LIST

```
From: wa4mej@juno.com (john w dent)
Date: Mon, 12 Aug 1996 12:05:08 PST
To: APRSSIG@tapr.org
Message-ID: <19960812.120516.6263.6.wa4mej@juno.com>
Rendered body type: text/plain
```

```
WA4MEJ@JUNO.COM
```

213. Re: [APRSSIG:3663] Re: FW: Re: Differential GPS

```
From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Mon, 12 Aug 1996 09:39:35 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960812083935.0092ec40@dgps.com>
Rendered body type: text/plain
```

```
On the FM subcarrier, we use between 37 and 50 bits per second.  I am
surprised just how little traffic there is over APRS here in the bay area
(145.01).  Is this not the case elsewhere.
One thing that dis surprise and disturb me was the delay in the network.  T
tried transmitting character test messages every 10 seconds, and foung up to
30 second delays in turnaround time.  Is this typical??


At 10:23 PM 8/10/96 -0500, rwf wrote:
>Gwyn wrote:
>>The problem is in generating low cost RTCM-104 data.
>
>And in finding available bandwidth in a busy 1200 bps net in which to
>transmit it.
>
>I'd rather use someone else's bandwidth if possible.
>
>Ralph
>
>
--------------  Worldwide leaders in Real Time DGPS
---------------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
----------
```

214. Re: [APRSSIG:3691] Trimble and battery life

```
From: Mark Humphrey <mark@y100.com>
Date: Mon, 12 Aug 1996 13:49:28 -0400
To: aprssig@tapr.org
Message-ID: <320F6EA8.5E06@y100.com>
Rendered body type: text/plain
```

```
Shannon Miller wrote:
>
> Sorry if this has already been answered many times, but I've been away
> for a while...
>
> If the battery life for the Garmin-45 is "10 to 20 hours" with the
> standard antenna which comes with it, what can be expected if one
> uses that active Trimble antenna sold by PacComm?

I haven't tested it, but wouldn't expect a major difference, since the Trimble circuitry
is a preamp and not likely to draw much current.

> Second question:  A while back there was a debate (here?) that the
> active Trimble antenna actually caused damage to the Garmin-45 if
> operated for extended periods of time.  It seems to me this debate
> finally concluded that it wasn't really true.  Any developments since
> then?
>

Have been using the Trimble antenna with GPS-45 for over four months and have not
noticed any problems with operation of the Garmin.  I usually operate with external DC
to the GPS-45, but it appears to work fine with battery power, too.

73, Mark N2CHV
```

215. Meteor Scatter Test

From: wmtv.tom.weeden@madison-business.com
Date: Mon, 12 Aug 96 12:50:00 CST
To: aprssig@tapr.org
Message-ID: <MAIL.4C31993D@madison-business.com>
Rendered body type: text/plain

```
Nothing heard in Madison, WI over the weekend via MS...
Was in m-scat mode from about 01z 8/10 thru 05z 8/12.

-73- Tom WJ9H
!4301.38N/08929.95W
```

---

216. Re: [APRSSIG:3697] Re: Trimble and battery life

From: rwf <rwf@mindspring.com>
Date: Mon, 12 Aug 1996 16:50:31 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960812205031.006bbd4c@mindspring.com>
Rendered body type: text/plain

```
Shannon-

The Motorola antennas draw about 25 ma, and I'd be surprised if the trimbles
drew much less.  I can tell a difference in batt life with the moto.  It
works fine on battery though.

Ralph



>Shannon Miller wrote:

>> If the battery life for the Garmin-45 is "10 to 20 hours" with the
>> standard antenna which comes with it, what can be expected if one
>> uses that active Trimble a
```

---

217. MScatter

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Mon, 12 Aug 1996 16:54:27 -0400
To: aprssig@tapr.org
Message-ID: <199608122054.QAA26442@babar.INS.CWRU.Edu>
Rendered body type: text/plain

```
Skunked again! No Mscat packets copied.  Had the program lock up
 twice so missed some time(ver 7.6f).  de Joe, AA8SF
                                       jbc5@po.cwru.edu
```

---

218. Shareware registration

From: lpchvn@juno.com (Leo-Paul A Chauvin)
Date: Mon, 12 Aug 1996 17:05:00 EDT
To: aprssig@tapr.org
Message-ID: <19960812.170741.4639.0.lpchvn@juno.com>
Rendered body type: text/plain

```
Hello,- I am Paul,KA1QP, in Manchester, NH. I have sent you, by mail, an
application for APRS Registration, and for the 3 1/2 in. program disk , I
would appreciate any information and/or instructions on how to operate
APRS  efficiently.
  Thanks,     Paul,  KA1QP,
*** Bye for now ***
W ill  E-MAIL YOU  LATER
***  Paul ***
lpchvn@juno.com
```

---

219. Free email service

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Mon, 14 Jan 1980 17:04:15 +0000
To: aprssig@tapr.org
Message-ID: <199608122111.RAA23090@hemisphere.neocomm.net>
Rendered body type: text/plain

```
NON APRS  anouncment!!,

   But how many of us Hams can refuse a free service like this.

    Free email for anyone with a PC runing Windows. This is really
free, a completley free internet service by Juno. Included is free
Juno, Windows email software (has a great spell check built in).
So who pays for this service??? Advertisements pay ...just like for
over the air TV. When you download your mail through the toll free
```

numbers provided, you also down load some advertisments. These
advertisements are very un invading, commercials for grape juice,
sports service, internet stuff....nice little pictures that don`t get
in your way.

    To get the free software disk ;

call   1-800-654-5866

or email signup@juno.com
send them your complete postal address

Great for anyone that just wants free email, or a second email
account.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA

220. Interim report on using HP200LX for APRS

From: byoung@qni.com
Date: Mon, 12 Aug 1996 18:22:08 -0500
To: aprssig@tapr.org
Message-ID: <9608122322.AA09589@qni.com>
Rendered body type: text/plain

Fellow Friends of APRS,

I've had some *FANTASTIC* feedback on running APRS on a Hewlett
Packard 200LX Palmtop PC! There are some skilled folks out there
"pushing the envelope" for the sake of amateur radio, APRS, and fun!

I would like to thank:

Mike Musick, N0QBF; George Dean, KC5KGE; Mike, AC6JA; Patrick Voigt,
KD4GCM; Dave Rice, KD4SHH; and Bob Kirk N3OZB.

My "free" PCMCIA memory card is due within a few days, and since I had
several recommendations to run from one, I'll wait (excitedly!) till
it arrives. I've also ordered the whole "Connectivity Pack" (serial
cable, adapters, LapLink software...). It'll help with APRS *AND*
assist in all the other mundane tasks you *SHOULD* use the device for.

I plan on "editing" all the notes and, giving credit to all who
contributed, then provide the "application note" to the APRS
community.

Bill Young
byoung@qni.com
KB0UZQ

221. Re: [APRSSIG:3690] Activity in Minnesota

From: ku0g@sprynet.com
Date: Mon, 12 Aug 1996 16:45:49 -0700
To: aprssig@tapr.org
Message-ID: <199608122345.QAA10006@m1.sprynet.com>
Rendered body type: text/plain

Suggest you contact KF0ZH in southern Minnesota...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

222. Re: [APRSSIG:3701] Shareware registration

From: rsellers@firecraker.com (Roger Sellers)
Date: Mon, 12 Aug 1996 19:06:08 -0600
To: aprssig@tapr.org
Message-ID: <1372245728-694439@email.firecraker.com>
Rendered body type: text/plain

```
>Hello,- I am Paul,KA1QP, in Manchester, NH. I have sent you, by mail, an
>application for APRS Registration, and for the 3 1/2 in. program disk , I
>would appreciate any information and/or instructions on how to operate
>APRS  efficiently.
>  Thanks,     Paul,  KA1QP,
>*** Bye for now ***
>W ill  E-MAIL YOU  LATER
>***  Paul ***
>lpchvn@juno.com
>
>
Hi Paul,
 Welcome to the World of APRS, I hope you enjoy it. Just a quick note for
you. You may want to use or learn to use the ability to reply in message to
the sender. I am not the original sender. I, as well as everyone else on the
APRS sig received this message. In otherwords, your message "REPLY" went to
the sig and not directly to the person you intended. You will probably need
to cut and paste the name of who you want to reply to. If you just enter
reply when reading a message on the sig, eveyone sees it.
 I hope this helps, and again, welcome to the sig.

73
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

223. Slow 145.01 digi turnaround

From: ttyamada@CCGATE.HAC.COM
Date: Mon, 12 Aug 96 16:54:35 PST
To: aprssig@tapr.org
Message-ID: <9607128398.AA839895257@CCGATE.HAC.COM>
Rendered body type: text/plain

```
Ronald P. Haley  wrote:

     >  I am surprised just how little traffic there is over APRS here in
     >the bay area (145.01).  Is this not the case elsewhere.
     >One thing that dis surprise and disturb me was the delay in the
     >network.  T tried transmitting character test messages every 10
     >seconds, and foung up to 30 second delays in turnaround time.
     >Is this typical??

     How long is your digi path?

     If you're sending a path all the way down to the digi in
     the Crestline area(San Bernadino Mtns) it could easily
     be that long.

     If it's a short digi path, Maybe it's some traffic that
     your high level digi is seeing that you're not.
     (just a guess)


     73,
     Ted KJ6ZJ (in Torrance, CA)
```

---

224. Re: [APRSSIG:3687] Activity inthe east

From: rsellers@firecraker.com (Roger Sellers)
Date: Mon, 12 Aug 1996 19:41:05 -0600
To: aprssig@tapr.org
Message-ID: <1372243631-820555@email.firecraker.com>
Rendered body type: text/plain

```
>
>Jeff Rhunke N9WEB
>Member of the Board Northern Illinois APRS Network  (NIAN)
>E-mail Jeff.Ruhnke@MWBBS.COM

Hi Jeff,
  I too am a member of NIAN, not on the board though. I live in Rockford.
Paul, WA9FFL and I were talking today. I noticed the "NOTE" on APRS that
NIAN has DFjr's for sale. This is the first that I had heard that NIAN was
or had planned to purchase DFjr's. I had ordered one for Agrelo myself.
WA9FFL recently received his. Since I have seen no e-mail communication from
NIAN in over 2 months this came as a surprise. We may have ordered them thru
the group had we known. 2 members displayed one at the Rockford Hamfest, and
told us they were ordered already. I beleive they were ordered before Paul
and I ordered ours.
```

I'll be a bit polite when I question how NIAN could afford a quantity purchase to sell DFjr's in Chicago when it could'nt afford to help WA9CJN to my knowledge.
NIAN was extremely cash poor to the last of my knowledge at meetings. Since I've not been notified of any meetings, thus have not been able to attend such, or received a e-mail of minutes, etc, it's hard to know whether or not there has been a major influx of new members to sustain such a group purchase with funds up front. But in all actuallity, I suspect an enterprising member that is monetarily comfortable has bank-rolled this and is sharing the profit/risk with NIAN. In either case, as a member of NIAN, it would have been nice to have some advance knowledge. I might not have been so inclined to contact Agrelo directly.

We're wanting to purchase a TNC to use at an antenna site that's available to us. Our host has volunteered a place fairly high up on a tower and the use of a radio for APRS. Its available for the price of a TNC. I dunno, whats a DIGI up 300ft on Rockford worth to NIAN. Maybe not much if we as members,are not even kept informed as to club activities.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

---

225. Re: [APRSSIG:3677] Problem with Garmin 45 signal acquisition

From: David Wells <davew@cruzio.com>
Date: Mon, 12 Aug 1996 21:53:33 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608121951.aa01782@cruzio.com>
Rendered body type: text/plain

```
At 07:16 PM 8/11/96 -0500, you wrote:
>Have been using my Garmin 45 in the car utilizing an outside antenna. Worked
>fine until recently. The unit now will not acquire any of the satellite
>signals and will shut off after 5 minutes or so.   Tried new batteries and
>the portable antenna that came with it and no luck.  Any thoughts regarding
>this would be helpful before I attempt to call Garmin.  I see no place for a
>reset on the GPS.  I did clear the track logging because it said all the
>memory was used up.  Thank you.
>
>Jim Kauten, KO4RQ
>=====================================================
>James R. Kauten, M.D.,  KO4RQ (kauten@mindspring.com)
>=====================================================
>Phone:      (404) 355-9537 (Fax)            (404) 355-9515 (Daytime)
>Address:  James R. Kauten, M.D.,  95 Collier Road,  Suite 2055
>                                             Atlanta, GA,  30305-1955
>=====================================================
>
```

Hold the MARK button down while turning on the power. This will clear everything so save your waypoints first. I fix a lot of them doing this. Seems the almanac can get corrupted sometimes and cause the problem your having. Good luck!

By the way, I have this pain....

73 de Dave KD6TO
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA

---

226. Re: [APRSSIG:3707] Re: Activity inthe east

From: ku0g@sprynet.com
Date: Mon, 12 Aug 1996 20:35:18 -0700
To: aprssig@tapr.org
Message-ID: <199608130335.UAA02473@m1.sprynet.com>
Rendered body type: text/plain

Rogers essentially free digi in Rockford would be a great thing and I'm glad somebody is willing to support APRS....

BUT......

Did a semi-flame message HAVE to go out to the SIG? If we're going to have in-fighting (if that's what this is) in our little groups then...

1) Keep it within your own group and off the SIG...
2) Try to remember that the guy/gal at the other end of the keys IS a person...
3) As long as we're fighting, remember NOTHING IS GETTING DONE!!!

IMHO: TNCs are dirt cheap....Kantronics KPC-3 can be had for as low as $99.00
on sale, even at the regular $119 they're still readily affordable. (I'd go in
for fourths with three of my other users if it meant a new digi site!)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

227. Re: [APRSSIG:3702] Free email service

From: William Nolle <"wa8inz@cris.com"@cris.com>
Date: Mon, 12 Aug 1996 19:07:16 -0700
To: aprssig@tapr.org
Message-ID: <199608130007.UAB19159@cliff.cris.com>
Rendered body type: text/plain

Charles W. Davidson wrote:
>
> NON APRS anouncment!!,
>

Your right it isn't APRS related.

> But how many of us Hams can refuse a free service like this.

There's no such thing as FREE!.

>
> send them your complete postal address
>
> Great for anyone that just wants free email, or a second email
> account.
>

There we go it's not FREE, they sell your address and also send to you
types of brochures and coupons advertising etc etc.

>
> cdavidso@neocomm.net
> http://www.neocomm.net/~cdavidso/
> WB4PAN@WB4QOJ.VA.USA.NOAM
> wb4pan@juno.com
> APRS ALDHA

No thanks, and your wrong it's not free!.

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

228. KPC-3

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Mon, 12 Aug 1996 23:04:01 -0400
To: aprssig@tapr.org
Message-ID: <320FF0A1.2BBC7304@cyclades.com>
Rendered body type: text/plain

ku0g@sprynet.com wrote:

> IMHO: TNCs are dirt cheap....Kantronics KPC-3 can be had for as low as $99.00
> on sale, even at the regular $119 they're still readily affordable.

The real TNC2 clones (MFJ-1270 and such) may really be a better
"investment". Sure, they're a bit bigger, and about the same pricew
($119), but they do use "real" TAPR ROMs (ongoing firmware upgrades),
and have 9600 baud capability.

Don't get me wrong.. the KPC-3 is a good unit, comparable with the
others in its price range. Just be aware of its limitations; unless
Kantronics made MAJOR hardware changes in the unit, it's NOT possible to
use them at anything other than 1200 baud.

229. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 03:50:02 EST
To: aprssig@tapr.org
Message-ID: <199608130753.CAA28488@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

230. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 04:20:02 EST
To: aprssig@tapr.org
Message-ID: <199608130823.DAA29287@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

231. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 04:20:03 EST
To: aprssig@tapr.org
Message-ID: <199608130823.DAA29289@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

232. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 04:25:02 EST
To: aprssig@tapr.org
Message-ID: <199608130823.DAA29288@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

233. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 04:35:02 EST
To: aprssig@tapr.org
Message-ID: <199608130838.DAA29817@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

234. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 05:10:02 EST
To: aprssig@tapr.org
Message-ID: <199608130913.EAA01501@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

235. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 05:15:02 EST
To: aprssig@tapr.org
Message-ID: <199608130918.EAA01977@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

236. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 05:20:02 EST
To: aprssig@tapr.org
Message-ID: <199608130923.EAA02343@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

237. Unrecognized recipient in message

From: tsxbbs.smtp.mail.tosser@wingsbbs.com
Date: Tue, 13 Aug 96 05:30:02 EST
To: aprssig@tapr.org
Message-ID: <199608130933.EAA02815@tapr.org>
Rendered body type: text/plain

```
You recently sent a message to jims@wingsbbs.com which could not be delivered.
There is no person with this name at Wings, Inc..  Typically, this is the
result of a slight misspelling or the omission of a period between the first
and last names.  Your message was delivered to the mail clerk, mailclerk,
since your intended recipient was not recognized.
```

---

238. APRS in Montana?

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Tue, 13 Aug 1996 06:54:42 EDT
To: aprssig@tapr.org
Message-ID: <19960813.045159.5367.0.aa7ya@juno.com>
Rendered body type: text/plain

I take it, with the limited detail, according to my files, there is no detailed information in map form for Montana, so I must assume there is no other activity in the state. If there is activity, let me know, so that we may get in touch via personal E-Mail exchange.... If I even get someone out of state, I would be more than glad to get in touch with you.

Not much to ask of anyone, just want to grow and learn about APRS, as I recently got into APRS about a year ago, and signed up with the SIG a week ago. Been reading some of the SIG, and learning as I go along.

Sorry I didn't put grid-DN78 on the air, was away from the computers over the MS weekend.... Maybe next year I'll fire up the 6-element beam and 50 watts for the next M-scatter test.

+++++
73, Stacey AA7YA   Box 83, Whitetail, MT 59276
* Residing in a rare grid - DN78 *
Infobahn Off-ramp: aa7ya@juno.com
RF: aa7ya@aa7ya.#nemt.mt.usa.noam -or- aa7ya@aa7ya.ampr.org
[44.82.31.2]

---

239. Re: Free email service

From: ad4bl@juno.com (Linda G Mullen)
Date: Tue, 13 Aug 1996 07:01:13 CDT
To: aprssig@tapr.org
Message-ID: <19960813.070115.3358.0.ad4bl@juno.com>
Rendered body type: text/plain

On Tue, 13 Aug 1996 00:51:13 -0500 (CDT) William Nolle
<"wa8inz@cris.com"@cris.com> writes:

```
>Charles W. Davidson wrote:
>> NON APRS  anouncment!!,
>Your right it isn't APRS related.
>>    But how many of us Hams can refuse a free service like this.
>There's no such thing as FREE!.
snip
>> cdavidso@neocomm.net
>> http://www.neocomm.net/~cdavidso/
>> WB4PAN@WB4QOJ.VA.USA.NOAM
>> wb4pan@juno.com
>> APRS ALDHA
>No thanks, and your wrong it's not free!.

>       Bill WA8INZ
>     wa8inz@cris.com
>    wa8inz@amsat.org
I realise that this is not an APRS subject but I would like to respond to
Bill's statements...
Many amateurs are equipment poor but with Juno, if they have a computer
and a modem
they have email.  Many of the amateurs here are getting on email...that
makes my job so much
easier. Juno email goes to any address world wide...they provide good
service...they are
responsive to their members...they have developed a good
product...provide free access
lines and the service is underwritten by their sponsors.  They are
concerned about the
privacy of their members and as to the charge that they sell
address....don't know if they
do but if you have a credit card, order anything from a catalogue, or
have an account any
where your address gets sold...for more information JUNO is on line at:
http://www.juno.com.  I use Juno to send hurricane advisories, district
information, net
rosters, and other information.  It gets there faster and I don't have to
spend megabucks on
postage.  I invite you to check it out.

Linda  AD4BL
DEC East Panhandle District
Northern Florida Section
```

---

240. Re: [APRSSIG:3643] Re: snabkey@wings.net

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Aug 1996 08:44:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960813084353.22586D-100000@arctic>
Rendered body type: text/plain

```
On Fri, 9 Aug 1996 ku0g@sprynet.com wrote:

> snabkey@wings.net is Sam Nabkey, WJ8T (I think I've got the call right it's a
> 2x1 at any rate)...
>

APRSdos REPLY/COMMENT:  Ok, Now I forgot his question, but his mail
address is not working for me..  So tell him I answered, but its not
getting to him,,...


Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

241. Re: [APRSSIG:3648] Hmm

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Aug 1996 08:51:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960813085015.22586H-100000@arctic>
Rendered body type: text/plain

```
On Fri, 9 Aug 1996 KD4EMI@aol.com wrote:

> I see alot of bulls that really should be for local info...
> Would there be a way, short of turning off the HF port  to write some code
> to just xmit bulls on HF or VHF exclusively ?

APRSdos REPLY/COMMENT:  Sure.  Load a VHF and HF only path in your
OPS-DIGI list.  THen when you want to send a bulletin to HF only , then
```

just send it BLN1/HF or BLN1/VH...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

242. Re: [APRSSIG:3707] Re: Activity inthe east

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 13 Aug 1996 07:54:50 -0600
To: aprssig@tapr.org
Message-ID: <1372199606-3468630@email.firecraker.com>
Rendered body type: text/plain

my previous message was not intended to go out to the sig. I either mis-addressed the reply (a couple of them in a row???) or the sig mailer might not have handled it correctly. I did receive some strange non-deliverable message replies to a wings.com which I know I didnt send any messages to.

In either event, my apologies to the sig. End of bandwidth.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

243. Re: [APRSSIG:3723] Re: snabkey@wings.net

From: kc8ux@w8dc.ampr.org
Date: Tue, 13 Aug 96 09:14:45 EDT
To: aprssig@tapr.org
Message-ID: <152408@w8dc.ampr.org>
Rendered body type: text/plain

Ref: WJ8T's mailing address: snabkey@wingsbbs.com

244. Re: [APRSSIG:3684] Meteor Scatter Test

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Aug 1996 09:32:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960813092602.22586O-100000@arctic>
Rendered body type: text/plain

On Sun, 11 Aug 1996, B.G. Gotshall wrote:

> It was interesting to see how the recent M Scatt. test worked in Florida.
> Almost NO ONE disabled their digi paths, gates etc.
> I tried on Sat. evening but after a number of phone calls telling me that
> my station was broken or operating illegal I gave it up.
> I posted a bullet on on aprs and copied the Test Announcement by WA1LOU
> to the local BBS but I guess Hams in Florida can't read or don't care.

APRSdos REPLY/COMMENT: I believe we assume too much from this SIG.. We have now had TWO space shuttle SAREX's authorized for APRS, and yet fewer than 60 stations tried... It is tempting to believe that exciting APRS things posted here get out to all the world, but I now think the 10% rule applies. I think we have too much traffic and so many dont read most of it. hi hi. I dont blame them...

BUT, It is incumbent on all SIG members here, to ANNOUUNCE via their local APRS BLNS that an event is comming. If you dont announce it on your local VHF net in advance, then you will be the only 1% that knows about it...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

245. [APRSSIG:3392] Re: Fwd: Another Stamp application -Reply

From: Terrance Kealey <tkealey@mdc.com>
Date: Tue, 13 Aug 1996 08:53:07 -0500
To: aprssig@tapr.org
Message-ID: <s21042a8.036@mdc.com>
Rendered body type: text/plain

Hi Bob,

I saw your posting awhile back and would like to get the source code for the Domino. I originally looked into using one to interface with my GPS,

```
but due to time constraints I decided to use the MIM module.  The MIM
does not do everthing I want and I am now looking at other alternative.

Thanks,
73s Terry, KI0BF
```

---

246. Re: [APRSSIG:3696] Re: FW: Re: Differential GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Aug 1996 10:00:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960813095936.2078B-100000@arctic>
Rendered body type: text/plain

```
On Mon, 12 Aug 1996, Ronald P. Haley wrote:

> One thing that dis surprise and disturb me was the delay in the network.  T
> tried transmitting character test messages every 10 seconds, and foung up to
> 30 second delays in turnaround time.  Is this typical??

APRSdos REPLY/COMMENT:  Using APRS or WinAPRS?  30 second delays to where?
How many hops?  Tell me more.

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

247. Re: [APRSSIG:3718] Unrecognized recipient in message

From: james a soles <jims@wingsbbs.com>
Date: Tue, 13 Aug 1996 14:13:44 -0700
To: aprssig@tapr.org
Message-ID: <3210F008.21F6@wingsbbs.com>
Rendered body type: text/plain

```
tsxbbs.smtp.mail.tosser@wingsbbs.com wrote:
>
> You recently sent a message to jims@wingsbbs.com which could not be delivered.
> There is no person with this name at Wings, Inc..  Typically, this is the
> result of a slight misspelling or the omission of a period between the first
> and last names.  Your message was delivered to the mail clerk, mailclerk,
> since your intended recipient was not recognized.wingsbbs.com has been changing phone services and ip
address. So
hopefully you can get mail to sam (wj8t) and (jims) now.
```

---

248. Re: [APRSSIG:3726] Re: snabkey@wings.net

From: n8wkm@w8dc.ampr.org
Date: Tue, 13 Aug 96 14:30:01 EDT
To: aprssig@tapr.org
Message-ID: <152526@w8dc.ampr.org>
Rendered body type: text/plain

```
Saam's provider is going through some major changes right now and
will be back up to full speed soon (major groing pains). In the
meantime he can and does read the sig on the local packet BBS.

           ++++++++++++++++++++++++++++++++++++++++++++++++++++++
           +  Dan Thompson              "What do you mean it   +
           +  n8wkm@n8wkm.ampr.org         it doesn't work     +
           +  n8wkm@hamgate44.gvsu.edu   Try a bigger hammer"  +
           +  n8wkm@ agn.n8wkm.ampr.org                        +
           ++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

---

249. Wharton Balloon status

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Tue, 13 Aug 1996 14:58:47 -0500
To: aprssig@tapr.org
Message-ID: <v02140b00ae368cd027e4@[204.251.33.83]>
Rendered body type: text/plain

```
Got the following reply from Andy about the Wharton balloon launch. Guess I
gave up too soon (had a lunch appointment). Did anyone here copy the
signals?

Ron W5RKN


>
>
>Hi Ron!  Yes it went up! at 11:22 AM.
>1.  We popped a balloon in the hanger, therefore the delay.
```

```
>2.  Cndx were really poor on 40 M, thus poor copy & no real activity.
>3.  Perfect launch
>4.  Almost perfect copy of TV up an down!
>5.  Balloon burst visible and recorded on video tape from the ground.
>6.  Balloon burst obvious on TV from balloon.
>7.  Landing videotaped by chase team.
>8.  Video from package copied down to under 100 feet - full color.
>9.  Telemetry excellent!  GPS, analog, etc.
>10. NO failures!
>11. 5.61 mile ground track!
>12. I didn't even bother to chase the package... they brounght it
>    back to the airport!
>13. Max altitude was 79,600 feet.
>14. 35 mm pix OK, blurring on 60 percent due to unstabilized sub-pkg.
>15. NO damage to any components.
>16. Easy recovery... we missed the truck by 6 feet!
>
>73!  Andy
>
>On Sun, 11 Aug 1996, Ronald G. Parsons wrote:
>
>> Andy,
>>
>> Did anything happen with the balloon launch yesterday? Several of us in
>> Austin listened to 144.29 and 7155 but heard nothing.
>>
```

---

250. My ISP is growing too fast!

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Tue, 13 Aug 1996 16:27:06 -0000
To: aprssig@tapr.org
Message-ID: <199608132027.PAA01140@tapr.org>
Rendered body type: text/plain

```
Just to let folks know, my ISP is growing too fast for me to keep up
with all the changes.

Now, I know folks have been trying to send me mail BUT the address I
have been using was broke.

Here is the RIGHT address:

snabkey@wingsbbs.com
```

---

251. Re: [APRSSIG:3727] Re: Meteor Scatter Test

From: jack swift <jswift@up.net>
Date: Tue, 13 Aug 1996 16:43:53 -0500
To: aprssig@tapr.org
Message-ID: <9608132042.AA00521@btc1>
Rendered body type: text/plain

```
At 08:39 AM EST 8/13/96 -0500, Bob wrote:
>BUT, It is incumbent on all SIG members here, to ANNOUUNCE via their local
>APRS BLNS that an event is comming.  If you dont announce it on your local
>VHF net in advance, then you will be the only 1% that knows about it...
>
        i HATE IT when you're right! -- at least i could have mentioned it
to the active 6m guy...
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

252. [APRSSIG:3728] Re: Fwd: Another Stamp application -Reply

From: Terrance Kealey <tkealey@mdc.com>
Date: Tue, 13 Aug 1996 12:33:34 -0500
To: aprssig@tapr.org
Message-ID: <s210ac44.032@mdc.com>
Rendered body type: text/plain

```
Sorry about this.  I selected the wrong reply address.

Terry, KI0BF
```

---

253. Re: [APRSSIG:3726] Re: Need info on TAPR

From: James Kerns <jkerns@usit.net>
Date: Tue, 13 Aug 1996 17:56:43 -0400
To: aprssig@tapr.org
Message-ID: <199608132156.RAA14961@use.usit.net>
Rendered body type: text/plain

```
Need someone to email me the tapr address on FTPcto connect to to download
programs for APRS.
I get new computer and software and lost FTP address

Thanks

Jim, N4PUQ in Tn.  jkerns@usit.net   or jkerns@juno.com
>
>
```

---

254. WX station bug?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 13 Aug 1996 18:16:42 -0400 (EDT)
To: APRS sig group <aprssig@tapr.org>
Message-ID: <Pine.BSF.3.91.960813180031.7374A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
Bob,

A week or so ago I posted a msg regarding the way APRS reads and stores
the rain gauge data. You posted the answer to *that* question. Thank you.

In my ogiginal post, I mentioned that I did not think my station was
acting acording to the WX docs. But I didn't feel like climbing up to the
rain gauge on the roof to trip the gauge, so I waited 'till it rained.

Now I'm sure .... it does not act like the docs say it should.

Today we had enough rain to trip my .1 in gauge in the morning. This
afternoon, I sat down at my computer and checked my Pos report. It was as
expected (R000,P010). I went to the P screen within APRS. I then reached
over to the Ultimeter II and checked the rain data. It read .1 in. (the
down arrow //daily// screen, not the up arrow //monthly// screen)

I then *cleared* the rain guage screen, and watched what happened on my
APRS screen....

The next time APRS said "Getting WX station data" my Pos report WX (rain)
data went to all periods!  (R...,P...) as if I didn't have a rain gauge
connected at all. This condition continued only until the next "Getting
WX station data" when the periods were replace with all zeros (R000,P000)

I don't think it should be acting this way. As the only APRS WX station
in Eastern Massachusetts I'd like to be transmitting valid data. Now the
next thing to try is to let it trip again, and this time *not* clear the
Ultimeter II, and see how long APRS keeps the data. (but I don't know how
long till it rains again)

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

255. Re: [APRSSIG:3707] Re: Activity inthe east

From: edwardwr@inil.com (edwardwr)
Date: Tue, 13 Aug 1996 17:46:58 -0500
To: aprssig@tapr.org
Message-ID: <19960813224657865.AAA291@KAREN>
Rendered body type: text/plain

```
At 07:50 PM 8/12/96 -0500, you wrote:
>>
>>Jeff Rhunke N9WEB
>>Member of the Board Northern Illinois APRS Network  (NIAN)
>>E-mail Jeff.Ruhnke@MWBBS.COM
>
>Hi Jeff,
>  I too am a member of NIAN, not on the board though. I live in Rockford.
>Paul, WA9FFL and I were talking today. I noticed the "NOTE" on APRS that
>NIAN has DFjr's for sale. This is the first that I had heard that NIAN was
>or had planned to purchase DFjr's. I had ordered one for Agrelo myself.
>WA9FFL recently received his. Since I have seen no e-mail communication from
>NIAN in over 2 months this came as a surprise. We may have ordered them thru
>the group had we known. 2 members displayed one at the Rockford Hamfest, and
>told us they were ordered already. I beleive they were ordered before Paul
```

>and I ordered ours.
>
>   I'll be a bit polite when I question how NIAN could afford a quantity
>purchase to sell DFjr's in Chicago when it could'nt afford to help WA9CJN to
>my knowledge.
>NIAN was extremely cash poor to the last of my knowledge at meetings. Since
>I've not been notified of any meetings, thus have not been able to attend
>such, or received a e-mail of minutes, etc, it's hard to know whether or not
>there has been a major influx of new members to sustain such a group
>purchase with funds up front. But in all actuallity, I suspect an
>enterprising member that is monetarily comfortable has bank-rolled this and
>is sharing the profit/risk with NIAN. In either case, as a member of NIAN,
>it would have been nice to have some advance knowledge. I might not have
>been so inclined to contact Agrelo directly.
>
> We're wanting to purchase a TNC to use at an antenna site that's available
>to us. Our host has volunteered a place fairly high up on a tower and the
>use of a radio for APRS. Its available for the price of a TNC. I dunno,
>whats a DIGI up 300ft on Rockford worth to NIAN. Maybe not much if we as
>members,are not even kept informed as to club activities.
>
>73,
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@firecraker.com
>E-Mail Work: rsellers@snds.com
>
Roger,
NIAN didn't buy the DFjrs, Dan N9XHP did, ordering 10 two months ago. They
were bought and paid for (10 at 300 ea=$3000) at that time and he just now
got the first 5 in.
We are using most of them for Marine Safety on Lake MI with the USCGAUX but
thought that we would make two or three avabile for sale to someone who may
wish to try out DFing.
I to am puzzled by the lack of activity, I have no idea where NIAN went to,
and my calls are not returned and quite frankly it is disturbing to me as I
started up APRS activity in the metro area.
After 7 years in the Army, 18 as a street cop and 6 in an executive
governmental position I've learned that sometimes peoples egos get in the
way, this is a hobby, it's suposed to be fun.
Maybe it is time to step back and let the folks who need to get a life play
for awhile. >

73
Ed Rogers (Blackhorse 830)
N9LCI
                            MESSAGE OF THE MONTH

 "If it grows-trim it, if it don't grow-pick it up, if its to big-paint it
white"

---

256. Re: [APRSSIG:3738] Re: Activity inthe east

From: edwardwr@inil.com (edwardwr)
Date: Tue, 13 Aug 1996 18:46:43 -0500
To: aprssig@tapr.org
Message-ID: <19960813234642760.AAA318@KAREN>
Rendered body type: text/plain

At 05:49 PM 8/13/96 -0500, you wrote:
>At 07:50 PM 8/12/96 -0500, you wrote:
>>>
>>>Jeff Rhunke N9WEB
>>>Member of the Board Northern Illinois APRS Network (NIAN)
>>>E-mail Jeff.Ruhnke@MWBBS.COM
>>
>>Hi Jeff,
?snip?

Sorry to the SIG -new mailer- and a hot collar, should only send mail when
composed, sorry for bandwith, ah well its a hobby right?

73
Ed Rogers (Blackhorse 830)
N9LCI
                            MESSAGE OF THE MONTH

 "If it grows-trim it, if it don't grow-pick it up, if its to big-paint it
white"

257. KU0G and Karla Mobile APRS Weekend!!!

From: ku0g@sprynet.com
Date: Tue, 13 Aug 1996 18:57:30 -0700
To: aprssig@tapr.org
Message-ID: <199608140157.SAA01839@m1.sprynet.com>
Rendered body type: text/plain

```
OKAY, EVERYBODY.....

Major Mobile Operation about to commence here....

Karla and I are headed for Chicagoland over Labor Day Weekend.  We were
originally going to go by train but now are planning a car trip.  This means
that I get to use real antennas for the APRS Mobile operation!

We will operate a live station on the way beginning Friday evening, Aug. 30.  We
will be traveling the following route:

I-35 north from Kansas City to US 36 East to Springfield, IL with a diversion up
to Jacksonville, IL, for dinner in the old Alton Depot.  We will most likely try
to drive on into Elgin, IL (where we are moteled) Friday night late.  On
Saturday we plan on driving over to Union, IL, to the Illinois Railroad Museum
and ride trains and streetcars for the biggest part of the day.

Saturday evening will find us RAILROAD MOBILE with stand-alone tracker on the
commuter trains when we travel downtown to the North Shore for dinner, etc. and
return.

Same thing Sunday except we will be working our way through the Shedd Aquarium
and the various museums on the south shore.

We will start our return trip to Kansas City early Monday morning with our
INTENDED route being I-80 west through Quad Cities and Des Moines then south on
I-35 back to Kansas City.  We will most likely do considerable wandering Monday
during the daylight hours.

We will alternate Unproto paths on the live station using:

RELAY,WIDE,WIDE
RELAY,WIDE,GATE,GATE
WIDE,WIDE
WIDE,GATE,GATE

Our tracker unit will be KU0G-15 and its path is always set to RELAY,WIDE,WIDE.

Please watch for us and if you are kind enough to turn LOGGING ON and save track
histories, we will appreciate your sending them to us!  We are also looking
forward to eyeballing as many APRS users as we can over the weekend so if we're
close, give us a call on APRS messaging and give us a voice repeater frequency
to come up on!  By default, we will monitor 146.79 MHz Voice (simplex and
offset).

Should our travel plans change and we opt to return to Amtrak, watch for us as a
train icon and beaconing "From On Board Amtraks Southwest Chief!"

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

258. Re: ?NEW FCC RULES...

From: "Stephen A. Davis" <75076.675@CompuServe.COM>
Date: 13 Aug 96 21:48:43 EDT
To: APRS SIG <aprssig@tapr.org>
Message-ID: <960814014843_75076.675_CHR106-4@CompuServe.COM>
Rendered body type: text/plain

```
Have any of you seen the new FCC rules regarding RF
exposure limits as they apply to the amateur radio service?   The new rules
are quite disturbing...It looks to me like practically anyone can shut you
down if you are running more than 50 watts pep.  The new rules require an
"exposure evaluation" if the transmitter output EIRP exceeds 50 watts...what
a crock!  These rules go into effect Jan. 1, 1997.   Does the ARRL know anything
about this??
Steve, KG0DW.
```

---

259. Re: [APRSSIG:3737] WX station bug?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 13 Aug 1996 22:42:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960813223926.21894D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 13 Aug 1996, Richard Amirault wrote:

> Today we had enough rain to trip my .1 in gauge in the morning. This
> afternoon, I sat down at my computer and checked my Pos report. It was as
> expected (R000,P010). I went to the P screen within APRS. I then reached
> over to the Ultimeter II and checked the rain data. It read .1 in. (the
> I then *cleared* the rain guage screen, and watched what happened on my
> APRS screen....

APRSdos REPLY/COMMENT:  Dont do that! hi hi.  When you cleared the WX
station, how was APRS to know that?  In fact, how was anyone on your net
to know that you zeroed your rain counters?  That is why APRS reports only
changes in rain counts.  AND therefore why if you change your rain counter
(by zeroing it) you should expect to get a bad reading...

wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

260. 20 meter gate

From: KD4EMI@aol.com
Date: Tue, 13 Aug 1996 22:48:29 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org, N2CZF@magg.net, 0004818186@mcimail.com, WB4APR@amsat.org,
DMOBLEY@encore.com
Message-ID: <960813224828_384243850@emout18.mail.aol.com>
Rendered body type: text/plain

```
I will be operating 24 hours now on 14.100 LSB. We have several 30 meter
gates that have come up within 1 hop of me. Lets try and see (AGAIN (sigh)
 if someone will come up on 20 Meters. I am using the loop
so be patient !!

Mike
KD4EMI@AOL.COM
```

---

261. Meteor Scatter Test - "READ THE DIRECTIONS"

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Tue, 13 Aug 96 23:59 EDT
To: aprssig@tapr.org
Message-ID: <m0uqX7I-000QdmC@nevets.oau.org>
Rendered body type: text/plain

```
To: aprsssig@tapr.org
Subject: Meteor Scatter Test - "READ THE DIRECTIONS"

Bud, WB4LTF, has an interesting point when he states:

 "I posted a bulletin on aprs and copied the Test Announcement by WA1LOU
  to the local BBS but I guess Hams in Florida can't read or don't care."

There are many new users on the air who were unable to access the packet
station bulletin board Bud was referring to.  As everyone knows, it takes
knowledge of the packet station, where to aim one's antenna to reach it,
and having the right tools, such as a communication package to operate
a TNC.  There are no written rules that state an APRS operator must also
have regular packet communication capability, or be signed up on E-mail
SIG to receive the lengthy directions of a "Meteor Scatter Test".

Some APRS users were upset when they were told not to use the local DIGI
during the test period.  Only a few had the 100 watt or more capability
for achieving a signal bounce, thus most felt excluded from participating.
I personally, chose to stay off the air, so as to increase the chances
of a properly equipped station to have the frequency.  I know of one other
ham who did the same.  There were also others who were wanted to use APRS
in a more conventional manner.

New users are told immediately not to RELAY, to set their station to
UNPROTO to the local DIGI station.  For the Meteor Bounce Test, the same
users were told not to use the DIGI.  Complexities in setting up to
participate was more than they could handle, and some became quite
frustrated without explicite instructions.  I spoke to one individual
who could not understand why the test was not conducted on an alternate
APRS frequency, free of DIGIS.
```

Learning APRS is a task in itself. We, as a community, are trying to encourage others to get familiar with it, and use it. At the same time we are also trying to dictate a number of rules that most do not understand or have any motivation to follow. It appears to me that the "Meteor Scatter Test" and complex exercises like it, may actually have a reverse effect to alienate users if they do not have the education or means to discover what it all about.

Geoffrey Dick
wa4ikq@nevets.oau.org

---

262. Re: Free email service

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Wed, 14 Aug 1996 04:20:05 EDT
To: aprssig@tapr.org
Message-ID: <19960813.093545.5367.0.aa7ya@juno.com>
Rendered body type: text/plain

Thought since I am a member of JUNO, I had to
add my rebuttal....

On Tue, 13 Aug 1996 00:51:13 -0500 (CDT) William Nolle
"<wa8inz@cris.com"@cris.com> writes:

> Charles W. Davidson wrote:

[SNIP... SNIP]

>>   But how many of us Hams can refuse a free service like this.
>
> There's no such thing as FREE!.

Juno is free... How? Here is how they do it.

When you are getting your mail from the JUNO Central computer, the central computer will also send images of various products or services, much like a TV commercial, or better yet a roadside billboard. If you want more information on that product, you click on the image and more details are given. Since JUNO has advertising, and just like TV, radio, or newspaper, this advertising pays JUNO's bills, and since JUNO is getting paid by the advertiser, they have no need to ask for more money from their online customers. So, in essence, the online customer, like myself, does not give JUNO my credit card number, checking account number, or any other number, even Social Security... This is called _privacy_. As long as you have Windows and a PC, with a 9600 baud or faster modem, you can access JUNO.

> There we go it's not FREE, they sell your address and also send to you

The only information that you give them is your area code, so that when you are setting up your account, offline, the software will give you a choice of local access numbers to use to call into JUNO's central computer. If there is no local number to use, then there is the option of using an 800 number that they have set up for the areas that currently don't have a local number to call. This will change, since they are adding more local numbers as time goes on. Then you also set up what you want to use for a user name, since '@JUNO.COM' is already given to you. Once you have finished setting up your account, then your computer dials up a number already programmed in the software to call, and uploads the user defined information to the central computer at JUNO, and you will get a confirmation in a matter of seconds, and you are ready for sending E-Mail.

> No thanks, and your wrong it's not free!.

If you don't use it, then you don't know.

```
> --
>           \////
>           (o o)
>     *--o00-(_)-00o--*
>        Bill WA8INZ
>      wa8inz@cris.com
>     wa8inz@amsat.org
```

-----
73 de Stacey, AA7YA
Box 83, Whitetail, MT 59276
Infobahn Off-ramp: aa7ya@juno.com
RF: aa7ya@aa7ya.#nemt.mt.usa.noam
AMPR-IP: aa7ya@aa7ya.ampr.org [44.82.31.2]

263. Re: [APRSSIG:3738] Re: Activity inthe east

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Wed, 14 Aug 1996 06:49:42 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960814114942.006df8f4@tbcnet.com>
Rendered body type: text/plain

I gotta give credit where credit's due...

were it not for Dave KA9NHL and Ed N9LCI, I wouldn't have gotten hooked on APRS, and all the great things that the program offers.

I, too, have been baffled as to where NIAN went, and why it seems to have been taken over by Chicago, and stifled.

It seemed to be such a great concept: early WX warning from lessons learned from the Plainfield tornado. And NIAN was supposed to be the body for APRS/Multi-County Severe Storm Warning System. Oh, well...maybe WA9CJN wide can still help. It's there for the ones who want to use it.

73's
bl

At 17:49 8/13/96 -0500, you wrote:

>I to am puzzled by the lack of activity, I have no idea where NIAN went to,
>and my calls are not returned and quite frankly it is disturbing to me as I
>started up APRS activity in the metro area.
>After 7 years in the Army, 18 as a street cop and 6 in an executive
>governmental position I've learned that sometimes peoples egos get in the
>way, this is a hobby, it's suposed to be fun.
>Maybe it is time to step back and let the folks who need to get a life play
>for awhile. >
>
>73
>Ed Rogers (Blackhorse 830)
>N9LCI
>   MESSAGE OF THE MONTH
>
> "If it grows-trim it, if it don't grow-pick it up, if its to big-paint it
>white"
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157 - "Been There, Done That... Got the (soggy) T-Shirt"

264. Re: [APRSSIG:3744] Meteor Scatter Test - "READ THE DIRECTIONS"

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Wed, 14 Aug 1996 08:02:31 -0700
To: aprssig@tapr.org
Message-ID: <3211EA87.4C3B@worldnet.att.net>
Rendered body type: text/plain

Geoffrey Dick wrote:
>
> To: aprsssig@tapr.org
> Subject: Meteor Scatter Test - "READ THE DIRECTIONS"
>
> Bud, WB4LTF, has an interesting point when he states:
>
> "I posted a bulletin on aprs and copied the Test Announcement by WA1LOU
>   to the local BBS but I guess Hams in Florida can't read or don't care."
>
> There are many new users on the air who were unable to access the packet
> station bulletin board Bud was referring to. As everyone knows, it takes
> knowledge of the packet station,

> Some APRS users were upset when they were told not to use the local DIGI

> during the test period.

_________________-------------MUCH Deleted-__________________________

>   Geoffrey Dick
>   wa4ikq@nevets.oau.org

First, NO ONE was told they couldn't use the digi. The Bulletin stated, " It is requested that users
set their
Unproto path to None during this test".

Geoffrey does make an interesting point when he states that many users on APRS have never used the TNC
for any
other purpose. This is true. Many have bought the TNC, hooked it up, turned it on, and started (or
tried to
start) APRS.   This may very well be why so many have trouble getting APRS to run, since their TNC has
never
been set up right to begin with.

Over the years, I have had a number of occasions where I had to field customer calls on a product. It
was
usually the case that to answer the questions, I quoted the written instructions.

Bud (WB4LTF)

265. Common courtesy...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 14 Aug 1996 08:38:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960814081508.9178B-100000@arctic>
Rendered body type: text/plain

On Tue, 13 Aug 1996, someone wrote:

> Some APRS users were upset when they were told not to use the local DIGI
> during the test period.

**** Why do some HAMs feel as though they can TELL others what to do.
Someone should have posted a bulletin for a week "inviting" stations to
minimize their activity and digi paths for the MScatt test. Then when the
test comes, just live with what you get... Also, this gives anyone who will
be using APRS for another legitimate purpose over the same time period
ample time to make his requirements known. It is only common courtesy...

> Only a few had the 100 watt or more capability for achieving a signal
> bounce, thus most felt excluded from participating.

**** COMMENT: The GOAL is to RECEIVE DX MScatt packets from a few
high power transmitters. That is how most MScatt systems work.

> Complexities in setting up to participate was more than they could
> handle, and some became quite frustrated without explicit instructions.

**** Again, where were the MScatt Bulletins a week in advance. This is
exactly why I invented the bulletin capability in the first place. It
was not so that each person could put up his own EGO postings...

> I spoke to one individual who could not understand why the test was not
> conducted on an alternate APRS frequency, free of DIGIS.

**** Great idea, find another *nationwide* clear channel for FM packet
     Where APRS stations are all "listening"...

**** So in summary, common sense, courtesy, advance warning, and patience
is all that is needed... Any event that wants air time should be
announced via BULLETIN well in advance. KEEP IT BRIEF! Put the essence
in the bulletin and a refereence to more info on a BBS somewhere. If it
is longer than 4 lines, then you are being VERBOSE... hi hi

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

266. 20 Meter report

From: KD4EMI@aol.com
Date: Wed, 14 Aug 1996 08:50:10 -0400
To: aprssig@tapr.org
Message-ID: <960814085009_501045824@emout10.mail.aol.com>

Rendered body type: text/plain

There are dozens of BBS'S forwarding mail at or around 14.100. Their signals are s9 +   I think it is going to be unlikely getting anything done their... Any other suggestions...How about 17 Meters ?

Mike
KD4EMI@AOL.COM

---

267. Re: ?NEW FCC RULES...

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 14 Aug 1996 09:40:52 PST
To: aprssig@tapr.org
Message-ID: <19960814.094100.4479.0.kf4dys@juno.com>
Rendered body type: text/plain

On Tue, 13 Aug 1996 21:35:42 -0500 (CDT) "Stephen A. Davis" <75076.675@compuserve.com> writes:

>Have any of you seen the new FCC rules regarding RF
>exposure limits as they apply to the amateur radio service?

Hi all;

I downloaded and read the FCC document 96-326, last week.

>The new
>rules
>are quite disturbing...

Only if you don't understand what the document says.

The worst case frequency (for us) is the VHF band, with an MPE of 27.5V/m.

Just off the top of my head, here are a few calculations for radiating your neighbors.

A station running a kilowatt, on CW, will have a maximum duty cycle of 5% to 20%, when averaged over 30 minutes (as the document specifies). Figuring a 20% duty cycle, your output (for MPE purposes) is only 200 watts. This gives an RF voltage of only 100 volts at the antenna. If you assume that this RF voltage is coupled with no losses to the air at one foot distance from the radiating element, then at two feet you would have 50V and at 4 feet you would have 25 volts. With a safe distance of 4 feet, what is the big deal?

Admittedly, this is a gross oversimplification, ignoring such factors as antenna losses, balun losses, transformer effects in matching devices, antenna impedance, antenna/air coupling coefficient..., but still, it should serve to demonstrate that the problem is far less than you fear.

The stations most affected by the new regs will be those running the max legal power, with high gain antennas, such as moonbounce, who will have to put their antennas farther up in the air (no more single tower sections with 19db antennas on them) and apartment dwellers running full legal power with an indoor antenna.

>It looks to me like practically anyone can shut
>you
>down if you are running more than 50 watts pep.

If you think that the FCC is going to waste it's limited manpower and funds on a major enforcement effort... Never mind, I won't comment on that absurdity.

What may happen, if you don't bother to comply, is you might be sued by your neighbor, for radiating her. That is why the FCC document suggests that you retain the record of your evaluation.

By the way, the 1992 standards by IEEE/ANSI are the same as the previously used IEEE/ANSI 1982 standards, so the danger of a lawsuit has been there for a decade already. How many operators have been sued for this in the last ten years?

>The new rules require
>an
>"exposure evaluation" if the transmitter output EIRP exceeds 50
>watts...

Again, read the document... The FCC recognises that, for most stations,

it will be a paperwork drill and suggests that the ARRL, and other
amateur radio organizations, come out with simple-to-use charts to aid
the tech and novice in figuring out where to locate the antenna, for RF
safety. Supposedly, the other license holders know enough about
propagation, to figure it out for themselves.

>what
>a crock!

I agree completely, your letter was a crock of ....

>These rules go into effect Jan. 1, 1997.   Does the ARRL
>know anything
>about this??

Yes, the ARRL has a bulletin out on the new regs... Unfortunately, the
person who wrote did not read the entire FCC document.

The ARRL bulletin states that the new regs and standards are forthcoming.
This is wrong, they are already out. Look at appendixes B and C in the
FCC document.

regards,
Joe

---

268. Re: ?NEW FCC RULES...

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 14 Aug 1996 09:56:12 PST
To: aprssig@tapr.org
Message-ID: <19960814.095619.4479.1.kf4dys@juno.com>
Rendered body type: text/plain

On Tue, 13 Aug 1996 21:35:42 -0500 (CDT) "Stephen A. Davis"
<75076.675@compuserve.com> writes:

>Have any of you seen the new FCC rules regarding RF
>exposure limits as they apply to the amateur radio service?

Hi all;

I downloaded and read the FCC document 96-326, last week.

>The new
>rules
>are quite disturbing...

Only if you don't understand what the document says.

The worst case frequency (for us) is the VHF band, with
an Maximum Permissable Exposure (MPE) of 27.5V/m. Yes,
I said Volts, not millivolts or microvolts.

Just off the top of my head, here are a few
calculations for radiating your neighbors.
A station running a kilowatt, on CW, will have a
maximum duty cycle of 5% to 20%, when averaged over 30
minutes (as the document specifies). Figuring a 20% duty
cycle, your output (for MPE purposes) is only 200 watts.
This gives an RF voltage of only 100 volts at the
antenna. If you assume that this RF voltage is coupled
with no losses to the air at one foot distance from the
radiating element, then at two feet you would have 50V
and at 4 feet you would have 25 volts. With a safe
distance of 4 feet, what is the big deal?
Admittedly, this is a gross oversimplification,
ignoring such factors as antenna losses, balun losses,
transformer effects in matching devices, antenna
impedance, antenna/air coupling coefficient..., but
still, it should serve to demonstrate that the problem is
far less than you fear.

The stations most affected by the new regs will be those
running the max legal power, with high gain antennas,
such as moonbounce, who will have to put their antennas
farther up in the air (no more single tower sections with
19db antennas on them) and apartment dwellers running
full legal power with an indoor antenna.

>It looks to me like practically anyone can shut

>you
>down if you are running more than 50 watts pep.

If you think that the FCC is going to waste it's limited
manpower and funds on a major enforcement effort...
Never mind, I won't comment on that absurdity.

What may happen, if you don't bother to comply, is you
might be sued by your neighbor, for radiating her. That
is why the FCC document suggests that you retain the
record of your evaluation.

By the way, the 1992 standards by IEEE/ANSI are the same
as the previously used IEEE/ANSI 1982 standards, so the
danger of a lawsuit has been there for a decade already.
How many operators have been sued for this in the last
ten years?

>The new rules require
>an
>"exposure evaluation" if the transmitter output EIRP exceeds 50
>watts...

Again, read the document... The FCC recognises that, for
most stations, it will be a paperwork drill and suggests
that the ARRL, and other amateur radio organizations,
come out with simple-to-use charts to aid the tech and
novice in figuring out where to locate the antenna, for
RF safety. Supposedly, the other license holders know
enough about propagation, to figure it out for
themselves.

>what
>a crock!

I agree completely, your letter was a crock of ....

>These rules go into effect Jan. 1, 1997.   Does the ARRL
>know anything
>about this??

Yes, the ARRL has a bulletin out on the new regs...
Unfortunately, the person who wrote did not read the
entire FCC document.

The ARRL bulletin states that the new regs and standards
are forthcoming. This is wrong, they are already out.
Look at appendixes B and C in the FCC document.

regards,
Joe

---

269. Re: [APRSSIG:3748] Common courtesy...

From: Roger Breckon - n8chb <n8chb@tir.com>
Date: Wed, 14 Aug 1996 15:58:49 +0100
To: aprssig@tapr.org
Message-ID: <3211E9A9.72FC@tir.com>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Tue, 13 Aug 1996, someone wrote:
>
> > Some APRS users were upset when they were told not to use the local DIGI
> > during the test period.
>
> **** Why do some HAMs feel as though they can TELL others what to do.
> Someone should have posted a bulletin for a week "inviting" stations to
> minimize their activity and digi paths for the MScatt test. Then when the
> test comes, just live with what you get... Also, this gives anyone who will
> be using APRS for another legitimate purpose over the same time period
> ample time to make his requirements known. It is only common courtesy...

///////////////////////////////

Well said Bob,

One's perception of good, bad, right or wrong my not be shared by others on this planet in the same way.

The teacher often teaches what he or she
needs to know most themselfs.

The words said here may or may not be the Truth!

n8chb@tir.com & n8chb@juno.com

---

270. Re: [APRSSIG:3741] Re: ?NEW FCC RULES...

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 14 Aug 1996 12:11:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608141711.MAA06688@solar.cs.tamu.edu>
Rendered body type: text/plain

The ARRL knows quite a bit about this, and commented significantly. I will try to find the info if there is an interest, and upload it to TAPR. FCC chose to use the data from another group that suggests increased health risks to hams, and not exempt the Amateur Service from compliance, but noted that most of the hams would not have significant problems complying.

The folks most affected will be those running *REAL* big power and a gain array. Either at HF or VHF and up. Of interest, the 50 watts on a mobile antenna will be legal for most applications, if you are not leaning up against the side of the car, and are not allowing others to do same. If you drilled a hole, and mounted the antenna properly, the auto interior should be "clean."

The broadcast industry have had to contend with these rules for some years, and there is a technical publication about 'em, OST 65. Broadcasters are not happy about the restrictions, but, they, too, point out that compliance by a ham station should not be a real problem.

Big issue: Who's going to do the measurements and certify them? I've a friend in Austin who charges big bucks to the Broadcast industry for the formal study and report. Are we about to be subject to the same?

73, gerry

---

271. Re: [APRSSIG:3740] KU0G and Karla Mobile APRS Weekend!!!

From: Roger Breckon - n8chb <n8chb@tir.com>
Date: Wed, 14 Aug 1996 17:33:55 +0100
To: aprssig@tapr.org
Message-ID: <3211FFF3.5F6C@tir.com>
Rendered body type: text/plain

Jim,

take a look at
http://www.ai.eecs.uic.edu/GCM/CongestionMap.html

found it surf-in map info.

have a gud trip om and please stop at all .-. .-. tracks.

73   Roger

n8chb@tir.com

---

272. Sept. VHF QSO Party and APRS

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 14 Aug 1996 10:40:19 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199608141834.NAA27414@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

No, APRS or any packet contacts don't count, but.........

Our club uses this QSO Party for public introduction much the same way as Field Day. We invite people, mostly public services, to look and listen to our radio transmissions. If we have an APRS station on site, this makes it ever the more interesting to the "un-educated". Anyhoo, the APRS station also serves as a monitor of 2 meter conditions, so when KC, St. Louis, Eastern TN, AL, GA or NC show up, it's time to man the radios!

To see all the rules and regs of the September VHF QSO Party, look on page 67 of the Sept. issue of CQ VHF.

73 and Good Luck!
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

---

273. Re: [APRSSIG:3751] Re: ?NEW FCC RULES...

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 14 Aug 1996 14:29:45 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960814192945.006bedc4@144.188.134.33>
Rendered body type: text/plain

At 10:05 AM 8/14/96 -0500, you wrote:
>On Tue, 13 Aug 1996 21:35:42 -0500 (CDT) "Stephen A. Davis"
>   Just off the top of my head, here are a few
>calculations for radiating your neighbors.
>   A station running a kilowatt, on CW, will have a
>maximum duty cycle of 5% to 20%, when averaged over 30
>minutes (as the document specifies). Figuring a 20% duty
>cycle, your output (for MPE purposes) is only 200 watts.
>This gives an RF voltage of only 100 volts at the
>antenna. If you assume that this RF voltage is coupled
>with no losses to the air at one foot distance from the
>radiating element, then at two feet you would have 50V
>and at 4 feet you would have 25 volts. With a safe
>distance of 4 feet, what is the big deal?

Sorry to say that the big deal is that you have missed some things that are very important. For example, the E-field in the near field of the antenna is increased by a factor that is the Q of the antenna. A typical dipole might have a Q of 10-20. Also you should realize that the voltage at the end of the dipole is MUCH larger than at the center. For 1000 watts running into a dipole with a Q of 10, the voltage at the end of the dipole would be on the order of 10,000 - 20,000 V/m very close to the antenna. That is a lot! What the fcc is interested in doing is preventing possible exposure to fields in excess of the ANSI safety standard (C95.1-1992).

>   Admittedly, this is a gross oversimplification,
>ignoring such factors as antenna losses, balun losses,
>transformer effects in matching devices, antenna
>impedance, antenna/air coupling coefficient..., but
>still, it should serve to demonstrate that the problem is
>far less than you fear.
>
>The stations most affected by the new regs will be those
>running the max legal power, with high gain antennas,
>such as moonbounce, who will have to put their antennas
>farther up in the air (no more single tower sections with
>19db antennas on them) and apartment dwellers running
>full legal power with an indoor antenna.
>

According the Mr. Cleveland (the author of the FCC 96-62 Docket), in all likelihood all that Amateur stations will have to do in the event that they do not fall under the 50w exclusion, is to fill out and post a form showing some simple calculations showing conformance to guidelines. Of course in the event that they do not conform, then some part of the antenna system may have to be changed or power reduced.

>>It looks to me like practically anyone can shut
>>you
>>down if you are running more than 50 watts pep.
>
>If you think that the FCC is going to waste it's limited
>manpower and funds on a major enforcement effort...
>Never mind, I won't comment on that absurdity.
>
>What may happen, if you don't bother to comply, is you
>might be sued by your neighbor, for radiating her. That
>is why the FCC document suggests that you retain the
>record of your evaluation.
>
>By the way, the 1992 standards by IEEE/ANSI are the same
>as the previously used IEEE/ANSI 1982 standards,

Sorry, blatantly not true! The 1992 ANSI standard created the so called

"uncontrolled" environment which has a lower (by 5x in most cases) level of
exposure. It is to the thanks of the ARRL that the FCC and Cleveland have
decided to allow Amateur stations to be classified as a "controlled"
environment, thus allowing exposure levels that are higher than those for
the general population.

so the
>danger of a lawsuit has been there for a decade already.
>How many operators have been sued for this in the last
>ten years?
>

Also note that the FCC has significantly increased its power of pre-emption
in that it may preempt a local body who claims there may be a health effect.
Thus the FCC will actually protect amateur stations in this way.

I apologize for using this sig for this discussion, but I want to make sure
that proper facts are stated. If you have more questions please email me
direct.

Paul_Moller@csg.mot.com

Paul Moller
Motorola CSG
847-523-5210
Motorola pager #7378

---

274. Re: [APRSSIG:3750] Re: ?NEW FCC RULES...

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 14 Aug 1996 14:55:34 PST
To: aprssig@tapr.org
Message-ID: <19960814.150004.4479.0.kf4dys@juno.com>
Rendered body type: text/plain

Hi all;

Apparently, I accidentally transmitted a version of my
letter, before it was finished.

Sorry about that.

Please disregard #3750. #3751 is the one I meant to send
out.

regards,
Joe

---

275. Non APRS

From: William Nolle <wa8inz@cris.com>
Date: Wed, 14 Aug 1996 15:50:40 -0700
To: aprssig@tapr.org
Message-ID: <32125840.4954@cris.com>
Rendered body type: text/plain

Gosh fellows it used to be great on here when in fact we did discuss
stuff closely related to APRS and it's operation etc etc. Recently i see
everything BUT!. Go ahead and flame but realy folks let's stick with APRS
 and those that use it related messages.

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

276. Re: [APRSSIG:3755] Sept. VHF QSO Party and APRS

From: William Nolle <wa8inz@cris.com>
Date: Wed, 14 Aug 1996 15:44:55 -0700
To: aprssig@tapr.org
Message-ID: <321256E7.18C9@cris.com>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:
>
> No, APRS or any packet contacts don't count, but.........
>

```
> To see all the rules and regs of the September VHF QSO Party, look on page
> 67 of the Sept. issue of CQ VHF.
> Scott, and how many of us get that magazine Hi.

--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

277. Re: [APRSSIG:3694] Running APRS on HP200LX

From: Daniel Velez <dvelez@infi.net>
Date: Wed, 14 Aug 1996 20:13:33 -0400
To: aprssig@tapr.org
Message-ID: <321265E2.72A1@infi.net>
Rendered body type: text/plain

```
Mike Musick wrote:

> 3) Commercially-built HSP adapters *may* not work out of the box. I was unable
> to get my HSP to work until the line-level biasing was removed. Be sure to
> fully read the HSP documentation in "\README\GPS.TXT".

Mike, can you give more detail here?  I've been toying with the HSP idea
with my HP200LX...



--
Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

278. Re: [APRSSIG:3742] Re: WX station bug?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 14 Aug 1996 20:34:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960814201946.11922A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Tue, 13 Aug 1996, Bob Bruninga wrote:
>
> APRSdos REPLY/COMMENT:  Dont do that! hi hi.  When you cleard the WX
> station, how was APRS to know that?  In fact, how was anyone on your net
> to know that you zeroed your rain counters?  That is why APRS reports only
> changes in rain counts.  AND therefore why if you change your rain counter
> (by zeroing it) you should expect to get a bad reading...

Ok, but it doesn't say *anything* about THAT in the docs. Besides, I
thought you said, in your reply to my original question a week or so ago,
that ARPS kept track of each click *internally* and cleared (or reduced)
the R and P counts after the appropriate time had elapsed. I guess I
didn't understand it properly.

So I guess I have to leave the daily count on the U II until APRS has
reduced the P field to all zeros, correct?

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

279. Re: [APRSSIG:3751] Re: ?NEW FCC RULES...

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 14 Aug 1996 20:42:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960814204053.11922B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Wed, 14 Aug 1996, Joe Foor wrote:

(snip)
> The stations most affected by the new regs will be those
> running the max legal power, with high gain antennas,
> such as moonbounce, who will have to put their antennas
> farther up in the air (no more single tower sections with
> 19db antennas on them) and apartment dwellers running
> full legal power with an indoor antenna.

What about Mobile Operators?

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

280. Re: [APRSSIG:3749] 20 Meter report

From: David Wells <davew@cruzio.com>
Date: Wed, 14 Aug 1996 20:00:52 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608141758.aa12160@cruzio.com>
Rendered body type: text/plain

```
At 08:05 AM 8/14/96 -0500, you wrote:
>There are dozens of BBS'S forwarding mail at or around 14.100. Their signals
>are s9 +   I think it is going to be unlikely getting anything done their...
>Any other suggestions...How about 17 Meters ?
>
>Mike
>KD4EMI@AOL.COM
>
>.-

PLEASE STAY OFF 14.100! THIS IS THE PROPAGATION BEACON FREQUENCY!

THANKS.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

---

281. Re: [APRSSIG:3761] Re: WX station bug?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 14 Aug 1996 21:27:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960814212611.6823C-100000@arctic>
Rendered body type: text/plain

```
On Wed, 14 Aug 1996, Richard Amirault wrote:

> that ARPS kept track of each click *internally* and cleared (or reduced)
> the R and P counts after the appropriate time had elapsed. I guess I
> didn't understand it properly.
>
> So I guess I have to leave the daily count on the U II until APRS has
> reduced the P field to all zeros, correct?

APRSdos REPLY/COMMENT:  Yep, thats the best way i guess...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

282. APRS Logo

From: ku0g@sprynet.com
Date: Wed, 14 Aug 1996 20:01:31 -0700
To: aprssig@tapr.org
Message-ID: <199608150301.UAA28758@m1.sprynet.com>
Rendered body type: text/plain

```
Personally, I prefer the motto "Big Bob is Watching You!!!"

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

283. Docs

From: tfleming@madison.tec.wi.us (Tom Fleming)
Date: Wed, 14 Aug 1996 21:59:45 -0500
To: aprssig@tapr.org
Message-ID: <v01540b02ae37fe7d94be@[198.150.15.3]>
Rendered body type: text/plain

```
Hello everyone.

  I would like to get some info on APRS packet layout, A list of all the
```

obj type, and handshaking. I have some ideas for gateways into an APRS system.

Thanks

____
Tom Fleming
Internet :tfleming@madison.tec.wi.us.
Human Voice: 608-246-6140
Call : N9SZF

 ****
  "IBMs are the computers we work on, Macs are the computers we work with!"
 ****

---

284. Re: [APRSSIG:3760] Re: Running APRS on HP200LX

From: AC6JA@aol.com
Date: Wed, 14 Aug 1996 23:14:18 -0400
To: aprssig@tapr.org
Message-ID: <960814231417_259903277@emout17.mail.aol.com>
Rendered body type: text/plain

should be no problem using the hp200lx with aprs. i use the paccom y-cable and works with both my paccom handipacket and kpc-3. you need to be sure to have +5vdc on pin 6 of the y-cable to power the small circuit board inside the db-9 connector. the hp palmtop and a lot of laptops don't have any power of this pin, so the y-cable needs to get its power from the tnc. let me know which tnc you're using. whichever one you use, we should be able to get it working.
73's Mike AC6JA

---

285. Re: ?NEW FCC RULES...

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 14 Aug 1996 22:40:30 PST
To: aprssig@tapr.org
Message-ID: <19960814.224038.4479.1.kf4dys@juno.com>
Rendered body type: text/plain

On Wed, 14 Aug 1996 19:49:51 -0500 (CDT) Richard Amirault <amirault@laraby.tiac.net> writes:

>What about Mobile Operators?

Paragraph 67 of FCC 96-326 states:
Although our exposure criteria will apply to portable and mobile devices in general, at this time routine evaluation for compliance will not be required of devices such as "push-to-talk" portable radios and "push to talk" mobile radios used in taxicabs, business, police and fire vehicles and used by amateur radio operators.

The paragraph goes on to say that uses other than "push-to-talk" may require evaluation and any station may be required to be evaluated at the FCC's request. Unfortunately, APRS mobile stations are not catagorically excluded.

However, in Paragraph 162 is the statement:
To make the complex determination of possible excessive exposure as simple as possible, we are specifying a threshold limit for transmitter power that will apply regardless of frequency used. Below 50 watts transmitter power, the licensee will not be required to take any action, unless requested by Commission staff pursuant to Section 1.1307(c) or 1.1307(d) of our rules. Above this power threshold, the licensee must perform a routine evaluation to predict if the RF radiation could be in excess of that allowed by the criteria listed in 1.1310.

So, as long as your mobile APRS is less than 50 watts output, it is also excluded from the "routine evaluation" requirement.

I expect, if someone does a "routine evaluation" of an APRS station, they will find that the low duty cycle will cause it to have even less averaged output than the "push-to-talk" stations.

regards,

Joe

286. re 20 meter freq

From: KD4EMI@aol.com
Date: Thu, 15 Aug 1996 00:32:05 -0400
To: aprssig@tapr.org
Message-ID: <960815003204_259966649@emout08.mail.aol.com>
Rendered body type: text/plain

```
I thought 14.100 LSB was ok to use...? Please see the HF text for an
explanation.

MIke
KD4EMI
```

287. need just 2 people

From: KD4EMI@aol.com
Date: Thu, 15 Aug 1996 00:34:46 -0400
To: aprssig@tapr.org
Message-ID: <960815003444_385395051@emout14.mail.aol.com>
Rendered body type: text/plain

```
I need just 2 guys to help me start on 17 meters...

Would 2 gateway stations be willing to go up to 17Meters and
try to operate there ?

OR

How about a different 20 meter freq ?

Mike KD4EMI@AOL.COM
```

288. PacifiCon96

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Thu, 15 Aug 1996 13:54:27 -0700
To: aprssig@tapr.org
Message-ID: <199608152054.NAA05624@poseidon>
Rendered body type: text/plain

```
ATTN: APRS'ers One and All...

   Pacificon96, the annual Pacific Division Convention, Annual Hamfest,
also including on Saturday morning @ 11AM an outstanding APRS
Demonstrations and GPS Tracking event. The 3 day festivities
will be held this October 18, 19, 20.

   Look to the Pacific Division Home page @ "http://pdarrl.org/" or you
can call 510-932-6125. For your E-mail info try "Pacificon@designlink.com
or http://www.mdarc.org.

   Location as last year at the Concord Hilton Hotel, near the Concord
Airport for you fly inners, and just off the 680 Freeway in Concord, CA.
   Sponsored by the Mt.Diablo ARC (MDARC) once again. Come and enjoy our
Western hospitality, and tune your favorite dial, to 145.010 your northern
Calif. APRS operational frequency.

   APRS Voice Net is held on Tuesday evenings @ 7:30PM on 147.06+ PL100/W6CX.
and probably one of the Hamfest freqs.

   73's & Enjoy, Bill/WB6LPG@KA6EYH
NNNN


WBB/WB6LPG
```

289. Help for MFJ

From: KD4EMI@aol.com
Date: Thu, 15 Aug 1996 17:19:14 -0400
To: aprssig@tapr.org
Message-ID: <960815171913_385986596@emout13.mail.aol.com>
Rendered body type: text/plain

```
My friend WB2TQE is trying to get on APRS.
He keeps getting I/O glitches..

We tried PARITY 0, NONE  thru 4..
The com port selection and the speed are correct.
```

Any help would be appreciated for him. Thanks.
Mike KD4EMI@AOL.COM

---

290. Re: [APRSSIG:3760] Re: Running APRS on HP200LX

From: deang@mail.syntron.com
Date: Thu, 15 Aug 96 11:01:10 CST
To: aprssig@tapr.org
Message-ID: <9607158401.AA840132440@mail.syntron.com>
Rendered body type: text/plain

If ya need it, I can provide a schematic of my HSP. I used the KISS approach
and it works great. The 200LX can run my tracker using HSP for about 2days
(straight) before I need to replace the batteries.

```
        \\//
        (..)
    -ooO-(_)-Ooo-----------------------------------------------------
    | George Dean   KC5KGE    2946.18N 9545.76W    DEANG@syntron.com |
    -----------------------------------------------------------------
______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3760] Re: Running APRS on HP200LX
Author:  aprssig@tapr.org at INTERNET_MAIL
Date:    8/14/96 8:05 PM
```

Mike Musick wrote:

> 3) Commercially-built HSP adapters *may* not work out of the box. I was unable
> to get my HSP to work until the line-level biasing was removed. Be sure to
> fully read the HSP documentation in "\README\GPS.TXT".

Mike, can you give more detail here? I've been toying with the HSP idea
with my HP200LX...

--
Dan

```
     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

291. 80m GATEIL

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Thu, 15 Aug 1996 16:38:37 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19960815213837.006c8bc8@144.188.134.33>
Rendered body type: text/plain

Does anybody use the 80m GATEIL? The reason that I am asking is that I am
thinking of taking it off the air for a couple of weeks to use the radio for
something else and am wondering if the 80m gate GATEIL (or the 80m gates in
general) really get used. If so, then I will just leave it on the air.

Paul, WD9ABE

---

292. Re: [APRSSIG:3773] Re: Running APRS on HP200LX

From: Daniel Velez <dvelez@infi.net>
Date: Thu, 15 Aug 1996 19:15:41 -0400
To: aprssig@tapr.org
Message-ID: <3213AF9D.2A49@infi.net>
Rendered body type: text/plain

deang@mail.syntron.com wrote:
>
> If ya need it, I can provide a schematic of my HSP. I used the KISS approach
> and it works great. The 200LX can run my tracker using HSP for about 2days
> (straight) before I need to replace the batteries.
>

George, please do!

Dan

```
     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

293. Re: [APRSSIG:3772] Help for MFJ

From: ttyamada@CCGATE.HAC.COM
Date: Thu, 15 Aug 96 16:05:35 PST
To: aprssig@tapr.org
Message-ID: <9607158401.AA840151973@CCGATE.HAC.COM>
Rendered body type: text/plain

```
I had a similar problem with my MFJ.

     After reducing the RF noise being carried on the serial data line and
     the Power line with ferrite, the problem went away. (The MFJ generates
     a lot of RF noise)

     I hope this helps...

     73, Ted KJ6ZJ


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:3772] Help for MFJ
Author:  aprssig@tapr.org at CCGATE
Date:    8/15/96 2:59 PM


My friend WB2TQE is trying to get on APRS.
He keeps getting I/O glitches..

We tried PARITY 0, NONE  thru 4..
The com port selection and the speed are correct.

Any help would be appreciated for him. Thanks.
Mike  KD4EMI@AOL.COM
```

294. RE: [APRSSIG:3772] Help for MFJ

From: roseag@miavx2.ham.muohio.edu
Date: Thu, 15 Aug 1996 19:37:22 EST
To: aprssig@tapr.org
Message-ID: <009A6E69.A47FBF81.1@miavx2.ham.muohio.edu>
Rendered body type: text/plain

```
Mike:

You might try going into OPS---COMM---TNC.  This will take you to the cmds
screen. At this point, turn your TNC off and on.  After hitting the Enter
key, the MFJ should load and bring you a "cmd"prompt.  You are ready to go.
Hit the "esc" key and you will go back to APRS.

Hope this helps and others may have better fixes.
73
Alan N1FLD
roseag@muhaxp.ham.muohio.edu
```

295. Juno Free-Email

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Thu, 15 Aug 1996 19:43:04 +0000
To: aprssig@tapr.org
Message-ID: <199608152342.TAA23418@hemisphere.neocomm.net>
Rendered body type: text/plain

```
Jack:
nd interested members:

    I posted Jack.txt and Jack.zip at ftp.tapr.org in the upload
directory. Unzip to a floppy for an installation disk for Juno
free email service /for Windows. Sorry I could not mail this directly
to you. I will delete the files in a few days, so try to get it this
weekend.

Good Luck!

chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA
```

296. 17 METER APRS

From: KD4EMI@aol.com
Date: Thu, 15 Aug 1996 21:03:52 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <960815210350_260746631@emout19.mail.aol.com>
Rendered body type: text/plain

```
FYI      LOOKING FOR OPERATORS !!

I am now on 18.110 LSB  APRS..I have one other station in WA
that is also QRV...

IF your bored, tune up on 18.110 and see if you can copy..I am setting it
and leaving it there...Pls leave a msg in the mailbox if you can copy.

Mike
KD4EMI@AOL.COM
```

---

297. Re: [APRSSIG:3777] RE: Help for MFJ

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 15 Aug 1996 20:16:50 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960816011650.006bf85c@tbcnet.com>
Rendered body type: text/plain

```
I hope he didn't make the same mistake as I did when I first got into
packet, I went to Radio Shack and told them I wanted a "Serial Cable".  They
gave me one.  It didn't work.  I took it back and said I wanted a "Modem
Cable".  That one worked fine.  The cable has GOT to have pins 1-8 and 20
(or something like that).

If he gets it to work with a communications/terminal program he's halfway
there.  If he can't get it to work, then don't try to get APRS to do
anything til it works as a tnc 1st.

jbl


At 18:57 8/15/96 -0500, you wrote:
>Mike:
>
>You might try going into OPS---COMM---TNC.  This will take you to the cmds
>screen. At this point, turn your TNC off and on.  After hitting the Enter
>key, the MFJ should load and bring you a "cmd"prompt.  You are ready to go.
>Hit the "esc" key and you will go back to APRS.
>
>Hope this helps and others may have better fixes.
>73
>Alan N1FLD
>roseag@muhaxp.ham.muohio.edu
>
-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page    http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157 - "Been There, Done That... Got the (soggy) T-Shirt"
```

---

298. Orange County Digi down for repair

From: "Ken Mirabella" <kjm-tjm@deltanet.com>
Date: Thu, 15 Aug 1996 23:10:22 -0700
To: <aprssig@tapr.org>
Message-ID: <199608160610.XAA11617@mail1.deltanet.com>
Rendered body type: text/plain

```
Just a note to all the Loma Ridge, CA in Orange County, City of Orange is
down for repair.  We expect it to be up within the week.

KM6YH,
Orange County RACES
```

---

299. Help with KAMPlus rf feedback

From: bob <w2g3zfj@unix.asb.com>
Date: Fri, 16 Aug 1996 08:22:43 -0400
To: aprssig@tapr.org
Message-ID: <199608161222.IAA21311@unix.asb.com>

Rendered body type: text/plain

Hi There

Thanks for reading this.

I have been running as a GATE on Long Island for the last few months. However, I have had a continuing problem which I have not (as yet) resolved, causing the GATE to be HF to VHF only. The problem is that when APRS causes the TNC to transmit simultaneusly on both HF and VHF my HF transmission causes interference on my VHF transmission. This results in no one seeing me on VHF if I operate as a full gate. I have tried all manner of filters, separate power supplies, grounding etc etc to no avail. Also this happens with anything above 2-3watts output on the hf rig. Anyone got any ideas? In the past I have had problems with rf feedback onto my HF transmissions but never onto the vhf signal!

Station details are:

TS450S
HF6V antenna (swr 1.1:1)
KAM Plus
TM241A
Astron psu

Any help appreciated!

Thanks

bob w2/g3zfj
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/aprs1.htm

BTW To wa4dsy and wb4apr, Great JAVA pages guys.

300. More Map Making

From: Les Blalock <lcb911@apex2000.net>
Date: Fri, 16 Aug 1996 08:50:27 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960816084744.2a9f3d24@apex2000.net>
Rendered body type: text/plain

If anyone has been successful in making street level maps using data available on the internet, please let me know. I've had no luck at all.

Les/N5KOA
lcb911@apex2000.net

301. SAMCD.idx

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 16 Aug 1996 09:07:11 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960816140711.006bfc44@tbcnet.com>
Rendered body type: text/plain

Can anybody tell me why the file SAMCD.idx is 3.3 Meg on Rutger's ftp, and 2.7 meg on Tapr?

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page   http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157 - "Been There, Done That... Got the (soggy) T-Shirt"

302. Re: [APRSSIG:3782] Help with KAMPlus rf feedback

From: KD4EMI@aol.com
Date: Fri, 16 Aug 1996 11:29:03 -0400
To: aprssig@tapr.org
Message-ID: <960816112902_386666759@emout10.mail.aol.com>
Rendered body type: text/plain

MAN did I have the same problem...I couldnt figure out why I wasnt getting into the VHF digi (1 mile away).

My VHF signal sounded like HF cause they both keyed at the same time.

I did 2 fixes...

```
#1 reposition your vhf antenna if possible, slightly further away or at a
different angle from the HF antenna. This helped me, but I use a MFJ loop for
HF and they are a bit directional.  I finally RAISED the HF antenna above the
VHF push up pole and it worked. On humid nights though they sometimes still
QRM each other.

#2 When APRS is off...I set the beacon to different intervals like
BE 10 / every 14   this makes HF go every 10 and VHF every 14.

WOuld be neat if the software would key them up seperately though

I tried filters, chokes ad nauseum...They only made a slight difference.
Good luck

MIke
KD4eMI
```

303. Re: [APRSSIG:3782] Help with KAMPlus rf feedback

From: wa4mej@juno.com (john w dent)
Date: Fri, 16 Aug 1996 12:33:10 PST
To: aprssig@tapr.org
Message-ID: <19960816.124109.8031.0.wa4mej@juno.com>
Rendered body type: text/plain

```
HI BOB
THIS IS JOHN WA4MEJ
USE A RELAY TO INTERRUPT YOUR TX LINE ON VHF EACH TIME YOUR HF KEYS
THIS WILL ELEMINATE /MASK ANY RFI PROBLEMS...
GOOD LUCK
JOHN

73WA4MEJ
```

304. Re: [APRSSIG:3748] Common courtesy...

From: wa4mej@juno.com (john w dent)
Date: Fri, 16 Aug 1996 12:58:44 PST
To: aprssig@tapr.org
Message-ID: <19960816.125852.8031.1.wa4mej@juno.com>
Rendered body type: text/plain

```
IT IS CLEAR THAT IN ORDER TO DO AN EXPERIMENT/TEST AND GET THE MOST FEED
BACK IT IS REQUIRED TO USE A COMMON FREQUENCY  THESE TEST ARE TO THE
BENEFIT OF THE HAM'S,BUT THEY DON'T KNOW IT, EVERY ONE AND THERE PET
CORNER OF THE WORLD NEED TO UNDER STAND THESE TEST ARE FOR YOU  ...TO
EXPERIMENT IS ONE OF THE BASIC REASONS THAT WE HAVE
THE FREQ'S ALONG SIDE OF PUBLIC SERVICE I AM  REMINDED THAT THIS IS NOT A
HOBBY, AS SOME THINK BUT RATHER IS A FORM OF ART,SO SAY PART 97, TKS
73
JOHN
WA4MEJ
```

305. 17 meters

From: KD4EMI@aol.com
Date: Fri, 16 Aug 1996 13:05:26 -0400
To: aprssig@tapr.org
Cc: APRS-FL@tapr.org
Message-ID: <960816130525_502899052@emout17.mail.aol.com>
Rendered body type: text/plain

```
I have my CW beacon set to every 5 min on 18,110 LSB.

This will give folks some idea of band conditions.

FYI I worked CW / SSB from FL to Bakerfield CA last night at 9pm EST
and again today at 1pm EST with good signal report....

Lets hope for some DIGITAL contacts now...!!!

Hope to hear you on APRS soon on 17 Meters..
Mike KD4EMI@AOL.COM
```

306. Re: [APRSSIG:3748] Common courtesy...

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Fri, 16 Aug 1996 14:49:48 EDT
To: aprssig@tapr.org
Message-ID: <19960816.124656.5375.1.aa7ya@juno.com>
Rendered body type: text/plain

```
On Wed, 14 Aug 1996 07:45:14 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:

>On Tue, 13 Aug 1996, someone wrote:

>> Complexities in setting up to  participate was more than they could
>> handle, and some became quite frustrated without explicit
>instructions.
>
>**** Again, where were the MScatt Bulletins a week in advance.  This
>is
>*exactly* why I invented the bulletin capability in the first place.
>It
>was not so that each person could put up his own EGO postings...
>

Furthermore, if you are a member of ARRL, and have
a subscription to QST, always make it a habit to
check out the "Packet Perspectives" ariticle in
there, as the last couple years, Stan Horzepa/WA1LOU
made the operating instructions available to EVERYONE,
as EVERYONE is not on the Internet yet.  These
instructions are printed in QST well in advance.

If you are able to, put the message that explained the
instructions to the Mscatter test somewhere on your
HD for future reference, as I think the instructions are
valid for future Mscatter tests.

Need I say more? ....

73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
Infobahn Off-ramp:  aa7ya@juno.com
RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
[44.82.31.2]
```

---

307. Re: [APRSSIG:3775] Re: Running APRS on HP200LX

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Fri, 16 Aug 1996 17:16:56 -0000
To: aprssig@tapr.org
Message-ID: <199608162117.QAA20036@tapr.org>
Rendered body type: text/plain

```
On 15 Aug 96 at 18:29, Daniel Velez wrote:

> deang@mail.syntron.com wrote:
> >
> > If ya need it, I can provide a schematic of my HSP.  I used the
> > KISS approach and it works great.  The 200LX can run my tracker
> > using HSP for about 2days (straight) before I need to replace the
> > batteries.
> >
>
> George, please do!
>
> Dan
>
>      Daniel Velez | Aoooga!       Aoooga!
>   dvelez@infi.net |
>   N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
>


I could use it too.. Wanna send it my way too!!!

Thanks!!

Sam


_____________________________________

Sam Nabkey - WJ8T
Internet: snabkey@wingsbbs.com
amprnet: wj8t@w8dc.ampr.org
WWW: http://wj8t.grand-rapids.mi.us
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
```

308. Re: [APRSSIG:3786] Re: Help with KAMPlus rf feedback

From: bob <w2g3zfj@unix.asb.com>
Date: Fri, 16 Aug 1996 17:45:15 -0400
To: aprssig@tapr.org
Message-ID: <199608162145.RAA05977@unix.asb.com>
Rendered body type: text/plain

```
Hi John

Thanks for the tip!

73 de bob


At 11:48 16/08/96 -0500, you wrote:
>HI BOB
>THIS IS JOHN WA4MEJ
>USE A RELAY TO INTERRUPT YOUR TX LINE ON VHF EACH TIME YOUR HF KEYS
>THIS WILL ELEMINATE /MASK ANY RFI PROBLEMS...
>GOOD LUCK
>JOHN
>
>73WA4MEJ
>
>
>
```

---

309. Re: [APRSSIG:3782] Help with KAMPlus rf feedback

From: Roger Breckon <n8chb@tir.com>
Date: Tue, 01 Jan 1980 05:16:51 +0000
To: aprssig@tapr.org
Message-ID: <12CEF043.6CA6@tir.com>
Rendered body type: text/plain

```
bob wrote:
>
> Hi There
>
> Thanks for reading this.
>
> I have been running as a GATE on Long Island for the last few months.
> However, I have had a continuing problem which I have not (as yet) resolved,
> causing the GATE to be HF to VHF only. The problem is that when APRS causes
> the TNC to transmit simultaneusly on both HF and VHF  my HF transmission
> causes interference on my VHF transmission. This results in no one seeing me
> on VHF if I operate as a full gate. I have tried all manner of filters,
> separate power supplies, grounding etc etc to no avail. Also this happens
> with anything above 2-3watts output on the hf rig. Anyone got any ideas? In
> the past I have had problems with rf feedback onto my HF transmissions but
> never onto the vhf signal!
>
> Station details are:
>
> TS450S
> HF6V antenna (swr 1.1:1)
> KAM Plus
> TM241A
> Astron psu
>
> Any help appreciated!
>
> Thanks
>
> bob w2/g3zfj
> w2g3zfj@unix.asb.com
> http://www.asb.com/usr/w2g3zfj/aprs1.htm
>
> BTW To wa4dsy and wb4apr, Great JAVA pages guys.

//////////////////////

So ur qrn ing ur self?

I had same thing. This may help.

1.      ground everything: rigs, tnc, computer, etc.
2.      make sure all power supplys are on the same AC line.
3.      position hf and vhf ants as far away as possible
        also if using a dipole, check where the ends are located.
```

```
4.      if possible set ur tnc so that both ports don't tx at same time?

I have aea and so far found no way to do that yet?
Anyone know if the pk-900 aea can be programed to delay one or the
other so they don't both tx at the same time?

73 Roger

n8chb@tir.com
```

310. Re: [APRSSIG:3790] HP200LX and an HSP...

From: byoung@qni.com
Date: Fri, 16 Aug 1996 17:58:47 -0500
To: aprssig@tapr.org
Message-ID: <9608162258.AA05066@qni.com>
Rendered body type: text/plain

```
APRS-type people,

Is the HSP being talked about here for use with an HP200LX any
different from the HSP circuit contained within the GPS.TXT file
that's part of the APRS docs?

I've built several of those for use with "normal laptops".  Is there
any reason why they wouldn't work with an HP200LX?

Bill Young
byoung@qni.com
KB0UZQ
```

311. FWD: Help getting set up with APRS

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 16 Aug 1996 19:21:43
To: APRSSIG@tapr.org
Message-ID: <199608162322.TAA06008@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi All,

     I've been trying to help this nice fellow get started with
APRS and have run into a few questions that the SIG members may
be more helpful with than I.  Please respond to Jeremy directly
as he's not on the SIG.  73

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
---------------------------------------------------------------

Date:   Thu, 15 Aug 1996 10:12:47 -0400
From:   WiccId@aol.com
To:     N2ZRC@gnn.com
Subject:        APRS

Arte,
     I've tried what you've said, even with the latest version
of APRS (76f, I think).  At any rate, even after changing the
PARITY command for the KPC3, I get some sort of error.  First
APRS tells me that the TNC is not responding.  Then it gives me
some sort of "I/O Glitch" error.  And I've found that after ex-
iting the program, my high memory areas are corrupted!  I know
that all of the hardware is connected properly, and I've even
tried disabling the high memory and running it, all with the
same outcome.  Do you have any suggestions?  Thanks in advance.

73 de Jeremy KB2VOH

_______________________________________________________________
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~


Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I can't lock onto those coordinates, Captain.
There's too much subspace interference."
```

312. JUNO

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Fri, 16 Aug 1996 17:09:16 -0700
To: aprssig@tapr.org
Message-ID: <199608170009.RAA04014@CATI.CSUFresno.EDU>
Rendered body type: text/plain

I have been using JUNO for some time now and it is really trick! Besides
being extremely user friendly and easy to use, it is quick and more
efficient than this Procomm I use for the APRSSIG messages. I have had
no Junk E-Mail or Junk Snail Mail because of it and have not seen any of
the advertisements Juno is supposed to have. I heartily recommend it to all
who can't afford the ISP or AOL stuff. W The only drawback is no attached
files or FTP or Web surfing, but since it's absolutely free, U know what they
say about GIFT HORSES! I still use the CATI.S

oops thats CATI.CSUFresno.EDU adr just for this SIG so I have it seperate
from my personal E-Mail. 73, Pat WA6MHZ   wa6mhz@juno.com

---

313. Re: [APRSSIG:3782] Help with KAMPlus rf feedback

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 16 Aug 1996 20:44:27 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608162032.B23971-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I have had the same troubles. The first thing I did was to replace my
TNC to RADIO cable with one that was properly shielded. It was a start
in solving the problem. The next thing I did was to put some ferrite
chokes (beads, clamshels, etc) on every wire going to/from the TNC. That
did it.

The problem, of course, is RF getting in and modulating some of the
digital and analog signals in the TNC, and the only way you can fix it is
to put some metal shielding on the wires and also to choke the RF on the
outside of the wires with the ferrite.

We have a TNC at a TheNet site where someone connected the audio from the
speaker out plug to the TNC with a single unshielded wire. He had done
that in
the past and it had never caused problems, but at that site there was a
lot of RF nearby and it did cause problems. As a short term solution I
wrapped the audio wire around a Radio Shack ferrite choke and it did the
trick. I went back (months) later and re-wired it properly using RG174.

73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Fri, 16 Aug 1996, bob wrote:

> Hi There
>
> Thanks for reading this.
>
> I have been running as a GATE on Long Island for the last few months.
> However, I have had a continuing problem which I have not (as yet) resolved,
> causing the GATE to be HF to VHF only. The problem is that when APRS causes
> the TNC to transmit simultaneusly on both HF and VHF my HF transmission
> causes interference on my VHF transmission. This results in no one seeing me
> on VHF if I operate as a full gate. I have tried all manner of filters,
> separate power supplies, grounding etc etc to no avail. Also this happens
> with anything above 2-3watts output on the hf rig. Anyone got any ideas? In
> the past I have had problems with rf feedback onto my HF transmissions but
> never onto the vhf signal!
>
> Station details are:
>
> TS450S
> HF6V antenna (swr 1.1:1)
> KAM Plus
> TM241A
> Astron psu
>
> Any help appreciated!
>
> Thanks

```
>
> bob w2/g3zfj
> w2g3zfj@unix.asb.com
> http://www.asb.com/usr/w2g3zfj/aprs1.htm
>
> BTW To wa4dsy and wb4apr, Great JAVA pages guys.
>
>
```

---

314. No Joy

```
From: KD4EMI@aol.com
Date: Fri, 16 Aug 1996 21:07:10 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org, DMOBLEY@encore.com
Message-ID: <960816210709_458429338@emout15.mail.aol.com>
Rendered body type: text/plain
```

```
Well, been on 17 for 2 days..only heard 1 station (once)


WB6NGC  but could barely copy it.. Will talk to a friend and see if he can
get on 18.100 LSB and maybe he can hear more...


Anyone want to try 20 meters this time ?

MIke
KD4EMI@AOL.COM
```

---

315. Re: [APRSSIG:3795] JUNO

```
From: ad4bl@juno.com (Linda G Mullen)
Date: Fri, 16 Aug 1996 21:15:49 CDT
To: aprssig@tapr.org
Message-ID: <19960816.211549.3414.7.ad4bl@juno.com>
Rendered body type: text/plain
```

```
On Fri, 16 Aug 1996 19:25:03 -0500 (CDT) Pat Bunsold
<pbunsol@cati.csufresno.edu> writes:
snip
>  The only drawback is no  attached files or FTP or Web surfing, but
since it's absolutely free,
snip
> 73, Pat WA6MHZ    wa6mhz@juno.com

You can attach files and send them thru JUNO...under file in the upper left corner is
the command...insert text file into message... the file must be ascii and
have a txt extension.
We send files all the time...even net rosters and other things.  It works
very well.  the
only thing you must make sure there is no binary text in the file...if
there is you will get
a pop-up message telling you that there is binary material in the file.

Linda AD4BL
ad4bl@juno.com  or  ad4bl@beaches.net
```

---

316. KD4UYR-15 Posit

```
From: rwf <rwf@mindspring.com>
Date: Fri, 16 Aug 1996 22:28:35 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960817022835.006e51b0@mindspring.com>
Rendered body type: text/plain
```

```
This afternoon, just south of Knoxville, TN.  Near the N4NEQ-3 Digi

Ralph N4NEQ
```

---

317. Re: [APRSSIG:3798] Re: JUNO

```
From: William Nolle <wa8inz@cris.com>
Date: Fri, 16 Aug 1996 22:34:46 -0700
To: aprssig@tapr.org
Message-ID: <321559F6.1AB7@cris.com>
Rendered body type: text/plain
```

```
Linda G Mullen wrote:
>
> On Fri, 16 Aug 1996 19:25:03 -0500 (CDT) Pat Bunsold
> <pbunsol@cati.csufresno.edu> writes:
```

> snip
> > The only drawback is no attached files or FTP or Web surfing, but
> since it's absolutely free,
> snip
> > 73, Pat WA6MHZ   wa6mhz@juno.com
>
> You can attach files and send them thru JUNO...under file in the upper left corner is
> the command...insert text file into message... the file must be ascii and
> have a txt extension.
> We send files all the time...even net rosters and other things. It works
> very well. the
> only thing you must make sure there is no binary text in the file...if
> there is you will get
> a pop-up message telling you that there is binary material in the file.
>
> Linda AD4BL
> ad4bl@juno.com or ad4bl@beaches.net

WHY DON'T YOU GUYS MOVE THIS JUNO JUNK TO JUNO IF IT'S SO GREAT, WHY DO
YOU INSIST ON POSTING IT TO THE APRS SIG. GHEEZ!!!

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

318. Re: [APRSSIG:3796] Re: Help with KAMPlus rf feedback

From: n2czf@magg.net (Richard Garcia)
Date: Fri, 16 Aug 1996 23:40:42 -0400
To: aprssig@tapr.org
Message-ID: <199608170340.XAA30310@grumpy.magg.net>
Rendered body type: text/plain

This is a common problem with the KAM+ and Kenwood model radios on HF. If
you are using the rear accessory jack for the data you must apply ferrite
beads to the white lead (audio). Kenwood refuses to acknowledge this problem
and Kantronics says it is not theirs. I have not dealt with it in years
since my KAM + is only a backup but many many people with Kenwoods have
complained in the past so there is plenty out on it.

BTW I have also noticed MAJOR RFI on Audio when the Data Plug is connected
but someone is using a mic. The only way it will clear up is if the plug is
disconnected from the back. Beads have helped for this but not too much,
this is another common problem but one I do not care about since I have had
APRS running non-stop on the rig for over 3 years now. Don't even know
where a mic is in this house!

My Rig is a TS-850 but I have heard and read about others with TS-450's
dealing with the problem.

>> Thanks for reading this.
>>
>> I have been running as a GATE on Long Island for the last few months.
>> However, I have had a continuing problem which I have not (as yet) resolved,
>> causing the GATE to be HF to VHF only. The problem is that when APRS causes
>> the TNC to transmit simultaneusly on both HF and VHF my HF transmission
>> causes interference on my VHF transmission. This results in no one seeing me
>> on VHF if I operate as a full gate. I have tried all manner of filters,
>> separate power supplies, grounding etc etc to no avail. Also this happens
>> with anything above 2-3watts output on the hf rig. Anyone got any ideas? In
>> the past I have had problems with rf feedback onto my HF transmissions but
>> never onto the vhf signal!
>>
>> Station details are:
>>
>> TS450S
>> HF6V antenna (swr 1.1:1)
>> KAM Plus
>> TM241A
>> Astron psu
>>
>> Any help appreciated!
>>
>> Thanks
>>
>> bob w2/g3zfj

```
>> w2g3zfj@unix.asb.com
>> http://www.asb.com/usr/w2g3zfj/aprs1.htm
>>
>> BTW To wa4dsy and wb4apr, Great JAVA pages guys.
>>
>>
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

319. Re: [APRSSIG:3773] Re: Running APRS on HP200LX

From: Dale Seaburg <dseaburg@web-access.net>
Date: Fri, 16 Aug 1996 22:35:35 -0500
To: aprssig@tapr.org
Message-ID: <32153E07.4934@web-access.net>
Rendered body type: text/plain

```
deang@mail.syntron.com wrote:
>
> If ya need it, I can provide a schematic of my HSP.  I used the KISS approach
> and it works great.  The 200LX can run my tracker using HSP for about 2days
> (straight) before I need to replace the batteries.
>
>snip

Please do put the schematic on the SIG, George.

Thanks.
Dale Seaburg  KG5LT
dseaburg@web-access.net
```

---

320. Re: [APRSSIG:3798] Re: JUNO

From: "Don Murray" <james-m@ix.netcom.com>
Date: Sat, 17 Aug 1996 02:38:16 -0400
To: <aprssig@tapr.org>
Message-ID: <199608170639.XAA18029@dfw-ix12.ix.netcom.com>
Rendered body type: text/plain

```
Please take this crap somewhere else, the APRS sig is not the place for
advertising servers..



----------
> From: Linda G Mullen <ad4bl@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3798] Re: JUNO
> Date: Friday, August 16, 1996 10:26 PM
>
>
> On Fri, 16 Aug 1996 19:25:03 -0500 (CDT) Pat Bunsold
> <pbunsol@cati.csufresno.edu> writes:
> snip
> >  The only drawback is no  attached files or FTP or Web surfing, but
> since it's absolutely free,
> snip
> > 73, Pat WA6MHZ    wa6mhz@juno.com
>
> You can attach files and send them thru JUNO...under file in the upper
left corner is
> the command...insert text file into message... the file must be ascii and
> have a txt extension.
> We send files all the time...even net rosters and other things.  It works
> very well.  the
> only thing you must make sure there is no binary text in the file...if
> there is you will get
> a pop-up message telling you that there is binary material in the file.
>
> Linda AD4BL
> ad4bl@juno.com  or  ad4bl@beaches.net
>
```

---

321. Re: [APRSSIG:3802] Re: Running APRS on HP200LX

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sat, 17 Aug 1996 08:42:14 -0400
To: aprssig@tapr.org
Message-ID: <3215BE26.669D@pobox.com>
Rendered body type: text/plain

```
Please DO NOT post graphics files to the SIG.

Lew  W7LVW

====================================================

Dale Seaburg wrote:
>
> deang@mail.syntron.com wrote:
> >
> > If ya need it, I can provide a schematic of my HSP.  I used the KISS approach
> > and it works great.  The 200LX can run my tracker using HSP for about 2days
> > (straight) before I need to replace the batteries.
> >
> >snip
>
> Please do put the schematic on the SIG, George.
>
> Thanks.
> Dale Seaburg  KG5LT
> dseaburg@web-access.net
```

---

322. Re: [APRSSIG:3793] Re: HP200LX and an HSP...

From: Daniel Velez <dvelez@infi.net>
Date: Sat, 17 Aug 1996 09:08:50 -0400
To: aprssig@tapr.org
Message-ID: <3215C462.7C35@infi.net>
Rendered body type: text/plain

```
byoung@qni.com wrote:
>
> APRS-type people,
>
> Is the HSP being talked about here for use with an HP200LX any
> different from the HSP circuit contained within the GPS.TXT file
> that's part of the APRS docs?

Probably only with respect to the pin(s) providing the power source.  If
someone's already nuked it out, I'd rather build it once...

Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

323. Re: [APRSSIG:3798] Re: JUNO

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@babbage.csee.usf.edu>
Date: Sat, 17 Aug 1996 09:11:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.95.960817090959.14870A-100000@babbage>
Rendered body type: text/plain

```
On Fri, 16 Aug 1996, Linda G Mullen wrote:

> We send files all the time...even net rosters and other things.  It works
> very well.  the
> only thing you must make sure there is no binary text in the file...if
> there is you will get
> a pop-up message telling you that there is binary material in the file.

One probably could UUENCODE a binary file and send it though.  The whole
purpose of UUENCODING is to allow transfer of binary files to be
transfered as text.  The down side is a UUENCODED file is typically 30 to
40 percent larger than the original file.

Paul

 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /                Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

324. Meteor Test Results

From: stanzepa@usa.nai.net (stan horzepa)
Date: Sat, 17 Aug 1996 09:17:39 -0400
To: aprssig@tapr.org
Message-ID: <v01540b04ae3b695f1cd3@[206.98.48.203]>
Rendered body type: text/plain

```
Hi Folks,

Just got back from vacation and found my emailbox full. I will begin
reading the mail and compiling the results of our APRS Perseids meteor
scatter test for publication here ASAP.

73,

Stan, WA1LOU
```

---

325. Re: JUNO

From: rwf <rwf@mindspring.com>
Date: Sat, 17 Aug 1996 09:22:24 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960817132224.006e3c5c@mindspring.com>
Rendered body type: text/plain

```
Juno should allow folks who otherwise have no access to Emai to have
affordable (free) email with which to participate on the SIG.

I gave it a try and ended up deciding to set up a forwarding account to use
while on the road.  I will forward my mindspring account email there so I
can use Juno's 800 number.  My provider does not yet have local access in a
lot of cities, but Juno does!

I would surmise that binary files could be sent if uuEncoded into an ascii
message. Don't know the maximum length, though.

Just like the GPS discussion of a year ago (when folks were peeved about GPS
messages being in the APRS SIG, I feel that this form of Email will bring us
lots more APRS users... or are we some kind of "private, exclusive club"
that doesn't want participation from outside?  ** I Don't Think So!**

Ralph
```

---

326. Mansfield Oh. APRS DIGI

From: "Warren Walker" <wmwalker@village.yvv.com>
Date: Sat, 17 Aug 1996 09:47:27 -0400
To: <aprssig@tapr.org>
Message-ID: <199608171346.JAA15894@yvv.com>
Rendered body type: text/plain

```
A new DIGIPEATER for APRS is soon to be alive on .79 This is a high profile
station that is directionally set to look NNE (035d) This station should
close the 2meter hole between Columbus Ohio and Cleveland Oh.
The station is KC8SS (Scott Yonally) our area EC.  Thanks Scott!

Warren Walker (N8VNL)
```

---

327. HP200LX HSP

From: Daniel Velez <dvelez@infi.net>
Date: Sat, 17 Aug 1996 09:54:15 -0400
To: aprssig@tapr.org
Message-ID: <3215CF07.103B@infi.net>
Rendered body type: text/plain

```
George, post it in any form you wish...

--
Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

328. 17M

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Sat, 17 Aug 1996 08:24:16 -0600
To: aprssig@tapr.org
Message-ID: <3215D610.26ED@slkc.uswest.net>
Rendered body type: text/plain

I'm also up on 18.110 LSB APRS this morning..
--
73
Doug
KC7CO
Radio Free Utah

```
                            --------
                            |       |
                            |     #  ------
                            |     RFU     |
                            |             |
                            |             |
                            |             |
                             -------------
```

329. Re: [APRSSIG:3802] Re: Running APRS on HP200LX

From: "PATRICK EBERHART" <pceberhart@combase.com>
Date: Sat, 17 Aug 1996 11:32:15 -0400
To: <aprssig@tapr.org>
Message-ID: <199608171532.LAA00117@ns.combase.com>
Rendered body type: text/plain

I have an HP200LX and a MeridianXL. The Meridian sends out a NMEA
signal which the 200LX will read via the communications software
in the ROM but when I try to use other programs to get the data from COM1
and send it via cell phone through a Megahertz PCMCIA card as COM2
I get nowhere. What do I need in order to utilize this setup?

Thanks in advance for your help

> From: Dale Seaburg <dseaburg@web-access.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3802] Re: Running APRS on HP200LX
> Date: Friday, August 16, 1996 11:58 PM
>
> deang@mail.syntron.com wrote:
> >
> > If ya need it, I can provide a schematic of my HSP. I used the KISS
approach
> > and it works great. The 200LX can run my tracker using HSP for about
2days
> > (straight) before I need to replace the batteries.
> >
> >snip
>
> Please do put the schematic on the SIG, George.
>
> Thanks.
> Dale Seaburg KG5LT
> dseaburg@web-access.net
>

330. Re: [APRSSIG:3767] Re: Running APRS on HP200LX

From: "PATRICK EBERHART" <pceberhart@combase.com>
Date: Sat, 17 Aug 1996 11:39:49 -0400
To: <aprssig@tapr.org>
Message-ID: <199608171539.LAA00174@ns.combase.com>
Rendered body type: text/plain

Please send me info on your setup using paccomm gear.

I have a HP200LX but want to use a cell modem in addition to the TNC
stuff.

> From: AC6JA@aol.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:3767] Re: Running APRS on HP200LX
> Date: Wednesday, August 14, 1996 11:29 PM
>
> should be no problem using the hp200lx with aprs. i use the paccom
y-cable
> and works with both my paccom handipacket and kpc-3. you need to be
sure to
> have +5vdc on pin 6 of the y-cable to power the small circuit board
inside

> the db-9 connector. the hp palmtop and a lot of laptops don't have any
power
> of this pin, so the y-cable needs to get its power from the tnc. let me
know
> which tnc you're using. whichever one you use, we should be able to get
it
> working.
> 73's Mike AC6JA
>

---

331. Re: [APRSSIG:3790] Re: Running APRS on HP200LX

From: "PATRICK EBERHART" <pceberhart@combase.com>
Date: Sat, 17 Aug 1996 11:35:24 -0400
To: <aprssig@tapr.org>
Message-ID: <199608171539.LAA00170@ns.combase.com>
Rendered body type: text/plain

DITTO... Please send me anything that will allow me to get my HP200LX
to accept MNEA output and then sel it out via a cell modem.

> From: Sam Nabkey, WJ8T <snabkey@wingsbbs.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3790] Re: Running APRS on HP200LX
> Date: Friday, August 16, 1996 5:27 PM
>
> On 15 Aug 96 at 18:29, Daniel Velez wrote:
>
> > deang@mail.syntron.com wrote:
> > >
> > > If ya need it, I can provide a schematic of my HSP. I used the
> > > KISS approach and it works great. The 200LX can run my tracker
> > > using HSP for about 2days (straight) before I need to replace the
> > > batteries.
> > >
> >
> > George, please do!
> >
> > Dan
> >
> >   Daniel Velez | Aoooga!   Aoooga!
> >   dvelez@infi.net |
> >   N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
> >
>
>
> I could use it too.. Wanna send it my way too!!!
>
> Thanks!!
>
> Sam
>
>
> _____________________________________
>
> Sam Nabkey - WJ8T
> Internet: snabkey@wingsbbs.com
> amprnet: wj8t@w8dc.ampr.org
> WWW: http://wj8t.grand-rapids.mi.us
> AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
>

---

332. Re: [APRSSIG:3711] KPC-3

From: "PATRICK EBERHART" <pceberhart@combase.com>
Date: Sat, 17 Aug 1996 11:41:43 -0400
To: <aprssig@tapr.org>
Message-ID: <199608171541.LAA00180@ns.combase.com>
Rendered body type: text/plain

What do you think about the stuff from Paccomm?

> From: Paul Christenson [N3EOP] <paulc@cyclades.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3711] KPC-3
> Date: Tuesday, August 13, 1996 3:04 AM
>

```
> ku0g@sprynet.com wrote:
>
> > IMHO:  TNCs are dirt cheap....Kantronics KPC-3 can be had for as low
as $99.00
> > on sale, even at the regular $119 they're still readily affordable.
>
> The real TNC2 clones (MFJ-1270 and such) may really be a better
> "investment".  Sure, they're a bit bigger, and about the same pricew
> ($119), but they do use "real" TAPR ROMs (ongoing firmware upgrades),
> and have 9600 baud capability.
>
> Don't get me wrong.. the KPC-3 is a good unit, comparable with the
> others in its price range.  Just be aware of its limitations; unless
> Kantronics made MAJOR hardware changes in the unit, it's NOT possible to
> use them at anything other than 1200 baud.
>
>
```

333. Re: [APRSSIG:3812] Re: Running APRS on HP200LX

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Wed, 02 Jan 1980 11:50:07 -0600
To: aprssig@tapr.org
Message-ID: <199608171639.LAA11844@tapr.org>
Rendered body type: text/plain

```
>I have an HP200LX and a MeridianXL. The Meridian sends out a NMEA
>signal which the 200LX will read via the communications software
>in the ROM but when I try to use other programs to get the data from COM1
>and send it via cell phone through a Megahertz PCMCIA card as COM2
>I get nowhere. What do I need in order to utilize this setup?
 Try writing a qbasic programs that reads com1 NMEA into  a string file and
then read that string out to com2.
With this approach you could parse out the NMEA string you want or even make
it a menu choice.
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


          _
        _( )_
      _(     )_
     (_________)
       \  \  \
         \  \
```

334. aprs on 17m & CW ID'er

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 17 Aug 1996 09:46:57 -0700
To: KD4EMI@aol.com
Cc: aprssig@tapr.org
Message-ID: <199608171646.JAA24932@poseidon>
Rendered body type: text/plain

```
Hi Mike,
   Up on 18110 at 1600gmt while ago, sent u msg, no response, very
quiet out here in CA. will try come up every even GMT hr today for
test, copy 30M fine as usual, so far @1635GMT have foll on 30m, from
your area, N8CGY/WX, KE2VW-3, W5RPQ, KB0MQQ, VA3MER-5, old regular
friend, mike/N6OOA-2, in his van.. hi..
  Ocassionally hear HH2B, think it is, CW ID'er and good indication of
propagation on 30m. Was thinking perhaps pass to sig, idea of WA area
station, S-Calif or me station, Florida, New england and old standby in
KC area puttin out 30-45 min CW ID sigs, for propgation purposes.
  I mostly rcve KC , lakes area stations, new england and florida, and
texas area frequently here on 30M/10151, and cw id's would let others
know how prop is going.
   Would a few cw id's be too annoying on our hf freqs, whats the sig's
opinion. ????? (Only the few 4 corners and central US would xmit short
cw id for propagation useage only.) ?????????
    73's & Enjoy, Bill/wb6lpg, SFran Bay area hf gateway station
NNNN
WBB/WB6LPG
```

335. Re: JUNO

From: wa4mej@juno.com (john w dent)
Date: Sat, 17 Aug 1996 12:53:40 PST
To: aprssig@tapr.org
Message-ID: <19960817.125544.4695.0.wa4mej@juno.com>
Rendered body type: text/plain

```
hi i use juno for ALL OF MY E_MAIL  in fact this came to me via juno ...
you can tell aprssig to use juno or any other  system
..
have fun
73 JOHN
WA4MEJ
```

336. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
X-Authentication-Warning: tbc1.tbcnet.com: Host PR144.tbcnet.com [207.112.227.44] didn't use HELO
protocol
Message-Id: <1.5.4.32.19960817172026.006cc654@tbcnet.com>
X-Sender: jleonard@tbcnet.com
X-Mailer: Windows Eudora Light Version 1.5.4 (32)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 17 Aug 1996 12:20:26 -0500
To: aprssig@tapr.org
From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Subject: Re: [APRSSIG:3815] Re: KPC-3

The BIGGEST reason I like the KPC-3 in WA9CJN WIDE/RELAY is that with the
remote capability, I can sit in my QTH and change Unproto paths, check the
MHeard list, and do gobs of other stuff to it, even tho it's 17 miles away.

And as we only use it for APRS, 1200 baud isn't a problem.

jbl


>----------
>> From: Paul Christenson [N3EOP] <paulc@cyclades.com>
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:3711] KPC-3
>> Date: Tuesday, August 13, 1996 3:04 AM
>>
>> ku0g@sprynet.com wrote:
>>
>> > IMHO:  TNCs are dirt cheap....Kantronics KPC-3 can be had for as low
>as $99.00
>> > on sale, even at the regular $119 they're still readily affordable.
>>
>> The real TNC2 clones (MFJ-1270 and such) may really be a better
>> "investment".  Sure, they're a bit bigger, and about the same pricew
>> ($119), but they do use "real" TAPR ROMs (ongoing firmware upgrades),
>> and have 9600 baud capability.
>>
>> Don't get me wrong.. the KPC-3 is a good unit, comparable with the
>> others in its price range.  Just be aware of its limitations; unless
>> Kantronics made MAJOR hardware changes in the unit, it's NOT possible to
>> use them at anything other than 1200 baud.
>>
>>
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

337. KPC-3

From: "Chris H. Edwards, KD4IEY/AE" <hedwards@st6000.sct.edu>
Date: Sat, 17 Aug 1996 14:03:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.960817140011.23090A-100000@st6000.sct.edu>
Rendered body type: text/plain

I am using version 6.0 <Obviously> for APRS as a tracker. And I have some problems with the TNC locking up and spewing data as if some one had connect to it. The CMSG is set to DISC. and the internal battery has been taken out. I thought that it have been because of some wiring problems, however those have been checked, and I havent found any problems.

If any one has any suggestions, other than buy a PICO, please let me know.

```
----------------------------------------------------------------------------
                      Department of Computer Science
               Southern Polytechnic State University, Marietta, GA
         formerly :   Southern College of Technology

       ---------------------------------------------------------
```

---

338. APRS 17M 18110 test

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 17 Aug 1996 13:23:50 -0700
To: KD4EMI@aol.com
Cc: aprssig@tapr.org
Message-ID: <199608172023.NAA26342@poseidon>
Rendered body type: text/plain

```
Hi again Mike, 2000GMT WEST COAST HF 18110 TEST.
  Was also on 17m, at 1810GMT for 15min or more, nil heard, quiet as could
be on 17M, no sigs heard tuning the band.
  As of 2000GMT, followin HF APRS stations copied on 30M/10151
N9VHW, his new antenna always gets him into my QTH. VA3MER-5 on his Yachet,
KE2VW-3, WX reporting, N0AN, Mobiler Mike/N6OAA-2 WX reporting, N8CGY,
KU0G-1, a daily regular out here on the beautiful blue Pacific , when its
not foggy like today, KB0MQQ in Colorado, KJ7HZ-1, in Utah, W7FEN-4, up
in WAshington state, gettin to be a regular on HF.
   And of course the double nickles from TEXAS are alwasy QRMin my screen
W5RPQ, AND AB5TB on today.
   Our usual Southern Calif. Short Skippers in daily, mostly GPS mobiles
but a new dedicated APRS digi, NW6H-10, KO6XS, and from the very South
of Calif, San Diego area always short-skipin on HF, today we have
KI6MP-10, the southern most Digipeater on APRS, in Ca that is, don't get
jealous FL. KB6TPQ, KA6PSG-14, KD6UDC, usually GPS mobile, KJ6NJ-9 always
mobile and last but not least KE6GXP-9.
   This the usual moring HF on the mappers, after 22-2300 more Eastern stations
show up on 30M/10151 HF, frequently heard till 9PM or 0400GMT here on West
coast, 2 blocks from the Pacific. I'll give u another report later today,
and my monitor of 18110 nothin nil caput, quiet ere at my QTH, RITE NOW
2025GMT .
    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN
WBB/WB6LPG
```

---

339. Re: [APRSSIG:3815] Re: KPC-3

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Sat, 17 Aug 1996 13:29:07 -0400
To: aprssig@tapr.org
Message-ID: <32160163.290CC451@cyclades.com>
Rendered body type: text/plain

PATRICK EBERHART wrote:
>
> What do you think about the stuff from Paccomm?

While I don't have any direct experience with PacComm, I know people that are quite happy with their products.

My problem with the Kantronics KPC-3 is that it has NO provision whatsoever for running 9600 baud, and the only place this is (has been, anyway) documented is in the users manual. Since the "modem disconnect" is a standard feature of TNCs (present in some form in virtually all TNCs), the lack of this header is an exception to the rule.

(As an example, say that you bought a new car. A week later, you had a flat, only to find that a spare tire was not part of the car. How would you feel then?)

(This is my final posting on this topic.)

```
--
+--------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

340. Re: [APRSSIG:3795] JUNO

From: Bob Lorenzini <hwm@netcom.com>
Date: Sat, 17 Aug 1996 14:57:28 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960817144229.195A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
On Fri, 16 Aug 1996, Pat Bunsold wrote:

> I have been using JUNO for some time now and it is really trick!  Besides

advertisement deleted

> oops thats CATI.CSUFresno.EDU adr just for this SIG so I have it seperate
> from my personal E-Mail.  73, Pat WA6MHZ    wa6mhz@juno.com

  How is this related to APRS? Please find some other newgroup to spam.
I'am sorry to add one more offtopic post but the volume of JUNO garbage
pushed my button.

Bob - wd6dod
```

341. 100k Map Files

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sat, 17 Aug 1996 19:13:49 -0400
To: aprssig@tapr.org
Message-ID: <3216522D.1D1B@pobox.com>
Rendered body type: text/plain

```
I've downloaded the 100K DLG files from the usgs ftp site for my area,
uncompressed them, and attempted to run MK100K2A, no matter what
'center' Lat/Long and radius I enter the program informs me that there
are no points found.   Then gives me the 4 corners of the map files (my
center lat/long was right in the middle).

I've tried every combination of + and - Lat/Long for the 'center', but
the program always converts them to:

+Lat N, and -Long W.

Can anyone help?

Lew  -  W7LVW
```

342. Help with video problem

From: David Wells <davew@cruzio.com>
Date: Sat, 17 Aug 1996 18:51:51 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9608171649.aa29346@cruzio.com>
Rendered body type: text/plain

```
OK since I did not want to shuffle my serial ports around I setup an old 386
with a monochrome VGA monitor. When APRS starts I just get a bunch of dots
on the screen faintly resembling what is supposed to be there. Will APRS
work with a monochrome monitor or does it require color? The video card is a
Paradise PVGA1A circa 1988. Do I need a special driver and if so where can I
find one?

Thanks for all the help.

Dave KD6TO
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

343. 17m 18mhz aprs test

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 17 Aug 1996 17:00:21 -0700
To: KD4EMI@aol.com
Cc: aprssig@tapr.org
Message-ID: <199608180000.RAA28714@poseidon>
Rendered body type: text/plain

2200GMT 17TH, 18110mhz APRS HF TEST.. from Calif.
Zeroed my 5 pages of position logs at 2145gmt, First 30M station copied was Rich/N2CZF in Fl, KU0G-1 in KC, KB0MMQ in CO, KA6PSG-14, in southern CA.

Heard and copied on bottom of screen, but not plotted or gated on map from HF to VHF side, were KK4BZ, K2MEB, N4WYK, W2IE, these could also have been digied/repeated/or uplinked from another local area 6 station, just observed their calls/short posits xmsn on bottom of map screen. ????

2205GMT QSY'd to 18110, freq very quiet nil being heard tuning back/forth. xmiting my posit and msg to KD4EMI..

QUOTE: To KD4MEI : GA MIKE, 2205GMT NO COPY ON 17M IN CALIF. VERY
QUIET BAND .. UNQUOTE

Tuning the 17m band at 2218Z copied following on 18107.15 (Knwd TS440, Inv V 25ft, cut for 30M0. ""MENBBS/K4JJV/H FAX (506)22-27-64 "" several other packet bursts heard but above all copied on bottom line of APRS map.
Call to a William Thompson Born 18, Mobile, Alabama. No other sigs heard entire band.

AT 2240Z returned to 30M/10151. As usual, hear lots HF packets on the Kam Plus, but they don't print out on bottom line or get gated, or appear on the USA map.

I run a 386/33 computer bout foot away from the TS440, on the suggestion on aprssig other day about trying 14100, I get hetrodynes from 14093 to about 14105, and have previously tried the 14096 belive it was suggested year or so ago, but just did'nt work out. Also regardless of the HF.TXT readme file think we should not possible QRM the 14100 Internationl beacon frequency.

I previous also suggested trying 14090, or we could try from 14110 to 14115, the Kam Ops book suggest PACKET from 14095 to 14115. Give me a date and time I'll try anything once.

At 2250GMT back on 10151, my afternoon short skip back, copy W7FEN-4, in Seattle area, KB6TPQ, KD6UDC, KA6PSG-14, SDiego area, S-4/5 BUT Not comin thru the gate to VHF side, normal for HF sigs.

Copy strong N9VHW @2255GMT, KI6MP from SDiego. Following BEACON stations heard and on the L-log, W9JIU, N2CZF, KI6MP, W5RPQ, KB0MQQ, KD6UDC, KB6TPQ, N4WYK, W2IE, W7FEN-4, N9VHW, KO6XS KF0ZH, all apear on Beacon Log, 3 pages. but not on P-Position log or on the map.

2305Z, usual S-5 W7LUS copied ere and on the map, but didn't go thru the gate to vhf side. Even with good strong signal. He appears out here in the mornings with good strong signal, and have copied his LUS-14 often fm NMex, TX and southern states.

2311Z, VE3NP plotting on map, gateway to Muskoka, Ont. 30m<> 144,39.
2325Z, N9NLE, copied near Chicago, 2326, copied KA8CNI, BEACON xmisn.
2333Z, rcvd BCN from N0AN, and lastly 2348Z, Willie/W3YTS fm WashDC.
2359GMT or 5PM PDST 17M & 30M from here in California.

73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN
.
WBB/WB6LPG

---

344. Re: [APRSSIG:3824] 100k Map Files

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sat, 17 Aug 1996 20:45:03 -0400
To: aprssig@tapr.org
Message-ID: <3216678F.49B1@pobox.com>
Rendered body type: text/plain

Never mind. I think I found the problem. Seems the DLG 'boundry' files I first tried this on had no data points in it.

When I included the hydo, hypso & trans data it seems to work OK.

Lew - W7LVW.

Lew Midlam wrote:
>
> I've downloaded the 100K DLG files from the usgs ftp site for my area,
> uncompressed them, and attempted to run MK100K2A, no matter what
> 'center' Lat/Long and radius I enter the program informs me that there
> are no points found. Then gives me the 4 corners of the map files (my
> center lat/long was right in the middle).
>
> I've tried every combination of + and - Lat/Long for the 'center', but
> the program always converts them to:
>
> +Lat N, and -Long W.
>
> Can anyone help?
>

> Lew - W7LVW

---

345. Re: [APRSSIG:3825] Help with video problem

From: rsellers@firecraker.com (Roger Sellers)
Date: Sat, 17 Aug 1996 20:11:16 -0600
To: aprssig@tapr.org
Message-ID: <1371809820-1546631@email.firecraker.com>
Rendered body type: text/plain

```
>OK since I did not want to shuffle my serial ports around I setup an old 386
>with a monochrome VGA monitor. When APRS starts I just get a bunch of dots
>on the screen faintly resembling what is supposed to be there. Will APRS
>work with a monochrome monitor or does it require color? The video card is a
>Paradise PVGA1A circa 1988. Do I need a special driver and if so where can I
>find one?
>
  Yes, it will work with monochrome, either version DOS, or windows. There
may be some confusion of certain details at time though as some choices of
colors don't always translate to B&W the best to make it easy to interpret.
I had a B&W laptop I use quite a bit. No special drivers will be needed.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

346. Re: JUNO

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Sat, 17 Aug 1996 21:58:19 EDT
To: aprssig@tapr.org
Message-ID: <19960817.195535.5239.2.aa7ya@juno.com>
Rendered body type: text/plain

```
On Sat, 17 Aug 1996 16:45:53 -0500 (CDT) Bob Lorenzini <hwm@netcom.com>
writes:

SNIP...

>   How is this related to APRS? Please find some other newgroup to
> spam.
> I'am sorry to add one more offtopic post but the volume of JUNO
> garbage
> pushed my button.
>
> Bob - wd6dod

Best advice, just ignore it, and it will go away.

-----
73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
Infobahn Off-ramp:  aa7ya@juno.com
RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
[44.82.31.2]
```

---

347. Re: JUNO

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Sat, 17 Aug 1996 21:58:19 EDT
To: aprssig@tapr.org
Message-ID: <19960817.195535.5239.3.aa7ya@juno.com>
Rendered body type: text/plain

```
On Fri, 16 Aug 1996 22:50:36 -0500 (CDT) William Nolle <wa8inz@cris.com>
writes:

<[SNIP]>

>WHY DON'T YOU GUYS MOVE THIS JUNO JUNK TO JUNO IF IT'S SO GREAT, WHY
>DO
>YOU INSIST ON POSTING IT TO THE APRS SIG. GHEEZ!!!
>
>--
>          \////
>          (o o)
>    *--o00-(_)-00o--*
>       Bill WA8INZ
>     wa8inz@cris.com
>    wa8inz@amsat.org
```

```
>
>

I thought that I would find solace on the Internet,
since packet radio has gone to the dogs, but I
guess I was wrong....  Can we just stop with the
bashing for once, and live with the fact that JUNO
is for real?

Sorry for non-topic, but the JUNO bashing has
gone too far.

Flames will be extinguished, without reply, unless
personal.

-----
73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
Infobahn Off-ramp:  aa7ya@juno.com
RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
[44.82.31.2]
```

---

348. Useless Bandwidth doesn't have to be a problem

From: w4wwq@juno.com (Peter J Lascell)
Date: Sat, 17 Aug 1996 21:57:04 PST
To: aprssig@tapr.org
Message-ID: <19960817.215852.5399.3.W4WWQ@juno.com>
Rendered body type: text/plain

```
Comments about JUNO raised a howl of at least 3 known users of this SIG.
Probably many more felt the same way but held their tongue.  In the past
the argument was the storage space the useless bandwidth took and the
expense to the SIG user for that space or each message.

I have gripes  too about what is useless here but my view is apparently
not the same as the rest.  I care less about the HF gate discussions and
weather station stuff and more about the .79 network out to about 300
mile radius and local APRS events.  My choice.

A real control we all have to sort out our preferences is by using the
SUBJECT line of the message to reflect the real subject, not just
RE:something that by now has been replied to so many times the real
subject has been lost and is totally unrelated.

If we control the SUBJECT line of the message, then those with specific
likes and dislikes can breeze through the messages with a fast finger on
the DEL key.

If the message count is still a real problem causing a $$$ issue, I hate
to say this, but JUNO is FREE. ( I had 201 messages stored up waiting
for me after a weeks vacation.  No fee.)

Remember to view the tools we use to enjoy our hobby as necessities to
make life  easy.  Some are hardware and some are software.  Some might
be a service, like a QSL bureau, or e-mail server.

BTW, over two months ago I sent a message to this SIG about JUNO.  But I
don't think  JUNO was in the subject line.   I probably pointed out how
others could get free access to the SIG to participate with us here.
Not one (1) response was posted pro or con to that message.  What a
difference a day makes, so to speak.

I am changing my WEB SURFING account looking for the cheapest, so any
flaming will have to be addressed to my free account:  W4WWQ@JUNO.COM.

Pete Lascell
W4WWQ
Forest, VA  FM07
```

---

349. Re: [APRSSIG:3821] APRS 17M 18110 test

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 17 Aug 1996 22:13:04 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608172230.A3210-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Hi Bill,
Things will be better on 17 meters one of these months or years.  I am
tempted to set my rig on 18.110 LSB for a few days to see what happens.
```

In South Florida we have almost daily thunder showers so I don't like to
leave my rig on and connected to the antenna during the day, but I will
give it a try while I am home and in control when the rains come.

My gateway is FLGATE and am located near Fort Lauderdale.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

---

350. Re: [APRSSIG:3824] 100k Map Files

From: William Nolle <wa8inz@cris.com>
Date: Sat, 17 Aug 1996 21:31:21 -0700
To: aprssig@tapr.org
Message-ID: <32169C99.7B8A@cris.com>
Rendered body type: text/plain

Lew Midlam wrote:
>
> I've downloaded the 100K DLG files from the usgs ftp site for my area,
> uncompressed them, and attempted to run MK100K2A, no matter what
> 'center' Lat/Long and radius I enter the program informs me that there
> are no points found.   Then gives me the 4 corners of the map files (my
> center lat/long was right in the middle).
>
> I've tried every combination of + and - Lat/Long for the 'center', but
> the program always converts them to:
>
> +Lat N, and -Long W.
>
> Can anyone help?
>
> Lew - W7LVW

Well Lew i don't think it's anything your doing wrong. The file format of
the USGS data files where changed a while back and are not (As far as i
know) compatible with any of the software we now have available to us. I
have attempted to do this also for other areas then what my CD covers and
have had no luck at all. I did see a message posted a while back that
someone is writing a new program that will work with the new format.

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

351. HF GATE

From: KD4EMI@aol.com
Date: Sun, 18 Aug 1996 00:44:33 -0400
To: aprssig@tapr.org
Message-ID: <960818004432_387845492@emout16.mail.aol.com>
Rendered body type: text/plain

Several of us are now on 20 meters on a hopefully more quiet freq.

Look for CW beacons (mine is every 5 min)
and APRS Digital on 14.090 LSB.

Hope to hear some action...

Though we've been hopping around it has been kinda fun, learning about the
different bands that Ive not operated in a while.

So again, tune up your rig and listen for our beacons and see if you can copy
it.
Mike KD4EMI@AOL.COM

---

352. Re: [APRSSIG:3830] Re: JUNO

From: "Don Murray" <james-m@ix.netcom.com>
Date: Sun, 18 Aug 1996 01:46:38 -0400
To: <aprssig@tapr.org>
Message-ID: <199608180547.WAA18595@dfw-ix11.ix.netcom.com>
Rendered body type: text/plain

```
----------
> From: Stacey T Hanrahan <aa7ya@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:3830] Re: JUNO
> Date: Saturday, August 17, 1996 10:06 PM
>
>
> On Fri, 16 Aug 1996 22:50:36 -0500 (CDT) William Nolle <wa8inz@cris.com>
> writes:
>
> <[SNIP]>
>
> >WHY DON'T YOU GUYS MOVE THIS JUNO JUNK TO JUNO IF IT'S SO GREAT, WHY
> >DO
> >YOU INSIST ON POSTING IT TO THE APRS SIG. GHEEZ!!!
> >
> >--
> >          \////
> >          (o o)
> >    *--o00-(_)-00o--*
> >       Bill WA8INZ
> >     wa8inz@cris.com
> >    wa8inz@amsat.org
> >
> >
>
> I thought that I would find solace on the Internet,
> since packet radio has gone to the dogs, but I
> guess I was wrong....  Can we just stop with the
> bashing for once, and live with the fact that JUNO
> is for real?
>
> Sorry for non-topic, but the JUNO bashing has
> gone too far.
>
> Flames will be extinguished, without reply, unless
> personal.
>
> -----
> 73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
> Infobahn Off-ramp:  aa7ya@juno.com
> RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
> [44.82.31.2]
>
```

Oh this is grand, we are now being bashed simply because we are attempting
to get the sig back on topic..

I love this.. It's ok for the juno braindead idiots to spam all kinds of
non aprs related matter into the sig, and god forbid we should complain
about it.. What an idiot..

I see you have a juno address so maybe this explains a lot..

---

353. HP200LX and HSP

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Aug 96 02:25:13 EDT
To: <aprssig@tapr.org>
Message-ID: <960818062513_71301.3106_FHJ71-4@CompuServe.COM>
Rendered body type: text/plain

My apologies to the folks looking for advice on the mods I mentioned last week about hooking up the HP200LX using the Hardware Single Port. Debugging of a certain mapmaking program (soon to be official) has kept my ham/APRS time pretty tied-up.

But about the 200LX/HSP mods...

First, get \APRS\README\GPS.TXT in front of you, and scroll down to the HSP schematic. I built an HSP following this guideline and it did not work. After reading the accompanying text, it became clear that this circuit needed some "empirical engineering". Three changes were necessary before it would work with my combination of 200LX/KPC-3/GPS-45:

1) +V (upper right of schematic) needs to be derived from the TNC's DSR line (pin 20, I think). "Stock" HSP's take their supply from the computer's RTS, and that's a bit of a drain on the HP. The KPC-3 has to be modded to do this, and the mod is in the back of the manual.

```
2) The two bias circuits (labelled "note 1" and "note 2") have to be omitted.
This also simplifies the wiring immensely.

3) The two voltage drop diodes under "* see important notes below", on the
emitter of the top transistor in the schematic also had to be jumpered around.
This was for the Garmin GPS-45 and may or may not apply to your situation.

That's what I had to do to make mine work; of course, your mileage may vary!

  ...mike/N0QBF
     71301.3106@compuserve.com
```

---

354. Re: JUNO

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Aug 96 02:25:03 EDT
To: <aprssig@tapr.org>
Message-ID: <960818062503_71301.3106_FHJ71-2@CompuServe.COM>
Rendered body type: text/plain

```
(I do feel badly about adding to the bandwidth about this topic... but...)

Please take the JUNO spamming elsewhere. I was really disappointed to see it
here. I was already tired of hearing folks talk about it on the repeater,
getting the sales pitch from the club trustee, and having 90% of the last club
board meeting taken up with it.

*Nothing* is free. The piper will have to be paid sooner or later.
  ...mm
```

---

355. Re: [APRSSIG:3835] Re: JUNO

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Sun, 18 Aug 1996 08:10:41 -0700
To: aprssig@tapr.org
Message-ID: <32173271.7BDE@worldnet.att.net>
Rendered body type: text/plain

```
Don Murray wrote:
>
> ----------
> > From: Stacey T Hanrahan <aa7ya@juno.com>----Snipped out the superfluous --------------------

INTERESTING!!!  The whinners are taking more band width than the
spammers.
GOD gave you a finger and IBM made a delete button. USE THEM.

Bud (WB4LTF)
```

---

356. Basic Questions!!

From: James Van Houten <jdvh@jdvh.com>
Date: Sun, 18 Aug 1996 08:59:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608181259.IAA26552@onramp.i95.net>
Rendered body type: text/plain

```
Hello All,

I have been a APRS user for about 1 day.  All is working well.  I see the
traffic rolling in but station locations are not on my map!  How do I get
them to display?  The other question is for the mobile unit.  Have a KPC-3
and a Magellan Nav 1200XL.  The mobile mount version of the meridian XL.  Ok
that is all!!

73's
de
ka3ttu
Jim

3859.53n / 07645.43w

ps.  qth is about 16 miles from wb4apr qth.  Would like to see his station
on the map.

-----------------------------------------------------------------
James Van Houten         jdvh@jdvh.com   http://www.i95.net/~jdvh
-----------------------------------------------------------------
```

---

357. Re: [APRSSIG:3838] Re: JUNO

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 18 Aug 1996 08:04:56 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960818130456.006cbeac@tbcnet.com>
Rendered body type: text/plain

FYI:

(do we see anybody we know?...)

THE NATURAL LIFE CYCLE OF MAILING LISTS

Every list seems to go through the same cycle:

1. Initial enthusiasm (people introduce themselves, and gush alot about how wonderful it is to find kindred souls).

2. Evangelism (people moan about how few folks are posting to the list, and brainstorm recruitment strategies).

3. Growth (more and more people join, more and more lengthy threads develop, occasional off-topic threads pop up).

4. Community (lots of threads, some more relevant than others; lots of information and advice is exchanged; experts help other experts as well as less experienced colleagues; friendships develop; people tease each other; newcomers are welcomed with generosity and patience; everyone -- newbie and expert alike -- feels comfortable asking questions, suggesting answers, and sharing opinions).

5. Discomfort with diversity (the number of messages increases dramatically; not every thread is fascinating to every reader; people start complaining about the signal-to-noise ratio; person 1 threatens to quit if *other* people don't limit discussion to person 1's pet topic; person 2 agrees with person 1; person 3 tells 1 & 2 to lighten up; more bandwidth is wasted complaining about off-topic threads than is used for the threads themselves; everyone gets annoyed).

6a. Smug complacency and stagnation (the purists flame everyone who asks an 'old' question or responds with humor to a serious post; newbies are rebuffed; traffic drops to a doze-producing level of a few minor issues; all interesting discussions happen by private email and are limited to a few participants; the purists spend lots of time self-righteously congratulating each other on keeping off-topic threads off the list).

OR

6b. Maturity (a few people quit in a huff; the rest of the participants stay near stage 4, with stage 5 popping up briefly every few weeks; many people wear out their second or third 'delete' key, but the list lives contentedly ever after).

****
LAUGH OF THE DAY - A service of LaughWEB (http://www.misty.com/laughweb/).

To unsubscribe, send e-mail to majordomo@world.std.com, with text:
     unsubscribe lotd email_address
Where "email_address" is the address you used when you subscribed to lotd.

For more information about Laugh Of The Day or LaughWEB, send email to:
     joeshmoe@world.std.com
with a SUBJECT header of:
     info laugh

To subscribe to lotd, point your web browser to:
     http://world.std.com/~joeshmoe/laughweb/lotd_subscribe.html

At 07:13 8/18/96 -0500, you wrote:
>Don Murray wrote:
>>
>> ----------
>> > From: Stacey T Hanrahan <aa7ya@juno.com>----Snipped out the superfluous
----
>
>INTERESTING!!! The whinners are taking more band width than the
>spammers.
>GOD gave you a finger and IBM made a delete button. USE THEM.
>

```
>Bud (WB4LTF)
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

358. Looking for APRS users in the Bowie, MD area

From: James Van Houten <jdvh@jdvh.com>
Date: Sun, 18 Aug 1996 10:07:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608181407.KAA26899@onramp.i95.net>
Rendered body type: text/plain

```
If you are using APRS in the Bowie, MD area please drop me your email
address.  I would like to set up a digi here if there is not one presently.

Thanks
73's
de
Jim
KA3TTU
----------------------------------------------------------------
James Van Houten         jdvh@jdvh.com   http://www.i95.net/~jdvh
----------------------------------------------------------------
```

359. Magellan NAV 1200XL --> KPC-3 TNC

From: James Van Houten <jdvh@jdvh.com>
Date: Sun, 18 Aug 1996 10:07:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608181407.KAA26902@onramp.i95.net>
Rendered body type: text/plain

```
Anyone have experience connecting the Magellan NAV 1200XL to the Kam KPC-3
TNC?  Looking to get the mobile on the air today and thought I would ask!!
Thanks

Jim
KA3TTU
----------------------------------------------------------------
James Van Houten         jdvh@jdvh.com   http://www.i95.net/~jdvh
----------------------------------------------------------------
```

360. Re: [APRSSIG:3839] Basic Questions!!

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sun, 18 Aug 96 10:40:25 EDT
To: aprssig@tapr.org
Message-ID: <m0us91g-0001A4C@wa4mei.radio.org>
Rendered body type: text/plain

```
On Sun, 18 Aug 1996 08:11:05 -0500 (CDT) you wrote:

>Hello All,
>
>I have been a APRS user for about 1 day.  All is working well.  I see the
>traffic rolling in but station locations are not on my map!  How do I get
>them to display?  The other question is for the mobile unit.  Have a KPC-3
>and a Magellan Nav 1200XL.  The mobile mount version of the meridian XL.  Ok
>that is all!!
>

Make sure the KPC-3 is not in NEWUSER mode
by entering the command "IN TERMINAL"

Then, make sure the KPC-3 is not putting a new line
between the packet header and the data with the
command "HEADERLN OFF".
```

```
--------------------------------------------------
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp:  The only x86 operating system that
is more stable than most people who use it.
```

361. Re: [APRSSIG:3837] Re: JUNO

From: ku0g@sprynet.com
Date: Sun, 18 Aug 1996 08:03:59 -0700
To: aprssig@tapr.org
Message-ID: <199608181503.IAA15527@m1.sprynet.com>
Rendered body type: text/plain

```
My two cents:  If it isn't APRS or its DIRECT associated uses (DF, WX, GPS)
keep it OFF OF THIS SIG.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

362. Major APRS Tracking event in progress..

From: ku0g@sprynet.com
Date: Sun, 18 Aug 1996 08:10:47 -0700
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <199608181510.IAA16542@m1.sprynet.com>
Rendered body type: text/plain

```
The MS Society of Kansas City and Farmers Insurance Group are holding the annual
Louisburg (KS) Pancake Ride today (Sunday).  The KC APRS Working Group is
supporting the ride with 6 stand-alone trackers, a portable digipeater and a
dual-monitor setup at net control.  We are NOT using GATE in our paths, but hope
that those within earshot will be watching and saving track logs!!!

I'll post the track history/logs to those who are interested in them Monday or
Tuesday night.  (APR Bob:  I'm going to EMail them directly to you as soon as I
edit it all into one file...)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

363. Re: [APRSSIG:3838] Re: JUNO

From: Bob Lorenzini <hwm@netcom.com>
Date: Sun, 18 Aug 1996 09:26:06 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960818092157.165A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
On Sun, 18 Aug 1996, B.G. Gotshall wrote:

> Don Murray wrote:
> >
> > ----------
> > > From: Stacey T Hanrahan <aa7ya@juno.com>----Snipped out the superfluous --------------------
>
> INTERESTING!!!  The whinners are taking more band width than the
> spammers.
> GOD gave you a finger and IBM made a delete button. USE THEM.
>
> Bud (WB4LTF)

   Where were you when he passed out the brains? This list is for topics
relating to APRS and GPS to a lesser extent. Please try to keep this in
mind. Those who are unable to follow these simple rules will find
themselves flamed. Most of us would prefer that this list does not have
to become moderated because of the few bad actors.

Bob - wd6dod
```

364. 20M APRS Testing

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sun, 18 Aug 1996 10:22:37 -0700
To: KD4EMI@aol.com
Cc: aprssig@tapr.org
Message-ID: <199608181722.KAA03590@poseidon>
Rendered body type: text/plain

```
Mike,          1025AM/PDST or 1725GMT...

   Am up on 14090.03 APRS now, no RTTY, contest appears over, freq quiet
did hear few weak no copy Packet bursts, and one real weak cw id from u.
I have my cwid on also every 15min, and packet msgs to u, with APRS map
up.
   Any other APRS HF station join us please. Usual propgateion to east
quiet now till about 21-2000GMT , then east coast comes back in.
  CW id at 22/37/52 etc...Will send info here every 2 hrs/even hrs

    73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN
WBB/WB6LPG
```

---

365. Re: JUNO

From: wa4mej@juno.com (john w dent)
Date: Sun, 18 Aug 1996 13:47:19 PST
To: aprssig@tapr.org
Message-ID: <19960818.134727.4295.2.wa4mej@juno.com>
Rendered body type: text/plain

TKS JIM
JOHN
WA4MEJ

---

366. MS test results

From: stanzepa@usa.nai.net (stan horzepa)
Date: Sun, 18 Aug 1996 14:55:37 -0400
To: aprssig@tapr.org
Message-ID: <v01540b00ae3d03fe7b15@[206.98.48.233]>
Rendered body type: text/plain

Results of the 1996 APRS Perseids Meteor Scatter Test

The following stations reported:

6 meters: N8WAV

2 meters: AA8SF, KE6AFE, KF4DYS, KO4HD, N8WAV, WA1LOU, WB4LTF, WD0GNK, WJ9H.

Only two reports of any success were received. They were both on 2 meters, as follows:

1. KF4DYS in FL received WB4LTF in FL/EL98ip over a 300-mile path at 1201Z on August 11. WB4LTF was using 160 watts into a 5-element Yagi.

2. KO4HD in FL/EL94 received AB5TB in TX/EL29li over a 950-mile path at 1919Z on August 11. No equipment report was received.

Comments: I am not too lucid today as I have not gotten much sleep since driving back from MV Friday PM and Saturday AM. As a result, I am not going to expound on these results too much only to say that compared to last year's test, we received about half the number of reports and only about 10 percent the number of reported successes. My guess is that this was due to less participation caused by (1) less publicity of the test, and/or (2) more normal APRS activity on frequency interfering with the test and/or discouraging stations from participating in the test. Still, the successes do indicate that packet radio meteor scatter communications is possible and further experimentation is warranted.

73,

Stan "going back to bed" Horzepa, WA1LOU

---

367. Re: [APRSSIG:3843] Re: Basic Questions!!

From: James Van Houten <jdvh@jdvh.com>
Date: Sun, 18 Aug 1996 15:23:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608181923.PAA28942@onramp.i95.net>
Rendered body type: text/plain

Received several replies and it was the HEADERLN that fixed it.. Thanks for
all the help.

jvh

KA3TTU

3857.46N / 07645.30W

At 09:50 AM 8/18/96 -0500, you wrote:
>On Sun, 18 Aug 1996 08:11:05 -0500 (CDT) you wrote:
>
>>Hello All,
>>
>>I have been a APRS user for about 1 day. All is working well. I see the
>>traffic rolling in but station locations are not on my map! How do I get
>>them to display? The other question is for the mobile unit. Have a KPC-3
>>and a Magellan Nav 1200XL. The mobile mount version of the meridian XL. Ok
>>that is all!!
>>
>
>Make sure the KPC-3 is not in NEWUSER mode
>by entering the command "IN TERMINAL"
>
>Then, make sure the KPC-3 is not putting a new line
>between the packet header and the data with the
>command "HEADERLN OFF".
>
>
>
>
>
>
>
>
>
>
>
>--
>Dale Heatherington, WA4DSY
>e-mail - wa4dsy@wa4dsy.radio.org
>e-mail - daheath@ibm.net (in case the first one doesn't work)
>Web page - http://www.wa4dsy.radio.org
>Running OS/2 Warp: The only x86 operating system that
>is more stable than most people who use it.
>
>

James Van Houten jdvh@jdvh.com http://www.i95.net/~jdvh

---

368. Re: [APRSSIG:3833] Re: 100k Map Files

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sun, 18 Aug 1996 15:48:47 -0400
To: aprssig@tapr.org
Message-ID: <3217739F.3425@pobox.com>
Rendered body type: text/plain

Bill, Lansing and others who are interested,

Both the old format (the USGS calls it the OPTIONAL format), and the new
STDS format are on the usgs ftp site.

ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K/

In each subdirectory for a particular quadrangle you'll find the
'boundary', 'hydro', & other data in individual files with a file name
like xxxx.opt.gz - these are old formatted DLG files. You'll also
find one file named xxxx.std.gz - that's all of the data in one STDS
formatted file.

Download the xxx.opt.gz files, then uncompress them with the GZIP
utility (download GZIP-1.2.4.MSDOS.EXE & run it. It'll uncompress into
GZIP, etc. Then use the -d parameter to UNcompress the USGS files.)

ftp://prep.ai.mit.edu/pub/gnu/

MK100K2A will be able to read them. You won't need
the CHOP.EXE utility since the new MK100K2A can read these un-delimited

files directly.

Hope this helps.

Lew Midlam - W7LVW

==

William Nolle wrote:
 The file format of
> the USGS data files where changed a while back and are not (As far as i
> know) compatible with any of the software we now have available to us. I
> have attempted to do this also for other areas then what my CD covers and
> have had no luck at all. I did see a message posted a while back that
> someone is writing a new program that will work with the new format.
>

```
> --
>           \////
>           (o o)
>     *--o00-(_)-00o--*
>        Bill WA8INZ
>      wa8inz@cris.com
>     wa8inz@amsat.org
```

---

369. 20M APRS TEST

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sun, 18 Aug 1996 14:06:50 -0700
To: KD4EMI@aol.com
Cc: aprssig@tapr.org
Message-ID: <199608182106.OAA04997@poseidon>
Rendered body type: text/plain

Hi Mike, 2100GMT/1400lcl PDST..
   Appers we not going to make it on 20M, 14090 or 14115, hear HF packets
down on 14114.55 copied the foll:

```
    " LONDON>K2EWB/H:###LINK MADE
      LONDON>K2EWB/H:84NODES, 19 local /370 total uiisers Max users 31665
      Uptime 1
      K2EWB de K1XX  18-AUG-1996 2104Z Type H or ? for help >

      LONDON>W9DVM/H: DX de K7CMZ:   7005.9  CT1FTK    working JA's

       unquote... this coped in APRS VIEW MODE.. on 14114.51khz ..
```

  Mike, gng qsy back to APRS 10151/lsb for rest of afternoon, more APRS
action their, Thanks for the try, sri didn't work out.
   73's & Enjoy, Bill/WB6LPG
NNNN
WBB/WB6LPG

---

370. Re: [APRSSIG:3849] MS test results

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 18 Aug 96 17:19:12 -0400
To: <aprssig@tapr.org>
Message-ID: <199608182116.RAA05356@bridge.net>
Rendered body type: text/plain

>2. KO4HD in FL/EL94 received AB5TB in TX/EL29li over a 950-mile path at
>1919Z on August 11. No equipment report was received.
>
That's two years in a row I've been at the receiving end the longest
contact...must be something about the salt air here...

Steve KO4HD

---

371. 20M APRS TEST

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sun, 18 Aug 1996 14:19:31 -0700
To: alanwc7r@primenet.com
Cc: aprssig@tapr.org
Message-ID: <199608182119.OAA05037@poseidon>
Rendered body type: text/plain

Hi Alan,
   per sig msgs was trying qso on 17M yesterday and 20M 14090/LSB today
but earlier a contest RTTY/PACket qrm everywere, finnally for couple hrs

1600-2000 on 14090/LSB but RTTY qrm and some new kind of mode, short
LOW PITCH TONE BURSTS, unable copy any mode. So at 2000 up to 14115LSB
but no luck their either. So back to old 30M/10151/LSB, standby, always
noise or some kinda action, there. East coast starts comin in bout 3-4PM
ere 22-2300Z we possible qso on short skip had u known sooner. Maybee next
week or on 15M, gotta find some action somewhere. Msg fm Geo/W8FWF, HE LET
some lightning get into is rig, so off air and in shop for repairs. Poor
Geo, we don't get lightnin ere, except very few in winter storms. Oh yes,
WX program no worki, with Peet 2000. Hi..
   73's & Enjoy, tks for call.
        Bill/LPG
NNNN
WBB/WB6LPG

---

372. HF GATE

From: KD4EMI@aol.com
Date: Sun, 18 Aug 1996 18:49:46 -0400
To: aprssig@tapr.org
Message-ID: <960818184946_504273244@emout08.mail.aol.com>
Rendered body type: text/plain

Lessons learned today on 20 M hopping...

#1 RTTY is fun !!   Never used the mode but made lots of contacts (45)
in no time flat. Suddenly the whole thing got quiet...(contest finished at
noon est)   VIA EMAIL on internet was able to coodinate band hopping.

#2 CW really works too....
No copy of packets but sure could copy the CW id's from the stations !!
Was getting a sandwich, heard nothing then BOOM CW id came right through the
noise...

#3 Whew..20 meters is a really congested band.
#4 See #3

#5 Whilst tuning heard mucho DX packet stations and nodes on 20..
(never did figure out who the "LONDON" node was though, anyone know?)   Left
a few msgs on mailboxes extolling APRS and trying to see if they are
interested.

Last
#6 Loop antennas are fun, and DO work, but not like a REAL antenna can.
At best it's a super neat comprimise...Love/hate relationship..Love that
Narrow bandwith--hate that narrow bandwith..

Back on 30M for now with CWID off...
Mike KD4EMI

---

373. Re: [APRSSIG:3796] Re: Help with KAMPlus rf feedback

From: carlt@icanect.net (carl taylor)
Date: Sun, 18 Aug 1996 19:01:18 -0400
To: aprssig@tapr.org
Message-ID: <199608182302.TAA27504@foo.icanect.net>
Rendered body type: text/plain

>I have had the same troubles. The first thing I did was to replace my
>TNC to RADIO cable with one that was properly shielded. It was a start
>in solving the problem. The next thing I did was to put some ferrite
>chokes (beads, clamshels, etc) on every wire going to/from the TNC. That
>did it.
>
>The problem, of course, is RF getting in and modulating some of the
>digital and analog signals in the TNC, and the only way you can fix it is
>to put some metal shielding on the wires and also to choke the RF on the
>outside of the wires with the ferrite.
>
>We have a TNC at a TheNet site where someone connected the audio from the
>speaker out plug to the TNC with a single unshielded wire. He had done
>that in
>the past and it had never caused problems, but at that site there was a
>lot of RF nearby and it did cause problems. As a short term solution I
>wrapped the audio wire around a Radio Shack ferrite choke and it did the
>trick. I went back (months) later and re-wired it properly using RG174.
>
>73,
>
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us

```
>
>
>On Fri, 16 Aug 1996, bob wrote:
>
>> Hi There
>>
>> Thanks for reading this.
>>
>> I have been running as a GATE on Long Island for the last few months.
>> However, I have had a continuing problem which I have not (as yet) resolved,
>> causing the GATE to be HF to VHF only. The problem is that when APRS causes
>> the TNC to transmit simultaneusly on both HF and VHF  my HF transmission
>> causes interference on my VHF transmission. This results in no one seeing me
>> on VHF if I operate as a full gate. I have tried all manner of filters,
>> separate power supplies, grounding etc etc to no avail. Also this happens
>> with anything above 2-3watts output on the hf rig. Anyone got any ideas? In
>> the past I have had problems with rf feedback onto my HF transmissions but
>> never onto the vhf signal!
>>
>> Station details are:
>>
>> TS450S
>> HF6V antenna (swr 1.1:1)
>> KAM Plus
>> TM241A
>> Astron psu
>>
>> Any help appreciated!
>>
>> Thanks
>>
>> bob w2/g3zfj
>> w2g3zfj@unix.asb.com
>> http://www.asb.com/usr/w2g3zfj/aprs1.htm
>>
>> BTW To wa4dsy and wb4apr, Great JAVA pages guys.
>>
>>
>>>>>>>>>>>>>>>>>>>>humphfffffff<<<<<<<<<<<<<<<<<-==carl==-------
>
>
--
Internet Communications of America, Inc.
```

---

374. mk100kv3

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Mon, 19 Aug 96 00:00:05 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608182356400334@msn.com>
Rendered body type: text/plain

```
I have posted the new version of mk100k to the .../aprssig/files/upload

This is a user feedback version with a couple of critcal bug fixes.  The
following is from the text file in the .zip file:

MK100K3.EXE

Version 3.0 of code to make APRS maps from the 100k DLG CD
Beta release 06 Jun 96
Final release 29 Jun 96

Jack Cavanagh, KB4XF

This is the user feedback version.  The requested changes or additions were
made principally by Bob, WA4APR; Bill, KE4EER and Ken, W7KKE. I did not agree
with every change, but went ahead and did them anyway rather than engage in a
long distance debate.  Thanks for the suggestions, guys.

- I think I finally got the file name problem licked. It turned out to be two
problems.  One was related to the different ways DOS and BASIC handle the
"null" character. The other was related to not filling out a field in a random
access file record.  This screwed up file pointers if you did not use a six
character name.  If you use less than six character names on multiple map
files, it will now work!

- The code no longer makes *.map and *.dat files.  I took out my crude
decimation scheme.  The program makes *.dat files. If the file contains 2999
points or less it will be renamed as *.map. Otherwise, operate on the *.dat
```

files with MAPFIX to get them down to size. Rename them *.map and then load into mapfix. Maybe Bob will modify mapfix to accept *.dat files without having to type the extension explicitly.

- Now you can make any number of maps in one session within reason. You can make an N by M grid of maps. N and M must be 26 or less and the product of M and N must be less than 676. I had to set a limit based on the ASCII codes for letters. NOTE: If you use this option, the starting point is the lat/long of the upper left corner and not the center. You will still get the 5 percent overlap so your input numbers will not show up in the map files.

- No one responded to my plea for suggestion on how to label big sets of maps. So you are now stuck with my simple scheme. The maps are labeled by row and column using the letters of the alphabet. Thus a map with the file name xytuvzdf.map is from the 4th row (d) and the 6th (f) column. This is the reason for limiting to 26 in any one direction. More than 26 and you would end up with a filename containing invalid DOS file name characters.

- The intermediate data are now stored in a file "tmap.raw" before the short segments are chained together. Some folks thought just "temp" might be a problem.

- Ram drive: This was Bob's request to save his hard drive. If you set up a ram drive, you can use it for tmap.raw. This file gets exercised a lot while chaining together the short little segments from the CD into something reasonable. The input file and the output file are read once and written once respectively. Thus a ram drive here is of no real benefit. To use the ram drive, start the program with the command:

```
mk100k3 d:\
```

where "d" is the drive letter of your ram drive created with ramdrive.sys in your config.sys. NOTE: This will probably cause the drive letter for your CD or zip or jaz drive to change. Be forewarned!

To set up a ram drive from DOS add the following to your config.sys file:

```
devicehigh=c:\dos\ramdrive.sys 128 /E
```

This will set a 128K ram drive in extended memory. This is big enough for tmap.raw. Consult the DOS on-line help files if you want to use expanded memory or want a bigger ram drive. If you use Win95 use the following instead in config.sys:

```
devicehigh=c:\windows\ramdrive.sys 128 /E
```

- The user dialog concerning CD vs. FTP files and blocked vs. unblocked has been shortened in favor of the CD user. If you use the CD just hit ENTER.

- I have made doubly sure that the last line in the output file contains "0, -1"

- The user now can get small road detail down to tracks and jeep trails. If you follow your maps radius value with an exclamation mark (!) you will get any and all data on the CD files including railroads, pipelines, etc. (if you extracted the data from the CD). You will also get every little stream and water filled ditch. Try this in an urban area and you will be running MAPFIX all night.

- The program does not stop any more if there was no data to be found. It continues on until all possible maps for the current grid have been made or not made. A log files is written telling you the size of successful map builds in APRS map points and shows maps for which no data could be found in the files extracted from the CD to your hard disk. The log file has the name "filename.txt". "Filename" is what you typed in at the beginning of the mapping session.

- The number of pixels per degree has been doubled. Bob wanted this for zooming purposes. So I did it. However, points are points and we can't get any more resolution than is on the CD.

- Oops! key. Hitting F10 will stop the program while making maps. This saves having to reboot if you realize that you made an input error.

Win95 and all that.
This code was written in Microsoft QBasic 4.5 and the compiled .exe files will run under DOS, Windows 3.1 and Win 95. Win 95 opens mk100k3.exe with a small window, but this can be permanently fixed to a full size screen with the "properties" selection accessible with the right mouse button (or the left

mouse button if you set things up for a left handed mouse). You're on your own.

What's not finished

Some maps have missing line segments near the edges. Actually all maps have them, but they are only noticed when you get down to the 1 or 2 mile level. These are short straight lines that begin off the map and end on the map or vice versa. I have looked at the code and was able to handle the end of the line that goes off a map. I looked at the case of a line that begins off a map and concluded that a major re-write of one section will be necessary. I may get to this in a month or two but I am not in the mood at this time. Mapfix can add a short extension to the line if this is bothersome.

What's next ?

This depends of the users. If I receive requests that are easy to code along with appropriate compliments and stroking of my ego, I might be persuaded to code a version 4.0. Any monumental goofs will be corrected in a version 3.1 if required. Otherwise, I think it is time to move to something else. Let me know.

Hard copy of maps. PLOTMAP.EXE

Along the way, I have written a program that produces hard copy of APRS maps. You need to have a laser printer or ink jet printer that supports HPGL. The HP3 and HP4 series support the HPGL vector graphics. A preliminary version is available on request. A final version will be uploaded to tapr/sig/..... in a few weeks. The present version is limited in the number of maps that it can handle in its DOS based file selection menu. I have commissioned my son, Kevin, a recent computer science grad, to code a C++ routine that imitates a Windows file selection window with mouse support and is unlimited in number of files. If we can figure out how to link the QBasic and C++ object files we may have something. Drawing the maps was a breeze as APRS maps are vector graphic maps to begin with. In a regressive step, HP has eliminated the high level commands that used to draw and label axes in HPGL. Most of my time was spent coding little tic marks and labeling a couple of tic marks for reference. NO!, I will not make any changes or add more tic mark labels. The source code is available for any masochist who wants an improved hard copy.

---

375. Re: [APRSSIG:3763] Re: 20 Meter report

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 18 Aug 1996 22:24:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960818221821.7081A-100000@arctic>
Rendered body type: text/plain

On Wed, 14 Aug 1996, David Wells wrote:

> PLEASE STAY OFF 14.100! THIS IS THE PROPAGATION BEACON FREQUENCY!

APRSdos REPLY/COMMENT: Absolutely correct. But please lets all be specific. 14.100 CW ZEROBEAT is the CW beacon frequency. Tuning your packet radio to 14.100 LSB is no where near the CW beacon frequency. The packet tones will be either 1700 or 2100 HZ lower and not impact the international CW beacon frequency at all... and since packet is usually referred to by its LSB equivalent this is the convention. To avoid the CW beacon frequency, packet operators should avoid 14.101 to 14.102...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

376. Re: [APRSSIG:3782] Help with KAMPlus rf feedback

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 18 Aug 1996 22:53:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960818225040.7081F-100000@arctic>
Rendered body type: text/plain

On Fri, 16 Aug 1996, bob wrote:

>
> I have been running as a GATE on Long Island for the last few months.
> However, I have had a continuing problem which I have not (as yet) resolved,
> causing the GATE to be HF to VHF only. The problem is that when APRS causes
> the TNC to transmit simultaneusly on both HF and VHF my HF transmission
> causes interference on my VHF transmission. This results in no one seeing me
> on VHF...

APRSdos REPLY/COMMENT: A way to avoid both the HF and VHF transmitting at the same time, is to use O-C-T mode to set the TNC VHF beacon to every 10 minutes and the HF beacon to 0. Then operate APRS on HF only (or the toerh way around). This way, the VHF beacon of your posit is independent of APRS and will NOT occur at the same time a the HF (which is garbling your packet on VHF)...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

377. APRS Cave Radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Aug 1996 00:44:09 -0400 (EDT)
To: aprssig@tapr.org
Cc: bedfordMD@aol.com
Message-ID: <Pine.GSO.3.95.960818234852.8094A-100000@arctic>
Rendered body type: text/plain

Went home to alabama for 30th H.S. reunion and scheduled a crawl in the old favorite cave to test VHF APRS comms underground. Governemnt has barred up all N.Alabama caves (hundreds) so got Pres of Ala Spelogical Society to get keys and permsision. Date and time arrived but Pres was found in hospital with bad back. He told us where the backdoor was and how to get around the baracade...

But of course, it was a mottley crew. My 80 year old dad, brother with braces on both legs, and two kids (8 and 6)... My brother and I toe crawled through the tiny "back door" which included slithering over about 30 feet of sloping rock at 30 degrees down in to a "bottomless pit" Once we got in, then we could walk over to the main entrance (about 2 feet by 4 feet and totally blocked by steel plate and bars). ALthough the kids could fit between the bars, it was a tripple 90 degree process with one leg and elbow at a time to negotiate the narrow space between rock and bars. Also, since the kids had never seen a cave in their life, it took some coaxing from us on the inside to suck them in. ALl they could see of us were our hands and lights...

My dad, an ex-FBI agent of 35 years, who in my youth would not tollerate even the slightest dissrespect for laws whether logical or not, has mellowed over the years and looked the other way.
He decided he has seen it all before and would volunteer
to take up radio position number one at the entrance...(and not get muddy)

Once inside,
My Brother, my kids and I walked only 100 yards further and discovered the real baracade which was 4 inch angle iron weleded in bat-safe fashion from floor to ceiling and wall to wall about 10 feet high by 30 feet wide. But of course, there was the usual wiggle hole that has evolved around the right edge which of course was easy for the kids but hard for my brother and me. Once on the other side, about 100 feet I decided to make my first radio check and got no response from my dad at the mouth. Realizing he was deaf in one ear and had only 50% hearing in the other, I muttered at my stupidity for not having made radio checks from the beginnning...

Then I went back to the baracade and again tried in vain to raise my dad only 100 yards back and blocked by no more than probably 30 feet of rock from line of sight.. Grumbling I crawled back around the baracade went back to the very mouth and still couldnt raise him. WIth enough yelling, I raised him accoustically (he was out looking for a walking stick to whittle on while he stood radio watch.. (with the radio in his back pocket). Even I cant hear these little ICOM's even with the volume all the way up!

This time, I more carefully assigned him a spot inside the mouth of the cave that was more line of sight to us but on the outside of the "bottomless pit". I made his orders more definitive this time: "to stay put and man the radio" All of this without being able to see him on the other side of the steel plate and bars at the entrance...

Again, I proceeded to the baracade (about 100 yards in) and though the copy was solid, was surprised to hear noisy spots as I moved. Crawled back around the baracade and lost him again! ARGH! But at least I proved that the 3 feet by 4 inch horizontal slots in the bat-safe angle iron baracade were an almost perfect 2 meter filter. BACK AOURND the baracade again, I went to retrieve the radio from my dad and relieve him of his post so that I could bring the radio in and perform remaining tests all on the interior side of the baracade, this time with my brother being the other end of the link...

Now I proceeded to get my brother and kids safely all the way to the end of the 600 foot main chamber so then I could return to the baracade and make a test. Again, I didnt bother to make a radio check until I was at leat out of flashlight range. Again no response and muttering words about radio incompetance went back to brother and kids and found out he was pushing the FUNCTION button instead of the PTT. Back again I went and finally got a good radio check over about 450 feet. THis is a straght long chamber. I went the next 150 feet and with only a 10 degree change in main chamber angle, began to hear null spots and can you belive it, poor comms! I could still see the (very dim) but reflected light from his light at theend of the chamber and when we could get the kids quiet enough, we could easily holler back and forth but had poor radio comms! THis main chamber is tyupically 50 feet wide and between a minimum of 10 feet to 30 feet tall.

The next test area was probably more typical of actual caving. It was a very curvy passage about 5 feet wide and 3 feet tall. A cake walk for the kids but a duck walk for us. Again, a few hundered feet in, no comms! Yeling at my brother (ive had 45 years of practice) did not improve radio comms until I duck walked back to within less than 100 feet! At that distance (if you could keep the kids quiet (an impossible task)) we could communicate by voice in almost normal tones. BUT NOT BY RADIO!

This was a very humbling experience. HAMS have talked to the space shuttle with 2 watt HTs over paths of over 1000 miles but I could just not believe that my radio was useless over a 100 foot path along an only slightly serpentine route through solid rock. and that I could communicate better by voice than by radio. All of my early caving buddies were also my HAM buddies, but back then there was no such thing as a 2 meter HT...

The next night I shared this experience with the Pres of the N.Ala Spelogical society (Who coincidentally was studying for his TECH!) and he brought over his complete data base of N.Ala caves. Hundreds.
Can you believe one of the caves in Huntsville has a 437 foot pit! That is a straight down freefall. It takes a team of 12 just to carry the single piece of rope the 4 hours into the cave where the pit is! In the 100% humidity, no light can penetrate the mist the full 437 feet. I am awed by the bravery of these guys who go down the rope anyway!

CONCLUSIONS:
1) VHF is "PURELY" line of sight. In my brief test, there appear to be no obvious waveguide or reflection effect of any significant value. I would love to do this more scientifically, with known antennas (not SHORT stubby rubber ducks)

2) What about UHF? Sure wish I had taken dual band HT's for the test...

3) Caves come in all shapes and sizes.. Most have easy parts and hard parts. The best caves usually have the HARD spots at the beginning which has kept out the distruction of man over millions of years. The cave we had intended to visit was "newely discovered". It was called elbow cave because the entrance was about the size of the opening in a dog house and required you to place your left elbow over your head, make two 90 degree bends wiggling on your side through about the first 15 feet. From then on, it was over 3 miles of heads-up walking through virgin beauty.. But it took 30 minutes to get in just the first 50 feet.

CONCLUSION: Using APRS hand held digipeaters to establish multiple VHF packet links into a cave has its greatest potential to establsih an in-cave communications "base camp". This comm link may not proceed to the furthreset point in a cave, but it can provide a link from deep within to the outside world (all the way back in town). This forward comm "base camp" may save 30 minutes to hours in communications, if the only other alternative is to send out a human through the "hard parts"...

The nearest cave rescue team in all of North ALabama is in Huntsville, over 70 miles from our caving area. From the mouth of the cave, we could hit Huntsville via 2 digis! In the case of elbow cave, just 50 feet of coax to the first of several in-cave digipeaters would save 30 minutes or more off of the communications path!

4) I was amazed at the distance of accoustic comms over serpentine paths that were useless for radio. In the pure silence of a cave, how far could packet tones be transmitted accoustically?? What is the best tone frequencies? Just replace the radios in that packet link with speakers, mics and audio amps! at the duty cycle of an APRS packet, I bet you could build a 10 watt accoustic digipeater in the same 1 liter package as

```
an HT digipeater...  Except for water drips, the silence in a cave should
give unbelievable signal to noise beyond our usual above ground accoustic
experience....

Anyway, LOTS of areas for experimentation!  We aren't talking kids stuff.
When these guys go in, they plan on spending MANY hours in the cave,
because usually they spend the first several hours just getting to the
area of today's exploration.  (Rules require each person to carry 3 days
water and rations.)  Providing an APRS comm link is an exciting
challenge that must be met link-by link using what ever is appropriate:
 * normal VHF/UHF for long straight shots
 * twisted pair for short serpentine, or major re-direction
 * Accoustic links as a replacement for twisted pair?
 * long wire coupling around tight areas?

If you are intersetd in further APRS-CAVE-RADIO discussion, send me
private reply and i will add you to a brief distro list...

Bill, Huntsville is the caving capitol of the whole south!  Might be an
interesting area to explore for Huntsville APRS folks.  Remember since GPS
will never go inside a cave, you can make an APRS CAVE map as fast as you
can move a mouse!

 Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

378. Re: [APRSSIG:3803] Re: JUNO

From: George Salinas <saltair@hargray.com>
Date: Mon, 19 Aug 1996 01:43:40 -0400
To: aprssig@tapr.org
Message-ID: <3217FF0C.2756@hargray.com>
Rendered body type: text/plain

```
Don Murray wrote:
>
> Please take this crap somewhere else, the APRS sig is not the place for
> advertising servers..
>
> ----------
> > From: Linda G Mullen <ad4bl@juno.com>
> > To: aprssig@tapr.org
> > Subject: [APRSSIG:3798] Re: JUNO
> > Date: Friday, August 16, 1996 10:26 PM
> >
> >
> > On Fri, 16 Aug 1996 19:25:03 -0500 (CDT) Pat Bunsold
> > <pbunsol@cati.csufresno.edu> writes:
> > snip
> > >  The only drawback is no  attached files or FTP or Web surfing, but
> > since it's absolutely free,
> > snip
> > > 73, Pat WA6MHZ    wa6mhz@juno.com
> >
> > You can attach files and send them thru JUNO...under file in the upper
> left corner is
> > the command...insert text file into message... the file must be ascii and
> > have a txt extension.
> > We send files all the time...even net rosters and other things.  It works
> > very well.  the
> > only thing you must make sure there is no binary text in the file...if
> > there is you will get
> > a pop-up message telling you that there is binary material in the file.
> >
> > Linda AD4BL
> > ad4bl@juno.com  or  ad4bl@beaches.net
> >


======================================================================
======================================================================

Is this any worse than some of the other advertising I see on the sig?
Either all advertising is allowed or no advertising is allowed. Heck,
I've even read postings on production runs of merchandise and
confirmation of orders.  The proliferation of this type of stuff
should come as no surprise to all, particularly in view of what has
been posted in the past.
```

73, George KD4FJ.

---

379. Re: [APRSSIG:3861] Re: JUNO

From: "Don Murray" <james-m@ix.netcom.com>
Date: Mon, 19 Aug 1996 02:43:46 -0400
To: <aprssig@tapr.org>
Message-ID: <199608190644.XAA27780@dfw-ix1.ix.netcom.com>
Rendered body type: text/plain

```
----------
George, you will get no argument from me in regards to stoping all
advertising in this sig.. However, I can stand the ads that are in someway
related to or associated with APRS operation.. Out and Out advertising for
a server isn't in any way related to APRS operations.
> ======================================================================
> ======================================================================
>
> Is this any worse than some of the other advertising I see on the sig?
> Either all advertising is allowed or no advertising is allowed. Heck,
> I've even read postings on production runs of merchandise and
> confirmation of orders.  The proliferation of this type of stuff
> should come as no surprise to all, particularly in view of what has
> been posted in the past.
>
>
>
> 73, George KD4FJ.
>
```

---

380. ATTENTION APRS PACNWEST (MT,ID,WA,OR)

From: DDOBBINS@aol.com
Date: Mon, 19 Aug 1996 09:12:32 -0400
To: aprssig@tapr.org
Message-ID: <960819091231_459894965@emout15.mail.aol.com>
Rendered body type: text/plain

Is it still OK to post APRS messages on the APRS SIG?? HA HA.

This is your APRS PACNWEST Coordinator, calling all those interested in MONTANA, IDAHO, WASHINGTON, and OREGON to drop me a message or contact me at the address following this posting, so I can get you on the e-mailing list for the APRS PACNWEST monthly bulletin. Include Name, c/s, address, phone, e-mail, pager, cell-phone, packet address, and name of your favorite pet.

As YOUR coordinator, I feel it my responsibility to lead the way in map development, and educating interested persons about APRS. I am busily making maps derived from the 1:2M CDROM, and have borrowed the 1:100K CDROM to start on some city maps. Perhaps you've already pulled the PNWMAP08.ZIP file from the TAPR/APRSSIG/UPLOAD area, and have seen the results of mine, and others, work so far. Well, this past weekend I've started on the following maps:

MT: Great Falls, Butte, Billings, Kalispell, and Helena. Going to remake the MTState.map.
ID: Couerd'alene
WA: Port Angeles Hydro area (all P-Sound), Olympia, Tacoma, Wenatchee, and Centralia
OR: (Waiting for someone to ask for an area)

I've heard a couple Seattle-locals talking about APRS on the 444.7 repeater. I couldn't get back to them in time to offer assistance. If you need help, email me, or call me at temp #206-631-3266, in Kent. I'm available for club meetings, etc., and really want to get a strong APRS network going here in the PACNWEST. In future would like to have our own local WEB site with FAQS, links and files for those interested, plus access to a BBS to store APRS files for those not on internet (Yes, there are still some holdouts left out there).

Give me a hollar. NOW. Aloha, Dave Dobbins/WH6YC, qth Seattle, WA

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381. Please un- subscribe

From: Mark Townsend/VGI
  <Mark_Townsend@vanguard.com>
Date: 19 Aug 96 9:52:24 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <199608191349.JAA26516@vgi3mail.vanguard.com>
Rendered body type: text/plain

I have tried twice to unsuccessfully un-subscribe to your list server. Now I
think I have subscribed twice.

Would you please un-subscribe me twice...

Thanks in advance for your assistance.

---

382. APRS Global

From: Tasos Zachariou <sv1rd@eexi.gr>
Date: Mon, 19 Aug 1996 17:29:01 +0300
To: aprssig@tapr.org
Cc: sv1xv@hol.gr
Message-ID: <199608191429.RAA14608@eexi.gr>
Rendered body type: text/plain

Seeing the Java APRS servers, which is an excelent programming job,
I had some thoughts about the creation of "Virtual APRS Internet Network".

Imagine this scenario:

One way Gates form hf to vhf (Allready exist)
One way or (full) Gates form vhf to Internet.

These gates can excange APRS Packets at a selected reserved tcp port in a
way similar the "Ping Pong" Conference Servers do.

This way we can introduce data into this "virtual network" from "interfaces"
distributed all over the world, and constant update of the world map.
As the success of APRS depents of the number of users (especially mobiles)
It's obvious this way APRS can also be introduced to areas were there
in not APRS activity.

In order to achieve this APRS must become tcpip compatible, perhaps it is
easier to modify WINAPRS so it becomes an Winsock application.
Win APPRS has the additional advantage to allow many maps to be open
simultaneously on the screen.

the Java APRS servers may have a central role in this virtual network.
As curently they luck the ability to update each other.
Also the problem of each server offering a limited selection of maps
must be resolved.

Any comment please?

Tasos Zachariou

Email
sv1rd@eexi.gr
sv1rd@acropolis.net
Snail mail
POB 3541 GR-10210 Athens
GREECE

---

383. transat

From: Roger Breckon <n8chb@tir.com>
Date: Thu, 03 Jan 1980 21:36:30 +0000
To: aprssig@tapr.org
Cc: ronalda@interlink.net
Message-ID: <12D278DE.14C7@tir.com>
Rendered body type: text/plain

Thank You Ron,

Gud work uplinking the transat Quebec - St-Malo sail boat race on hf.

73   Roger

n8chb@tir.com

---

384. Re: [APRSSIG:3809] Mansfield Oh. APRS DIGI

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Aug 1996 11:17:21 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960819111629.3179G-100000@arctic>

Rendered body type: text/plain

```
What is thelat/long coordinates of the digi so I can add it to the
DIGI-E.BK file?

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

385. Re: [APRSSIG:3861] Re: JUNO

From: Bob Lorenzini <hwm@netcom.com>
Date: Mon, 19 Aug 1996 09:00:58 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960819084043.113A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
> Is this any worse than some of the other advertising I see on the sig?
> Either all advertising is allowed or no advertising is allowed. Heck,
> 73, George KD4FJ.




  I'am reconsidering my opposition to a moderated list.


Bob - wd6dod
```

---

386. 20 mtrs

From: Roger Breckon <n8chb@tir.com>
Date: Thu, 03 Jan 1980 23:09:03 +0000
To: aprssig@tapr.org
Message-ID: <12D28E8F.507D@tir.com>
Rendered body type: text/plain

```
hello all,

I am testing on 14.100.0 wit aprs dos ver
mark  = 14.097.890 mHrz
space = 14.097.690 mHrz
equipment is ts440s and a 3 el mono
pk900 dual port tnc

also on 145.790 vhf ( seems to be wide open today )

the beam heading is at abt 45 deg. at 16:00 z
will move it more south as day goes on.

would like any reports sent direct please.

73      Roger

n8chb@tir.com and n8chb@juno.com
```

---

387. Indiana Maps

From: Tom Busch <tomb@avoca.nwscc.sea06.navy.mil>
Date: Mon, 19 Aug 1996 12:25:28 -0700
To: aprssig@tapr.org
Message-ID: <3218BFA8.A24@avoca.nwscc.sea06.navy.mil>
Rendered body type: text/plain

```
I have uploaded a new versions of the Indiana Maps collection for
APRSDos.  They are in

        ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/INMAPS05.ZIP

The new version includes county roads and for Northwest Indiana, and
street level maps for some cities in that area.

TomB
```

---

388. Re: [APRSSIG:3869] 20 mtrs

From: "Robert Barron" <BARRON@liant.com>
Date: Mon, 19 Aug 1996 13:42:06 -0600 CST
To: aprssig@tapr.org
Message-ID: <6DBBA3D6F52@rm1.liant.com>
Rendered body type: text/plain

```
Roger,
> I am testing on 14.100.0 wit aprs dos ver
> mark  = 14.097.890 mHrz
> space = 14.097.690 mHrz
> equipment is ts440s and a 3 el mono
> pk900 dual port tnc
>
> also on 145.790 vhf ( seems to be wide open today )
>
> the beam heading is at abt 45 deg. at 16:00 z
> will move it more south as day goes on.
>
> would like any reports sent direct please.

Please don't do this on 14.100 MHz.  That's the frequency
of the worldwide NCDXF beacon network (unless it's been
moved in the last year or so).

73,

Robert Barron, KA5WSS                 barron@liant.com
Liant Software Corporation            Hook 'Em Horns!
```

---

389. Re: [APRSSIG:3869] 20 mtrs

From: ko4qc@ix.netcom.com (Joel Gamble)
Date: Mon, 19 Aug 1996 11:46:37 -0700
To: aprssig@tapr.org
Message-ID: <199608191846.LAA09344@dfw-ix9.ix.netcom.com>
Rendered body type: text/plain

```
You wrote:
>
>hello all,
>
>I am testing on 14.100.0 wit aprs dos ver
>mark  = 14.097.890 mHrz
>space = 14.097.690 mHrz
>equipment is ts440s and a 3 el mono
>pk900 dual port tnc
>
>also on 145.790 vhf ( seems to be wide open today )
>
>the beam heading is at abt 45 deg. at 16:00 z
>will move it more south as day goes on.
>
>would like any reports sent direct please.
>
>73     Roger
>
>n8chb@tir.com and n8chb@juno.com
>
>
 18:48 UTC.No copy in S/E TN...near Chattanooga...
                                 Ko4qC
```

---

390. win32s.dll?????????????????

From: ko4qc@ix.netcom.com (Joel Gamble)
Date: Mon, 19 Aug 1996 11:50:11 -0700
To: aprssig@tapr.org.Where.do.I.obtain.this.file?Apparantly.it.is.needed.to.run.winaprs.in
Message-ID: <199608191850.LAA02985@dfw-ix12.ix.netcom.com>
Rendered body type: text/plain

```
windows V3.1.
                Joel
```

---

391. RE: win32s.dll?????????????????

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 19 Aug 96 16:55:47 EDT
To: ko4qc@ix.netcom.com, aprssig@tapr.org
Message-ID: <CMM-RU.1.4.840488147.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
You wrote:

> windows V3.1.
>                Joel
```

```
By your cryptic message, I am going to guess that you want to know how/where
to get it...

If so, the answer is..

        http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/win32s.htm

and

        http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/Draft/WM063.htm



Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

392. Re: [APRSSIG:3871] Re: 20 mtrs

From: Roger Breckon <n8chb@tir.com>
Date: Fri, 04 Jan 1980 04:29:18 +0000
To: aprssig@tapr.org
Cc: barron@liant.com
Message-ID: <12D2D99D.3CAB@tir.com>
Rendered body type: text/plain

```
>
> Please don't do this on 14.100 MHz.  That's the frequency
> of the worldwide NCDXF beacon network (unless it's been
> moved in the last year or so).
>
> 73,
>
> Robert Barron, KA5WSS                 barron@liant.com
> Liant Software Corporation            Hook 'Em Horns!

/////////////////////////////////////
Thanks Robert,

I am sorry about the confussion.
I am not Transmiting on 14.100.00, My vfo is tuned there.
My tx fre. is 2110 and 2310 down from there.

Could you please check if I am QRM ing that fre?
if NCDXF is CW at 800 to 1000 hz I don't see a problem?
my beacon is set at every 6 min. so u will have to wait a while
to hear me.
I don't belive that I will be heard in CW mode, naturaly I will
be heard on side band, but that will not effect CW copy because
osc above 1000 hz will be filter out.

73      Roger

n8chb@tir.com and n8chb@juno.com
```

---

393. Re: [APRSSIG:3871] Re: 20 mtrs

From: "Robert Barron" <BARRON@liant.com>
Date: Mon, 19 Aug 1996 16:31:22 -0600 CST
To: n8chb@tir.com, aprssig@tapr.org
Message-ID: <6DE8C1C1BF5@rm1.liant.com>
Rendered body type: text/plain

```
Roger,

> I am sorry about the confussion.
> I am not Transmiting on 14.100.00, My vfo is tuned there.
> My tx fre. is 2110 and 2310 down from there.

Nah, I need to apologize.  As someone else pointed out to me
via email I did not read closely enough to see where the
signal actually was (not the freq readout).

> Could you please check if I am QRM ing that fre?
> if NCDXF is CW at 800 to 1000 hz I don't see a problem?
> my beacon is set at every 6 min. so u will have to wait a while
> to hear me.
> I don't belive that I will be heard in CW mode, naturaly I will
> be heard on side band, but that will not effect CW copy because
> osc above 1000 hz will be filter out.
```

I can't get to an HF radio at the moment but I'll give a listen
and see what I can hear.

73,

Robert Barron, KA5WSS   barron@liant.com
Liant Software Corporation   Hook 'Em Horns!

---

394. Re: [APRSSIG:3863] ATTENTION APRS PACNWEST (MT,ID,WA,OR)

From: foga@foothill.net (DAN FOGARD)
Date: Mon, 19 Aug 1996 14:44:11 -0700
To: aprssig@tapr.org
Message-ID: <199608192144.OAA17421@ns1.foothill.net>
Rendered body type: text/plain

>Is it still OK to post APRS messages on the APRS SIG?? HA HA.
>
>This is your APRS PACNWEST Coordinator, calling all those interested in
>MONTANA, IDAHO, WASHINGTON, and OREGON to drop me a message or contact me at
>the address following this posting, so I can get you on the e-mailing list
>for the APRS PACNWEST monthly bulletin. Include Name, c/s, address, phone,
>e-mail, pager, cell-phone, packet address, and name of your favorite pet.

OK
include me as a displaced PUGET SOUNDER FROM VASHON......

W6PRL
GRASS VALLEY CA.

>
>
>

---

395. QST article (GPS)

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Mon, 19 Aug 1996 17:32:47 EDT
To: aprssig@tapr.org
Message-ID: <19960819.152829.5375.4.aa7ya@juno.com>
Rendered body type: text/plain

I read the latest QST, and they had a run down
on APRS using GPS... I have thought about
getting a GPS reciever and implementing it with
my APRS station, and other applications, such
as, the LAT/LON of my X1J node, mapping the
local area on a lap top, etc..

Since I am new to the SIG, and want to learn
more, can someone enlighten me with some
of the more cheaper GPS recievers, but with
some great features built in.

73, Stacey, AA7YA Box 83, Whitetail, MT 59276   +1-406-779-3641
Infobahn Off-ramp: aa7ya@juno.com
RF: aa7ya@aa7ya.#nemt.mt.usa.noam -or- aa7ya@aa7ya.ampr.org
[44.82.31.2]

---

396. Re: JUNO

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Mon, 19 Aug 1996 17:32:47 EDT
To: aprssig@tapr.org
Message-ID: <19960819.152829.5375.3.aa7ya@juno.com>
Rendered body type: text/plain

You can call it NON-APRS, yes, but I want to
set myself straight, by saying...

If you have an axe to grind on NON-APRS subjects,
send it to the person personally, and not to the
WHOLE NET!!! Some will say that I started the
whole advertising schpeel about JUNO, quite
frankly, it was not so...

My feeling is...

I wanted to get an E-Mail account,
since I have no ISP available here, yes, I am one
of the few in the world that has no "true" access
to the I-Net... I got the chance through JUNO,
since they had what I wanted for the time being,
E-Mail, whether free or not, but I was willing to risk
signing up. I recieved the TAPR SIG's via packet, but
most of the messages were weeks old by the time
I got them.

Leave the bashing, personal attacks, humor at one's
expense to the "Chicken Bander's"... Use good
judgment as Ham Radio Operators...

Lets get back to APRS... That's all I ask.

-----
73, Stacey, AA7YA
Box 83, Whitetail, MT 59276 +1-406-779-3641
Infobahn Off-ramp: aa7ya@juno.com
RF: aa7ya@aa7ya.#nemt.mt.usa.noam
-or- aa7ya@aa7ya.ampr.org [44.82.31.2]

---

397. Re: [APRSSIG:3863] ATTENTION APRS PACNWEST (MT,ID,WA,OR)

From: Gumby <rgeer@physio-control.com>
Date: Mon, 19 Aug 96 14:34:09 PDT
To: aprssig@tapr.org
Message-ID: <9608192134.AA04330@physio-control.com>
Rendered body type: text/plain

> This is your APRS PACNWEST Coordinator, calling all those interested in
>MONTANA, IDAHO, WASHINGTON, and OREGON to drop me a message or contact me at
>the address following this posting, so I can get you on the e-mailing list
>for the APRS PACNWEST monthly bulletin. Include Name, c/s, address, phone,
>e-mail, pager, cell-phone, packet address, and name of your favorite pet.

Greetings!
I am very interested in receiving the monthly bulletin, Below is the
information you requested. Thanks!

Name:
Robert Geer

C/S:
None (yet)

Address:
7116 Interurban Blvd
Snohomish WA 98296

Phone:
360.668.1456

Pager:
None

Cell-Phone:
206.790.6928

Packet Address:
None (yet)

Name of Favorite Pet:
Fred

---

398. Re: [APRSSIG:3872] Re: 20 mtrs

From: Roger Breckon <n8chb@tir.com>
Date: Fri, 04 Jan 1980 05:08:08 +0000
To: aprssig@tapr.org
Message-ID: <12D2E2B7.79BF@tir.com>
Rendered body type: text/plain

Joel Gamble wrote:
>
> >
> 18:48 UTC.No copy in S/E TN...near Chattanooga...

```
>                                 Ko4qC

-----------------------------------------------------------------
-----------------------------------------------------------------

Thanks 4 checking Joel,

My beam is west now fer the rest of the day I think. I'll try agn
off and on this week. I am seeing a lot of activity around 14.100
so far have seen 3 aprs station but seemed to be running auto.
all in the 5 call area. I'll leave it on tonite, could there be
a VK or ZL out there? Who knows.

cul

73      Roger

n8chb@tir.com
```

399. Need ACARS frequencies

From: "Bernard C. Barnes" <74362.1502@CompuServe.COM>
Date: 19 Aug 96 18:13:50 EDT
To: APRSSIG <APRSSIG@tapr.org>
Message-ID: <960819221350_74362.1502_HHG71-1@CompuServe.COM>
Rendered body type: text/plain

```
Saw some info on ACARS - Aircraft Communications Addressing  and Reporting
System on the APRSSIG a few weeks ago but  I was not interested in it at the
time but a friend just asked what were the ACARS frequencies and I couldn't come
up with them so  I would appreciate anyone on the SIG sending that info to me
at:

74362,1502@Cserve .com


73   Barney,  W8KJM
```

400. Re: [APRSSIG:3861] Re: JUNO

From: Dave Rasor <kd4rcy@pen.net>
Date: Mon, 19 Aug 1996 17:43:51 -0500
To: aprssig@tapr.org
Message-ID: <3218EE27.5A60@pen.net>
Rendered body type: text/plain

```
I dont know where Don Murray and George Salinas get off saying someone
giving assistance is advertising or 'crap' but I think Don needs to get
a life.  If he has nothin better to do than complain, than don't read
what you don't want to see.  It may not belong on this sig, but someone
lending assistance is far from 'crap'!
```

401. Re: [APRSSIG:3878] QST article (GPS)

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Mon, 19 Aug 1996 16:37:59 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960819163654.12024A-100000@spork.callamer.com>
Rendered body type: text/plain

```
Problem is that the QST article is so shallow that even after reading it,
there is little to help one get started!  Cliff K7RR
On Mon, 19 Aug 1996, Stacey T Hanrahan wrote:

> I read the latest QST, and they had a run down
> on APRS using GPS...  I have thought about
> getting a GPS reciever and implementing it with
> my APRS station, and other applications, such
> as, the LAT/LON of my X1J node, mapping the
> local area on a lap top, etc..
>
> Since I am new to the SIG, and want to learn
> more, can someone enlighten me with some
> of the more cheaper GPS recievers, but with
> some great features built in.
>
> -----
> 73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
> Infobahn Off-ramp:  aa7ya@juno.com
> RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
> [44.82.31.2]
```

```
>
>
```

402. Re: [APRSSIG:3812] Re: Running APRS on HP200LX

```
From: James Van Houten <jdvh@jdvh.com>
Date: Mon, 19 Aug 1996 19:51:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608192351.TAA14547@onramp.i95.net>
Rendered body type: text/plain
```

```
How do you wire the meridianXL to the comport.  It is 2 wire!  I am trying
to connect one to my kpc-3 for the mobile.  Thanks

jvh


At 10:49 AM 8/17/96 -0500, you wrote:
>I have an HP200LX and a MeridianXL. The Meridian sends out a NMEA
>signal which the 200LX will read via the communications software
>in the ROM but when I try to use other programs to get the data from COM1
>and send it via cell phone through a Megahertz PCMCIA card as COM2
>I get nowhere. What do I need in order to utilize this setup?
>
>Thanks in advance for your help
>
>
>----------
>> From: Dale Seaburg <dseaburg@web-access.net>
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:3802] Re: Running APRS on HP200LX
>> Date: Friday, August 16, 1996 11:58 PM
>>
>> deang@mail.syntron.com wrote:
>> >
>> > If ya need it, I can provide a schematic of my HSP.  I used the KISS
>approach
>> > and it works great.  The 200LX can run my tracker using HSP for about
>2days
>> > (straight) before I need to replace the batteries.
>> >
>> >snip
>>
>> Please do put the schematic on the SIG, George.
>>
>> Thanks.
>> Dale Seaburg  KG5LT
>> dseaburg@web-access.net
>>
>
>
-----------------------------------------------------------------
James Van Houten         jdvh@jdvh.com   http://www.i95.net/~jdvh
-----------------------------------------------------------------
```

403. Re: [APRSSIG:3883] Re: JUNO

```
From: "Michael Nail" <mnail@loclnet.com>
Date: Mon, 19 Aug 1996 20:54:42 -0400
To: <aprssig@tapr.org>
Message-ID: <00540985501000@loclnet.com>
Rendered body type: text/plain
```

```
ok ok watch what you say about don, he is cool
--
Michael Nail, mnail@loclnet.com
http://www.loclnet.com/mnail





----------
| From: Dave Rasor <kd4rcy@pen.net>
| To: aprssig@tapr.org
| Subject: [APRSSIG:3883] Re: JUNO
| Date: Monday, August 19, 1996 6:56 PM
|
| I dont know where Don Murray and George Salinas get off saying someone
| giving assistance is advertising or 'crap' but I think Don needs to get
| a life.  If he has nothin better to do than complain, than don't read
| what you don't want to see.  It may not belong on this sig, but someone
| lending assistance is far from 'crap'!
```

404. Questions...

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Mon, 19 Aug 1996 22:42:35 -0500
To: aprssig@tapr.org
Message-ID: <199608200352.WAA07339@sparc.isl.net>
Rendered body type: text/plain

```
I've been making progress with APRS but have some questions.

Apparently, there was a command to set the alias to WIDE, but it's been
removed.  True?   If so, what's the accepted way to set a WIDE alias such
that APRS knows you did it?  I can set it using O-C-T, of course.  I'm not
the best station for WIDE, but I seem to at least receive the closest WIDE
station better than others in my area so I've run with a WIDE alias on and
off to help those others get more posits on their screens.  We suddenly have
a number of new users playing with APRS in our area (Rochester, MN) so the
network here is not really established.  We need a good WIDE eventually...

I'm having a problem with APRS getting hung up after some period of time.  I
*think* this is happening when it is trying to send something to the TNC and
might be due to the TNC.  Does APRS use software handshaking?  Can it use
hardware handshaking?  XON/XOFF has been an occassional problem with my TNC
- it works better in hardware mode.  Has anyone else seen this sort of
problem?  The symptom is that APRS will not respond to keystrokes but the
computer is not entirely locked.  Ctrl-Alt-Del still works.  Today when it
happened, I noticed the "sending to TNC" message was on the screen.
(Running 7.6f)

Finally, I'm using a PK12 in the car as a tracker and have done a little
map-making using the posits.  I've noticed that sometimes the tracker sends
an extra line after the GPS info (GPS-20).  I don't know if it's a CR or LF
or both.  I noticed this mainly when it's transmitting data when the GPS
doesn't yet have a fix.  But, that seems to be when I'm looking at it most
carefully so I can't be sure it isn't doing this always.  Sound familiar to
anyone?  BTW, I just figured out the remote programming for the TNC and it's
a pretty cool feature.

Thanks for any and all help!
73,
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet:   aa0sm@wd0gnk.#semn.mn.usa.na
```

405. VOTE TIME FOR SHIRTS

From: KD4EMI@aol.com
Date: Mon, 19 Aug 1996 23:48:33 -0400
To: APRS-FL@tapr.org
Cc: APRSSIG@tapr.org, N2CZF@magg.net, WB4APR@amsat.org, DMOBLEY@encore.com
Message-ID: <960819234832_505368730@emout15.mail.aol.com>
Rendered body type: text/plain

```
Ok guys..the shirt design is AWSOME...IT really came out great.
Got the fax of it this afternoon...

Here is the deal...need input from you guys...

If we go with a collar shirt we use the APRS GLOBE with sats revolving around
it  (for a great example see the GPS article on PAGE 56  in SEPT QST)  The
logo and printing are the size of a large police badge and will be located on
Right upper breast area.

Above it    HAM RADIO  APRS

              LOGO

Below it  "We know where to find you"

If we do the collar shirt there would not be anything on the back of the
shirt cause it'll look dumb and not too professional.   The collar shirt will
cost a little more (based on response will dictate price)

If we do a  T_SHIRT   cheaper...

ON FRONT      LOGO with
on top of it   APRS
```

On bottom of it "we know where to find you"

On back of TSHIRT
Large logo
on TOP HAM RADIO APRS
Below AUTOMATED PACKET REPORTING SYSTEM

ANY SUGGESTIONS would be appreciated as Im not in this kinda buisness and lack creativity..

My personal choice is the collar shirt, nothing on back. Small badge logo on front Maybe change it to APRS USER GROUP or something...

#1 Interested ? (cost around $20.00)
#2 Changes ?
#3 Ideas ?

I want to get this done this week... Please take a sec and send me the info about what you would like to see...
The shirts will be available for the MELBOURNE HAMFEST and Im not making any profit here...It's just for fun and comraderie..
NOTE: APRS EVENT ORGANIZERS !! Get your group these cool shirts... Make a good impression on the organization you serve..(dont forget to shave !)

Mike
KD4EMI@AOL.COM

---

406. (no subject)

From: (unknown sender)
Date: (date unavailable)
Message-ID: <1F497F8E.1BFB@cris.com>
Rendered body type: text/plain

Date: Wed, 20 Aug 1986 01:27:58 -0700
From: William Nolle <wa8inz@cris.com>
Organization: None
X-Mailer: Mozilla 2.01 (Win16; U)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Web Page
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I did my first APRS web page, now that i know how i can make some additions to it. I placed 2 maps on the page. 1 DF map and 1 of Alabama showing the whole state and the areas that i have made detailed maps for. Remember guys it's my first one Hi. Also for those that want to Sunscribe or Un-Subscribe from or to the sig i have an easy link to tapr to do that. Take a look and let me know what to improve upon. The address is.

http://www.concentric.net/~wa8inz

```
--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

407. Hacked DGPS Beacon Rcvr

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 20 Aug 1996 06:33:36 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae3f5f6b5174@[199.1.11.119]>
Rendered body type: text/plain

Here is some very interesting news about DGPS from the
Newsgroups: sci.geo.satellite-nav :

From: rcochran@netcom.com (Richard Cochran)
Newsgroups: sci.geo.satellite-nav
Subject: Hacked DGPS Beacon Rcvr Success!
Date: Mon, 19 Aug 1996 04:29:41 GMT

I got a DGPS fix with a homebrew DGPS beacon receiver!!!!

I've been working on this far longer than I'd like to mention, as some of you may remember from my earlier posts. Yesterday I finally got a chance to put all the pieces together. I can now use my homebrew DGPS beacon receiver to feed the Coast Guard corrections to my Garmin G45, and it all works! It's not yet portable, but that's a minor detail that can be taken care of.

Many thanks to lots of you for your suggestions and words of encouragement. I absolutely couldn't have done this without the help of the net.

My advice to those wanting to build your own DGPS receiver: don't bother, unless it's your idea of recreation. You'll have much less hassle by buying a $500.00 commercial receiver. The parts for my receiver would probably cost around $1000.00, but since I already had the shortwave and the computer laying around (the most expensive parts), I only shelled out about $100.00 extra, plus a few thousand dollars worth of my time figuring out how to make it work. My receiver is much more clumsy and physically awkward than any commercial design. I'm still considering buying a pager-sized commercial unit from DCI. Still, I'm pretty happy that my homebrew receiver works!

Outline of design:

I'm using a Sony ICF 2010 general purpose portable shortwave receiver to receive the Coast Guard beacon on Angel Island (San Francisco Bay, California). I'm feeding the audio output from the shortwave into a cheap MFJ-1225 RTTY computer interface (it uses an XR2211 chip to do the FSK demodulation). The MFJ produces raw digital logical level output at 200BPS, with no buffering or other intelligence to the signal. I'm sending the raw digital signal to the CTS handshake line (Pin 8 of a 9-pin RS-232 cable) on a serial port of my DOS computer. I've written some software to watch the CTS handshake line, and read the 200 BPS bitstream (I did this by modifying some public-domain software written for Ham RTTY). Then I'm sending the data out to my Garmin G45 GPS via a second serial port. The only processing my computer is doing is converting the 200 baud syncronous bitstream from the beacon receiver to 4800 baud RS-232 asyncronous.

--Rich

----------- He said it not me -----
73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

408. Garmin 45/40/38 FAQ

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 20 Aug 1996 06:39:15 -0600
To: aprssig@tapr.org
Message-ID: <v02140b02ae3f6128b9dd@[199.1.11.111]>
Rendered body type: text/plain

The latest Garmin GPS 45/40/38 Frequently Asked Questions FAQ
Version 1.081 Aug 8, 1996

Over 150K of must read information for Garmin GPS users.

Compiled by Lane A. Holdcroft

is available at:

  http://www.eskimo.com/~klah/index.html
  or ftp://ftp.eskimo.com/u/k/klah/index.html
  or ftp to "ftp.eskimo.com", cd to "/u/k/klah"

For more general information not specific to the Garmin units, read the general GPS FAQ maintained by Peter Bennett. He also has a new NMEA FAQ. They are both available on his ftp site which is the best single site on the web for low cost GPS's.

  ftp://sundae.triumf.ca/pub/peter/index.html

  http:://vancouver-webpages.com/peter/index.html
  ftp://ftp-i2.informatik.rwth-aachen.de/pub/arnd/GPS/peter/index.html

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

409. Re: [APRSSIG:3889] Web Page

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Tue, 20 Aug 1996 07:20:13 -0600
To: aprssig@tapr.org
Message-ID: <3219BB8D.3DDC@slkc.uswest.net>
Rendered body type: text/plain

William Nolle wrote:
>
> I did my first APRS web page, now that i know how i can make some
> additions to it. ------------hack,slice,snip----------------------->

Good job on the page, Bill!
--
73
Doug
KC7CO
Radio Free Utah

```
                            --------
                            |       |
                            |     #  ------
                            |     RFU     |
                            |             |
                            |             |
                            |             |
                             -------------
```

410. Re: [APRSSIG:3871] Re: 20 mtrs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Aug 1996 09:59:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960820095426.4327B-100000@arctic>
Rendered body type: text/plain

On Mon, 19 Aug 1996, Robert Barron wrote:

> Roger wrote:
> > I am testing on 14.100.0 wit aprs dos ver
> > mark = 14.097.890 mHrz
> > space = 14.097.690 mHrz
>
> Please don't do this on 14.100 MHz. That's the frequency
> of the worldwide NCDXF beacon network.

APRSdos REPLY/COMMENT: Notice that 14.100 LSB packet operation radiates
on the two tones he indicated. More than 2 KHz below and totally out of
the passband of CW at 14.100 CW.

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

411. Re: [APRSSIG:3882] Need ACARS frequencies

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Aug 1996 10:18:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960820101607.4327F-100000@arctic>
Rendered body type: text/plain

On Mon, 19 Aug 1996, Bernard C. Barnes wrote:

> Saw some info on ACARS - Aircraft Communications Addressing and Reporting
> System on the APRSSIG a few weeks ago but I was not interested at the
> time but a friend just asked what were the ACARS frequencies...

APRSdos REPLY/COMMENT: 131.55 MHz AM

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

412. Re: [APRSSIG:3887] Questions...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Aug 1996 10:43:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960820103616.9873E-100000@arctic>
Rendered body type: text/plain

On Mon, 19 Aug 1996, Tony Drumm wrote:

> Apparently, there was a command to set the alias to WIDE, but it's been
> removed. True? If so, what's the accepted way to set a WIDE alias such
> that APRS knows you did it?

*** Use O-C-T mode and set one of the other TNC calls to WIDE, such as the MYNode or MYHost calls. Dont try to use MYAlias since APRS will force that back to RELAY... Notice that APRS does *not* need to know that your attached TNC is a WIDE too. that is only a TNC function. But if you set one of your other aliases to WIDE, then you should put that in your POSIT COMMENT filed so that you will show as GREEN.

The Kantronics TNC's have these alternate calls, and the new PacComm Pico TNC has four separate aliases! I believe the AEA has a MYGate call that can be used (Not to be coufused with Kantornics GATES which we all use for our HF/VHF gateways)...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

413. Re: [APRSSIG:3888] VOTE TIME FOR SHIRTS

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 20 Aug 1996 09:59:33 -0500
To: <aprssig@tapr.org>
Message-ID: <199608201504.KAA20295@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

How about scanning the images and uploading them? I'd like to see it first!

> Ok guys..the shirt design is AWSOME...IT really came out great.
> Got the fax of it this afternoon...

414. KPC-3 FIXED

From: "Chris H. Edwards, KD4IEY/AE" <hedwards@st6000.sct.edu>
Date: Tue, 20 Aug 1996 11:27:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.960820112609.26810C-100000@st6000.sct.edu>
Rendered body type: text/plain

Well I thank you all for the help. I did a hard reset, an dthat seemed to fx what ever the problem was.

Again thank you very much
AE4XO

```
     ----------------------------------------------------------------
 _________________________________  ____________________________________
|                                  |                                    |
| Chris Edwards, Publicity         |          Southern Tech ARC         |
|  Baptist Student Union           |               KF4BMG               |
|  A place for everyone            |          443.750 Mhz PL 156.7      |
|                                  |     Technology dedicated to Radio  |
| ________________________________ | ___________________________________ |

                      Department of Computer Science
               Southern Polytechnic State University, Marietta, GA
         formerly :   Southern College of Technology

       ---------------------------------------------------------
```

415. WinAPRS Version 1.1.3

From: sproul@ap.org (Mark Sproul)
Date: Tue, 20 Aug 1996 12:24:28 -0400
To: aprssig@tapr.org
Message-ID: <v02130500ae3f9091b899@[165.1.27.20]>
Rendered body type: text/plain

```
I have uploaded the latest version of WinAPRS to

        Rutgers ftp://aprs.rutgers.edu/aprs
        TAPR ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/


The changes for this version are

Version 1.1.3
        Added on-line Help (WINHELPP)
        Added installation diagnostics, on startup it checks for required
                and optional files and informs the user if it
                finds anything wrong.
        Civil Air Patrol Search And Rescue grids (grids work, labeling is
                not complete)
        Zip code display
        Zip code option for global labels
        Davis Instruments weather station support finished

Please not that the ON-LINE help included with this release is NOT as
uptodate as the documentation on the Web site

HSP support is still not complete and is STILL the number one item on my
list, it is just taking longer than I had hoped.

Special thanks to Warren Walker for his assistance with the Windows Help.


Mark

_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

---

416. aprs on 20 mtrs

From: n8chb@juno.com (Roger Breckon)
Date: Fri, 4 Jan 1980 23:50:33 PST
To: aprssig@tapr.org
Message-ID: <19800104.235035.7198.0.n8chb@juno.com>
Rendered body type: text/plain

```
hello all,

14.100 LSB  300 baud packet aprs DOS ver

so far no aprs stations have been listed.

KB5OGN  Mail for:
K9AEG-1  Gateway to Wisconsin 9600 Baud UHF Network....
CO2JA-10 CO2JA-10, La Habana, Cuba  (EL83tb) TCP/IP  44.175.2.1
CO2JA-5   Network Node  (JANTET)
CO2JA    20-Aug 12:30 <<< Mailbox CO2JA La Habana  >>> 217 active
message


73      Roger

n8chb@tir.com
```

---

417. Mic Encoder/Mim chip..

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Tue, 20 Aug 1996 11:30:16 -0700
To: aprssig@tapr.org
Cc: gwyn@paccomm.com
Message-ID: <199608201830.LAA22049@poseidon>
Rendered body type: text/plain

```
Hi all APRS users,

   Have seen NIL on the sig since mid June about MIC ENCODER/MIM use, hows
it working out for those using same. Any bugs, improvments, advancements,
no comments, or any general informative information on how the Mic Encoder
or Mim chip is being used/utilized etc..Any TELEMETERY activity with Mim.?

   How about some input on same, from the experimenters, users.
```

Gwyn/W1BEL your msg of 6/11 any progress or beta version from your establishment as yet. Anticipated availability, with the GPS-20.?????
Any good news, bad news, forget about it ?.I'll help test it when ready.

What are these STAMPS, I see mentioned here on the SIG, what are they ?, where available, am in a fog (as usual ere on coast) about STAMPS are they similar to the MIM chip and do similar things.

Anyone for some 15M HF testing of APRS next weekend. Any reports on 15M propgation etc.. No comments on CWID stations all 4 corners and KC area of US. on our aprs hf 30M freq..

73's & Enjoy, Bill/wb6lpg
NNNN

WBB/WB6LPG

---

418. 20 meter APRS

From: jaym1@soho.ios.com (Jay Millard)
Date: Tue, 20 Aug 1996 15:19:10 -0400
To: aprssig@tapr.org
Message-ID: <v01510101ae3fbee0edee@[206.20.7.21]>
Rendered body type: text/plain

On frequency 14.100 lsb @1910z, will leave station on air for rest of day.
73 de Jay

Jay Millard
Amateur Radio Station KD1LY
Darien, CT 06820

---

419. PK232MBX Standalone Tracker?

From: jaym1@soho.ios.com (Jay Millard)
Date: Tue, 20 Aug 1996 16:35:23 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ae3fd1744b3c@[206.20.7.21]>
Rendered body type: text/plain

While this may have come up at some point in the past, the archives of the SIG are much too daunting. I also don't know how to search them for this subject :-)

Can a PK232MBX function as a standalone tracker TNC; i.e., just the GPS, the TNC and a radio?

Thanks in advance.

73 de Jay

Jay Millard
Amateur Radio Station KD1LY
Darien, CT 06820

---

420. Re:PK232MBX Standalone Tracker?

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 20 Aug 1996 17:08:37 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960820210837.00730bf8@seism1.ess.sunysb.edu>
Rendered body type: text/plain

>Can a PK232MBX function as a standalone tracker TNC; i.e., just the GPS,
>the TNC and a radio?

Yes, with the latest revision of the firmware. I believe it gives the same functionality as the PK12.
If your PK232MBX is a bit old (before they introduced pactor) like mine, the upgrade is quite expensive: >80$.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/

---

421. Re: [APRSSIG:3900] Mic Encoder/Mim chip..

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 20 Aug 1996 17:28:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960820172707.17569C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 20 Aug 1996, William B. Bliss/WB6LPG wrote:

>    Have seen NIL on the sig since mid June about MIC ENCODER/MIM use, hows
> it working out for those using same. Any bugs, improvments, advancements,
> no comments, or any general informative information on how the Mic Encoder
> or Mim chip is being used/utilized etc..Any TELEMETERY activity with Mim.?

APRSdos REPLY/COMMENT: Mine is still working fine.  We still have about a
dozen of the original prototype kits available.  PacComm should be making
an announcement soon, we hope, as they are in the process of laying out a
full production version...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

422. The total...

From: KD4EMI@aol.com
Date: Tue, 20 Aug 1996 18:05:19 -0400
To: aprssig@tapr.org
Cc: APRS-FL@tapr.org
Message-ID: <960820180519_506021533@emout19.mail.aol.com>
Rendered body type: text/plain

```
Well seems like the majority likes the collar shirt.

Also many did like the T shirt though and will investigate and get details
tomorrow and post tomorrow afternoon.

I'll talk to the guy and see if I can get the coffee cups done up too...

SO...probably a white polo shirt, APRS logo and maybe pocket on front
as well...Emblem would be a small silk screened aprs logo as mentioned
before. Nothing on back.  "we know wher to find you...blah blah)

Will find out about call letters for indiviudals that would mach font of
aprs.
ALL would be a single color I think..

I do know I guy at the mall who scans in pictures and then a super cool
machine stiches (embroiders..?) it...Looks neat..
Please no requests for golf balls...You guys are wierding out on me..
No pens either !!  Coffee cups ok...

Will remove HAM radio from it as well.. Will change to POSITION not packet.
 Anything else ?
Prices tomorrow with possible TAPR upload of scanned image..
ALL FINAL DETAILS TOMORROW..

Mike
KD4EMI
```

---

423. Re: [APRSSIG:3895] Re: Questions...

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Tue, 20 Aug 1996 18:00:58 -0500
To: aprssig@tapr.org
Message-ID: <199608202310.SAA23820@sparc.isl.net>
Rendered body type: text/plain

```
>***  Use O-C-T mode and set one of the other TNC calls to WIDE, such as
>the MYNode or MYHost calls.  Dont try to use MYAlias since APRS will force
>that back to RELAY...  Notice that APRS does *not* need to know that your
>attached TNC is a WIDE too.  that is only a TNC function.  But if you set
>one of your other aliases to WIDE, then you should put that in your
>POSIT COMMENT filed so that you will show as GREEN.

Actually, your last line told me what I "really" wanted to know - how does
APRS decide that something is WIDE and show it as green.  So, sounds like
it's the word "WIDE" in the posit comment.  Other question, then, is: what
color do you get if you are both a WIDE and a WX station?  Cyan?

I'm hoping we can find a more suitable station/location to be the local WIDE
digi so these are mostly curiosity questions.

73.
```

```
Tony Drumm
Rochester, MN
internet: tdrumm@isl.net
Packet:   aa0sm@wd0gnk.#semn.mn.usa.na
```

---

424. Re: [APRSSIG:3905] The total...

From: William Nolle <wa8inz@cris.com>
Date: Wed, 20 Aug 1986 18:38:46 -0700
To: aprssig@tapr.org
Message-ID: <1F4A7126.5229@cris.com>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> I do know I guy at the mall who scans in pictures and then a super cool
> machine stiches (embroiders..?) it...Looks neat..
> Mike
> KD4EMI

Sounds interesting Mike, wouldn't mind having the persons address (Or maybe
he's on the web, Would like to know if this guy could work from CorelDraw
files.

--
          \////
          (o o)
    *--o00-(_)-00o--*
       Bill WA8INZ
     wa8inz@cris.com
    wa8inz@amsat.org
```

---

425. Re: [APRSSIG:3900] Mic Encoder/Mim chip..

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Tue, 20 Aug 1996 19:42:14 -0400 (EDT)
To: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960820193847.13907A-100000@outland.dtcc.edu>
Rendered body type: text/plain

```
Bill, I have constructed a MIM back pack portable tracker with mine.
Have tested it and works well under certain conditions.  Use the MIM with
a GPS-20 and Maxon 5 watt transmitter.  All is packaged in a 4x5x7 box
including two 12 volt two amp hour batteries.  Having a small problem
with RFI between the maxon and the gps/mim but hope to have that worked
out so that I can walk around and beacon my location.  This is in
preparation for a walk america event i want to participate in.\

Will be trying the MIC sometime soon as well.  Telemetry will come later.
Sam K3BY in Delaware.

On Tue, 20 Aug 1996, William B. Bliss/WB6LPG wrote:

> Hi all APRS users,
>
>    Have seen NIL on the sig since mid June about MIC ENCODER/MIM use, hows
> it working out for those using same. Any bugs, improvments, advancements,
> no comments, or any general informative information on how the Mic Encoder
> or Mim chip is being used/utilized etc..Any TELEMETERY activity with Mim.?
>
>    How about some input on same, from the experimenters, users.
>
>    Gwyn/W1BEL your msg of 6/11 any progress or beta version from your
> establishment as yet. Anticipated availability, with the GPS-20.?????
> Any good news, bad news, forget about it ?.I'll help test it when ready.
>
>    What are these STAMPS, I see mentioned here on the SIG, what are they ?,
> where available, am in a fog (as usual ere on coast) about STAMPS are they
> similar to the MIM chip and do similar things.
>
>    Anyone for some 15M HF testing of APRS next weekend. Any
> reports on 15M propgation etc.. No comments on CWID stations all 4 corners
> and KC area of US. on our aprs hf 30M freq..
>
>      73's & Enjoy, Bill/wb6lpg
> NNNN
>
>
> WBB/WB6LPG
>
```

```
>
```

---

426. Winaprs and hurricane plotting

```
From: KG5QD@aol.com
Date: Tue, 20 Aug 1996 19:51:55 -0400
To: aprssig@tapr.org
Message-ID: <960820195154_461418769@emout14.mail.aol.com>
Rendered body type: text/plain
```

```
I have my WXSVR software at the Collier County florida eoc sending the Plots
for Current, +12, +24. +36. +48 and + 72 hour positions for Dolly
automatically off the weather wire to the local area via APRS, but I am
getting reports that there is no Plot on  WinAprs.  Dos Users see it just
fine. Any Ideas? BTW Tampa and Miami should see the plots late at night and
early in the morning when the band is open.  73 de KG5QD  Dale
```

---

427. Re: Questions ...AEA MYGate no-digipete

```
From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Tue, 20 Aug 1996 19:58:26 +0000
To: aprssig@tapr.org
Message-ID: <199608202357.TAA01509@hemisphere.neocomm.net>
Rendered body type: text/plain
```

```
> ***  Use O-C-T mode and set one of the other TNC calls to WIDE, such as
> the MYNode or MYHost calls.  Dont try to use MYAlias since APRS will force
 >
> The Kantronics TNC's have these alternate calls, and the new PacComm Pico
> TNC has four separate aliases!  I believe the AEA has a MYGate call that
> can be used (Not to be coufused with Kantornics GATES which we all use
> for our HF/VHF gateways)...
>
 The AEA PK-232 has a MYGate call. However you can  not digipete
through this call.


chase

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA
```

---

428. Re: [APRSSIG:3888] VOTE TIME FOR SHIRTS

```
From: lisa agrelo <jagrelo@cris.com>
Date: Tue, 20 Aug 1996 20:42:31 -0700
To: aprssig@tapr.org
Message-ID: <321A85A7.CD3@concentric.net>
Rendered body type: text/plain
```

```
KD4EMI@aol.com wrote:
>
> Ok guys..the shirt design is AWSOME...IT really came out great.
> Got the fax of it this afternoon...
>
> Here is the deal...need input from you guys...
>
> Mike
> KD4EMI@AOL.COM

Mike,

Is the artwork somewhere so I can view it?
FTP?
URL?

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
```

```
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

429. Re: [APRSSIG:3905] The total...

From: lisa agrelo <jagrelo@cris.com>
Date: Tue, 20 Aug 1996 20:45:41 -0700
To: aprssig@tapr.org
Message-ID: <321A8665.76B6@concentric.net>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> Well seems like the majority likes the collar shirt.

I hav'nt even seen it yet!

> Prices tomorrow with possible TAPR upload of scanned image..
> ALL FINAL DETAILS TOMORROW..

Great! I look forward to seeing it. Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

430. HELP!!! KPC-3 TNC and Magellan NAV 1200 XL (same as Meridian XL)

From: James Van Houten <jdvh@jdvh.com>
Date: Tue, 20 Aug 1996 20:53:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608210053.UAA29125@onramp.i95.net>
Rendered body type: text/plain

```
HELP!!!

Sorry to ask this again but I am going nuts!!

Working with a KPC-3 TNC and a Magellan NAV 1200 XL GPS.  This GPS is the
same as the Meridian XL.  It is a vehicle mount instead of a portable.  Has
a seperate weatherproof antenna that mounts outside.  There are 7 wires that
come out of the harness.  Red and Bare for Power.  Red and White for
External Alarm.  Yellow and Brown for DBR.  Orange and Bare for NMEA Device.
The NMEA selection from the unit is NMEA 0183A, 0183B and 0183C.   There are
4 buad rates that can be selected 1200, 4800, 9600, 19200.  How do I connect
this GPS to the KPC-3 TNC?

Thanks in advance!!

73's
de
KA3TTU

Jim

3859.52N / 07645.43W

-----------------------------------------------------------------
James Van Houten         jdvh@jdvh.com   http://www.i95.net/~jdvh
-----------------------------------------------------------------
```

431. re: [APRSSIG:3889] Web Page

From: Tony Musselman <tmussel@earthlink.net>
Date: Tue, 20 Aug 1996 21:25:17 -0700
To: aprssig@tapr.org
Message-ID: <BMSMTP8406013700tmussel@earthlink.net>
Rendered body type: text/plain

bill,
you did an excellent job for your first time makind a page.
you might inspire some of the rest of us to step out and get our feet wet now.
definately like the LONG list of links to other hams.

73

Tony
KE4OSB

```
>  From: William Nolle <wa8inz@cris.com>, on 8/20/96 5:27 PM:
>  I did my first APRS web page, now that i know how i can make some
>  additions to it. I placed 2 maps on the page. 1 DF map and 1 of Alabama
>  showing the whole state and the areas that i have made detailed maps for.
>  Remember guys it's my first one Hi. Also for those that want to Sunscribe
>  or Un-Subscribe from or to the sig i have an easy link to tapr to do
>  that. Take a look and let me know what to improve upon. The address is.
>
>  http://www.concentric.net/~wa8inz
>
>  --
>             \////
>             (o o)
>       *--o00-(_)-00o--*
>          Bill WA8INZ
>        wa8inz@cris.com
>       wa8inz@amsat.org
>
>
>
>
```

[Attachment: ATTRIBS.BND; application/octet-stream; 2,154 bytes]

---

432. ANOTHER EVENT..A BIG ONE !

From: KD4EMI@aol.com
Date: Tue, 20 Aug 1996 21:38:25 -0400
To: aprssig@tapr.org
Cc: APRS-FL@tapr.org
Message-ID: <960820213824_390169916@emout08.mail.aol.com>
Rendered body type: text/plain

The South Florida WHEELER Bike club is having an annual

100 MILE (YUP NOT A TYPO)
BIKE EVENT..

We have everyone signed up for he event but could use a extra tracker thats
portable..If you got one and want to help, let me know.

Event is Sunday, Sept 8

Mike KD4EMI

---

433. I've swamped the SIG

From: KD4EMI@aol.com
Date: Tue, 20 Aug 1996 21:43:42 -0400
To: aprssig@tapr.org
Message-ID: <960820214331_390174956@emout08.mail.aol.com>
Rendered body type: text/plain

I got the idea guys....everyone wants a shirt...

You dont have to email the sig with the request..

When I get 'em, you'll get 'em...

They will be white polo with blue or black or red letters...Will see..
Lets change the subject for now...
Any comments about shirt design, please send me direct..
KD4EMI@AOL.COM
BUT
Before you ask, here are the answers...

YES WILL GET THEM IN BOTH POLO and T SHIRTS...
YES I'll GET THEM TO EVERYONE NOT JUST AT THE HAMFEST
YES WILL TRY FOR COFFEE CUP...
YES WILL TRY FOR STITCHING...

YES I'll TRY TO GET THEM CHEAP...

Im going for mostly large and extra larges and XXX larges...
No one has asked for a small one yet..!!!!
Dont worry, you'll get one soon..(Less than 2 weeks)
Though everyone "wants" one, I'll probably one run 30 the first time..
Mike

---

434. Re: [APRSSIG:3909] Winaprs and hurricane plotting

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 20 Aug 96 22:01:50 -0400
To: <aprssig@tapr.org>
Message-ID: <199608210158.VAA22089@bridge.net>
Rendered body type: text/plain

>I have my WXSVR software at the Collier County florida eoc sending the Plots
>for Current, +12, +24. +36. +48 and + 72 hour positions for Dolly
>automatically off the weather wire to the local area via APRS, but I am
>getting reports that there is no Plot on WinAprs. Dos Users see it just
>fine. Any Ideas? BTW Tampa and Miami should see the plots late at night and
>early in the morning when the band is open. 73 de KG5QD Dale
>

They appear fine on MacAPRS and javAPRS...

Steve KO4HD

---

435. Re: [APRSSIG:3906] Re: Questions...

From: ku0g@sprynet.com
Date: Tue, 20 Aug 1996 19:17:14 -0700
To: aprssig@tapr.org
Message-ID: <199608210217.TAA02519@m1.sprynet.com>
Rendered body type: text/plain

>Actually, your last line told me what I "really" wanted to know - how does
>APRS decide that something is WIDE and show it as green. So, sounds like
>it's the word "WIDE" in the posit comment. Other question, then, is: what
>color do you get if you are both a WIDE and a WX station? Cyan?

A weather station also operating as a WIDE will display as green to indicate
that it is also a WIDE digi. Only problem is that you have to be sure to set
your BEACON command in the TNC to B E 20 or less! As long as your operation is
a stand-alone weather station/digi NOT using a computer (remote WX site) then
you're in good shape but a computer in the mix changes everything! The posit is
constantly being updated by the APRS software with the current synoptic data
from the WX unit, therefore while it is possible to make your alias WIDE the
icon will continue to show as BLUE!

Now, in the case of a normal digipeater you have two options. The preferred one
is to operate it as a WIDE-RELAY. By adding the -RELAY in the position report
(the BTEXT command) your star will fill in completely green. If you choose the
lessor option of being WIDE only, then the star will show as green with a white
center...
Hope that makes it a little clearer, Tony. BTW: How do you like the Blackjack
GPS Antenna I sold you????

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

436. Re: [APRSSIG:3898] WinAPRS Version 1.1.3

From: wa4mej@juno.com (john w dent)
Date: Tue, 20 Aug 1996 22:15:44 PST
To: aprssig@tapr.org
Message-ID: <19960820.221554.4655.0.wa4mej@juno.com>
Rendered body type: text/plain

hi mark
i have been trying for much to long to down load your WinAPRS
i quit after over 15 hrs of trying i still have   "000" I HAVE CONTACTED
YOU AND WOULD LIKE TO HAVE A COPY OF WIN APRS   BUT I HAVE DON THE
DOWNLOAD BIT FOR THE LAST TIME .....
I WANT TO LOOK AT YOUR PROGRAM .. PLEASE , VIA E-MAIL, HOW MUCH AND
ETC,,.

MY SERVER HERE IN N.E.FLA. MAY HAVE SOME THING TO BE
DESIRED ,EVERY THING IS L.D . AND AT THE RATE THAT IT TAKES(8-10 HRS)

IT WOULD BE BETTER TO USE THE MAIL ..THE FIRST THING ASKED IS WHO? IS IN
CONTROL !!! NOT WHAT ARE WE GOING TO DO...

I WOULD LIKE TO SEE THE WIN -VER OF APRS ..
MY ADD.
JOHN DENT ,WA4MEJ
RT 1 BOX 169-F
HILLIARD,FL.   32046

I WILL AND CAN NOT SPEND MORE TIME ON THE NET WHEN THE NET PROVIDES ME
WITH ..000OO..
PLEASE HELP AND SEND ME YOU APRS AND HOW MUCH TO REGISTER

TKS
JOHN WA4MEJ
WA4MEJ@JUNO.COM

437. WB0WNX-7 Airmobile (Again)

From: Dave Kaplan <dkaplan@pionet.net>
Date: Tue, 20 Aug 1996 21:50:46 -0500
To: aprssig@tapr.org
Message-ID: <9608210250.AA03960@ELWOOD.pionet.net>
Rendered body type: text/plain

I will try airmobile once again on Saturday from Sioux City to Kansas
City/Downtown airport. Will depart SUX about 0730L to arrive MKC about
0845L. Will depart MKC about 1700L (or later if I get a free dinner) for
SUX. Pirpose of trip is to attend Fire/Rescue show at the Kansas City
Convention Center where I am displaying some of the items I sell to FEMA
USAR (Urban Search and Rescue) teams. Traveling with me is my sales
coordinator Gina (www.pionet.net/~dkaplan/gina.jpg) and her husband.

Setup is a Motorola PVT-6 to KPC-3 to Allinco DR1200 running 10 watts to w
rubber duck suction cupped to the copilot side window. Altitude should be
about 15,000 to 17,000 ft. Unit is set to only send $GPRMC. Should I be
sending anything else? Path is WIDE,GATE,GATE,WIDE. Full Duplex will be
turned on due to frequency saturation at that altitude.

Any comments or questions or even suggestions via E-Mail to dkaplan@pionet.net

Dave

438. Re: [APRSSIG:3913] HELP!!! KPC-3 TNC and Magellan NAV 1200 XL (same as Meridian

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 21 Aug 1996 07:34:26 -0500
To: <aprssig@tapr.org>
Message-ID: <199608211242.HAA03504@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

>Red and Bare for Power. Red and White for
> External Alarm. Yellow and Brown for DBR. Orange and Bare for NMEA
Device.
> The NMEA selection from the unit is NMEA 0183A, 0183B and 0183C.   There
are
> 4 buad rates that can be selected 1200, 4800, 9600, 19200. How do I
connect
> this GPS to the KPC-3 TNC?
> KA3TTU

ok, with the Garmin, the Orange is NMEA + and Black (or Bare) is BOTH
power - and NMEA -. The KPC-3 docs, in the GPS additional instructions,
tell you where to connect NMEA + and -. I'm at the office and don't have
access to a manual. Anyhoo, start with NMEA 0183A (as I am assuming that
the B and C will add other data) and see if the data is acceptable to
APRS. I use 9600 baud between the GPS and KPC-3 TNC. This doesn't seem to
matter much as I think the TNC has a buffer. I've used as low as 300 with
no problem.

Hope this helps!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

439. Re: [APRSSIG:3906] Re: Questions...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 21 Aug 1996 10:45:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960821103212.14774E-100000@arctic>
Rendered body type: text/plain

```
> WB4APR said: To make your TNC serve as a WIDE-RELAY, use O-C-T mode and
>>set one of the other TNC calls to WIDE, such as the MYNode or MYHost
>>calls.  Dont try to use MYAlias since APRS will force that back to RELAY.
>>If you set one of your other aliases to WIDE, then you should put that
>>in your POSIT COMMENT field so that you will show as GREEN.
>
> DRUM REPLIED: Actually, your last line told me what I "really" wanted to
> know - To use the word "WIDE" in the posit comment.  Other question,
> then, is: what color do you get if you are both a WIDE and a WX station?

APRSdos REPLY/COMMENT: Actually, you must use the words WIDE-RELAY at the
start of your POSIT comments to be green.  Since only dual alias
WIDE-RELAY digipeaters show as green.  WIDE only digipeaters are not
encouraged and will only show up as white with a green border..

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

440. Re: [APRSSIG:3920] WB0WNX-7 Airmobile (Again)

From: n8chb@juno.com (Roger Breckon)
Date: Wed, 21 Aug 1996 15:21:23 PST
To: aprssig@tapr.org
Message-ID: <19960821.152124.7486.0.n8chb@juno.com>
Rendered body type: text/plain

```
On Tue, 20 Aug 1996 21:52:47 -0500 (CDT) Dave Kaplan <dkaplan@pionet.net>
writes:
>I will try airmobile once again on Saturday from Sioux City to Kansas
>City/Downtown airport.  Will depart SUX about 0730L to arrive MKC

>Setup is a Motorola PVT-6 to KPC-3 to Allinco DR1200 running 10 watts
>rubber duck suction cupped to the copilot side window.  Altitude

>Any comments or questions or even suggestions via E-Mail to
>dkaplan@pionet.net
>
>Dave
>
>
==================================================================

Hello Dave,

I would be concerned about the location of the antenna.
We all know how well NASA's  works. hi
I believe several on the ssig are pilots that could help.
Personally I'd mount a full 1/4 wave outside possibly (down) on the wing
structure
with a swivel mount,  keeping it at least 2 feet away from any reflective
material.

Gud Luk

73      Roger

n8chb@tir.com
```

---

441. APRS LOGO ?

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 21 Aug 1996 12:55:28 -0400
To: aprssig@tapr.org
Message-ID: <321B3F80.40B4@global2000.net>
Rendered body type: text/plain

```
Hi Everybody

Question:  Is there an APRS logo?

We're having a club meeting about APRS and would like an electronic
image for our meeting announcement in our news letter.

So if one is avalible PLEASE let know how to get it.
```

TNX

John << N2OJY >>

442. Re: [APRSSIG:3924] APRS LOGO ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 21 Aug 1996 14:10:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960821140943.8893F-100000@arctic>
Rendered body type: text/plain

On Wed, 21 Aug 1996, John M Domblewski wrote:

> Question: Is there an APRS logo?

APRSdos REPLY/COMMENT: Yes, a globe with black lat/long lines and the big letters APRS and the words Automatic Positions Reporting System, usually in RED

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

443. SUGGESTED APRS HF FREQS...

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Wed, 21 Aug 1996 11:32:19 -0700
To: aprssig@tapr.org
Message-ID: <199608211832.LAA02819@poseidon>
Rendered body type: text/plain

APRS @ ALLUS
Several messages concerning HF freqs for APRS have been seen on the sig here lately, and this info was sent back in March of this year. Last weekedn tried some 20M & 17M tests with KD4EMI, but didn't work out too well.
Thought I would resend this info again for general info.

Here are some suggestions by George/W8FWF and in Readme files, now about two years old.

APRS HF FREQUENCIES OPERATIONS JAN 95

HF FREQS: MFJ/KAM	AEA'S	Mode	NORMAL USAGE
10.151	10.1515	LSB	Mostly East Coast so far (Calif late eves)
7.085	7.0855	Lsb	Mostly West Coast. (Ocassionaly now)
14.0963	14.0958	USB	Proposed new APRS DX Freq.

HERE ARE SOME OF THE APRS FREQUENCIES NOW IN USE ON THE LOW BANDS....
THE ENTRIES WITH (P) ARE NEWLY PRO0POSED FREQUENCIES STILL BEING TESTED..(By who?) Note the 14.0963 keeps APRS away from the 14.100 Intl BEACON freq.

ACTUAL XMIT FREQ.	MFJ/KAM DIAL (1700HZ TONE)	AEA DIAL (2210HZ TONE)
3583.3 KHZ (P)	3,585 KHZ (LSB)	3585.51 KHZ (LSB)
7083.3 KHZ	7,085 KHZ (LSB)	7085.51 KHZ (LSB)
10,149.3 KHZ	10,151 KHZ (LSB)	10,151.51 KHZ (LSB)
14,098 KHZ	14,096.3 KHZ (USB)	14,095.79 KHZ (USB)
18,098 KHZ (P)	18,096.3 KHZ (USB)	18,095.79 KHZ (USB)
21,098 KHZ (P)	21,006.3 KHZ (USB)	21,095.79 KHZ (USB)
24,928 KHZ (P)	24,926.3 KHZ (USB)	24,925.79 KHZ (USB)
28,098 KHZ (P)	28,096.3 KHZ (USB)	28,095.79 KHZ (USB)

(Note: the 24Meg freq may be in error, someone correct me if so)

==

The low bands will provide more activity and longer distances to the other station. While a VHF TNC works at 1200 bauds, on the Low Bands, you will need a TNC that will operate at a 300 baud rate. Several are available. Ideally, you should opt for a TNC that will allow for simultaneous operation (GATEWAY) on the low ands and also the VHF band. This allows you to link (GATE) the HF data from the HF band, down to the VHF side. To see the newmerous HF out of state APRS stations on your local VHF network band. (VHF 145.79/14501 & few others.)
Please read the HF.TXT file in the programs README.DIR. This will enlighten many on the HF to VHF only use of GATEWAY stations and GATE paths.
QSO among yourselves on testing the SUGGESTED frequencies, let the rest of us know. Am willing to help, need date,time (GMT) and freq and will give it a go OM..
73's & Enjoy, Bill/WB6LPG SanFran Bay Area 30M reliable GATEWAY station, on daily.. See Feb issue P45 of Cruising World for APRS for Yachting Hams. Off mexico more S/V appearing, QSO and encourage the Yachting World about APRS.

```
   Again let me know when/where and I'll run some tests with youall.


NNNN


WBB/WB6LPG
```

---

444. Re: [APRSSIG:3924] APRS LOGO ?

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 21 Aug 1996 14:09:39 -0500
To: <aprssig@tapr.org>
Message-ID: <199608211909.OAA08636@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>
> Question:  Is there an APRS logo?
>
> We're having a club meeting about APRS and would like an electronic
> image for our meeting announcement in our news letter.
>
> So if one is avalible PLEASE let know how to get it.
>
> TNX
>
> John  << N2OJY >>

I have a question. Is it Automatic Packet Reporting System or Automatic
Position Reporting System?
```

---

445. Re: [APRSSIG:3925] Re: APRS LOGO ?

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 21 Aug 1996 15:10:48 -0400
To: aprssig@tapr.org
Message-ID: <321B5F38.4A33@global2000.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Wed, 21 Aug 1996, John M Domblewski wrote:
>
> > Question:  Is there an APRS logo?
>
> APRSdos REPLY/COMMENT:  Yes, a globe with black lat/long lines and the big
> letters APRS and the words Automatic Positions Reporting System, usually
> in RED
>
> Reply mail addr:  wb4apr@amsat.org
> javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html


Hi Bob

Is there an electronic copy of this available to me?

TNX & 73
John << N2OJY >>
```

---

446. Re: [APRSSIG:3923] Re: WB0WNX-7 Airmobile (Again)

From: Dave Kaplan <dkaplan@pionet.net>
Date: Wed, 21 Aug 1996 15:17:00 -0500
To: aprssig@tapr.org
Message-ID: <9608212017.AA03239@ELWOOD.pionet.net>
Rendered body type: text/plain

```
>Hello Dave,
>
>I would be concerned about the location of the antenna.
>We all know how well NASA's  works. hi
>I believe several on the ssig are pilots that could help.
>Personally I'd mount a full 1/4 wave outside possibly (down) on the wing
>structure
>with a swivel mount,  keeping it at least 2 feet away from any reflective
>material.
>
No can do--This is a corporate bird that is high dollar and pressurized.  To
install an external antenna runs in the thousands of dollars, not only for
```

installation but also FAA approval Form 337. I do get over 70 mile coverage on my hand held at 1/2 watt so I think at 10 watts I'll do OK. Thanks for the suggestion.

Dave

---

447. Re: QST article (GPS)

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Wed, 21 Aug 1996 16:48:38 EDT
To: aprssig@tapr.org
Message-ID: <19960821.144441.5375.3.aa7ya@juno.com>
Rendered body type: text/plain

```
I recieved this message personally, and since there might
be a few "newbie's" on thje SIG, maybe the followin could
be of interest....
---

On Tue, 20 Aug 1996 01:27:11 -0400 DDOBBINS@aol.com writes:

>Stacey, I can help you with info on GPS.
>
>Alot of us have the Garmin 45, and good news: the price is still
>coming down.  Most major boating supply stores are selling them
>for $250 new. I rarely see used ones for sale. There are also other
>brands, incl Magellan 3000, for about same money.
>
>You will also need a val# from Bob for GPS/APRS with laptop in car.
>Otherwise you would need a newer version KPC-3, AEA PK-99, or
>PacComm TNC that includes GPS firmware, in order to run what's called
>stand-alone mode. No validation number is required for that one.

---

73,
Stacey - aa7ya@juno.com
```

---

448. Re: [APRSSIG:3878] QST article (GPS)

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Wed, 21 Aug 1996 16:48:38 EDT
To: aprssig@tapr.org
Message-ID: <19960821.144441.5375.1.aa7ya@juno.com>
Rendered body type: text/plain

```
On Mon, 19 Aug 1996 15:37:49 -0700 (MST) assib@IMAP1.ASU.EDU writes:

> Hi,
> Tapr now offers a Garmin-20 GPS as a group offer.

I guess this means I have to be a "member" of
TAPR, as I surmise there are thousands of
HAMS on this SIG, or am I too high on this
figure?  I see "group offer" alot, so that is what
I am guessing.

>Try to check out their site for more information ->
>http://www.tapr.org .

All the more reason to try and get my local phone
company off their thumbs and become an ISP.  :-)

>I bought one of their GPS's and for beginners like us they are fine.
>bye, Assi
>

>> -----
>> 73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
>> Infobahn Off-ramp:  aa7ya@juno.com
>> RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
>> [44.82.31.2]
>>
>>
>
```

---

449. Re: QST article (GPS)

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Wed, 21 Aug 1996 16:48:38 EDT
To: aprssig@tapr.org

Cc: stan.horzepa@corp.gdc.com
Message-ID: <19960821.144441.5375.2.aa7ya@juno.com>
Rendered body type: text/plain

```
On Mon, 19 Aug 1996 18:57:15 -0500 (CDT) Clifford Buttschardt
<cbuttsch@slonet.org> writes:

>Problem is that the QST article is so shallow that even after reading
>it, there is little to help one get started!  Cliff K7RR

Maybe, since Stan Horzepa is on the SIG, he might use that
as a future article in QST, giving a rundown on the GPS
recievers that would be best suited for a beginner, and yet
be sufficient enough for APRS.  I use a KAM PLUS, with
a GPS reciever input on the back, so I am one step
closer to my ultimate APRS station.  :-)

Maybe with enough "newbie's" like myself, we may benefit
from those that have furthered APRS along the way....

> On Mon, 19 Aug 1996, Stacey T Hanrahan wrote:

[SNIP...]

>> -----
>> 73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
>> Infobahn Off-ramp:  aa7ya@juno.com
>> RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
>> [44.82.31.2]
```

---

450. Re: [APRSSIG:3924] APRS LOGO ?

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 21 Aug 1996 16:36:06 -0400
To: William Nolle <wa8inz@cris.com>
Cc: aprssig@tapr.org
Message-ID: <321B7336.2A3E@global2000.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> John M Domblewski wrote:
> >
> > Hi Everybody
> >
> > Question:  Is there an APRS logo?
> >
> > We're having a club meeting about APRS and would like an electronic
> > image for our meeting announcement in our news letter.
> >
> > So if one is avalible PLEASE let know how to get it.
> >
> > TNX
> >
> > John  << N2OJY >>
>
> Hi John, if you still need a APRS logo i have one i can post on Tapr. I
> don't think ther is a blessed logo available for APRS. I have one i made
> and i use, it's black and white, i don't think your newsletter is in clor
> anyway is it.
>
> --
>           \////
>           (o o)
>     *--o00-(_)-00o--*
>        Bill WA8INZ
>      wa8inz@cris.com
>     wa8inz@amsat.org


Hi Bill

YES! That would be great let me know when I can download it or better
yet why don't you send it as an attachment via e-mail.


TNX

John << N2OJY >>
```

451. Re: [APRSSIG:3927] Re: APRS LOGO ?

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 21 Aug 1996 17:46:06 -0700
To: aprssig@tapr.org
Message-ID: <321BADCE.610B@concentric.net>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
> >
> > Question:  Is there an APRS logo?
> >
> > We're having a club meeting about APRS and would like an electronic
> > image for our meeting announcement in our news letter.
> >
> > So if one is avalible PLEASE let know how to get it.
> >
> > TNX
> >
> > John  << N2OJY >>
>
> I have a question. Is it Automatic Packet Reporting System or Automatic
> Position Reporting System?

It's Automatic Position Reporting System (APRS).

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

452. Re: [APRSSIG:3924] APRS LOGO ?

From: William Nolle <wa8inz@cris.com>
Date: Wed, 21 Aug 1996 16:49:04 -0700
To: John M Domblewski <wendysue@global2000.net>
Cc: aprssig@tapr.org
Message-ID: <321BA070.985@cris.com>
Rendered body type: text/plain

```
John M Domblewski wrote:
>
> William Nolle wrote:
> Hi Bill
>
> YES! That would be great let me know when I can download it or better
> yet why don't you send it as an attachment via e-mail.
>
> TNX
>
> John << N2OJY >>

Ok will do John, it's a PCX file i hope that will work of if not let me
know and i can send you other formats.

--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

[Attachment: LOGO.PCX; application/octet-stream; 29,638 bytes]

---

453. Re: [APRSSIG:3927] Re: APRS LOGO ?

From: William Nolle <wa8inz@cris.com>
Date: Wed, 21 Aug 1996 16:53:02 -0700
To: aprssig@tapr.org
Message-ID: <321BA15E.3B68@cris.com>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:
>
> >
> > Question: Is there an APRS logo?
> >
> > We're having a club meeting about APRS and would like an electronic
> > image for our meeting announcement in our news letter.
> >
> > So if one is avalible PLEASE let know how to get it.
> >
> > TNX
> >
> > John << N2OJY >>
>
> I have a question. Is it Automatic Packet Reporting System or Automatic
> Position Reporting System?

Well i have heard Bob mention both at one time or another. I did my Web Page
with the Position reporting (Like the sound of that better hi).

```
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

---

454. Re: [APRSSIG:3927] Re: APRS LOGO ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 21 Aug 1996 18:14:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960821180334.27996A-100000@arctic>
Rendered body type: text/plain

On Wed, 21 Aug 1996, J. Scott Ratchford, KC5JGV wrote:
>
> I have a question. Is it Automatic Packet Reporting System or Automatic
> Position Reporting System?

APRSdos REPLY/COMMENT: Actually both. But I switched over from PACKET to
POSITION about 2 years ago, and made the change in most of my docs, but
forgot the LOGO screen until very recently! Argh... THese days I prefer
Automatic POSITION Reporting System but my trademark application requests
both... hi hi

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

455. SIZE

From: warakois@world.std.com (James A Warakois)
Date: Wed, 21 Aug 1996 20:51:28 -0400
To: aprssig@tapr.org
Message-ID: <199608220051.AA29438@world.std.com>
Rendered body type: text/plain

Oh my gosh !
what does it mean that kd4emi must order only size L, XL, XXL and (forbid)
XXXL T shirts..rather than watching the maps we should all be taking a 20
minute walk... (ME TOO)...

Looking forward to the APRS Design..at some site

Jim

```
Jim Warakois                                          Map Maker
W1KRU                                                 DF'er
```

warakois@world.std.com
W1KRU@KA1TUZ.EMA.MA.NA

---

456. APRS Logo..

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 21 Aug 96 21:10:36 EDT
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.4.840676236.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

There IS a WinAPRS/MacAPRS 'logo' it is the red and blue map of the USA,
with some dots below it..

This logo is the ICON of both versions of the program. It is also all over
our web-pages and doucmentation..

Keith

```
Keith Sproul                           Ham Radio: WU2Z
Student Housing Network Coordinator    ksproul@noc.rutgers.edu
Rutgers University Computing Services  908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/    908 821-4828 Home
```

---

457. Re: [APRSSIG:3924] APRS LOGO ?

From: Daniel Velez <dvelez@infi.net>
Date: Wed, 21 Aug 1996 15:59:30 -0400
To: aprssig@tapr.org
Message-ID: <321B6AA2.4A0B@infi.net>
Rendered body type: text/plain

John M Domblewski wrote:

> Hi Everybody
>
> Question: Is there an APRS logo?
>
> We're having a club meeting about APRS and would like an electronic
> image for our meeting announcement in our news letter.
>
> So if one is avalible PLEASE let know how to get it.
>
> TNX
>
> John << N2OJY >>

Does that logo exists in pcx or some other standard format???
--
Dan

```
     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

458. THE SHIRT DESIGN IS DONE

From: KD4EMI@aol.com
Date: Wed, 21 Aug 1996 22:19:42 -0400
To: aprssig@tapr.org
Cc: APRS-FL@tapr.org
Message-ID: <960821221942_265620028@emout14.mail.aol.com>
Rendered body type: text/plain

The shirt design was changed slightly and will be finished on a week.
Then Final approval... (PACKET to POSITION)

Cost $20.00 for white with a pocket and collar. Single color logo.
This might vary by $1 or 2 bucks...depends on what I sell.

My first order will be 24 shirts.

They should be available within 2 weeks total. Enough time for the hamfest.
Thanks for the suggestions from everyone.
MIke
KD4eMI

---

459. How to get a shirt

From: KD4EMI@aol.com
Date: Wed, 21 Aug 1996 23:12:16 -0400
To: APRSSIG@tapr.org

Cc: APRS-FL@tapr.org
Message-ID: <960821231215_265667896@emout08.mail.aol.com>
Rendered body type: text/plain

```
Again, this is not for profit, just doing this to have fun..
The shirts will be available within a couple of weeks
Do you want one soon...?

The more orders I get now, will help me titrate how many to get.
If I get alot of orders I can buy more for hamfest etc etc...

So, to make it easy for our out of state (and IN-STATE) collegues

If you want a shirt, Send $21.00 to   (no tax , if you want more, send
appropriate amount)

Mike Kantor   KD4EMI
741 Lyons Road # 17204
Coconut Creek, FL 33063

You will recieve the shirt within 2 weeks tops..

Again it's polo with collar and pocket...White shirt.

Upper right breast is logo and above it
APRS
then the logo
Then
below it
AUTOMATED POSITION REPORTING SYSTEM
"We know where to find you"

The logo is a globe with sats around it.
Nothing on back.

The first order is for 24 shirts...Dont send cash...Pls send check.
Again, though I find it kinda distastefull to do this on the sig,
it's strictly for the comraderie that Im doing this, not to make a buck.
(I'll break even with 30 shirts)

Mike KD4EMI@AOL.COM
```

---

460. Re: [APRSSIG:3925] Re: APRS LOGO ?

From: mbary@nmaa.org (Mark L. Bary)
Date: Wed, 21 Aug 1996 23:19:38 -0700
To: aprssig@tapr.org
Message-ID: <321BFBFA.275F@nmaa.org>
Rendered body type: text/plain

```
Bob Bruninga wrote:

Some verbage deleted....

> APRSdos REPLY/COMMENT:  Yes, a globe with black lat/long lines and the
> big letters APRS and the words Automatic Positions Reporting System,
> usually in RED

Bob,

I have always thought you called it Automatic Packet Reporting System.
Have I been spacing out these last few years, or has there been a
change in terminology?  Just want to get myself on the same sheet of
music so to speak....

Thanks.  I'll go double check my docs files too, but since the reader
was fired up thought I'd drop a note as well.

73
Mark
N4EOC
Germantown, MD
 39 09.98N
077 15.70W

P.S.

Recently picked up a Garmin 45XL. Would you please send me a note
off-SIG and let me know what you have available still in the way of
the MIM's, GPS-20 kits, etc.?  If possible, I'd like to bring a
self-contained tracker to the next MC Marathon.
```

461. Re: [APRSSIG:3935] Re: APRS LOGO ?

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 21 Aug 1996 23:45:56 -0700
To: aprssig@tapr.org
Message-ID: <321C0224.6C63@concentric.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> John M Domblewski wrote:
> >
> > William Nolle wrote:
> > Hi Bill
> >
> > YES! That would be great let me know when I can download it or better
> > yet why don't you send it as an attachment via e-mail.
> >
> > TNX
> >
> > John << N2OJY >>
>
> Ok will do John, it's a PCX file i hope that will work of if not let me
> know and i can send you other formats.

Bill,

Can you send it to me too.

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

462. Re: [APRSSIG:3942] How to get a shirt

From: John M Domblewski <wendysue@global2000.net>
Date: Thu, 22 Aug 1996 00:09:29 -0400
To: aprssig@tapr.org
Message-ID: <321BDD79.5E64@global2000.net>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> Again, this is not for profit, just doing this to have fun..
> The shirts will be available within a couple of weeks
> Do you want one soon...?
>
> The more orders I get now, will help me titrate how many to get.
> If I get alot of orders I can buy more for hamfest etc etc...
>
> So, to make it easy for our out of state (and IN-STATE) collegues
>
> If you want a shirt, Send $21.00 to   (no tax , if you want more, send
> appropriate amount)
>
> Mike Kantor   KD4EMI
> 741 Lyons Road # 17204
> Coconut Creek, FL 33063
>
> You will recieve the shirt within 2 weeks tops..
>
> Again it's polo with collar and pocket...White shirt.
>
> Upper right breast is logo and above it
> APRS
> then the logo
> Then
> below it
> AUTOMATED POSITION REPORTING SYSTEM
> "We know where to find you"
>
> The logo is a globe with sats around it.
> Nothing on back.
>
> The first order is for 24 shirts...Dont send cash...Pls send check.
> Again, though I find it kinda distastefull to do this on the sig,
> it's strictly for the comraderie that Im doing this, not to make a buck.
> (I'll break even with 30 shirts)
>
> Mike KD4EMI@AOL.COM


Hi mike

Is the logo embroidered or silk screened or what??

TNX & 73

John << N2OJY >>
```

---

463. Re: [APRSSIG:3944] Re: APRS LOGO ?

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 22 Aug 1996 01:45:59 -0600
To: aprssig@tapr.org
Message-ID: <1371444137-4277891@email.firecraker.com>
Rendered body type: text/plain

```
>William Nolle wrote:
>> > YES! That would be great let me know when I can download it or better
>> > yet why don't you send it as an attachment via e-mail.
>> > TNX
>> > John << N2OJY >>
>>
>> Ok will do John, it's a PCX file i hope that will work of if not let me
>> know and i can send you other formats.
>
>Bill,
>
>Can you send it to me too.
>
>Thanks!
>
>73 De Joe N2OOC (new address & phone effective 8/15)

Oh nooooooo I can see it now, a list of the infamous Usenet "ME TOO" message.
        < GRIN >

   If you want one, send the guy direct e-mail like I'm going to have to.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

464. Re: [APRSSIG:3945] Re: How to get a shirt

From: KD4EMI@aol.com
Date: Thu, 22 Aug 1996 07:23:28 -0400
To: aprssig@tapr.org
Message-ID: <960822072326_507342694@emout09.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-08-22 01:01:00 EDT, you write:

>Hi mike
>
>Is the logo embroidered or silk screened or what??
>
>TNX & 73
>
>John << N2OJY >>

Silk Screened
```

---

465. Re: [APRSSIG:3939] APRS Logo..

From: jaym1@soho.ios.com (Jay Millard)
Date: Thu, 22 Aug 1996 08:08:37 -0400
To: aprssig@tapr.org
Message-ID: <v01510100ae41fdc94b01@[206.20.7.28]>
Rendered body type: text/plain

```
Our esteemed MacAPRS guru Keith wrote:

>There IS a WinAPRS/MacAPRS 'logo'  it is the red and blue map of the USA,
>with some dots below it..
>
>This logo is the ICON of both versions of the program.  It is also all over
>our web-pages and doucmentation..

As a registered MacAPRS user, I would like to have a shirt with THIS logo
on it.... anyone else?  Mike, is it possible?

73 de Jay

Jay Millard
*Amateur Radio Station KD1LY*
Darien, CT  06820
```

---

466. GPS antenna placement

From: Daniel Velez <dvelez@infi.net>
Date: Thu, 22 Aug 1996 08:23:04 -0400
To: aprssig@tapr.org
Message-ID: <321C5128.554C@infi.net>
Rendered body type: text/plain

```
Has anyone noted any negative effects while mounting a GPS antenna near
a transmitting antenna?  I'm using the Motorla Oncore and need to
relocate this antenna...considering the base of the small mast holding
the UHF/VHF dual bander.  Is a 45W VHF/35W UHF signal (one foot away)
harmful to the GPS active antenna or receiver?

--
Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

467. Re: [APRSSIG:3923] Re: WB0WNX-7 Airmobile (Again)

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 22 Aug 1996 07:48:19 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608221248.HAA15908@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Roger Breckon sez:
>
> On Tue, 20 Aug 1996 21:52:47 -0500 (CDT) Dave Kaplan <dkaplan@pionet.net>
> writes:
>
> >Setup is a Motorola PVT-6 to KPC-3 to Allinco DR1200 running 10 watts
> >rubber duck suction cupped to the copilot side window.  Altitude
>
> I would be concerned about the location of the antenna.
> We all know how well NASA's  works. hi

Pardon me while I take minor umbrage at this one (:-).

All things considered, the window antenna on SAREX works pretty well.  And,
having spent YEARS trying to help get something on the outside of the vehicle,
I don't foresee THAT getting much better in the future.  The antenna SAREX
uses approximates a 1/4 wave whip in pattern and gain.  The gotcha is that
this "whip" is virtually mounted on the side of the vehicle and not where a
clear view of earth is.  Of course, when you remember that the shuttle's
attitude is potentially _anything_ then location of the antenna at a fixed
point becomes problemattic.

> I believe several on the ssig are pilots that could help.

Dave's plan is a great start.  Having used a variety of handhelds from within
aircraft before, a taped-up antenna has real benefits.  I think it'll work
fine.

> Personally I'd mount a full 1/4 wave outside possibly (down) on the wing
```

> structure
> with a swivel mount, keeping it at least 2 feet away from any reflective
> material.

1. Too much work.
2. Too much PAPERWORK (FAA-337)

If I ever own my own plane, I intend to add 3 NMO mounts on the fuselage centerline. I can cap 'em when I don't ned them and use 'em when I do. One will have 2 meters on it full-time. One will have a UHF 1/4 wave. One will be "TBD" and changed as the mission dictates. Turns out that, worrying about shape, reflections from the aircraft, etc. are really not worth it for these applications.

73, gerry n5jxs
n5jxs@tamu.edu
PP-SEL-IA

---

468. RE: [APRSSIG:3949] GPS antenna placement

From: Peter Gross <w7lus@cyberhighway.net>
Date: Thu, 22 Aug 1996 09:05:04 -0400
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BB9009.7955EB80@ts1-22.dem.cyberhighway.net>
Rendered body type: text/plain

I had my GPS antenna located within abt 8 inches from the steel whip of my multi-band mobile antenna with no adverse effects noted. However, I was hearing at abt an s-2 signal level the gps output which transmits every 2 seconds. I did eventually move the gps antenna to reduce the rcvd signal. It has been moved abt 8 feet away and can still be heard slightly but with no s-meter indication.

73 - Peter W7LUS

From: Daniel Velez[SMTP:dvelez@infi.net]
Sent: Thursday, August 22, 1996 3:38 AM
To: aprssig@tapr.org
Subject: [APRSSIG:3949] GPS antenna placement

Has anyone noted any negative effects while mounting a GPS antenna near a transmitting antenna? I'm using the Motorla Oncore and need to relocate this antenna...considering the base of the small mast holding the UHF/VHF dual bander. Is a 45W VHF/35W UHF signal (one foot away) harmful to the GPS active antenna or receiver?

--
Dan

```
     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

469. Re: [APRSSIG:3949] GPS antenna placement

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Thu, 22 Aug 1996 08:13:15 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608221313.IAA16188@solar.cs.tamu.edu>
Rendered body type: text/plain

There are certain frequencies that are potential problems for L1 within both VHF and UHF spectrum. Drag out your calculator and see what you can come up with (hint: Figure 1542.72 as a center frequency for L1).

The power levels are high enough that you might see some interaction with the preamp in the PVT-6 antenna, if it's amplified. If you're using an OnCOre with the preamp at the receiver (passive antenna option) I saw no problems with the radio and GPS co-moounted within the Cow Box, and the antennas seperated by 6 inches (although I was only running 2 watts on the Cows...)

Gerry
n5jxs@tamu.edu

---

470. FW: [APRSSIG:3949] GPS antenna placement

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 22 Aug 1996 10:04:40 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB9011.56BB9B80@gwyn.paccomm.com>
Rendered body type: text/plain

From: Daniel Velez[SMTP:dvelez@infi.net]
Sent: Thursday, August 22, 1996 3:33 AM
To: aprssig@tapr.org
Subject: [APRSSIG:3949] GPS antenna placement

Has anyone noted any negative effects while mounting a GPS antenna near a transmitting antenna? I'm using the Motorla Oncore and need to relocate this antenna...considering the base of the small mast holding the UHF/VHF dual bander. Is a 45W VHF/35W UHF signal (one foot away) harmful to the GPS active antenna or receiver?

I have seen several GPS antennas with the preamp burned out from RF from a nearby transmitting antenna. Many modern antennas have filters to protect against this possibility. I'd read my antenna specs closely before keying the transmitter....

471. Re: [APRSSIG:3950] Re: WB0WNX-7 Airmobile (Again)

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 22 Aug 1996 10:50:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199608221551.KAA24040@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> If I ever own my own plane, I intend to add 3 NMO mounts on the fuselage
> centerline. I can cap 'em when I don't ned them and use 'em when I do.
One
> will have 2 meters on it full-time. One will have a UHF 1/4 wave. One
will
> be "TBD" and changed as the mission dictates. Turns out that, worrying
about
> shape, reflections from the aircraft, etc. are really not worth it for
these
> applications.
>
> 73, gerry n5jxs
> n5jxs@tamu.edu
> PP-SEL-IA

I've just recently started building a Cozy Mark IV. For those of you who are not familiar, it is a 4 place (passenger), rear mounted engine, canard (little wing in the front) airplane. This one is all composite. The nice thing here is that I can do just about anything I want in "avionics" as I build the aircraft. The recomended antenna placement for the aeroplane is a 1/4 wave strip of copper foil built into the nose! This is placed in between the laminates of fiberglass and completely hidden. So, you can bet you bottom dollar there will be some Ham antenna built in various places of the plane! I fully intend on have a permenant installment of APRS gear as well as ATV. (I'd rather talk to hams than the FAA anyday) Anyhoo, I figure that 2 watts is all one would need. I've forgotten my formulas for signal distance to HAAT. Oh well, good luck witht he ARPS airmobile!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

472. Re: [APRSSIG:3954] Re: WB0WNX-7 Airmobile (Again)

From: "Michael Petz" <mpetz@ccm.stlcc.cc.mo.us>
Date: Thu, 22 Aug 1996 13:36:58 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960822133756.4ab7d470@ccm.stlcc.cc.mo.us>
Rendered body type: text/plain

The rough calculation for line of sight to the horizon is:
distance (in miles) = 2 * square root of the height (in feet)
 or
distance (in miles) = square root (1.414 * height (in feet))
You can see the greatest change happens when you go from 0 to a few (hundred) feet. After that the distance doesn't change that much. A example would be when you are on a 1500 foot tower, the line of sight at the 1000 foot mark is ~42 miles, and at 1500 it is ~54 miles. The extra 500 feet only gets you an addition 10 miles.

73's
Michael

```
KA9HNT

At 11:00 AM 8/22/96 -0500, you wrote:
>> If I ever own my own plane, I intend to add 3 NMO mounts on the fuselage
>> centerline.  I can cap 'em when I don't ned them and use 'em when I do.
>One
>> will have 2 meters on it full-time.  One will have a UHF 1/4 wave.  One
>will
>> be "TBD" and changed as the mission dictates.  Turns out that, worrying
>about
>> shape, reflections from the aircraft, etc. are really not worth it for
>these
>> applications.
>>
>> 73, gerry n5jxs
>> n5jxs@tamu.edu
>> PP-SEL-IA
>
>I've just recently started building a Cozy Mark IV. For those of you who
>are not familiar, it is a 4 place (passenger), rear mounted engine, canard
>(little wing in the front) airplane. This one is all composite. The nice
>thing here is that I can do just about anything I want in "avionics" as I
>build the aircraft. The recomended antenna placement for the aeroplane is
>a 1/4 wave strip of copper foil built into the nose! This is placed in
>between the laminates of fiberglass and completely hidden. So, you can bet
>you bottom dollar there will be some Ham antenna built in various places
>of the plane! I fully intend on have a permenant installment of APRS gear
>as well as ATV. (I'd rather talk to hams than the FAA anyday) Anyhoo, I
>figure that 2 watts is all one would need. I've forgotten my formulas for
>signal distance to HAAT. Oh well, good luck witht he ARPS airmobile!
>
>
>--
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>*  North Arkansas Amateur Radio Society, Inc.
>*  Marshall Volunteer Fire Dept./EMS First Responder
>*  Calf Creek Lodge #426
>*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
>
>
```

---

473. Re: [APRSSIG:3953] FW: GPS antenna placement

From: Barbara Fehner <fehner@cts.com>
Date: Thu, 22 Aug 1996 11:47:04 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960822184704.006b78c8@mail.cts.com>
Rendered body type: text/plain

```
Gwyn,

What are the specs for the Trimble antenna that you sell?

Barbara KK6IB
E-Mail: fehner@cts.com

________________________________________________________________________________
At 09:23 AM 8/22/96 -0500, you wrote:
>----------
>From:  Daniel Velez[SMTP:dvelez@infi.net]
>Sent:  Thursday, August 22, 1996 3:33 AM
>To:    aprssig@tapr.org
>Subject:       [APRSSIG:3949] GPS antenna placement
>
>Has anyone noted any negative effects while mounting a GPS antenna near
>a transmitting antenna?  I'm using the Motorla Oncore and need to
>relocate this antenna...considering the base of the small mast holding
>the UHF/VHF dual bander.  Is a 45W VHF/35W UHF signal (one foot away)
>harmful to the GPS active antenna or receiver?
>
>I have seen several GPS antennas with the preamp burned out from RF from a
>nearby transmitting antenna. Many modern antennas have filters to protect
>against this possibility. I'd read my antenna specs closely before keying
>the transmitter....
>
```

---

474. Re: sighting to horizon

From: Doug Rorem <rorem@cherokee.eecs.uic.edu>
Date: Thu, 22 Aug 1996 14:53:06 -0500

To: aprssig@tapr.org
Message-ID: <rorem-9607221953.AA00021095@cherokee.eecs.uic.edu>
Rendered body type: text/plain

Michael,

I think you have the 2 and the 1.414 reversed in the equations below...

```
>> From: "Michael Petz" <mpetz@ccm.stlcc.cc.mo.us>
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:3955] Re: WB0WNX-7 Airmobile (Again)
>> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
>> X-Comment: Tucson Amateur Packet Radio  APRS Special Interest Group
>> Content-Type: text/plain; charset="us-ascii"
>> X-Mailer: Windows Eudora Pro Version 2.2 (16)
>>
>> The rough calculation for line of sight to the horizon is:
>> distance (in miles) = 2 * square root of the height (in feet)
                        1.414
>>  or
>> distance (in miles) = square root (1.414 * height (in feet))
                                       2
>> You can see the greatest change happens when you go from 0 to a few
>> (hundred) feet.  After that the distance doesn't change that much.  A
>> example would be when you are on a 1500 foot tower, the line of sight at the
>> 1000 foot mark is ~42 miles, and at 1500 it is ~54 miles. The extra 500 feet
>> only gets you an addition 10 miles.
>>
>> 73's
>> Michael
>> KA9HNT
--
Doug Rorem
University of Illinois at Chicago         (312)-996-5439  [voice]
EECS Department  RM 1120                  (312)-413-1065  [fax]
851 S. Morgan Street                      (708)-996-2226  [pager]
Chicago, IL 60607-7053                    rorem@uic.edu
```

---

475. Mic Encoder/MIM chip

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Thu, 22 Aug 1996 13:32:28 -0700
To: aprssig@tapr.org
Message-ID: <199608222032.NAA14955@poseidon>
Rendered body type: text/plain

Respondents.... to my query

Want to thank those who responded to my inquiry on uses of the Mic Encoder & Mim chip.

Dr. Sam/K3BY in Maryland using his for trackin while on his Walk America event, and am sure other such events.

Bob/WB4APR, using his and working fine, didn't say in what capacity, but still has few of the prototype kits available, ck him out for these and ideal small package for the experimentor.

Gywn/W1BEL, replied with info on his higher priorities, but will be giving us info later, thanks Gywn, keep me informed when available.

And Ted/KJ6ZJ, gave me info on STAMPS, small controller modules, two forms of "SIP's" and "DIP's" (wonder if he ment Chips & Dips) but for those interested on recent STAMP comments on the sig, you can look up the source "http://www.parallaxinc.com/stamp/index.htm" for further information.

Am sure there are more in use out in APRS land, how about our BALLOON chasers, and others , what, where, how and why, have you done with your Mic Encoders and MIM chips. Let the curious know,

****

NORCAL APRS UPDATE......

APRS going strong here in the San Francisco Bay area and Northern Calif. Have 20 some dedicated Hi/Low level Digipeters, lots of Mobile GPS tracking vehicles, aircraft, and we followed the SSS- Singlehanded Sailing Society, race from San Francisco to Hawaii first part of July, will be forwarding a HST disk to APR/Bob for inclusion on future APRS versions. Friend DDobbins/WH6YC, used to be copied on HF/10151/LSB from Hawaii, is now up in Seattle area and keep us informed on APRS activity in the great PNW (Pacific North West) Daily activity from San Diego and Southern Calif., copied on 30M, with several GPS trackers in that area.

Coming up in latter part of October, hope to track Rick/KN6KB on S/V Second Wind, from San FRancisco to San Diego, thence on the BAJA HA HA Sailboat race to Cabo San Lucas, over 100 S/V already signed up. Thence

Rick will go on down the Central America coast to Panama, and up through the Carrebeian to Florida during the winter months, so hopefully some HF GPS tracking of his travels.

Dave/WH6YC PACNWEST monthly Bulletin, a great idea for all areas , let us all know whats happening APRS wise, in different areas of the country and overseas.

APRS, TRY IT, YOU'LL LIKE IT.......

Thanks again all..
73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
NNNN

WBB/WB6LPG

476. Re: [APRSSIG:3949] GPS antenna placement

From: rbost@itexas.net (Roy Bost)
Date: Thu, 22 Aug 1996 16:05:15 -0500
To: <aprssig@tapr.org>
Message-ID: <19960822210808408.AAA60@rbost.itexas.net>
Rendered body type: text/plain

I have my Garmin antenna mounted within a foot of my dual band (2m/440), about two feet from a 5/8 wave Larson 2m and about 4-5 feet from a 6m antenna. I have not noticed any problems with my Garmin 45 with this arrangement.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

477. W7LUS

From: Peter Gross <w7lus@cyberhighway.net>
Date: Thu, 22 Aug 1996 17:08:07 -0400
To: "'AprsSig'" <aprssig@tapr.org>
Message-ID: <01BB904C.F875BB00@ts1-25.dem.cyberhighway.net>
Rendered body type: text/plain

I am home until Sunday morning 24 Aug. Then I'll be on the way to Chicago. Don't have any dispatches yet for after unloading the Chicago tradeshow. Unfortunatley my vhf tcvr again has the same symptom as the last time it broke, 1 1/2 watts output. The tech last time said a solder joint broke. I wonder if his repair broke, I'll probably never know!

I am sorry that I don't answer all those that send me Aprs messages shile I am on the road. Please realize that I am on the go and sometimes may not stop for 5 hours. Therefore I am either out of your vhf net or the skip has changed or I just have moved to close or to far. If I have a small free time driving window I might then drive a 600 mile shift, or darn close to it depending upon which area of the USA I am in.

If someone can tell me which is the best 20 meter freq to use I will move to that freq when I get west of Texas. Or if anyone has any other ideas I'de probably give that a shot too!

I have had some wondeful experiences meeting Aprs-ers while on the road. KB0MQQ from the Denver, CO area first met me for breakfast, he only had coffee, then he and his wife picked me up that evening and treated me to supper at one of their favorite resturants. I must it admit the seafood plate was great!

In Chicago N9VHW picked me up and took me to a grocery store after we had our lunch. He surely made my extra time in Chicago pass quickly and enjoyably. I hope he'll get on Aprs "real time" so we can communicate and get to see each other again. I hope my 1 watt will get into their vhf network.

When ever I get to Amarillo, TX I find at least 1 and sometimes more Aprs-ers parked next to me at the truck stops even before I get settled in. I guess they use me as the fox for a fox hunt!

It was quite a surprise to me that I was going through Dayton during the hamfest. It worked out perfect for Sid, AA8JK, to talk me to a parking space a block away from the Aprs eyeball. Then I was swarmed with Aprs-ers whom were willing to taxi me to the eyeball. I am truely grateful I made that meeting. I suppose there were about 50 or more that attended.

W1GTT, someday we will have that eyeball. Perhaps now that school has started maybe we can teach your students some geography while I am truckin' the country.

There are many more that I hae met and many more that I have typed to as well as talked to while in your areas. I thank you all!

If all works out, I will be ordering another truck. I'll probably find another driver for the present one. The new one will have a custom sleeper much like what the interior of an RV is like. It'll be a "super truck" with more room room for more radio equipment. If it comes about I'll have N2CZF take somemore pix and put it on the Aprs-fl home page.

Looking forward to meeting more of you all....

73 - Peter w7lus

---

478. Re: [APRSSIG:3955] Re: WB0WNX-7 Airmobile (Again)

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Thu, 22 Aug 1996 17:56:34 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960822175524.9125B-100000@outland.dtcc.edu>
Rendered body type: text/plain

```
Mike you made a mistake in the formula.  It is

distance = square root of 2 times the height in feet

or

distance = 1.414 times square root of the height in feet

Sam K3BY

On Thu, 22 Aug 1996, Michael Petz wrote:

> The rough calculation for line of sight to the horizon is:
> distance (in miles) = 2 * square root of the height (in feet)
>  or
> distance (in miles) = square root (1.414 * height (in feet))
> You can see the greatest change happens when you go from 0 to a few
> (hundred) feet.  After that the distance doesn't change that much.  A
> example would be when you are on a 1500 foot tower, the line of sight at the
> 1000 foot mark is ~42 miles, and at 1500 it is ~54 miles. The extra 500 feet
> only gets you an addition 10 miles.
>
> 73's
> Michael
> KA9HNT
>
> At 11:00 AM 8/22/96 -0500, you wrote:
> >> If I ever own my own plane, I intend to add 3 NMO mounts on the fuselage
> >> centerline.  I can cap 'em when I don't ned them and use 'em when I do.
> >One
> >> will have 2 meters on it full-time.  One will have a UHF 1/4 wave.  One
> >will
> >> be "TBD" and changed as the mission dictates.  Turns out that, worrying
> >about
> >> shape, reflections from the aircraft, etc. are really not worth it for
> >these
> >> applications.
> >>
> >> 73, gerry n5jxs
> >> n5jxs@tamu.edu
> >> PP-SEL-IA
> >
> >I've just recently started building a Cozy Mark IV. For those of you who
> >are not familiar, it is a 4 place (passenger), rear mounted engine, canard
> >(little wing in the front) airplane. This one is all composite. The nice
> >thing here is that I can do just about anything I want in "avionics" as I
> >build the aircraft. The recomended antenna placement for the aeroplane is
> >a 1/4 wave strip of copper foil built into the nose! This is placed in
> >between the laminates of fiberglass and completely hidden. So, you can bet
> >you bottom dollar there will be some Ham antenna built in various places
> >of the plane! I fully intend on have a permenant installment of APRS gear
> >as well as ATV. (I'd rather talk to hams than the FAA anyday) Anyhoo, I
> >figure that 2 watts is all one would need. I've forgotten my formulas for
> >signal distance to HAAT. Oh well, good luck witht he ARPS airmobile!
> >
> >
> >--
> >J. Scott Ratchford - KC5JGV - Marshall, Arkansas
> >*  North Arkansas Amateur Radio Society, Inc.
> >*  Marshall Volunteer Fire Dept./EMS First Responder
> >*  Calf Creek Lodge #426
> >*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
> >
> >
>
>
```

479. Re: WB0WNX-7 Airmobile (Again)

From: aprs@juno.com (n4neq n4neq)
Date: Thu, 22 Aug 1996 18:08:49 EDT
To: aprssig@tapr.org
Message-ID: <19960823.183337.11238.0.aprs@juno.com>
Rendered body type: text/plain

```
On Thu, 22 Aug 1996 07:56:37 -0500 (CDT) Gerald J Creager
<gerry@cs.tamu.edu> writes:

>If I ever own my own plane, I intend to add 3 NMO mounts on the
>fuselage


I did this on mine, but mounted them on inspection plates, so the holes
could be done away with when I sold the plan. Worked great!
```

---

480. Vacation to the midwest

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Thu, 22 Aug 1996 18:11:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960822180430.9125E-100000@outland.dtcc.edu>
Rendered body type: text/plain

```
Here are my observations a first time with APRS in the car on a trip.
Setup consisted of KPC-3, Garmin 45 and Kenwood 240 (I think) at 45 watts
to a MFJ quarter wave on the roof.  All equipment was run from batteries
including the Kenwood.

Started from Dover, Delaware.  Lots of APRS activity especially from
Maryland around Wash, DC - Baltimore and in Pennasylvania near Philly.
This carried out to near Hagerstown MD then it dried up.  Freq was 145.79
- nothing that I could hear in western maryland and near Pittsburgh.
Nothing in Wheeling WV.  Nothing through most of OH until i got near
Columbus.  About 5-8 calls on my map.  A few calls in Dayton.  Nothing in
Indianapolis.  Activity near St. Louis - my final stop.  Same experience
on the way back.  I am thinking of a 30 or 12 meter HF radio now.  Need
more activity on my lap top (smile).

Sam K3BY - APRS is the neatest thing I have seen in ham radio in a long time.
```

---

481. (no subject)

From: munseyj <munseyj@enterprise.america.com>
Date: Thu, 22 Aug 96 19:29:12 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <m0utjBn-001wDwC@enterprise.america.com>
Rendered body type: text/plain

```
-- [ From: munseyj * EMC.Ver #2.5.02 ] --

subscribe aprs  munseyj@america.com
```

---

482. (no subject)

From: munseyj <munseyj@enterprise.america.com>
Date: Thu, 22 Aug 96 19:29:14 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <m0utjBp-001wECC@enterprise.america.com>
Rendered body type: text/plain

```
-- [ From: munseyj * EMC.Ver #2.5.02 ] --


subscribe aprs
```

---

483. Re: [APRSSIG:3939] APRS Logo..

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 22 Aug 1996 22:45:11 -0400
To: aprssig@tapr.org
Message-ID: <199608230245.WAA20571@grumpy.magg.net>
Rendered body type: text/plain

```
Are we free to use it when writing about your programs ?


>
>There IS a WinAPRS/MacAPRS 'logo'  it is the red and blue map of the USA,
>with some dots below it..
>
```

```
>This logo is the ICON of both versions of the program.  It is also all over
>our web-pages and doucmentation..
>
>Keith
>
>Keith Sproul                            Ham Radio: WU2Z
>Student Housing Network Coordinator      ksproul@noc.rutgers.edu
>Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
>http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

484. RE: APRS Logo

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 23 Aug 96 8:04:02 EDT
To: aprssig@tapr.org
Cc: n2czf@magg.net
Message-ID: <CMM-RU.1.4.840801842.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>Are we free to use it when writing about your programs ?


>>
>>There IS a WinAPRS/MacAPRS 'logo'  it is the red and blue map of the USA,
>>with some dots below it..
>>
>>This logo is the ICON of both versions of the program.  It is also all over
>>our web-pages and documentation..
>>
```

Yes, when writing about MacAPRS/WinAPRS/X-APRS, etc, it if fully allowable to use our APRS Logo..

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

485. Aeronautical Mobile

From: nickart@midtenn.net (Nicholas R. Smith)
Date: Fri, 23 Aug 1996 09:01:45 GMT
To: aprssig@tapr.org
Message-ID: <199608230901.JAA19610@sneezy.midtenn.net>
Rendered body type: text/plain

I have been reading about the station planning a trip using APRS aeronautical mobile. Since the 60's I have been using my 2 meter radio operating aeronautical mobile as well as operating HF when I was a pilot for a major airline (Eastern) before it finally went under. For those interested in this mode of operation I wrote an article for "QST" which they published in the January 1994 issue that tells of some of the great experiences I had while operating a "Hawker" corporate jet and operating packet.

The placement of the antenna inside the aircraft will give best results if it is mounted on the windows, or in some cases I have used the "MFJ" rollup antenna and placed it around the side windows or across the top of the instrument panel around the front wind screen. But of course like many of the respondents indicated, it is best to have an outside antenna and a good way of not having to mount an extra antenna is to have a radio shop or yourself connect a switch to go from a com that you don't use as much as the other, example if you use your #1 com mostly, then connect the transfer switch to the # 2 com and then run a coax with BNC were you normally put your 2 meter radio (I use an HT, 2-5 watts works great) and then you can switch from the #2 com to the HT when operating APRS, or just having some friendly QSO's (and you will get plenty if you call on 146.52).

I have operated on APRS in a Piper Lance, Mitsubishi MU-2, Cessna 340 and a Cessna Citation several times and the results are great at the higher altitudes. It seems that lots of folks are interested in Aeronautical Mobile so if you are in the south you may can see me September 2, 1996

around 12:00 noon departing Crossville, TN(my qth) and going to Melbourne,
FL which should take about 3 hours as I will be in a Cessna 340 which is not
very speedy. The return will be on September 3, around 5 PM and the route
will be direct Crossville, TN. Hope you are able to track me and I will
have my GateWay on at home QTH(HF 10.1515-AEA-145.79 2M). Then on September
13, 1996 I will be Aeronautical Mobile APRS to Peroia, IL to the ARRL
National Convention, but the departure time has not been determined at this
time and will announce that before the date.

Nick
Editor - "Amateur Radio Trader"
Consultant and Chief Pilot - "Trade-A-Plane"

wa4gkm@amsat.org
Nick Smith, WA4GKM

---

486. Re: [APRSSIG:3966] Re: APRS Logo..

From: William Nolle <wa8inz@cris.com>
Date: Fri, 23 Aug 1996 09:43:52 -0700
To: aprssig@tapr.org
Message-ID: <321DDFC8.546E@cris.com>
Rendered body type: text/plain

Richard Garcia wrote:
>
> Are we free to use it when writing about your programs ?
>
> >

Richard N2CZF and the rest of the APRS users, it's great that some of you have
web pages to do with APRS but PLEASE do not use the APRS Bulletin function as a
way to advertize it, specially on HF beaconing to VHF. I don't think that most
of us want to constantly see the little window on top spring up to see that
someone is wanting to tell me they have a web page on the net. A better way is
to put it in your btext (No flame, just asking).
--
Check out my APRS web page

http://www.concentric.net/~wa8inz

```
            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

---

487. Re: WB0WNX-7 Airmobile (Again)

From: n8chb@juno.com (Roger Breckon)
Date: Fri, 23 Aug 1996 15:37:31 PST
To: aprssig@tapr.org
Message-ID: <19960823.153733.6846.1.n8chb@juno.com>
Rendered body type: text/plain

hello,

The quip made about the location of the antenna on space shuttle was out
of line.
No matter where it is we are lucky to have ham equipment on board at all.
As to mounting the antenna outside I can understand, thought you might
be
flying in a lighter plane.

Its good to see all the feed back about antennas though.
Have a good trip and hope the venture is successful.
thanks,

Roger

n8chb

---

488. remote wx stations

From: Kt4ll@aol.com
Date: Fri, 23 Aug 1996 11:46:20 -0400
To: aprssig@tapr.org
Message-ID: <960823114619_392272845@emout15.mail.aol.com>
Rendered body type: text/plain

I need to know from those of you who are running remote wx stations with a U-II and a KPC-3, how u have the tnc set up. We are having a problem here in Polk County, FLorida. Some stations are getting very high wind speed and temp readings, while others are getting normal readings from our remote wx stations. I am not sure if there is a problem in the way we have the tnc's set up or not.

```
gpshead 2 #
lt1 !xxxx.xxn/xxxxx.xxw_Polk Remote Wx Site
blt 1 every 00:05:00
blt 2 every 00:05:00
ltp 1 aprs via wide, wide
ltp 2 aprs via wide, wide
```

The stations that are getting the high values are running davis wx stations attached. I dont see why that would make a difference, but that is the only common denominator that I can find. One of these stations also has the same problem when N6OOA's remote comes through via a gate. Any body else having or heard of this happening?? Please let me know.

73 de kt4ll
Paul...Polk County, FLorida

---

489. airmobile

From: n8chb@juno.com (Roger Breckon)
Date: Fri, 23 Aug 1996 15:59:44 PST
To: aprssig@tapr.org
Message-ID: <19960823.155948.7430.0.n8chb@juno.com>
Rendered body type: text/plain

McDONNELL DOUGLAS
AIRCRAFT-SPACE SYSTEMS-MISSILES REGISTRATION CARD

Important! Important!

Please fill out and mail this card within 10 days of purchase.

Thank you for purchasing a McDonnell Douglas military aircraft. In order to protect your new investment, please take a few moments to fill out the warranty registration card below. Answering the survey questions is not required, but the information will help us to develop new products that best meet your needs and desires.

1. _Mr. _Mrs. _Ms. _Miss _Lt. _Gen. _Comrade _Classified _Other

First Name____________________Initial____Last
Name______________________

Latitude________________________Longitude_______________________________

Altitude________________________Password, Code Name,
Etc.__________________

2. Which model aircraft did you purchase?

F-14 Tomcat _F-15 Eagle _F-16 Falcon _F-19A Stealth _Classified

3. Date of purchase:
Month__________Day__________Year____________

4. Serial Number____________________

5. Please check where this product was purchased:

_Received as Gift/Aid Package
_Catalog Showroom
_Sleazy Arms Broker
_Mail Order
_Discount Store
_Government Surplus
_Classified

6. Please check how you became aware of the McDonnell Douglas product you have just purchased:

_Heard loud noise, looked up
_Store Display
_Espionage

_Recommended by friend/relative/ally
_Political lobbying by Manufacturer
_Was attacked by one

7. Please check the three (3) factors which most influenced your decision to purchase this McDonnell Douglas product:

_Style/Appearance
_Kickback/Bribe
_Recommended by salesperson
_Speed/Maneuverability
_Comfort/Convenience
_McDonnell Douglas Reputation
_Advanced Weapons Systems
_Price/Value
_Back-Room Politics
_Negative experience opposing one in combat

8. Please check the location(s) where this product will be used:

_North America
_Central/South America
_Aircraft Carrier
_Europe
_Middle East
_Africa
_Asia/Far East
_Misc. Third-World Countries
_Classified

9. Please check the products that you currently own, or intend to purchase in the near future:

Product	Own	Intend to purchase
Color TV		
VCR		
ICBM		
Killer Satellite		
CD Player		
Air-to-Air Missiles		
Space Shuttle		
Home Computer		
Nuclear Weapon		

10. How would you describe yourself or your organization? Check all that apply:

_Communist/Socialist
_Terrorist
_Crazed (Islamic)
_Crazed (Other)
_Neutral
_Democratic
_Dictatorship
_Corrupt (Latin American)
_Corrupt (Other)
_Primitive/Tribal

11. How did you pay for your McDonnell Douglas product?

_Cash
_Suitcases of Cocaine
_Oil Revenues
_Deficit Spending
_Personal Check
_Credit Card
_Ransom Money
_Traveler's Check

12. Occupation	You	Your Spouse
Homemaker		
Sales/Marketing		
Revolutionary		
Clerical		
Mercenary		
Tyrant		
Middle Management		
Eccentric Billionaire		

Defense Minister/General
Retired
Student

13. To help us understand our Customers' lifestyles, please indicate the
interests and activities in which you and your spouse enjoy
Participating on a regular basis:

Activity/Interest   You   Your Spouse
Golf
Boating/Sailing
Sabotage
Running/Jogging
Propaganda/Disinformation
Destabilizing/Overthrow
Default on Loans
Gardening
Crafts
Black Market/Smuggling
Collectibles/Collections
Watching Sports on TV
Wines
Interrogation/Torture
Household Pets
Crushing Rebellions
Espionage/Reconnaissance
Fashion Clothing
Border Disputes
Mutually Assured Destruction

Thanks for taking the time to fill out this questionnaire. Your answers will be used in market studies that will help McDonnell Douglas serve you better in the future -- as well as allowing you to receive mailings and special offers from other companies, governments, extremist groups, and mysterious consortia.

Comments or suggestions about our fighter planes? Please write to:

McDONNELL DOUGLAS CORPORATION
Marketing Department
Military Aerospace Division
P.O. Box 800
St. Louis, MO 55500

--------- End forwarded message ----------

490. Re: [APRSSIG:3969] Re: APRS Logo..

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 23 Aug 1996 12:12:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960823120838.25141N-100000@arctic>
Rendered body type: text/plain

On Fri, 23 Aug 1996, William Nolle wrote:

> It's great that some of you have web pages to do with APRS but PLEASE
> do not use the APRS Bulletin function as a way to advertize it...
> A better way is to put it in your btext...

APRSdos REPLY/COMMENT: I agree. That is what the alt-BText and L-LIST is all about. It was designed from the beginning to be everyone's ONE-LINE BULLETIN to EVERYONE... It was not meant to just announce your software version (the default)... Its a great place to put your daily status too.

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

491. U-2000 and the KPC-3

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 23 Aug 1996 13:37:56 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199608231843.NAA11716@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

How do I connect the U-2000 to a KPC-3 digi? Anyone ever combined a remote WX station and digi? I have an APRS dedicated KPC-3 digi 40 miles away on a mountain and want to add the U-2000 to it. Will the symbol be a green star or a blue dot or will it change? How about a special blue star, Bob?

```
73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

492. REGISTER FEE

From: jadde@juno.com
Date: Fri, 23 Aug 1996 15:29:13 EDT
To: APRSSIG@tapr.org
Message-ID: <19960823.152523.8751.0.JADDE@juno.com>
Rendered body type: text/plain

```
HI BOB I WAS  SHORT ON REG.FEE.I AM IN ARREARS OF $10. AND I WAN LATEST
VERSION ON 3.5 INCH HD DISK.PLEASE ACKNOWLEDGE,IF  SO I WILL FORWARD
CHECK FOR $19.AM I CORRECT? JOE KI4VT(JADDE)@JUNO.COM
```

493. Re: [APRSSIG:3975] REGISTER FEE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 23 Aug 1996 18:07:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960823180735.27311B-100000@arctic>
Rendered body type: text/plain

```
Just send it along and ill send the new disk...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

494. AEA DSP 232 TNC

From: Larry Miller <lmiller@ezl.com>
Date: Fri, 23 Aug 1996 20:44:08 -0500
To: aprssig@tapr.org
Message-ID: <321E5E68.3767@ezl.com>
Rendered body type: text/plain

```
A local operator is having trouble setting up APRS with an AEA DSP 232
TNC.  He has read the read files and has not come up with a solution for
his problem.  The problem is that the program is not able to communicate
with the TNC.  The TNC works fine running a terminal program.

When setting up the program the user is asked for the TNC type.  The
DSP 232 is not one of the choices.  What choice should be made when
setting up the program for this TNC?  Any other hints anyone could offer
to help this operator set up APRS?

I will be unsubscribing to the sig late Saturday night as I am going out
of town for a week.  Please forward any replies directly to
lmiller@ezl.com.

Thanks in advance for any help....73
--
Larry
   Personal: lmiller@ezl.com
   Ham Radio: n9lbg@kd9sg.#sil.il
   Home Page: http://www.ezl.com/~lmiller
```

495. WB0WNX-7 final plans

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 23 Aug 1996 21:28:19 -0500
To: aprssig@tapr.org
Message-ID: <9608240228.AA09415@ELWOOD.pionet.net>
Rendered body type: text/plain

```
As per suggestions received I have added GPGGA to GPRMC to be transmitted.
GPRMC is sent every 30 seconds. GPGGA is sent every minute.  Full duplex is
on so I may trash some other packets (sorry...).  Path is
WIDE,GATE,GATE,WIDE.  Anybody capturing a track, I would appreciate a copy.

Departure from Sioux City (SUX) is 1000L.  Altitude is to be 17,000 ft.
Arrival at Kansas City Downtown (MKC) Executive Beechcraft is estimated at
1120L.

Departure from MKC will be sometime after 1700L at 16,000 ft.

Aircraft is a Piper Mojave N9232Y
```

I will be working at the Stanley Hydraulic Tool display at the Fire/Rescue show at the Kansas City Convention Center.

73, Dave

---

496. Re: QST article (GPS)

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Fri, 23 Aug 1996 22:23:39 EDT
To: stanzepa@usa.nai.net
Cc: aprssig@tapr.org
Message-ID: <19960823.201922.5367.0.aa7ya@juno.com>
Rendered body type: text/plain

```
On Thu, 22 Aug 1996 20:57:22 -0400 stanzepa@usa.nai.net (stan horzepa)
writes:

>> Maybe, since Stan Horzepa is on the SIG, he might use that
>> as a future article in QST, giving a rundown on the GPS
>> recievers that would be best suited for a beginner, and yet
>> be sufficient enough for APRS.  I use a KAM PLUS, with
>> a GPS reciever input on the back, so I am one step
>> closer to my ultimate APRS station.  :-)
>
> Thanks for the idea, Stacey.
>
> 73,
>
> Stan, WA1LOU

I look forward to it (QST article).

-----
73, Stacey, AA7YA
Box 83, Whitetail, MT  59276   +1-406-779-3641
Infobahn Off-ramp:  aa7ya@juno.com
RF:  aa7ya@aa7ya.#nemt.mt.usa.noam
         -or-  aa7ya@aa7ya.ampr.org [44.82.31.2]
```

---

497. Re: [APRSSIG:3971] remote wx stations

From: ku0g@sprynet.com
Date: Fri, 23 Aug 1996 20:53:42 -0700
To: aprssig@tapr.org
Message-ID: <199608240353.UAA12886@m1.sprynet.com>
Rendered body type: text/plain

```
On Fri, 23 Aug 1996, Kt4ll@aol.com wrote:
>I need to know from those of you who are running remote wx stations with a
>U-II and a KPC-3, how u have the tnc set up.  We are having a problem here in
>Polk County, FLorida.  Some stations are getting very high wind speed and
>temp readings, while others are getting normal readings from our remote wx
>stations.  I am not sure if there is a problem in the way we have the tnc's
>set up or not.
>
>gpshead 2 #

Here's your problem....

>lt1 !xxxx.xxn/xxxxx.xxw_Polk Remote Wx Site

You need to set your POSITION REPORT in BTEXT!!!  Erase LT1 and do this:

BTEXT !xxxx.xxN/xxxxx.xxW_Polk Co. Remote Wx Site.

Make sure you CAPITALIZE N and W!

Also set the normal UNPROTO path or Beacon/Posit won't go anywhere....Use what
you did for LTP1....

>blt 1 every 00:05:00
>blt 2 every 00:05:00
>ltp 1 aprs via wide, wide
>ltp 2 aprs via wide, wide
>
>
>The stations that are getting the high values are running davis wx stations
>attached.  I dont see why that would make a difference, but that is the only
>common denominator that I can find.  One of these stations also has the same
>problem when N6OOA's remote comes through via a gate.  Any body else having
```

>or heard of this happening?? Please let me know.
>
>73 de kt4ll
>Paul...Polk County, FLorida
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

498. N8CHB WAY out of line!

From: ku0g@sprynet.com
Date: Fri, 23 Aug 1996 20:58:14 -0700
To: aprssig@tapr.org
Message-ID: <199608240358.UAA13756@m1.sprynet.com>
Rendered body type: text/plain

What does THAT McDonnell-Douglas slam have to do with APRS? It doesn't belong on here, is in INCREDIBLY poor taste (considering how many amateurs work for M-D in St. Louis alone!).

I think you're way out of line (IMHO). Keep this kind of ridiculous waste off our SIG! Go back to JUNO with it

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

JUNO.COM: The Citizens Band of the Internet!

---

499. APRS Digi on 50.62 in West Palm Fl.

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 24 Aug 1996 00:09:54 -0400
To: aprs-fl@tapr.org
Cc: aprssig@tapr.org
Message-ID: <199608240409.AAA08103@grumpy.magg.net>
Rendered body type: text/plain

I have just been informed that the first 6M APRS Digi in Florida will be up in less than 1 week. We have had a commercial site and antenna offered to us and also all the fixings like a RADIO AND TNC!! I am planning to program up the TNC either Monday or Tuesday night so keep an eye out if you have 6M packet abilities.

Chances are that the station will be up by next weekend on 50.62 MHz. The station will be right on the Ocean in West Palm Beach and run probably 50W at 200ft on hardline. If you hear any packets please let me know at the address below. I will not be on myself for at least another week or so while I convert my commercial low-band radio to the ham bands and make up a new TNC cable.

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

500. ABOUT THE SHIRTS

From: KD4EMI@aol.com
Date: Sat, 24 Aug 1996 00:18:11 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <960824001811_508728184@emout07.mail.aol.com>
Rendered body type: text/plain

Again I'm flattered that everyone wants the shirts...I may sell out soon !

Also I appreciate your notes about sending money, but when I get the check you go on the list...

Please be sure your mailing address is on the check..

Mike Kantor KD4EMI
741 Lyone Rd # 17204
Coconut Creek, FL 33063

501. APRS On TV Today ??

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 24 Aug 1996 00:36:37 -0400
To: aprssig@tapr.org
Message-ID: <199608240436.AAA08784@grumpy.magg.net>
Rendered body type: text/plain

```
If you live in South Florida (or maybe even national coverage!) try to keep
an eye out for possible coverage on APRS in your local news. Brothers to the
Rescue will be having a memorial flight for the lost pilots/amateurs that
were killed 6 months ago tomorow just outside of Cuban waters. Press
Releases were sent out and they hope to have a good turnout with the media.
Let's hope that we get the APRS system working down there in time for
takeoff! Ralph N4NEQ who is staying close to us this weekend, my wife Danea
N2RHU and myself are headed down to the hangar in a few hours to see if we
can get their system working properly.

Oh and of course keep an eye out on your APRS screen at about 10am for
aircraft if you live in South Florida over the SE waters of Dade and Monroe
county. Depending on WX conditions a WIDE digi will try to shadown the low
flying aircraft from about 5,000 ft to relay the positions back to Miami.
The aircraft will be using the standard SSID of -7 on their callsign, there
will be no computers on-board, just trackers so please to not increase the
traffic load with messages to the aircraft since they cannot respond.


73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

502. 2m radio recommendation requested

From: Ron Malinowski <weather@xnet.com>
Date: Sat, 24 Aug 1996 02:43:40 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608240743.CAA27359@mail.xnet.com>
Rendered body type: text/plain

```
Hi Gang-

I am looking for a radio for APRS Mobile only, want to run off own battery.
I am tossing up between an Alinco DR-130, DR-150, or yaesu FT-2200.  I have
been using a Yaesu FT-2500, just to big and not big on that mic plug,  Its
been awhile since I have owned an alinco, but if anyone has comments or
recommendations on these radio and working with packet, I would love to
hear.  I am steering towards 3 power levels, just cause of limited battery
power, sometimes 5 watts is not enough, 25 is good, 50 is much more of a drain.
I think one of the Alinco has a packet jack, is this a nice feature, I
personally have no problems wiring a connector for 8 pin din.
Ron
```

---

503. Re: [APRSSIG:3981] N8CHB WAY out of line!

From: Bob Lorenzini <hwm@netcom.com>
Date: Sat, 24 Aug 1996 09:14:29 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960824090346.115A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
I think this SIG would benefit from a periodic posting of what is, and
is not appropriate for this list, as well as instructions on how to
unsubscribe. The alternative is to go to a moderated list, which the
majority have voted down. A moderated list slows down the timely exchange
of ideas, fixes, band openings, etc but it does solve the noise problem.


Bob - wd6dod
```

---

504. How to unsubscribe!

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Sat, 24 Aug 1996 13:03:01 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960824170301.006e8df8@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 10:59 AM 8/24/96 -0500, you wrote:
>...as well as instructions on how to unsubscribe.

I subscribe to a list in which the method to unsubscribe is appended at the
```

end of ALL and EVERY message: we still get a couple of unsubscribe mails
sent to the list every week ....

Anyway if you don't know how to... here it is. It may be a good idea to save
this somewhere, just in case.

If you want to subscribe to the aprs mailing list you have to send a message
to the following address:

listproc@tapr.org

with, in the body of the e-mail the command:

subscribe aprssig <your name>

 (replace <your name> by your real name!)
If you have any other problem let me know, I'll try to help out.

For your information, here is a summary of the various command you can send
to the listprocessor:

```
>
>                          ListProcessor 6.0
>
>Here is a brief description of the set of requests recognized by ListProcessor.
>Everything appearing in [] below is optional; everything
>appearing in <> is mandatory; all arguments are case insensitive. The vertical
>bar ("|") is used as a logical OR operator between the arguments. Requests may
>be abbreviated, but you must specify at least the first three characters.
>
>Keep in mind that when referring to a <list>, that list may be of two kinds:
>local or remote, unless otherwise noted. When referring to a local list, your
>request will be immediately processed; when referring to a remote list (a list
>served by another ListProcessor which this system knows about), your request
>will be appropriately forwarded. Issue a 'lists' request to get a listing
of all
>local and known remote lists to this ListProcessor.
>
>Recognized requests are:
>
>
>help [topic]
>------------
>Without arguments, this file. Otherwise get specific information on the
>selected topic. Topics may also refer to requests. To learn more about this
>system issue a 'help listproc' request. To get a listing of all available
>topics, generate an error message by sending a bogus request like 'help me'.
>
>
>set <list> [<option> <arg[s]>]
>------------------------------
>Without the optional arguments, get a list of all current settings for
>the specified list. Otherwise change the option to a new value for that
>list. Issue a 'help set' request for more information.
>
>
>subscribe <list> <your name>
>----------------------------
>The only way to subscribe to a list.
>
>
>unsubscribe <list>
>signoff <list>
>------------------
>Two ways of removing yourself from the specified list.
>
>
>recipients <list>
>review <list>
>-----------------
>Get a listing of all non-concealed people subscribed to the specified list.
>
>
>information <list>
>------------------
>Get information about the specified list.
>
>
>statistics <list> {[subscriber email address(es)] | [-all]}
```

```
>-----------------------------------------------------------
>Get a listing of non-concealed subscribers along with the number of messages
>each one of them has sent to the specified list. If the optional email
addresses
>are given, then statistics will be collected for these users only. For example:
>               stat foo user1@domain user2@domain
>will generate statistics about these two subscribers. "-all" lists statistics
>for all users that have posted on the list (whether currently subscribed ot
>not).
>
>run <list> [<password> <cmd [args]>]
>------------------------------------
>Run the specified command with the optional arguments and receive the output
>from stdout and/or stderr. To get a listing of all available commands to run,
>omit the arguments, i.e. issue a 'run <list>' request. You have to belong to
>the specified list, and must have obtained the password from the list's owner;
>the owner's address may be found in the Errors-To: header line of each
>delivered message. <list> may be local only.
>
>
>lists
>-----
>Get a list of all local mailing lists that are served by this server, as well
>as of all known remote lists.
>
>
>index [archive | path-to-archive] [/password] [-all]
>---------------------------------------------------
>Get a list of files in the selected archive, or the master archive if no
>archive was specified. If an archive is private, you have to provide its
>password as well.
>
>
>get <archive | path-to-archive> <file> [/password] [parts]
>----------------------------------------------------------
>Get the requested file from the specified archive. Files are usually split in
>parts locally, and in such a case you will receive the file in multiple email
>messages -- an 'index' request tells you how many parts the file has been split
>into, and their sizes; if you need to obtain certain parts, specify them as
>optional arguments. If an archive is private, you have to provide its password
>as well.
>
>view <archive | path-to-archive>] [/password] [parts]
>-----------------------------------------------------
>Same as "get" but in interactive mode justs catenates the file on the
>screen.
>
>search <archive | path-to-archive>] [/password] [-all] <pattern>
>----------------------------------------------------------------
>Search all files of the specified archive (and all of its subarchives if -all
>is specified) for lines that match the pattern. The pattern can be an
>egrep(1)-style regular expression with support for the following additional
>operators: '~' (negation), '|' and '&' (logical OR and AND), '<' '>' (group
>regular expressions). The pattern may be enclosed in single or double quotes.
>Note: . matches any character including new line.
>
>fax <fax-number> <archive | path-to-archive> <file> [/password] [parts]
>-----------------------------------------------------------------------
>Same as 'get', but it faxes you the files instead to the specified number.
>
>release
>-------
>Get information about the current release of this ListProcessor system.
>
>
>which
>-----
>Get a listing of local mailing lists to which you have subscribed.
>
>==============================================================================
>
>The requests below are list owner specific. List owners should contact the
>system's manager for extensive usage information:
>
>
>reports <list> <password>
>-------------------------
>Obtain all reports about the specified local list.
>
```

```
>
>edit <list> <password> <file>
>-----------------------------
>Obtain the specified file for editing.
>
>
>put <list> <password> <keyword> [args]
>--------------------------------------
>Manipulate addresses and change system files.
>
>
>approve <list> <password> <tag>
>-------------------------------
>Approve the message identified by the tag number for posting to the
>specified moderated list.
>
>
>discard <list> <password> <tag>
>-------------------------------
>Discard the message identified by the tag number sent to the specified
>moderated list.
>=============================================================================
>
>In addition, help is available on the following topic(s):
>
>live
>----
>Learn how to connect to this ListProcessor over the Internet for live
>processing of your requests.
>
>listproc
>--------
>Learn more about this system and list management software in general.
>
>
```

Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/

---

505. Re: [APRSSIG:3977] AEA DSP 232 TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 24 Aug 1996 14:17:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960824141600.11632C-100000@arctic>
Rendered body type: text/plain

On Fri, 23 Aug 1996, Larry Miller wrote:

> A local operator is having trouble setting up APRS with an AEA DSP 232
> When setting up the program the user is asked for the TNC type. The
> DSP 232 is not one of the choices. What choice should be made when

APRSdos REPLY/COMMENT: The choices are either AEA or TAPR. It either
followsthe TAPR standard or the AEA. The PICO choices is special due to
the bulit in HSP function...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

506. map utilities

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Sat, 24 Aug 96 18:24:59 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608241822110348@msn.com>
Rendered body type: text/plain

I have post PLT&view.zip to ......aprssig/files/upload
Theree are tow programs here to view and plot ARPS maps.
the "plotter" is any laser or inkjet printer that supports HP-GL.
All hp laser jets beginniing with mod 3 support HP-GL
Later models of hp inket printers have this support. My inkjet does not
so plot map does not support color.
Happy map making Jack, kb4xf

---

507. (no subject)

From: KB2SRA@gnn.com (ANDREW MARHEFKA, JR.)
Date: Sat, 24 Aug 1996 14:38:06

To: aprssig@tapr.org
Message-ID: <199608241838.OAA19700@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
hi. need help on loading the cd. have opened
a few directories. would like to find an easy
way to install?
73
andy
```

508. Re[2]: P3D and GPS Questions (fwd)

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 24 Aug 1996 14:41:46 -0500 (CDT)
To: aprssig@tapr.org (APRS SIG)
Message-ID: <199608241941.OAA19168@tapr.org>
Rendered body type: text/plain

```
Thought some of you on here might find this interesting.

Cheers - Greg

Forwarded message:
>From owner-amsat-bb@amsat.org Sat Aug 24 13:01:17 1996
Errors-To: owner-amsat-bb@amsat.org
Sender: owner-amsat-bb@amsat.org
Precedence: List
Date: Sat, 24 Aug 96 16:48:44 GMT
From: "Unwin, Martin" <Martin.Unwin@mars.ee.surrey.ac.uk>
Encoding: 931 Text
Message-Id: <9607248409.AA840905324@mars.ee.surrey.ac.uk>
To: kc4yer@amsat.org, Bill Hickey <hickeyb@bvsd.k12.co.us>
CC: amsat-bb@amsat.org
Subject: Re[2]: P3D and GPS Questions



Have a look at the following web address:

http://gauss.gge.unb.ca/grads/sunil/sgps.htm

This is a new web site that has a fairly thorough list of all GPS receivers in
space, including references to the recent shuttle GANE results and the Rex II
mission (which apparently is now using GPS for attitude determination). It also
lists many future missions that may use GPS. There is also a less detailed list
at our Small Satellite Home Page here at Surrey:

http://www.ee.surrey.ac.uk/EE/CSER/UOSAT/SSHP/list_gps.html

-----------------------------------------------------------------------
Martin Unwin
Surrey Satellite Technology Limited,
Centre for Satellite Engineering Research,  University of Surrey,
Guildford, Surrey, UK         Tel. +44 1483 300800  Fax. +44 1483 259503
-----------------------------------------------------------------------
```

509. GeoCities - Create a Map with the GeoViewer

From: Daniel Velez <dvelez@infi.net>
Date: Sat, 24 Aug 1996 15:46:28 -0400
To: aprssig@tapr.org
Message-ID: <321F5C14.71DA@infi.net>
Rendered body type: text/plain

```
http://www.geocities.com/BHI/geoviewer.html

Is there any way to use any of the data available here for maps?  Neat
site...

--
Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

[Attachment: geoviewer.html; text/html; 5,032 bytes]

510. Interesting mail I just got

From: KD4EMI@aol.com
Date: Sat, 24 Aug 1996 20:37:55 -0400
To: aprssig@tapr.org

Cc: aprs-fl@tapr.org, DMOBLEY@encore.com, N2CZF@magg.net
Message-ID: <960824203754_509173609@emout10.mail.aol.com>
Rendered body type: text/plain

I just recieved a packet msg from G0VUH   I copied it FYI

I will enlighten him about aprs.

His msg follows

Hi there, ot some info from kc5cbw that your QRV on 10.151. I run a network node over here in sheffiled with 3 ports onto 144.55 432.675/21.094.5 with the HF port changing to 18.095 when conditions on 27 M are not good. During the day have good linsk with GOBON REP and S. Africa and Eur. The HF port is in operation from 10-17 hrs (his time) but ive been on 30 meters and heard

kp4edl, kb4fo, w7lus, kr4vh, kd1ly, ve3np, k2meb and kb2lml...from 1 until 03:30 BST.

He goes on to describe station..etc..(I aint typing it)

His node is tibet:g0vuh and PMS is g0vuh-3

He would like to see if I can contact him.
Why not you guys deluge him about aprs as well...?
Mike KD4EMI@AOL.COM

---

511. FREQ COORDINATION LETTER

From: DDOBBINS@aol.com
Date: Sat, 24 Aug 1996 22:27:03 -0400
To: aprssig@tapr.org
Message-ID: <960824222702_267985118@emout07.mail.aol.com>
Rendered body type: text/plain

Who has a copy of the award-winning sure-fire we-asked-for-it-we-got-it APRS frequency coordination letter. I need a copy so I can coordinate 145.79 for ID, MT, OR, and WA.

Anything special I should also know about, besides expecting flak and fights?

Aloha, Dave/WH6YC, qth Seattle.

---

512. Please help a newbie

From: "David K. Shultz" <dshultz@epix.net>
Date: Sun, 25 Aug 1996 00:04:22 -0400
To: aprssig@tapr.org
Message-ID: <321FD0C6.41C3@epix.net>
Rendered body type: text/plain

Hello, I am looking to set up APRS here in north central Pennsylvania. I am located in northern Lycoming county, about 15 miles south of Wellsboro, Tioga County. And I am interested in talking with some others in PA and NY about APRS in the area. I know that we don't have any in our area and others I have talked to welcome it. I would also like to know if the National Weather Service office in State College, PA does anything with APRS, I know they have two Hams on staff there, but I haven't talked to them as of yet. I may also need help setting the software up with my 232MBX, so stand by for those "How do you make this work" questions.

I am still reading the text files for APRS and hope to send the check out to register the software this week. Is there APRS software for Windows?

Thanks for reading and any help is greatly appreciated. I look forward to conversing all on the sig.

Dave, N3NXC

---

513. Re:[APRSSIG:3994] FREQ COORDINATION LETTER

From: cougercat@smtp.prostar.com
Date: Sat, 24 Aug 96 19:44:07 PDT
To: aprssig@tapr.org
Message-ID: <199608250509.AAA11397@tapr.org>
Rendered body type: text/plain

A> Who has a copy of the award-winning sure-fire we-asked-for-it-we-got-it APRS
A> frequency coordination letter. I need a copy so I can coordinate 145.79 for
A> ID, MT, OR, and WA.
A>

A>
A> Anything special I should also know about, besides expecting flak and
A> fights?
A>

No; just more flak & fistfights.

It was sure nice to have breakfast with you and Richard. Hope to see you
again soon.

Jeff Chang
WB7AHT

(FAX) 325 0307

```
                   *******************************************
                   * mail from Jeff -  cougercat@prostar.com *
                   *******************************************
```

---

514. APRS Web Page

From: William Nolle <wa8inz@cris.com>
Date: Sun, 25 Aug 1996 00:25:37 -0700
To: aprssig@tapr.org
Message-ID: <321FFFF1.3BD8@cris.com>
Rendered body type: text/plain

For those interested i have updated my APRS web page, it's to 3 pages now
so give me some feedback and if there's something more i should add (Or
delete Hi).
 By the way we have an upcomming Balloon launch Sept 8 it's not your
normal everyday balloon. In other words it's not one that will burst at a
given altitude but will decent to be used again. there will be a paylood
of APRS,GPS,Telemetry,ATV and more. It will also carry a portion of a
rocket control section, for a rocket to be launched 2 weeks after that.
This rocket fom what i understand will reach several miles in altitude.
I will keep the sig updated as to freq's and any other info i have. By
the way many of the payload functions will be controllable from the
ground.

--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

```
            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

---

515. Time facility

From: "DENNIS JAMES" <den_j@msn.com>
Date: Sun, 25 Aug 96 05:53:38 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608250555350642@msn.com>
Rendered body type: text/plain

I was wondering does the GPS Sats send out Time like the uo-22 Satellite and
does any of the Garmin GPS units receives and decodes it.

Thanks
Dennis
vk2dor@amsat.org
ko23 etc

---

516. Re: [APRSSIG:3998] Time facility

From: rbost@itexas.net (Roy Bost)
Date: Sun, 25 Aug 1996 03:25:24 -0500
To: <aprssig@tapr.org>
Message-ID: <19960825082755571.AAA99@rbost.itexas.net>
Rendered body type: text/plain

Yes...the Garmin 45 does.

Roy Bost, N5TAM
Granbury, Tx.

rbost@itexas.net
32 25' 33"N   97 48' 59"W

---

517. Question...6 AND 2

From: "Al Z., N3KAE" <ldajz@epix.net>
Date: Sun, 25 Aug 1996 08:59:18 +0000
To: aprssig@tapr.org
Message-ID: <322015E7.5B86@epix.net>
Rendered body type: text/plain

Concept: Mutually beneficial GATEs between 6-Meters and 2-Meters

Hold on flamers... You know who you are!

First of all... are they in use? Since 2/6-Meter verticals are not very
expensive, and rigs for 6 are becoming increasingly easier to find, this
sounds like it may work with a GATE-able TNC.

Considerations: License of operators

Unlike HF GATEs it's still VHF to VHF

Comments: Okay flame if you must, but information, constructive
comments and criticism is all I'm looking for.

73 de N3KAE

---

518. Re: [APRSSIG:3994] FREQ COORDINATION LETTER

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 25 Aug 1996 09:14:06 -0400
To: aprssig@tapr.org
Message-ID: <199608251314.JAA02691@grumpy.magg.net>
Rendered body type: text/plain

Yep! this is a good idea, can anyone post a copy of their winning letter so
we can all learn from it ? As we have said before it is time to find room on
some other bands as well.

>Who has a copy of the award-winning sure-fire we-asked-for-it-we-got-it APRS
>frequency coordination letter. I need a copy so I can coordinate 145.79 for
>ID, MT, OR, and WA.
>
>Anything special I should also know about, besides expecting flak and fights?
>
>Aloha, Dave/WH6YC, qth Seattle.
>
>

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

519. winAPRS v1.1.3 Wx bug? (Resent)

From: bob <w2g3zfj@unix.asb.com>
Date: Sun, 25 Aug 1996 09:34:04 -0400
To: aprssig@tapr.org
Message-ID: <3220564C.48C1@unix.asb.com>
Rendered body type: text/plain

Hi

I sent this yesterday but haven't seen it appear on the sig, so have resent it. Apologies if it arrives
twice!

73 de bob

```
=====================================================================================================
=======
```

Hi Folks

I tend to altenate between dosAPRS and winAPRS according to how the mood takes me! I was running winAPRS
 1.1.2
for a couple of months (24 hrs/day) but found that when I got more than about 230 stations in the heard

```
list
then it crashed (usually every couple of days). So, I went back to dosAPRS 7.6f which has worked without
 a
crash for the 2 weeks. BTW both programs under win95.

I downloaded the latest version of winAPRS last night (v1.1.3) and found that it installed OK but it
didn't
read the temperature on my Ultimeter II. Read the wind speed/direction and rain gauges OK but not the
temp.
Went back to versions 1.1.2, 1.1.1 and 1.1.0 and they all worked OK as did dosAPRS. Anyone else seen
this?
Also, has anyone else noticed that winAPRS will not autostart (i.e. configure the TNC and open the
ports) with
win95 but will with Win 3.1/3/11? I have winAPRS on two win95 machines and neither will auto start, you
have to
go in and open the ports each time you start it. But, also have it on my laptop and machine at work and
they
both autostart as soon as you click on the icon!


For the record my main APRS machine is 486-DX4/80MHz, 8Mb RAM, bus mouse, com1=tnc, com2=wx station,
WIN95,
KAMPlus. (I know, I need more RAM!)

Thanks

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/
```

520. [APRSSIG:836] WinAPRS Maps

From: dvelez@infi.net
Date: Sun, 25 Aug 1996 09:47:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608251347.JAA32599@mh004.infi.net>
Rendered body type: text/plain

```
RWF chimed:

<SNIP>
>Why would a MacAPRS user want to read an "inferior" DOS map anyway?
>Are you saying it "should" read them?  Or do you "need" to read
>them. Or would you just "like" to read them. I think the point is
>"moot" (debatable)
<SNIP>

Exactly.  Let's stick to enhacing the programs we have at our disposal, ALL
of them.  Keep the personal jabs out of it...

Another, usually quiet, subscriber.

Daniel Velez                         dvelez@infi.net
This mail sent using NetTamer on my HP200LX palmtop!

`[1;33;42mNet-Tamer V 1.03 - Test Drive
```

521. WinAPRS & Weather

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sun, 25 Aug 96 10:17:18 EDT
To: w2g3zfj@unix.asb.com, aprssig@tapr.org
Message-ID: <CMM-RU.1.5.840982638.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
Bob (G3ZFJ) asked about some weather problems in WinAPRS, especially in
version 1.1.3.

WinAPRS and MacAPRS (and DosAPRS to some extent) are going thru a LOT of
improvoments in the weather aspect...  Bob Bruninga and us (the Sproul Bros)
are also in the process of changing/improving the weather protocols..

Unfortunately, the temperature problem with the Ultimeter II slipped thru..
It will be fixed in the next release..

Keith

Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

522. Re: [APRSSIG:4001] Re: FREQ COORDINATION LETTER

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 25 Aug 1996 09:29:21 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608251429.JAA09122@solar.cs.tamu.edu>
Rendered body type: text/plain

Richard Garcia sez:
>
> Yep! this is a good idea, can anyone post a copy of their winning letter so
> we can all learn from it ? As we have said before it is time to find room on
> some other bands as well.
>
>
> >Who has a copy of the award-winning sure-fire we-asked-for-it-we-got-it APRS
> >frequency coordination letter. I need a copy so I can coordinate 145.79 for
> >ID, MT, OR, and WA.
> >
> >Anything special I should also know about, besides expecting flak and fights?
> >
> >Aloha, Dave/WH6YC, qth Seattle.

Since I've been somewhat involved in coordination off and on for about 20 years...

There are several things you need to do when looking to the local coordination body:

1. Note whether there might be a digital group who's working with the coordination group. If so, make contact with them and see what their particulars are. It's very possible that 145.79 is not a good frequency in your area, even if it's been used "for years" because of other allocations you might not be aware of. The local Packet folks working with the mainstream coordination group will have some feeling for this type of thing.

2. If no packet or digital group is working with the coordination folks, see if the local coordinator is "packet aware" and start off with a friendly chat about what you are doing and want to do.

3. Make sure you've done some serious frequency surveillence on 145.79 and some alternatives. You have to check for other modes, as some areas of the country have weak signal, translators and beacons in that range.

4. Don't go in with the "This is the National Frequency" speech primed and targeted. Further, falling back on the "ARRL Bandplan" probably won't endear you to the local coordination group. The League, for all it's done for amateur radio, does NOT do frequency coordination and their "bandplan" is little more than a suggestion, and not widely followed across the country.

5. My recommendation is to shoot for a statewide or regional (eg., larger than one state) frequency, if 145.79 is not available. Segregating APRS to a seperate channel in each city is counterproductive, as WE know, but others might not.

If it'll help, add my e-mail address as a "for more information" contact.

Hope this helps.
73, Gerry Creager N5JXS
Packet Coordinator, Texas VHF-FM Society
n5jxs@tamu.edu

---

523. WB0WNX-7 Screen Capture on TAPR

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sun, 25 Aug 1996 10:16:38 -0500
To: aprssig@tapr.org
Cc: winaprssig@tapr.org
Message-ID: <199608251516.KAA02100@tapr.org>
Rendered body type: text/plain

I've uploaded a JPEG file thats a screen capture from WinAPRS showing the track replay of WB0WNx as seen from eastern Iowa; also shown is the station history screen which shows the NMEA data. There was some loss of satellite lock from what I saw but not much; must be a nice plane to fly at 17K + feet.

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
```

I'll give you a reason that sounds good

```
     _
   _( )_
 _(     )_
(_________)
  \  \  \
    \  \
```

---

524. WINAPRS and PK-12

From: BordingK@aol.com
Date: Sun, 25 Aug 1996 11:32:18 -0400
To: aprssig@tapr.org
Message-ID: <960825113218_393481644@emout12.mail.aol.com>
Rendered body type: text/plain

1. I had WinAPRS 1.1.1 up and running pretty good, showing my QTH, my tracker and the few local APRS stations, but not with 1.1.2 and 1.1.3 I have all kinds of trouble talking to my PK-12 TNC.

a. PK-12 works great in windows terminal program and PackRat for Windows, but somehow the set-up is screwy now.

b. TNC buffer seems to hold all the incoming posits, because when I switch back to terminal from WinAPRS all the positis that have seemily stored up come in pouring out.

c.   WinAPRS TNC ini seem to have no effect on TNC.

d. Yes, headerline is off!

2. Anyone using WinAPRS with a PK-12 have any suggestions. Thanks in advance.

3. It's got to be something really simple, but so am I!

de KF4COH
Ken in Jax, FL

---

525. Garmin-38

From: kb8pff@juno.com (John E Santmire)
Date: Sun, 25 Aug 1996 11:37:38 EDT
To: aprssig@tapr.org
Message-ID: <19960827.113524.4839.0.kb8pff@juno.com>
Rendered body type: text/plain

I am interested in getting a GARMIN-38   I have found one at a good price, (I think it's a good price) NEW
But I would like to know some things about it,   If any one could help me.

1. Will it work with the APRS program (v7.3d) ?

2. What is a good price on it ?

3. and any other good stuff about it, OR even the BAD?

Thanks! de John
kb8pff@juno.com

---

526. Re: [APRSSIG:4002] winAPRS v1.1.3 Wx bug? (Resent)

From: schiers@ames.net
Date: Sun, 25 Aug 96 15:17:13 -0500
To: aprssig@tapr.org
Message-ID: <199608251538.KAA03352@tapr.org>
Rendered body type: text/plain

In <779079@bbs.ames.net>, on 08/25/96 at 08:47 AM,
aprssig@tapr.org said:

I was running winAPRS 1.1.2 for a couple of months (24 hrs/day) >but found that when I got more than about 230 stations in the heard list >then it crashed (usually every couple of days).

I have Win95 and 20mb ram with the dx2/80 and have noticed that if I have a lot of stations, or repeatedly load and unload large maps, etc...in

other words, with "heavy" use of the program, it slows to a crawl over a
period of a few days, and/or crashes.

>I downloaded the latest version of winAPRS last night (v1.1.3) and found
>that it installed OK but it didn't read the temperature on my Ultimeter
>II. Read the wind speed/direction and rain gauges OK but not the temp.

It works perfectly with the U-2000, albeit there are some protocol
problems that both Bob and the Bros. Sproul are working on.

 has anyone else noticed that
>winAPRS will not autostart (i.e. configure the TNC and open the ports)
>with win95

Don't know about 3.1, but autostart does not work with Win95.

>For the record my main APRS machine is 486-DX4/80MHz, 8Mb RAM, bus mouse,
>com1=tnc, com2=wx station, WIN95, KAMPlus. (I know, I need more RAM!)

I have 20mb ram and the problems you noted still happen. Either Win95
doesn't handle memory allocation very well, or WinAPRS has a memory leak.
Boy I wish we had APRS for OS/2...(whine/snivell) <g>

>73 de bob w2/g3zfj
>w2g3zfj@unix.asb.com
>http://www.asb.com/usr/w2g3zfj/

73,

hasan schiers, N0AN
----
schiers@ames.net
----

527. Uh Oh that was OLD mail! Hey RWF...

From: dvelez@infi.net
Date: Sun, 25 Aug 1996 12:39:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608251639.MAA02968@mh004.infi.net>
Rendered body type: text/plain

A bad storm moved through last night and took out my modem, serial card and
TNC. So, eager to try and regain some sense of recovery, I fired up
NETTAMER in the HP200LX. When I downloaded my mail this morning I must have
had some old replies to SIG traffic in there...and they were sent.

Sorry for bringing up old flames :)

73 de Dan
Daniel Velez (EMAIL dvelez@infi.net) (AMATEUR n4wzr@wd4miz.va)
Net-Tamer and HP200LX Palmtop.

`[1;32;47mNet-Tamer V 1.03 - Test Drive

528. APRS @ 9600

From: "Chris H. Edwards, AE4XO" <hedwards@st6000.sct.edu>
Date: Sun, 25 Aug 1996 13:16:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.960825131223.56150A-100000@st6000.sct.edu>
Rendered body type: text/plain

Hello everyone,
I have enjoyed watching the sig, and I have noticed that some questions
get more responses than others. I was talking to a fellow here in
Atlanta, that does not have e-mail access, and he wanted to see if there
was any discussion on making the APRS network 9600 before it gets to
large. I think he was primarily just thinking outloud, but I wanted to
post it anyways, and se ethe responses. Are there any plans to make APRS
9600 baud?

Chris Edwards AE4XO
Marietta, GA

529. Garmin 800 telephone number

From: clyde edgar <cedgar@pacificnet.net>
Date: Sun, 25 Aug 1996 10:16:54 -0700

To: aprssig@tapr.org
Message-ID: <199608251716.KAA24972@polaris.pacificnet.net>
Rendered body type: text/plain

Could somebody please repost the Garmin Toll free number ?

---

530. Re: FREQ COORDINATION LETTER

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Sun, 25 Aug 1996 10:47:06 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960825103032.1acf6ce2@harborside.com>
Rendered body type: text/plain

```
At 09:28 PM 8/24/96 -0500, you wrote:
>Who has a copy of the award-winning sure-fire we-asked-for-it-we-got-it APRS
>frequency coordination letter. I need a copy so I can coordinate 145.79 for
>ID, MT, OR, and WA.
>
>Anything special I should also know about, besides expecting flak and fights?
>
>Aloha, Dave/WH6YC, qth Seattle.
>
>

Good luck here in Oregon!

Steve WB6YQP is the head of the coordination counsel here.
If it does not fit him or SOPRA you do NOT get it!
so good luck on getting 146.79 for APRS.

73 Chris wb8ypo
wb8ypo@harborside.com
wb8ypo@wb8ypo.#swor.or.usa.noam
```

---

531. Re: [APRSSIG:4000] Question...6 AND 2

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 25 Aug 1996 13:59:12 -0400
To: aprssig@tapr.org
Message-ID: <199608251759.NAA13439@grumpy.magg.net>
Rendered body type: text/plain

```
THis might be good in some instances where you got a GREAT 6M site but good
locations for 2M and need to connect two areas together. I have found that
6M is not as great as one would think for ground wave unless you have a good
ammount of power, good antenna, and a high location.

It may be a good place to test some ideas out. Anyone out there with a lot
of 6M FM expirience ? Also note that most TNC's will not do 1200 baud 1200
baud GATE operations. You will need a KPC-4, DSP-2232 or possibly a old
KPC-2 to do this.



>Concept:  Mutually beneficial GATEs between 6-Meters and 2-Meters
>
>Hold on flamers... You know who you are!
>
>First of all... are they in use?  Since 2/6-Meter verticals are not very
>expensive, and rigs for 6 are becoming increasingly easier to find, this
>sounds like it may work with a GATE-able TNC.
>
>
>Considerations: License of operators
>
>Unlike HF GATEs it's still VHF to VHF
>
>
>Comments:  Okay flame if you must, but information, constructive
>comments and criticism is all I'm looking for.
>
>
>
>73 de N3KAE
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
```

Jupiter Farms Florida EL96

532. Re: [APRSSIG:4005] Re: FREQ COORDINATION LETTER

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 25 Aug 1996 14:08:30 -0400
To: aprssig@tapr.org
Message-ID: <199608251808.OAA13819@grumpy.magg.net>
Rendered body type: text/plain

Well my message was more geared towards other bands other than 2M. 145.79
was coordinated years ago by FADCA the state Digital Coordination
association. I think Florida was the 2nd state to do a statewide
coordination on .79.

I am thinking more of 6M, 220, 440, and 1.2 GHz, coordination will only get
worse as time goes on.

>Richard Garcia sez:
>>
>> Yep! this is a good idea, can anyone post a copy of their winning letter so
>> we can all learn from it ? As we have said before it is time to find room on
>> some other bands as well.
>>
>>
>> >Who has a copy of the award-winning sure-fire we-asked-for-it-we-got-it APRS
>> >frequency coordination letter. I need a copy so I can coordinate 145.79 for
>> >ID, MT, OR, and WA.
>> >
>> >Anything special I should also know about, besides expecting flak and
fights?
>> >
>> >Aloha, Dave/WH6YC, qth Seattle.
>
>Since I've been somewhat involved in coordination off and on for about 20
>years...

>

>There are several things you need to do when looking to the local coordination
>body:
>
>1. Note whether there might be a digital group who's working with the
>coordination group. If so, make contact with them and see what their
>particulars are. It's very possible that 145.79 is not a good frequency in
>your area, even if it's been used "for years" because of other allocations you
>might not be aware of. The local Packet folks working with the mainstream
>coordination group will have some feeling for this type of thing.
>
>2. If no packet or digital group is working with the coordination folks, see
>if the local coordinator is "packet aware" and start off with a friendly chat
>about what you are doing and want to do.
>
>3. Make sure you've done some serious frequency surveillence on 145.79 and
>some alternatives. You have to check for other modes, as some areas of the
>country have weak signal, translators and beacons in that range.
>
>4. Don't go in with the "This is the National Frequency" speech primed and
>targeted. Further, falling back on the "ARRL Bandplan" probably won't endear
>you to the local coordination group. The League, for all it's done for
>amateur radio, does NOT do frequency coordination and their "bandplan" is
>little more than a suggestion, and not widely followed across the country.
>
>5. My recommendation is to shoot for a statewide or regional (eg., larger
>than one state) frequency, if 145.79 is not available. Segregating APRS to a
>seperate channel in each city is counterproductive, as WE know, but others
>might not.
>
>If it'll help, add my e-mail address as a "for more information" contact.
>
>Hope this helps.
>73, Gerry Creager N5JXS
>Packet Coordinator, Texas VHF-FM Society
>n5jxs@tamu.edu
>
>
73's Rich N2CZF
n2czf@magg.net

```
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

533. message

From: KD4EMI@aol.com
Date: Sun, 25 Aug 1996 14:09:00 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <960825140900_509509072@emout15.mail.aol.com>
Rendered body type: text/plain

```
My Wp or something garbled the msg I posted..here is the jist of it..

ANDY, G0VUH in England has a node...He may be interested in APRS.

He will be on 10.151 LSB for a few tests..He has been able to copy
quite a few stations...

KB4FO, KP3EDL, W7LUS KR4VH KD1LY VE3NP K2MEB KB2LML
not KD4EMI    :(

See if you can connect to his node   (TIBET )
or leave a msg in his pbbs (G0VUH-3)

He has good hops thru EUROPE and Africa, as well as VHF link through
england..
Give it a shot..

I was able to connect to him and he has a strong signal. (with my MFJ loop
thats doing pretty good. Though I frequently make CW contacts with G0
stations on 30 M )

Lets cross the pond with APRS !
Mike
KD4eMI@AOL.COM
```

---

534. Re: [APRSSIG:4000] Question...6 AND 2

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 25 Aug 1996 14:21:24 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608251411.E28584-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
I like it, but there are not too many VHF/VHF gate-able TNCs on the
market.  I know that PacComm carries, or used to carry, one.

I am willing to try 6 meters from South Florida for a while.  Let us know
when the trial begins.
73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Sun, 25 Aug 1996, Al Z., N3KAE wrote:

> Concept:  Mutually beneficial GATEs between 6-Meters and 2-Meters
>
> Hold on flamers... You know who you are!
>
> First of all... are they in use?  Since 2/6-Meter verticals are not very
> expensive, and rigs for 6 are becoming increasingly easier to find, this
> sounds like it may work with a GATE-able TNC.
>
>
> Considerations: License of operators
>
> Unlike HF GATEs it's still VHF to VHF
>
>
> Comments:  Okay flame if you must, but information, constructive
> comments and criticism is all I'm looking for.
>
>
>
> 73 de N3KAE
```

>

---

535. Re: [APRSSIG:4011] APRS @ 9600

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 25 Aug 1996 13:44:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608251844.NAA09740@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Chris H. Edwards, AE4XO sez:
>
> Hello everyone,
> I have enjoyed watching the sig, and I have noticed that some questions
> get more responses than others. I was talking to a fellow here in
> Atlanta, that does not have e-mail access, and he wanted to see if there
> was any discussion on making the APRS network 9600 before it gets to
> large. I think he was primarily just thinking outloud, but I wanted to
> post it anyways, and se ethe responses. Are there any plans to make APRS
> 9600 baud?

That's a move I'd sure support.  I'm migrating all the vehicle location apps
I'm doing (not APRS, but certainly using AX.25 and NMEA on non-amateur
frequencies) to 9600, and am getting good thru-puts.  Makes sence and
encourages good full-duplex operation in the long run, with regenerating
repeaters for the data, which ALSO help thru-put.

73, gerry
```

---

536. Re: [APRSSIG:4015] Re: FREQ COORDINATION LETTER

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 25 Aug 1996 13:47:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608251847.NAA09777@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Trying to get a UHF frequency coordinated NOW for APRS on a statewide basis
shouldn't be too difficult in most states.  the gotcha is making a good case
for it, as defined by the coordinating body.  Whether they like APRS, OR
packet, won't matter as much if the case is compelling, in my experience.

73, gerry
```

---

537. Re: [APRSSIG:4005] Re: FREQ COORDINATION LETTER

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 12:36:19 -0700
To: aprssig@tapr.org
Message-ID: <199608251936.MAA16001@m1.sprynet.com>
Rendered body type: text/plain

```
No letter available here, BUT we had Kantronics on our side at the time that we
got 145.79 coordinated in Kansas.  Latest information that we have from the
Missouri people is that they see no need to coordinate the frequency since it is
a de facto standard already in Missouri and the surrounding states....I'm still
working on this one, though.

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

538. Re: [APRSSIG:4008] Garmin-38

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 12:39:56 -0700
To: aprssig@tapr.org
Message-ID: <199608251939.MAA16653@m1.sprynet.com>
Rendered body type: text/plain

```
On Sun, 25 Aug 1996, kb8pff@juno.com (John E Santmire) wrote:
>I am interested in getting a GARMIN-38    I have found one at a good
>price, (I think it's a good price) NEW
>But I would like to know some things about it,   If any one could help
>me.
>
>1. Will it work with the APRS program (v7.3d) ?

YES, BUT it has limitations that make it difficult to use...

>2. What is a good price on it ?
```

```
Around $200.00 at WalMart/KMart et al, BUT the GPS-45 can be had as low as
$249.00!!

>
>3. and any other good stuff about it,  OR even the BAD?

NO Extrenal antenna which makes it difficult to use with a stand-alone tracker,
inside the car or in other situations other than in full view of the sky.  Other
than that fact, they're nice units and the new GPS45-XL is the guts of the 38
with the detachable, external antenna standard with the 45!

RECOMMENDATION:  Spend the extra $50.00 and get the 45!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

539. Re: [APRSSIG:4011] APRS @ 9600

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 12:43:33 -0700
To: aprssig@tapr.org
Message-ID: <199608251943.MAA17202@m1.sprynet.com>
Rendered body type: text/plain

```
IMHO, 9600 baud is probably the wave of the future, BUT I think a wholesale
switchover to 9600 would most likely discourage potential APRS users who already
own 1200 baud equipment.  We see stations pop up on frequency from time to time
that are just monitoring and those that come up to 145.79 for a listen usually
get curious enough to load up the software and give it a try.  To that end, I
think we need to stay at 1200 and build up backbones on UHF at 9600!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

540. Re: [APRSSIG:4007] WINAPRS and PK-12

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 25 Aug 1996 15:02:21 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae466d4d858f@[199.1.11.110]>
Rendered body type: text/plain

```
>         b.  TNC buffer seems to hold all the incoming posits, because when I
>switch back to terminal from WinAPRS all the positis that have seemily stored
>up come in pouring out.

I would to a flow control or hardware handshake problem


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

541. Re: [APRSSIG:4008] Garmin-38

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 25 Aug 1996 15:03:02 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae466e7cccde@[199.1.11.110]>
Rendered body type: text/plain

```
>I am interested in getting a GARMIN-38    I have found one at a good
>price, (I think it's a good price) NEW
>But I would like to know some things about it,   If any one could help
>me.
>
>1. Will it work with the APRS program (v7.3d) ?
>
>2. What is a good price on it ?
>
>3. and any other good stuff about it,  OR even the BAD?
>
>
>                                                        Thanks!  de John
>kb8pff@juno.com
```

Get the Garmin GPS 45/40/38 Frequently Asked Questions FAQ
Version 1.081 Aug 8, 1996

Over 150K of must read information for Garmin GPS users.

Compiled by Lane A. Holdcroft

is available at:

  http://www.eskimo.com/~klah/index.html
  or ftp://ftp.eskimo.com/u/k/klah/index.html
  or ftp to "ftp.eskimo.com", cd to "/u/k/klah"

Then you will know more than just reading a quick APRSsig answer.

I think I posted this last week

I would rather have a 45 than a 38 :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

542. Re: [APRSSIG:4018] Re: APRS @ 9600

From: Bob Lorenzini <hwm@netcom.com>
Date: Sun, 25 Aug 1996 13:32:02 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960825132913.130A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

One thing to keep in mind is that 1200 and 9600 baud cannot share the
same freq without collisions. All the 9600 modems I'am familiar with, use
state machine DCD.

Bob - wd6dod

543. Re: [APRSSIG:4022] Re: APRS @ 9600

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 25 Aug 1996 16:03:12 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960825210312.006bcf6c@tbcnet.com>
Rendered body type: text/plain

Hi there,
Could somebody 'splain to me what the benefits of using 9600 are? They have
to be more reasons to switch than just 8 times faster xmission.

jbl

At 15:08 8/25/96 -0500, you wrote:
>IMHO, 9600 baud is probably the wave of the future, BUT I think a wholesale
>switchover to 9600 would most likely discourage potential APRS users who
already
>own 1200 baud equipment. We see stations pop up on frequency from time to
time
>that are just monitoring and those that come up to 145.79 for a listen usually
>get curious enough to load up the software and give it a try. To that end, I
>think we need to stay at 1200 and build up backbones on UHF at 9600!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157

544. Re: [APRSSIG:4000] Question...6 AND 2

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Sun, 25 Aug 1996 10:05:27 -0400
To: aprssig@tapr.org

```
Message-ID: <32205DA7.77A86C03@cyclades.com>
Rendered body type: text/plain
```

```
Al Z., N3KAE wrote:

> Considerations: License of operators
>
> Unlike HF GATEs it's still VHF to VHF

I don't know if this is what you were aiming at, but it's close enough
to the common question.

Back where I used to live, a club was operating a 10m FM repeater that
was crosslinked to a 440 repeater.  When the band was hot a few years
ago, several Techs used the 440 side and were having a blast working DX
on the 10m side.

Of course, every time they got on the system, the control ops would get
calls sating that techs were using the 10m repeater.

The bottom line is that the license class only applies to the
transmitter the licensee is operating.  In the event of a 2m-10 MHz
GATE, since only the General (or higher) licencee is transmitting on
10 MHz, it does not matter WHO is going through the GATE, as long as
they can legally transmit on 2m.

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

545. Help: Wide Digi with U-II

```
From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 25 Aug 1996 16:13:49 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960825211349.006b3cdc@tbcnet.com>
Rendered body type: text/plain
```

```
Can somebody help me?

We're trying to get WA9CJN-15 Wide-Relay to ALSO be a U-II WX station with a
raingauge.  Seems to me that I can get it to be a standalone WX station and
a Wide, but with the raingauge, it seems likely that the program has to run
to beacon out correct rain amounts, but that will mess up the Wide alias.
Hence ,even though I may put a Wide in the MYNode, it still won't show up on
screens as a Wide.

Equipment is a KPC-3 w/ Ver 6 firmware.

Thanks

jbl
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

546. Re: [APRSSIG:4020] Re: FREQ COORDINATION LETTER

```
From: n2czf@magg.net (Richard Garcia)
Date: Sun, 25 Aug 1996 17:17:09 -0400
To: aprssig@tapr.org
Message-ID: <199608252117.RAA21597@grumpy.magg.net>
Rendered body type: text/plain
```

```
That does not make a whole lot of sense to me at least. The reason to be
coordinated is to avoid any problems later on, yes I know many think that
even if coordinated it does not ammount to a hill of beans, that may be
possibly true in some areas.

All I can see is a large loop hole later on when someone get's on that has a
"friend",  even if you have been "unofficially coordinated" for years!


edited****
```

>Latest information that we have from the
>Missouri people is that they see no need to coordinate the frequency since
it is
>a de facto standard already in Missouri and the surrounding states..
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

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547. Backbones was RE: APRS @ 9600

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 25 Aug 1996 17:33:54 -0400
To: aprssig@tapr.org
Message-ID: <199608252133.RAA22288@grumpy.magg.net>
Rendered body type: text/plain

I agree on this point to no end. I think backbones are necessary to relieve the traffic on .79 due to the sometimes necessary use of multiple WIDEs to get to 2 different locations at the same time. I have mentioned this long ago while Tom W2VY was on the list here. I know that several people were helping him with some of the needs for APRS in ROSE code but al of the sudden he disappeared not to be heard.

In areas that have many many WIDES and a lot of users a backbone on 9600 baud will help to avoid the "folding back" of packets when someone goes over 2 WIDES in their path. If a digi could be made to repeat a packet using WIDE as normal and ALSO send that packet to UHF or above to all the other WIDES that are on the backbone then no one would have any excuse to even go WIDE,WIDE! The one other thing that is difficult is how will a packet on .79 going to WIDE and also the backbone get to all the distant WIDES on UHF ? I think that net/rom does automatic routing so this may be a way. I don't know how, it is not my speciality but I wonder if anyone else on the sig can help!

We may not need it today but at the rate many areas are growing I think someone that has the know how has got to start the project. It will not be very long at all and this does not seem to be a simple project!

edited***
> To that end, I
>think we need to stay at 1200 and build up backbones on UHF at 9600!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

548. Re: [APRSSIG:4021] Re: Garmin-38

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Sun, 25 Aug 1996 14:38:59 -0400
To: aprssig@tapr.org
Message-ID: <32209DC3.5443BC6E@cyclades.com>
Rendered body type: text/plain

ku0g@sprynet.com wrote:

> and the new GPS45-XL is the guts of the 38
> with the detachable, external antenna standard with the 45!

Anyone know what the 45XL is going for?

549. Re: FREQ COORDINATION LETTER

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Sun, 25 Aug 1996 17:53:44 EDT
To: aprssig@tapr.org
Message-ID: <19960825.154918.5375.6.aa7ya@juno.com>
Rendered body type: text/plain

On Sun, 25 Aug 1996 14:06:18 -0500 (CDT)
Gerald J Creager <gerry@cs.tamu.edu> writes:

>Trying to get a UHF frequency coordinated NOW for APRS on a statewide
>basis shouldn't be too difficult in most states.

Try telling that to the 5th smallest club in the Nation, which happens
to be the one I belong to... :-)

In all fairness, I maintain a node, and offer help in setting up APRS
to those that seem interested in APRS here, which is quite a chore
in itself... Imagine being quite popular on the voice repeaters... Which
does have it's benefits, nonetheless.   heh-heh!

73, Stacey, AA7YA Box 83, Whitetail, MT 59276   +1-406-779-3641
Infobahn Off-ramp: aa7ya@juno.com
RF: aa7ya@aa7ya.#nemt.mt.usa.noam -or- aa7ya@aa7ya.ampr.org
[44.82.31.2]

---

550. Re: APRS @ 9600

From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Sun, 25 Aug 1996 17:53:44 EDT
To: aprssig@tapr.org
Message-ID: <19960825.154918.5375.5.aa7ya@juno.com>
Rendered body type: text/plain

On Sun, 25 Aug 1996 15:08:14 -0500 (CDT) ku0g@sprynet.com writes:

>IMHO, 9600 baud is probably the wave of the future, BUT I think a
>wholesale switchover to 9600 would most likely discourage potential
>APRS users who already own 1200 baud equipment. We see stations
>pop up on frequency from time to time that are just monitoring and those
>that come up to 145.79 for a listen usually get curious enough to load
up
>the software and give it a try. To that end, I think we need to stay at
1200
>and build up backbones on UHF at 9600!

I agree, like they say "You gotta start somewhere", or better yet, "You
must
learn to crawl before you run"... :-)

>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com

73, Stacey, AA7YA Box 83, Whitetail, MT 59276   +1-406-779-3641
Infobahn Off-ramp: aa7ya@juno.com
RF: aa7ya@aa7ya.#nemt.mt.usa.noam -or- aa7ya@aa7ya.ampr.org
[44.82.31.2]

---

551. Re: [APRSSIG:4026] Re: APRS @ 9600

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Sun, 25 Aug 96 18:31:53 EDT
To: aprssig@tapr.org
Message-ID: <m0uunii-0001A8C@wa4mei.radio.org>
Rendered body type: text/plain

On Sun, 25 Aug 1996 16:18:50 -0500 (CDT) you wrote:

>Hi there,
>Could somebody 'splain to me what the benefits of using 9600 are? They have
>to be more reasons to switch than just 8 times faster xmission.

How 'bout 8 times more capacity. 9600 should support 8 times as many users
as 1200 in the same bandwidth.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp: The only x86 operating system that
is more stable than most people who use it.

---

552. Re: [APRSSIG:4003] WinAPRS Maps

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sun, 25 Aug 1996 18:52:56 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960825225256.006cc3c0@mail.cyberstreet.com>
Rendered body type: text/plain

At 09:06 AM 8/25/96 -0500, you wrote:
>RWF chimed:
>
><SNIP>
>>Why would a MacAPRS user want to read an "inferior" DOS map anyway?
>>Are you saying it "should" read them? Or do you "need" to read
>>them. Or would you just "like" to read them. I think the point is
>>"moot" (debatable)
><SNIP>
>
>Exactly. Let's stick to enhacing the programs we have at our disposal, ALL
>of them. Keep the personal jabs out of it...
>
>Another, usually quiet, subscriber.
>
>Daniel Velez   dvelez@infi.net
>This mail sent using NetTamer on my HP200LX palmtop!
>
>`[1;33;42mNet-Tamer V 1.03 - Test Drive
>
>Not to change the subject Daniel but I see Serv. Mdse. ahas the HP100LX on
sale. The HP200LX is still 399.00 I think. What is the data cable called
that I attach to my TNC and what does it cost? Thanks Dan. kd4ams/ron/aprs-fl
73 cu Ron"KD4AMS"

---

553. Re: [APRSSIG:4021] Re: Garmin-38

From: Rudy Benner <bennerr@onlink.net>
Date: Sun, 25 Aug 1996 19:02:24 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19960825230224.1be75dae@mail.onlink.net>
Rendered body type: text/plain

Yup, I concur, wish I had spent the extra $ for the 45. External antenna
capability would be nice.

At 14:48 25/8/96 -0500, you wrote:
>On Sun, 25 Aug 1996, kb8pff@juno.com (John E Santmire) wrote:
>>I am interested in getting a GARMIN-38   I have found one at a good
>>price, (I think it's a good price) NEW
>>But I would like to know some things about it,   If any one could help
>>me.
>>
>>1. Will it work with the APRS program (v7.3d) ?
>
>YES, BUT it has limitations that make it difficult to use...
>
>>2. What is a good price on it ?
>
>Around $200.00 at WalMart/KMart et al, BUT the GPS-45 can be had as low as
>$249.00!!
>
>>
>>3. and any other good stuff about it, OR even the BAD?
>
>NO Extrenal antenna which makes it difficult to use with a stand-alone
tracker,
>inside the car or in other situations other than in full view of the sky.
Other
>than that fact, they're nice units and the new GPS45-XL is the guts of the 38
>with the detachable, external antenna standard with the 45!
>
>RECOMMENDATION: Spend the extra $50.00 and get the 45!!!
>
>Best 73,

>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
>

Rudy Benner, Timmins Ontario
bennerr@onlink.net

48°46.496'N
081°21.785'W

554. Re: [APRSSIG:4030] Backbones was RE: APRS @ 9600

From: KG5QD@aol.com
Date: Sun, 25 Aug 1996 19:13:45 -0400
To: aprssig@tapr.org
Message-ID: <960825191344_509650090@emout18.mail.aol.com>
Rendered body type: text/plain

I think the way to interface the Backbones to the local Aprs is to strip the
headers of all packets sent to generic calls (ie not local qsos) and replace
them with a Header for the transport layer- then put another on when it pops
out the other side taylored for that local environment- I can do this with
BPQ code but it should be done in a stand-alone tnc- Ithink this is the
WIDE-N protocal Bob APR talks about-
73 de Dale Kg5qd

555. Email transmit test.

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sun, 25 Aug 1996 19:23:00 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960825232300.006d7700@mail.cyberstreet.com>
Rendered body type: text/plain

If Rich G. is correct, this will be my first transmittal directly from
my QTH to aprssig@tapr.org. With fingers crossed I will push the button.
If this works n2czf has proven that you cannot use a O when you need a o.

kd4ams/ron
73 cu Ron"KD4AMS"

556. Re: [APRSSIG:4038] Email transmit test.

From: William Nolle <wa8inz@cris.com>
Date: Sun, 25 Aug 1996 20:17:02 -0700
To: aprssig@tapr.org
Message-ID: <3221172E.C70@cris.com>
Rendered body type: text/plain

Ronald Oblinger wrote:
>
> If Rich G. is correct, this will be my first transmittal directly from
> my QTH to aprssig@tapr.org. With fingers crossed I will push the button.
> If this works n2czf has proven that you cannot use a O when you need a o.
>
> kd4ams/ron
> 73 cu Ron"KD4AMS"

Well it made it Hi.
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

```
            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

557. Re: [APRSSIG:4020] Re: FREQ COORDINATION LETTER

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 25 Aug 1996 21:46:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960825214003.28927L-100000@arctic>
Rendered body type: text/plain

All of this talk about coordijnation and I still would like to include a definitive list of statest that have an official coordinaton for APRS. I asked this once beofre, and got no responses. I wwill add the coordination info to my MAPS.TXT file Based on comments so far, Here is what I know:

Coordinated:
Kansas 145.79
Florida 145.79 WHAT part of Florida? South, middle or West?
Northern Calif (145.01)

I **THINK** that some of the following are coordinated, but have seeen no such confirming data...

Michigan
Ohio
Georgia
Maryyland
Alabama
New Jersey
Connecticut
Rhode Island
Masachussets
Virginia???
North Carolina?
Illinois?
IOWA?
Missouri?
Hawaii?
San DIego???

IF YOU CAN SAY TAHT THE APRS FREQWUENCY IS OFFICIALLY SANCTIONED, then please let me know...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

558. Re: [APRSSIG:4026] Re: APRS @ 9600

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 25 Aug 1996 21:49:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960825214836.28927M-100000@arctic>
Rendered body type: text/plain

On Sun, 25 Aug 1996, John B. Leonard, Jr wrote:

> Could somebody 'splain to me what the benefits of using 9600 are? They have
> to be more reasons to switch than just 8 times faster xmission.

APRSdos REPLY/COMMENT: EIGHT TIMES the number of users can share the same APRS channel...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

559. Re: [APRSSIG:4037] Re: Backbones was RE: APRS @ 9600

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 25 Aug 1996 21:58:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960825215518.28927O-100000@arctic>
Rendered body type: text/plain

Regarding the improvement in throughput possible on APRS, as soon as PacComm implements the WIDE-N digipeating algorithm, we should be able to see a 3 fold or more improvement in throughput and longer ranges for mobiles. Just count the number of dupes that you see in your network.. The WIDE-N algorithm will prevcent looping of RELAY,WIDE,WIDE packets.

Ive been talking about WIDE-N for two years now. Cant wait for PacComm to get around to doing something with it...

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

560. New APRS application photos available!

From: rwf <rwf@mindspring.com>
Date: Sun, 25 Aug 1996 22:13:58 -0400

To: aprssig@tapr.org
Message-ID: <2.2.32.19960826021358.00681a44@atl.mindspring.com>
Rendered body type: text/plain

```
This is Ralph, N4NEQ.  I was working in Florida (Again!), and decided to
visit N2CZF near Miami ths weekend.  He and I drove down to Miami yesterday
and helped Louis, N4LDG get APRS going on a couple of aircraft that were
headed towards Cuba.

They were, of course, the "Brothers To The Rescue" group, who had 2 of their
planes shot down in International airspace by Castro's MIG-29s 6 months ago.

I took my digital camera and have posted an account of the trip, with
pictures on the Atlanta APRS Home Page.

The APRS worked well (must be all those Miami WIDES  ;)  ).

Please visit the page and let me know what you think of my work.

I also visited the Jupiter (FL) Loran transmitting station.  The guy there
is real interested in APRS now.  Let me know if you'd like to see these
pictures on the page as well.

I still have another very interesting, wild, APRS application with pictures
that I still have to write up, but I'll bet that every one of you saw the
results of it and didn't know it!

Ralph
```

---

561. Oops.. forgot URL

From: rwf <rwf@mindspring.com>
Date: Sun, 25 Aug 1996 22:19:13 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960826021913.00692868@atl.mindspring.com>
Rendered body type: text/plain

```
The URL for the Brothers To The Rescue pictures is

http://www.mindspring.com/~rwf/aprs1.html
```

---

562. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: William Nolle <wa8inz@cris.com>
Date: Sun, 25 Aug 1996 22:12:46 -0700
To: aprssig@tapr.org
Message-ID: <3221324E.2037@cris.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> All of this talk about coordijnation and I still would like to include a
> definitive list of statest that have an official coordinaton for APRS.  I
> asked this once beofre, and got no responses.  I wwill add the
> coordination info to my MAPS.TXT file  Based on comments so far, Here is
> what I know:
>
> Coordinated:
> Kansas  145.79
> Florida 145.79 WHAT part of Florida?  South, middle or West?
> Northern Calif (145.01)
>
> I **THINK** that some of the following are coordinated, but have seeen no
> such confirming data...
>
> Michigan
> Ohio
> Georgia
> Maryyland
> Alabama
> New Jersey
> Connecticut
> Rhode Island
> Masachussets
> Virginia???
> North Carolina?
> Illinois?
> IOWA?
> Missouri?
> Hawaii?
> San DIego???
```

```
>
> IF YOU CAN SAY TAHT THE APRS FREQWUENCY IS OFFICIALLY SANCTIONED, then
> please let me know...
>
> Reply mail addr:  wb4apr@amsat.org
> javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html

Well all i can do is speak for the Northern part of Alabama. My digi is
coordinated for a 100 mile radius of it's position. The coordination body
checked with neighboring states, TN, MS, GA at the time of coordination. I
have the required paperwork!. As for the rest of the state i don't know.

--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

---

563. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 25 Aug 1996 23:28:21 -0400
To: aprssig@tapr.org
Message-ID: <199608260328.XAA04381@grumpy.magg.net>
Rendered body type: text/plain

```
All of Florida....

And I can't speak for them but as far as I know all of New Jersey is also
coordinated. This is the impression I got when I moved from there.



>All of this talk about coordijnation and I still would like to include a
>definitive list of statest that have an official coordinaton for APRS.  I
>asked this once beofre, and got no responses.  I wwill add the
>coordination info to my MAPS.TXT file  Based on comments so far, Here is
>what I know:
>
>Coordinated:
>Kansas  145.79
>Florida 145.79 WHAT part of Florida?  South, middle or West?
>Northern Calif (145.01)
>
>
>I **THINK** that some of the following are coordinated, but have seeen no
>such confirming data...
>
>Michigan
>Ohio
>Georgia
>Maryyland
>Alabama
>New Jersey
>Connecticut
>Rhode Island
>Masachussets
>Virginia???
>North Carolina?
>Illinois?
>IOWA?
>Missouri?
>Hawaii?
>San DIego???
>
>IF YOU CAN SAY TAHT THE APRS FREQWUENCY IS OFFICIALLY SANCTIONED, then
>please let me know...
>
>Reply mail addr:  wb4apr@amsat.org
>javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
73's Rich N2CZF
n2czf@magg.net
```

```
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

564. WIDE-N

From: rwf <rwf@mindspring.com>
Date: Sun, 25 Aug 1996 23:31:39 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960826033139.006a435c@atl.mindspring.com>
Rendered body type: text/plain

```
At 09:07 PM 8/25/96 -0500, Bob wrote:
>Regarding the improvement in throughput possible on APRS, as soon as
>PacComm implements the WIDE-N digipeating algorithm,

<snip>
.  Cant wait for PacComm to
>get around to doing something with it...
>
You aren't the only one!
We need it soon!
And we need Kantronics to do it for the KPC-3 as well
```

---

565. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: Steve Lewis <aj054@dayton.wright.edu>
Date: Sun, 25 Aug 1996 23:51:10 -0400
To: aprssig@tapr.org
Message-ID: <9608260351.AA08834@dayton.wright.edu>
Rendered body type: text/plain

```
Hi Bob:
To the best of my knowledge, Ohio does NOT officially coordinate packet
freqs. (and I hope they never do!)

This probably doesn't help you but its my $.02.

-73- de Steve, N8TFD/sysop W8YX.#CIN.OH
```

---

566. Re: [APRSSIG:4029] Re: FREQ COORDINATION LETTER

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 21:42:58 -0700
To: aprssig@tapr.org
Message-ID: <199608260442.VAA23232@m1.sprynet.com>
Rendered body type: text/plain

```
Yes, that's what I said, too, but the "powers that be" in Missouri don't want to
coordinate packet at all...Too political!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

567. Re: [APRSSIG:4031] Re: Garmin-38

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 21:44:07 -0700
To: aprssig@tapr.org
Message-ID: <199608260444.VAA23468@m1.sprynet.com>
Rendered body type: text/plain

```
GPS-45XL advertised for $299.00


Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

568. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 21:46:20 -0700
To: aprssig@tapr.org
Message-ID: <199608260446.VAA23945@m1.sprynet.com>
Rendered body type: text/plain

```
We also got the UHF FREQUENCY (446.925) coordinated in Kansas at the same time
as 145.79, Bob...
```

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

569. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: ku0g@sprynet.com
Date: Sun, 25 Aug 1996 21:47:44 -0700
To: aprssig@tapr.org
Message-ID: <199608260447.VAA24267@m1.sprynet.com>
Rendered body type: text/plain

The Missouri Repeater Coordinator said that 145.79 MHz is de facto APRS in Missouri. Since no digital coordination is active in Missouri, I can safely say that we've logged 145.79 as a "coordinated" frequency.

Pretty much the same story in Iowa and Illinois from what I can see...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

570. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: W2HOB@aol.com
Date: Mon, 26 Aug 1996 01:08:55 -0400
To: aprssig@tapr.org
Message-ID: <960826010854_393974843@emout10.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-08-25 22:32:37 EDT, Bob Bruninga, WB4APR wrote:

> **THINK** that some of the following are coordinated, but have seeen no
>such confirming data...
>
>New Jersey
>Pennsylvania

The newly-merged ARCC (Area Repeater Coordination Council) coordinates voice repeater frequencies in the ARRL sections of SNJ and EPA and is in the process of forming a digital committee but does not coordinate digital activity as of yet and it's thought that they may not do it at all. However, at this time, 145.79 is utilized by APRS exclusively in EPA and the entire state of NJ as a result of just being there since about 1992. That's when growth really spawned. In SNJ, we're seeing stations from NJ, PA, CT, NY, DE, MD and Northern VA as a result of properly spaced WIDE-RELAY or WIDE digis, so I guess one could say that APRS has such a foothold in all of these areas that real frequency coordination either isn't needed now or the frequency will be "assigned" to APRS by default if the coordinating bodies ever begin to coordinate digital activity.

73 de Boyd AR

571. Re: [APRSSIG:4043] New APRS application photos available!

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 26 Aug 96 08:39:11 -0400
To: <rwf@mindspring.com>, <aprssig@tapr.org>
Message-ID: <199608261236.IAA21688@bridge.net>
Rendered body type: text/plain

>The APRS worked well (must be all those Miami WIDES ;)).

I knew it was coming...just cause we don't have mountains to put our digis on doesn't mean you have to make fun of us!

Steve KO4HD

572. Re: [APRSSIG:4048] Re: FREQ COORDINATION LETTER

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 26 Aug 1996 07:03:13 -0600
To: aprssig@tapr.org
Message-ID: <3221A091.59E5@slkc.uswest.net>
Rendered body type: text/plain

Bob - APR - we were also told that Utah doesn't coordintate packet frequencies and we would have to do our own usage coordination. Salt Lake, Davis, Weber, and Utah Counties (80% of the population) are on 145.79 now, after the gracious consent of the few voice users there.

--
73
Doug
KC7CO
Radio Free Utah

```
                            --------
                            |       |
                            |     #  ------
                            |     RFU     |
                            |             |
                            |             |
                            |             |
                             -------------
```

573. AREA CODE CHANGE

From: Leroy.Lawhorn@275-17.usbbs.com (Leroy Lawhorn)
Date: 25 Aug 96 21:48:43 -0500
To: aprssig@tapr.org
Message-ID: <bbc_9608260920@usbbs.com>
Rendered body type: text/plain

Bob, please change my area code from 803 to 864. I am listed for APRS source
from SC. W4VIW's BBS @ 864-299-6185 1:3639/68

73   LeRoy SySop

We have two area codes now for SC.

--- WILDMAIL!/WC v4.12
 # Origin: W4VIW's BBS 864-299-6185 Greenville, SC USA (73:1320/1.0)
--
|Internet: Leroy.Lawhorn@275-17.usbbs.com
|
| Standard disclaimer: The views of this user are strictly their own.
| WoodyWare Software, Inc. - Internet E-Mail Services
| Info: info@usbbs.com

574. Re: WinAPRS v1.1.3 Wx bug?

From: Mark Sproul <sproul@ap.org>
Date: Mon, 26 Aug 1996 09:38:30 -0400
To: aprssig@tapr.org
Cc: w2g3zfj@unix.asb.com
Message-ID: <v03007806ae4757be82dd@[165.1.27.20]>
Rendered body type: text/plain

Bob and the rest of the WinAPRS users

I am responding to these comments so that everyone knows that I have read
them and am working on them.

```
Bug 1:  Crash on more than 230 (approximate) stations
        We have had this reported a couple of times and are investigating it
        I have not found anything yet but hope to have it fixed soon

Bug 2:  Ultimeter II weather reporting screw up in Version 1.1.3
        We have added a lot of new features including support for the Davis
        WX station and there is lots more to come. It is very possible
        we messed something up.  We should have this fixed ASAP

Bug 3:  Auto start (for auto open of serial ports)
        Auto start currently ONLY works on VHF TNC.  This has now been
        fixed and will be in the next release.
        I have it fully working on Win95 so I do not know what the problem is
        I have not been doing full testing on Win 3.1
```

Mark

Original message

>Hi Folks
>
>I tend to altenate between dosAPRS and winAPRS according to how the mood
>takes me! I was running winAPRS 1.1.2
>for a couple of months (24 hrs/day) but found that when I got more than
>about 230 stations in the heard list

>then it crashed (usually every couple of days). So, I went back to dosAPRS
>7.6f which has worked without a
>crash for the 2 weeks. BTW both programs under win95.
>
>I downloaded the latest version of winAPRS last night (v1.1.3) and found
>that it installed OK but it didn't
>read the temperature on my Ultimeter II. Read the wind speed/direction and
>rain gauges OK but not the temp.
>Went back to versions 1.1.2, 1.1.1 and 1.1.0 and they all worked OK as did
>dosAPRS. Anyone else seen this?
>Also, has anyone else noticed that winAPRS will not autostart (i.e.
>configure the TNC and open the ports) with
>win95 but will with Win 3.1/3/11? I have winAPRS on two win95 machines and
>neither will auto start, you have to
>go in and open the ports each time you start it. But, also have it on my
>laptop and machine at work and they
>both autostart as soon as you click on the icon!

>

>
>For the record my main APRS machine is 486-DX4/80MHz, 8Mb RAM, bus mouse,
>com1=tnc, com2=wx station, WIN95,
>KAMPlus. (I know, I need more RAM!)
>
>Thanks
>
>73 de bob w2/g3zfj

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

575. Re: [APRSSIG:4003] WinAPRS Maps

From: Mark Sproul <sproul@ap.org>
Date: Mon, 26 Aug 1996 09:40:47 -0400
To: aprssig@tapr.org
Message-ID: <v03007808ae47598ff049@[165.1.27.20]>
Rendered body type: text/plain

>>Why would a MacAPRS user want to read an "inferior" DOS map anyway?
>>Are you saying it "should" read them? Or do you "need" to read
>>them. Or would you just "like" to read them. I think the point is
>>"moot" (debatable)
><SNIP>
>
>Exactly. Let's stick to enhacing the programs we have at our disposal, ALL
>of them. Keep the personal jabs out of it...
>

MacAPRS and WinAPRS both completly handle dosAPRS maps, they just work. I
have seen some very nice DOS maps and they have there place even in
Mac/WinAPRS.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

576. Re: [APRSSIG:4058] Re: WinAPRS Maps

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 26 Aug 96 11:05:59 -0400
To: <aprssig@tapr.org>
Message-ID: <199608261502.LAA04049@bridge.net>
Rendered body type: text/plain

```
>MacAPRS and WinAPRS both completly handle dosAPRS maps, they just work.  I
>have seen some very nice DOS maps and they have there place even in
>Mac/WinAPRS.
>
They work in javAPRS too!

Steve KO4HD
```

577. Re: [APRSSIG:4020] Re: FREQ COORDINATION LETTER

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 26 Aug 1996 10:57:43 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608261557.KAA16372@solar.cs.tamu.edu>
Rendered body type: text/plain

```
ku0g@sprynet.com sez:
>
> No letter available here, BUT we had Kantronics on our side at the time that we
> got 145.79 coordinated in Kansas.  Latest information that we have from the
> Missouri people is that they see no need to coordinate the frequency since it is
> a de facto standard already in Missouri and the surrounding states....I'm still
> working on this one, though.

And this is not a bad way to go.  As long as APRS activity doesn't interfere
with preexisting, AND COORDINATED, activity use of 145.79 as a defacto
standard frequency shouldn't be a problem.

I've heard two things persistently from the coordination world about this.
And some of the coordinators' complaint is valid, so don't get too mad right
off!

1.  "Those packet folks just grab any frequency they want, regardless of what
it's band-planned for."

and,
2.  Those APRS guys can't tell me UI've *GOT* to coordinate 145.769."

#1 is a valid complaint.  A lot of packet expansion has been ad hoc and
without the benefit of talking to anyone who spends much time playing with
making the bands usable for the largest group.

#2 has some validity as well.  If there's prior use, or if there's a specific
process to get a band segment redesignated, then the coordinator probably
CAN'T just designate a non-packet channel for APRS immediately.  And if it IS
a designated packet channel, then in most cases I'm familiar with, its use is
a free-for-all issue, and not a coordination issue.  In a lot of areas, packet
channel use is a matter of personal conscience and not planning.

Hope this helps,

73, gerry
```

578. Re: FREQ COORDINATION LETTER

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 26 Aug 96 11:57:47 EDT
To: <aprssig@tapr.org>
Message-ID: <960826155746_71301.3106_FHJ64-3@CompuServe.COM>
Rendered body type: text/plain

```
Bob sez:

>Missouri?

Packet frequencies do not yet fall under coordination in Missouri, Bob. While
145.79 is "de facto" it is *not* officially coordinated and really can't be put
on your "good" list. However, we are in the throes of putting together a packet
coordination body; once some minor sticking points are either solved or
tip-toed around, we will have a formal coordination system.

Anyway, after yesterday's Missouri Repeater Council meeting we were chatting
about packet stuff and briefly mentioned the APRS freq. The coordinators were
in agreement that 5.79 certainly made sense and seemed to work where it was,
and nobody they were aware of had any problem with it.

If there's any solace to be had in this uncertainty, when the packet
coordination comes to be I'm fairly sure that 145.79 will be recognized.

And Steve sez:
```

>Ohio does NOT officially coordinate packet
>freqs. (and I hope they never do!)

This might be a tad short-sighted, Steve. History has firmly taught us that "gentlemen's agreements" fall apart when user populations increase beyond where everybody can know everybody on a face-to-face basis.

...mike/N0QBF
71301.3106@compuserve.com

---

579. Re: APRS @ 9600

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 26 Aug 96 11:57:56 EDT
To: <aprssig@tapr.org>
Message-ID: <960826155756_71301.3106_FHJ64-4@CompuServe.COM>
Rendered body type: text/plain

John sez:

>Could somebody 'splain to me what the benefits of using 9600 are? They have
>to be more reasons to switch than just 8 times faster xmission.

That alone is justification. The two specific reasons are:

1) 8X increase in user speed;
2) 6X (approx.) improvement in channel capacity.

Packet channel loading is a major problem in metropolitan areas. We seriously need to "raise the bar" in the packet community. 1200 is to packet as AM was to HF 20 years ago - yeah, a lot of people operate 1200, but it's wasteful of limited resources, and there is a much more efficient alternative readily available.

On a system with moderate loading, you don't get the full 8X improvement in capacity with 9600 due to collisions and the overhead of TXD.

FOOD FOR THOUGHT: With the interest in 70cm APRS still mostly at the discussion stage, I would like to encourage development of 9600 in concert with UHF. Since I have a tendency to put my money where my mouth is (a bad habit, according to my wife), the thoughts of a 9600 UHF APRS digi and a possible VHF/UHF gateway are not too far removed. Hmm... <insert thoughtful chin scratching>

...mike/N0QBF
71301.3106@compuserve.com

---

580. Re: [APRSSIG:4022] Re: APRS @ 9600

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 26 Aug 1996 11:00:56 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608261600.LAA16399@solar.cs.tamu.edu>
Rendered body type: text/plain

ku0g@sprynet.com sez:
>
> IMHO, 9600 baud is probably the wave of the future, BUT I think a wholesale
> switchover to 9600 would most likely discourage potential APRS users who already
> own 1200 baud equipment. We see stations pop up on frequency from time to time
> that are just monitoring and those that come up to 145.79 for a listen usually
> get curious enough to load up the software and give it a try. To that end, I
> think we need to stay at 1200 and build up backbones on UHF at 9600!

A wholesale switch may not happen overnight, either. A dual net, with encouragement for the "regulars" to migrate over, just might get others started thinking about it. If one were to broadcast RCM updates only on 9600, then there's more incentive to go there (I've not forgotten, Claude!).

I *do* think backbone and intercity linking development on non-APRS-mobile channels needs to be thought out and implemented at higher data rates, though, and I suspect THIS could be done over TCP/IP, and in conjunction with some of those activities, if a little thought were put to it.

73, gerry

---

581. Re: [APRSSIG:4026] Re: APRS @ 9600

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 26 Aug 1996 11:06:09 -0500 (CDT)
To: aprssig@tapr.org

Message-ID: <199608261606.LAA16462@solar.cs.tamu.edu>
Rendered body type: text/plain

John B. Leonard, Jr sez:
>
> Hi there,
> Could somebody 'splain to me what the benefits of using 9600 are? They have
> to be more reasons to switch than just 8 times faster xmission.

1. It is the way I anticipate most pakcet operation ot go, over time.

2. 8x data rate, realizing about 6x performance improvement.

3. More time for RTCM DGPS correction transmissions.

4. Less time for collisions.

5. harder to screw up the radio-TNC interface, because it takes some snap or it doesn't work... You'd be surprised at the AFSK (1200 baud) signals I here around here that have been set up "by ear" and the occasional complaints that "It don't work!"

6. Improved recovery capability... You realize 6-10 dB SNR improvement with the G3RUH-type modem over AFSK systems.

gerry

---

582. Mixing GPS & ATV data

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Mon, 26 Aug 1996 12:11:21 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960826161121.006ebbb8@mail.cyberstreet.com>
Rendered body type: text/plain

Our EOC in Charlotte County wants to be able to see the lat long, speed, alt etc. in corner of TV picture while operating ATV from plane or from helicopter. Is there an interface that we can buy or build that would allow us to do this? Thanks in advance.

ron/kd4ams/73
73 cu Ron"KD4AMS"

---

583. Mac Mapping Program

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 26 Aug 96 15:30:07 EDT
To: <aprssig@tapr.org>
Message-ID: <960826193006_71301.3106_FHJ48-1@CompuServe.COM>
Rendered body type: text/plain

Maps for the Rest of Us! ;-)

MacDLG v1.0 is now uploaded to the TAPR server. This is a Macintosh application which generates APRS maps in both the DOS and Mac/Win file formats.

Program features:

- Menu & dialog box control (looks and feels like a Mac program)
- User selection of file format, map features and finished size
- Point count reduction through use of related line joining
- Selectable smoothing for DOS points reduction
- Source data from USGS 100K DLG or Census Bureau TIGER databases, from either FTP or CD-ROM
- Logical use of color for feature identification
- Separate selection of shoreline, river, and stream detail
- Includes "trail" road types
- Tested with maps having 300,000 points
- Direct output of Mac/Win format - no conversion and its subsequent loss of resolution or color information

I've been working on this program for about four months and it appears to be solid enough to release now. It's a bit on the slow side for super-large maps (3 hours or more for 16-nMile radius maps of major metro areas which include all detail), but, after all, we're talking about 300-350K points to start with! If your expectations are kept reasonable, most maps should take 10-15 minutes to read and process on a mid-level Mac. I'm continuing to work on the speed issue, though.

While the program itself (I feel...) is straightforward to use, with clear dialog boxes and descriptive error messages, reading the manual is going to be mandatory to get any success. This is due to the unusual way (in Mac terms) in which the source files have to be organized in order to span the several files needed for even small maps. The manual is included with the application in MS Word 6.0 format; for those that don't have Word 6.0, the manual was also uploaded separately in PDF format.

The program is intended to give any Mac user the ability to generate his/her own maps for the various APRS programs.

Thanks are due to Jack Cavanagh, KB4XF, whose MKMAPHK2.BAS was the inspiration for MacDLG. My gratitude to Jack for making his code public.

...mike, N0QBF
71301.3106@compuserve.com

---

584. Re: [APRSSIG:4031] Re: Garmin-38

From: "Larry P. Thomas WAOGWA" <lpthomas@winning-edge.com>
Date: Mon, 26 Aug 1996 16:35:16 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960826213516.006b65f8@winning-edge.com>
Rendered body type: text/plain

At 04:48 PM 8/25/96 -0500, you wrote:
>ku0g@sprynet.com wrote:
>
>> and the new GPS45-XL is the guts of the 38
>> with the detachable, external antenna standard with the 45!
>
>Anyone know what the 45XL is going for?

My recent purchase of the 45XL cost me $275. This should be fairly typical.

---

585. Re: [APRSSIG:4065] Mixing GPS & ATV data

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Mon, 26 Aug 1996 15:43:08 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199608262043.PAA19581@solar.cs.tamu.edu>
Rendered body type: text/plain

Ronald Oblinger sez:
>
> Our EOC in Charlotte County wants to be able to see the lat long, speed,
> alt etc. in corner of TV picture while operating ATV from plane or from
> helicopter. Is there an interface that we can buy or build that would
> allow us to do this? Thanks in advance.

We used a 'TelevEyes Pro' and a laptop to get that data for some airborne videography we do routinely.

try http://www.digvis.com for more info.

73, gerry

---

586. HELP Garmin45 FAQ

From: mpaul@rzmain.rz.uni-ulm.de
Date: Mon, 26 Aug 96 22:50:19 +0200
To: "aprssig@tapr.org"@netway.rz.uni-ulm.de
Cc: MPAUL@netway.rz.uni-ulm.de
Message-ID: <9608262050.AA04135@netway.rz.uni-ulm.de>
Rendered body type: text/plain

Dear Hams!

I am looking for the Garmin GPS45 FAQ which was posted to the newsgroup

"sci.geo.satellite-nav".

How can I get this file via e-mail or WWW? Could anybody who already downloaded it send me a copy?

Many thanks for your help!

vy 73 de Mike, DL3SDMEM
e-mail: MPAUL@RZMAIN.RZ.UNI-ULM.DE

---

587. [APRSSIG:4035] HP200 and packet

From: dvelez@infi.net
Date: Mon, 26 Aug 1996 17:26:55 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199608262126.RAA18916@mh004.infi.net>
Rendered body type: text/plain

```
On Sun, 25 Aug 1996 aprssig said to dvelez@infi.net
   >Not to change the subject Daniel but I see Serv. Mdse. ahas the
   >HP100LX on sale. The HP200LX is still 399.00 I think. What is the
   >data cable called that I attach to my TNC and what does it cost?
   >Thanks Dan. kd4ams/ron/aprs-fl 73 cu Ron"KD4AMS"
Ron,
You might consider picking up a 200LX from someone unloading a package deal
on comp.sys.palmtops!  I see a nice deal there every now and then...

  You can purchase the serial cable a couple of different ways.  The first is
as part of the Connectivity Kit.  This kit includes some connectivity
software (there are shareware versions out there, too) and software that
runs the applications included with the 200 on your PC.  The Kit also
includes the serial cable and a package of various connectors for modems,
PCs and printers.  The Kit goes for around $50, I think.

  You can also purchase just the cable and connectors for around $30, as I
recall.

  Anyway, lurk around comp.sys.palmtops and you'll pick up a wealth of
information.  There's even a FAQ put out there regularly.  I wish I could
give you more information, but I'm sitting in the passenger terminal at the
airport :)

  BTW APRS runs just fine on the 200 (and I've heard the 100 is nearly equal
in this regard).  In fact, I now prefer using the palmtop APRS mobile for
public service events because the primary goal ther is for my location to
get out and into the net.   Being able to see everyone else's location on
the small display is secondary.  So, because of its size and power
requirement, it makes an ideal mobile APRS computer.

73 de Dan

Daniel Velez (EMAIL dvelez@infi.net) (AMATEUR n4wzr@wd4miz.va)
Net-Tamer and HP200LX Palmtop.

`[1;31;43mNet-Tamer V 1.03 - Test Drive
```

---

588. Re: Remote WX station

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 26 Aug 1996 17:52:02 -0400 (EDT)
To: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Cc: "Bob Bruninga, WB4APR" <wb4apr@amsat.org>, Paul KT4LL <kt4ll@aol.com>,
aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960826175053.23192I-100000@arctic>
Rendered body type: text/plain

```
I hope I have fixed the REMOTE WX display problems on stations runing APRS
with DAVIS configuration.  It will be posted tonight as APRS77.zip
and 76to77.zip

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

589. Re: [APRSSIG:4060] Re: FREQ COORDINATION LETTER

From: ku0g@sprynet.com
Date: Mon, 26 Aug 1996 15:37:17 -0700
To: aprssig@tapr.org
Message-ID: <199608262237.PAA07780@m1.sprynet.com>
Rendered body type: text/plain

```
It always helps to get there FIRST, too!  Once you're established on a frequency
Part 97 is very specific about interference.  Basically, it's a first come,
first served basis on frequency utilization.  We just happen to be lucky enough
around the midwest that nobody was already on 145.79 (except a couple of guys in
the St. Louis area who were, as reported, very cooperative when asked if they
would mind moving and had APRS and the national channel concept calmly and
rationally explained to them!).  To make a much-to-lengthy sentence short:  Get
there, Stay There and Be Nice About It!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

TFTD: One may increase the quantity and availability of winged insects by the
introduction of sucrose derivatives into the environment more readily than
utilization of the over-fermented fruit liquid derivatives...

590. Re: [APRSSIG:4055] Re: FREQ COORDINATION LETTER

From: n2czf@magg.net (Richard Garcia)
Date: Mon, 26 Aug 1996 18:53:02 -0400
To: aprssig@tapr.org
Message-ID: <199608262253.SAA16853@grumpy.magg.net>
Rendered body type: text/plain

Many years ago, well before APRS became popular a lot of bootleggers were on
145.79 in Miami. They are no longer there, I have not heard one on my
travels down there in the past 2 years. All you got to do is set up 3-4
WIDES in a "problem" area and sit back. <snicker>

```
>  Salt
>Lake, Davis, Weber, and Utah Counties (80% of the population) are on
>145.79 now, after the gracious consent of the few voice users there.
>--
>73
>Doug
>KC7CO
>Radio Free Utah
>
>                            --------
>                            |       |
>                            |     #  ------
>                            |     RFU     |
>                            |             |
>                            |             |
>                            |             |
>                             -------------
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                   (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

591. Re: [APRSSIG:4063] Re: APRS @ 9600

From: ku0g@sprynet.com
Date: Mon, 26 Aug 1996 15:57:43 -0700
To: aprssig@tapr.org
Message-ID: <199608262257.PAA10165@m1.sprynet.com>
Rendered body type: text/plain

Tom Eagle (K0JPR) and I were discussing implementing high-speed inter-lan work
with APRS yesterday. He is converting an existing high-profile digipeater in
central Missouri (uses ROSE switch software) to a dedicated APRS WIDE digi.
Seems to me that the Rose/TheNet/NetRom/Etc. code writers could implement some
sort of automatic linking feature for UI frames specific to APRS....

We threw around the idea (it got bent up a bit...) about a mobile operator
entering a new network area looking to establish tracking. Here's what we came
up with:

1) New User signs on to network by issuing Beacon and Posit on VHF.

2) Smart Network (Rose, etc.) recognizes a previously unheard/new station on
frequency (or one that has timed out!) and issues a one-time "networking notice"
to the new users terminal using one-liner message indicating they are tied into
the network and instructions for accessing the linking capabilities of the
network through a digi path setting.

Comments?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

592. Re: [APRSSIG:4034] Re: APRS @ 9600

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 26 Aug 1996 19:16:32 -0400 (EDT)

To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608261930.A28006-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
It is not really 8 times more users, although the user count could go
up.  We must include the overhead involved in sending packets, which
includes header and tailers on the packets themselves.  TXdelay is
shortened, which helps some, but the real user count goes up something
less than 8 times.  I am for all PACKET going in the direction of 9600
bps and faster.  I run 9600 through two rigs at home and really enjoy the
high throughput of data.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Sun, 25 Aug 1996, Dale Heatherington wrote:

> On Sun, 25 Aug 1996 16:18:50 -0500 (CDT) you wrote:
>
> >Hi there,
> >Could somebody 'splain to me what the benefits of using 9600 are?  They have
> >to be more reasons to switch than just 8 times faster xmission.
>
> How 'bout 8 times more capacity.  9600 should support 8 times as many users
> as 1200 in the same bandwidth.
>
>
> --------------------------------------------------
> Dale Heatherington, WA4DSY
> e-mail - wa4dsy@wa4dsy.radio.org
> e-mail - daheath@ibm.net  (in case the first one doesn't work)
> Web page - http://www.wa4dsy.radio.org
> Running OS/2 Warp:  The only x86 operating system that
> is more stable than most people who use it.
>
```

593. Re: [APRSSIG:4066] Mac Mapping Program

From: "Daniel G. Morgan" <kml@conknet.com>
Date: Mon, 26 Aug 1996 19:50:47 +0000
To: aprssig@tapr.org
Message-ID: <32220017.7BFC@conknet.com>
Rendered body type: text/plain

```
Mike,

>>>>MacDLG v1.0 is now uploaded to the TAPR server. This is a Macintosh application
which generates APRS maps in both the DOS and Mac/Win file formats.<<<


This work you have done looks great! But I can't seem to find it.

Please, could you tell the exact URL where it can be found?

Dan ,W1UR
```

594. Read Message Screen

From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Date: Mon, 26 Aug 1996 20:23:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.07.9608262051.A11377-9100000@login>
Rendered body type: text/plain

```
When you toggle SCREENSAVER off, remember to check the READ MESSAGE SCREEN
before you QUIT APRS. Forgetting this important step has caused this old
timer to miss many messages.

A read message flag or, if there are active incomming or outgoing
messages, APRS could be made to "wake up" to the read message screen this
failed operator memory error would clear.


73s de Joe W8RIK, Columbus, Ohio
```

595. APRS77

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 26 Aug 1996 21:20:20 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960826211414.2641A-100000@arctic>
Rendered body type: text/plain

APRS77 has been under work for so long, that I sort of lost the bubble as to what all is new. Its time to get it out the door. Especially with the recently discovered bug with remote U-II's and stations with DAVIS instruments. I suggest that WX stations should get 77 and see if it does what I think. Then if it looks ok, everyone else can jump onboard. Its in tapr/SIG/files/upload. Also 76to77.zip is there also..

* New MAPFIX27.EXE cleans up some minor old glitches!
* Fixed DAVIS bug with remote U-II's
* Contains new WX parsing scheme for Natl Huricane Center
* Can now set WX-METRIC for KPH and Celsius formats
* Consolidated Prompt code to one subroutine. Hopefully transparent
* alt-S-OTHER-REDRAW can now set period independent of BEACON rate
* Increased L/P lists to 6 pages by eliminating the cabability to
  accept long L-LIST lines (used to accept up to 120 chars with line wrap)
* Added SPECIAL-RUNNER symbol ([). Changed BBS and TCPIP to B and I in
  circles.
* RV'w now show up when you do a JUST-MOBILES on the map or P-LIST

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

---

596. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: carlt@icanect.net (carl taylor)
Date: Mon, 26 Aug 1996 21:47:45 -0400
To: aprssig@tapr.org
Message-ID: <199608270147.VAA27688@foo.icanect.net>
Rendered body type: text/plain

>All of this talk about coordijnation and I still would like to include a
>definitive list of statest that have an official coordinaton for APRS. I
>asked this once beofre, and got no responses. I wwill add the
>coordination info to my MAPS.TXT file Based on comments so far, Here is
>what I know:
>
>Coordinated:
>Kansas 145.79
>Florida 145.79 WHAT part of Florida? South, middle or West?
>Northern Calif (145.01)
>
>
>I **THINK** that some of the following are coordinated, but have seeen no
>such confirming data...
>
>Michigan
>Ohio
>Georgia
>Maryyland
>Alabama
>New Jersey
>Connecticut
>Rhode Island
>Masachussets
>Virginia???
>North Carolina?
>Illinois?
>IOWA?
>Missouri?
>Hawaii?
>San DIego???
>
>IF YOU CAN SAY TAHT THE APRS FREQWUENCY IS OFFICIALLY SANCTIONED, then
>please let me know...
>
>Reply mail addr: wb4apr@amsat.org
>javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
Hi Bob-- several things....
1) All of Fla is coordinated on 145.79.. As luck goes.. i had been on aprs about 2 weeks, when i went to the state wide freq coord meeting.. I had enuf insight that aprs was going to go well, so i brought it up and got it assigned by the state group.
There were several simplex repeter links on the freq at that time.. Now it is solid aprs...

2) There is goingg to be a bunch of Magellen 5000A gps units available soon..About $150... External detachable ant,data out, aircraft data base (all the airport identifiers), cig lighter plug (8-32 volts) or interrnal batts...The only draw back is the data string is the arnav string.. abcd lines...

Is therre any way to use this unit as a stand-alone tracker??? Can the kpc-3 be made to read the string????

3) when i got my old call back (W9ZGU), you sent me my changed val number (93800), but, you did not send my the new gps number... PLEASE?????
The old call was KA4OPZ....

4) It looks loke i am going to be aeonautical mobile from fla to mich to Ore.to Tulsa
to san antone,tex and back to fla... I will be 145.79, 25 watts with a rubber duck on the window...I will try to monitor 146.52 simplex, voice while i am airborne, on an h/t.This will be aprox 6 day trip.. i will put it out on tahe sig as soon as plans are firm.. It should be in a week or 10 days...

Carl Taylor W9ZGU _ EX K4OPZ
carlt@icanect.net

THANKS! ! ! !
>
--
Internet Communications of America, Inc.

597. Re: [APRSSIG:4074] Re: APRS @ 9600

From: rbost@itexas.net (Roy Bost)
Date: Mon, 26 Aug 1996 21:12:06 -0500
To: <aprssig@tapr.org>
Message-ID: <19960827021421195.AAA67@rbost.itexas.net>
Rendered body type: text/plain

How would your proposed system handle a stand-alone tracker. Without a computer in the car he would not be able to get instrucrions.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

598. More on 77

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 26 Aug 1996 22:51:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960826224414.4256A-100000@arctic>
Rendered body type: text/plain

The new WX formats are for the MAP display. Using the command prefix WX-DISPLAY- you can select from several display options. These are displayed on the map in place of the station call...

```
   RAIN   Displays 2314/0.01"/987.6     Time/rain/baro
   WINDS  Displays 2314/035g040/987.6   time/winds/baro
   TEMPS  Displays 76'F/0.01"/987.6     Temp/rain/baro
   CALLS  Displays normal station call only
```

I added a GATES.BK which you can replay to see the HF gates of which I am aware. I know there are lots more out there, so send in your POSIT so I can add it to this file.

As usual if my DIGI-E, W, or SE.BK files do not show your area full time WIDE digis, send them to me too...

BUG REPORT: Argh, already found one. HEARD LOG doesn't reload from backup file!

Reply mail addr: wb4apr@amsat.org
javAPRS WEBPAGE: http://web.usna.navy.mil/~bruninga/aprs.html

599. Re: [APRSSIG:4079] Re: FREQ COORDINATION LETTER

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 26 Aug 1996 22:55:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960826225346.4256B-100000@arctic>

Rendered body type: text/plain

```
On Mon, 26 Aug 1996, carl taylor wrote:

> 2) There is goingg to be a bunch of Magellen 5000A gps units available
> soon..About $150... External detachable ant,data out, aircraft data base
> (all the airport identifiers), cig lighter plug (8-32 volts) or interrnal
> batts...The only draw back is the data string is the arnav string.. abcd
> lines...
>
> Is therre any way to use this unit as a stand-alone tracker??? Can the kpc-3
> be made to read the string????

APRSdos REPLY/COMMENT: PacComm used to make a commercial TNC that would do
it.  Maybe you can convnince them to turn it loose in the amateur market.

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

600. Re: [APRSSIG:4057] Re: WinAPRS v1.1.3 Wx bug?

From: rsellers@firecraker.com (Roger Sellers)
Date: Mon, 26 Aug 1996 23:04:57 -0600
To: aprssig@tapr.org
Message-ID: <1371021799-3696792@email.firecraker.com>
Rendered body type: text/plain

```
>Bob and the rest of the WinAPRS users
>
>I am responding to these comments so that everyone knows that I have read
>them and am working on them.
>
>Bug 1: Crash on more than 230 (approximate) stations
>       We have had this reported a couple of times and are investigating it
>       I have not found anything yet but hope to have it fixed soon
>
  Hi Keith, Just to let you know, I never make it to 230. I usually get a
crash around 130 but have seen 155 before a crash (once only).
 BTW,
    what is supported using a DFjr? I can only seem to get a DFjr shoowing
received signal. I can not get VHF port open nor get GPS data. What am I
doing wrong?

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

601. Re: [APRSSIG:4070] HP200 and packet

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Mon, 26 Aug 1996 21:11:07 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960826211128.095fa100@mailhost.primenet.com>
Rendered body type: text/plain

```
At 04:45 PM 8/26/96 -0500, dvelez@infi.net wrote:
>
>  Anyway, lurk around comp.sys.palmtops and you'll pick up a wealth of
>information.  There's even a FAQ put out there regularly.  I wish I could
>give you more information, but I'm sitting in the passenger terminal at the
>airport :)
>

Although this is self-serving on my part, I've found the perfect portable
computer to run mobile APRS, and that is the Dauphin DTR-1 (as seen on
comp.sys.palmtops!)

First they have an electroluminescent Mono VGA display which is highly
visible.  Second they run well off 12 volts DC directly.  Third, they are
small, about the size of a paperback almanac.  Fourth, they have a 9 pin
serial port buit in, so you don't have to buy a $100 "connectivity kit."
And fifth, it is a true PC compatible 486 computer that can run Windows.

Originally they sold new for about $2500, but used models go in the $400 to
$600 price range.  Sometimes you can find them for less, but not usually.

Here are some specs:
```

Cyrix 486 SLC 25 mHz processor
6 inch diagonal greyscale VGA display
Simultaneous display with desktop CRT (standard SVGA Port) 1 meg OAK SVGA adaptor built in
600 x 800 SVGA Color (or better possible) w/desktop CRT
40 meg HP "Kitty Hawk" HD (Low-Power Solid State replacement available from IBM)
Pen based or keyboard (Pen interface works well...done by Kurta)
Internal 2400/9600 data/fax modem
RJ45 Ethernet (optional)
4 meg static RAM standard upgradable to 6 meg
math co-processor option
floppy drive (on proprietary IDE port) (optional)

Weight w/o Portfolio Case and mini keyboard under 2.5 pounds!
9 x 5.5 x 1.25 inches w/o case or mini-keyboard!

Standard SVGA port, 9 pin serial port, 25 pin bi-directional printer port (yes It will run a Quick-Cam!),
PS2 keyboard port, RJ-11 modem port, and RJ-45 ethernet port (daughter card optional).

These are great for portable packet, Field Day, APRS. That's why I bought one. In fact, I tracked down and bought a "full-tilt" version because I liked the base model so much!

Here's what I'm selling:

One Base DTR-1 w/4 megs of RAM
Leather Portfolio Case
One DTR-1 NiMH battery (simple to roll your own replacement)
Mini-keyboard
Standard DTR-1 stylus
DTR-1 multi-volt AC adaptor/charger
DTR-1 manual
DOS 6.22 and Windows 3.11 preloaded
Laplink for DOS preloaded (use with any null-modem cable)

All in excellent condition.

$400 PPD COD anywhere in contiguous USA

I will consider offers or trades [radio equip., guns, a DF Jr. maybe :)]
The only flaw with this unit is that it is missing the slide cover for the display which has to be removed anyway to access the ports!

Peripherals such as the RAM upgrade, floppy drive, and ethernet card are still available from Surplus Technologies. I think the floppy drive is about $75 new.

If you don't buy it from me, this is a still a great little computer for APRS.

Mark Fellhauer - KC7BXS

---

602. Re: [APRSSIG:4080] Re: APRS @ 9600

From: ku0g@sprynet.com
Date: Mon, 26 Aug 1996 21:14:25 -0700
To: aprssig@tapr.org
Message-ID: <199608270414.VAA16456@m1.sprynet.com>
Rendered body type: text/plain

On Mon, 26 Aug 1996, rbost@itexas.net (Roy Bost) wrote:
>How would your proposed system handle a stand-alone tracker. Without a
>computer in the car he would not be able to get instructions.
>
>Roy Bost, N5TAM
>Granbury, Tx.

Good questions, Roy. Hadn't thought about that aspect, but it may be safe to say that most people traveling with APRS far away are probably going to be using laptops in the car, I suspect. Seems that people running trackers tend to stay close to their home network...

But an answer lies in TNC programming: Why couldn't the TNC manufacturers (read TAPR coders) simply write in a respond-to-query option? The Kantronics units already will respond to some sort of WX query. It shouldn't be too hard to handle, but I would assume that the user would have to be able to configure how the TNC would handle the responses...

I'll think more about this whole idea and post more notes later this week.....

LOOK OUT CHICAGOLAND! Karla and I will be APRS mobile across northwest and northern Illinois and all of Iowa and NW Missouri beginning Friday, 1530 CDT.

Our itinerary looks like this:
FRIDAY
1530 departure from Burlington Jct., Mo.
1550 depart St. Joseph, Mo (eastward on U.S. 36)
1830 Hannibal, Mo (US 36 to I-36 in Illinois)
1930 Jacksonville, IL (dinner call at the Depot!)
2030 depart Jax for Springfield, IL (I-36 then I-55)
2200 arrive Bloomington/Normal (probable motel time)

SATURDAY
0800 Depart Bloomington for Chicago (I-55 northward)
1000 Arrive Elgin, IL
1100 Arrive Union, IL (Illinois RR Museum, ride trains, Jim has fun, Karla gets bored...)
1700 Motel in Elgin, IL then commuter train mobile (with APRS, probably a tracker only...) downtown.

Evening on the lakefront, north shore, etc....

SUNDAY

Back to the lakefront (APRS Commuter Rail Mobile)
The Art Museum (Karla looks at art, Jim gets bored)
Shedd Aquarium (Look at the Baluga whales! Aren't they cute?)

MORE ITINERARY AS IT GETS DECIDED!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

603. Re: [APRSSIG:4059] Re: WinAPRS Maps

From: rwf <rwf@mindspring.com>
Date: Tue, 27 Aug 1996 00:25:01 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827042501.006ad160@atl.mindspring.com>
Rendered body type: text/plain

At 10:11 AM 8/26/96 -0500, KO4HD wrote:

>They work in javAPRS too!

Yes, one map that I made has been in use on the JavAPRS site in Atlanta since the beginning.

And I'm sorry you cant take the kidding about your WIDES down there in the South. Try not to take it so seriously. Smile, use humor, enjoy life (and this fantastic APRS hobby). Sorry you haven't been able to make it to any of the gatherings that I made it to down there. I'd like to meet to you in person.

Ralph

---

604. Re: [APRSSIG:4064] Re: APRS @ 9600

From: rwf <rwf@mindspring.com>
Date: Tue, 27 Aug 1996 00:25:04 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827042504.0069b6ec@atl.mindspring.com>
Rendered body type: text/plain

Gerry said:

>
>1. It is the way I anticipate most pakcet operation ot go, over time.
>2. 8x data rate, realizing about 6x performance improvement.
>3. More time for RTCM DGPS correction transmissions.
>4. Less time for collisions.
>5. harder to screw up the radio-TNC interface, because it takes some snap or
\>it doesn't work... You'd be surprised at the AFSK (1200 baud) signals I here
\>around here that have been set up "by ear" and the occasional complaints that
>"It don't work!"

Yes, and some TNC experts (and manufacturers) advocate setting levels by turning the deviation control up until you can't hear an increase and then backing off on it a bit. Not quite like setting it to the proper level at all.

The APRS-like system by ARNAV that I saw the FAA forcing helicopters to use during the Olympics was operating sucessfully at 9600 bps at 149 MHz , and they were tracking 110 moving aircraft, including sending them weather data.

I'd like to see a bit of 9.6 action on APRS myself. What type of method could we use to mix the traffic, but not the freqs? The GATE idea would require manual intervention (settings), wouldn't it?

Ralph

---

605. Re: [APRSSIG:4058] Re: WinAPRS Maps

From: rwf <rwf@mindspring.com>
Date: Tue, 27 Aug 1996 00:24:58 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827042458.0069bd60@atl.mindspring.com>
Rendered body type: text/plain

I have written 3 replies to the Velez message and deleted every one of them before sending, until now.

Velez quoted something from a VERY VERY VERY OLD TOUNGE IN CHEEK MESSAGE I wrote a long time ago (it was a joke, folks- that's why the quotation marks were included):

>
\>>>Why would a MacAPRS user want to read an "inferior" DOS map anyway?
\>>>Are you saying it "should" read them? Or do you "need" to read
\>>>them. Or would you just "like" to read them. I think the point is
>>>"moot" (debatable)
>><SNIP>

And then added this insulting comment to it

>>
\>>Exactly. Let's stick to enhacing the programs we have at our disposal, ALL
\>>of them. Keep the personal jabs out of it...
>>
>

And then apologized (sort of) for replying to such an old message, which was taken out of context in the first place.

Then Mark saw all of it and wrote this:
>
>
\>MacAPRS and WinAPRS both completly handle dosAPRS maps, they just work. I
\>have seen some very nice DOS maps and they have there place even in
\>Mac/WinAPRS.
>
>

Which I agree with and was kidding about in the first place! As I recall, WinAPRS supported them from the time it left the gate (or right after). I am a registered user of both programs, even have the CD. I was making light of the fact that many users of one platform are always riding the users of whatever other platform there is. ie: Commodore 64 / TI-994A Mac/PC whatever.

As a matter-of-fact, I DIDN'T EVEN SAY THAT. Someone else quoted me on the first line and added the second part of his own, and then the person who brought it up again mistakenly attributed it all to me, thereby misquoting me.

Sorry for the bandwidth, but folks really should watch what they quote as not to misquote someone else.

Ralph

```
>Mark
>
>___________________________________________________________________________
>Mark Sproul                      |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |
>sproul@ap.org                    |Work: 609-860-7120
>North Brunswick, NJ              |Fax:  609-860-7129
>http://msproul.rutgers.edu/
>___________________________________________________________________________
>
>
>
>
```

---

606. Re: Mac Mapmaking Program

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 27 Aug 96 01:27:27 EDT
To: <aprssig@tapr.org>
Message-ID: <960827052726_71301.3106_FHJ53-1@CompuServe.COM>
Rendered body type: text/plain

Dan asks:

\>Please, could you tell the exact URL where it can be found?

Oops. I thought "everyone" <g!> knew about the "upload" area on the TAPR server. That's usually where you'll find new stuff. The URL is:

  ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/MacDLG%201.0.sea.hqx

Occasionally new things are found in the categorized file areas, but that's normally only done by the folks who have broader privileges on the server than us mortals. We are understandably limited to the "upload" directory.

...mike/N0QBF
71301.3106@compuserve.com

---

607. Re: [APRSSIG:3994] FREQ COORDINATION LETTER

From: DEEATON@aol.com
Date: Tue, 27 Aug 1996 01:35:24 -0400
To: aprssig@tapr.org
Message-ID: <960827011122_466164592@emout10.mail.aol.com>
Rendered body type: text/plain

I do I do I do hihhihihihihi

---

608. Arizona Digital Coordinator, etc.

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Mon, 26 Aug 1996 22:48:43 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960826224907.09976978@mailhost.primenet.com>
Rendered body type: text/plain

I attended Ft. Tuthill's packet committee meeting this year and am pleased to announce that
Dan Meridith, N7MRP, is now the ARCA digital frequency coordinator. This should alleviate some of the problems we had with our last coordinator (who shall remain nameless) down in Tucson...who didn't like APRS. Dan has been an ally of APRS in the past. And he respectfully requests that you notify him before putting any digi's, nodes, etc. on the air.

Other good news in Arizona:

The ARA (Arizona Repeater Assoc.) is considering a valleywide (Phoenix) APRS digi on 145.79 (let's get them rolling!) It would be good to have the "big guns" of the ARA in our corner since they (we) have the sites, the equipment, the techs, and the $$. I am a member, and I encourage all central AZ hams to join the ARA. I think that it is still the largest repeater group in the U.S. Heck, what other RG offers so much, while asking for so little. Who else provides 5 open autopatches on 19 repeaters for 18 bucks a year! An APRS digi would be great since we left the 147.1 (+) experimental digital mode repeater. The binaries and RTTY were playing havoc with my APRS anyway...

The Thunderbird ARC has authorized funds to upgrade their 2 meter repeater. Improvements include a REAL antenna with real gain, a better power supply, and a better pre-amp and more tx power. This repeater is located on Phoenix General Hospital (Beardsley & I-17) on 145.43 (-). No PL for now. Future upgrades may include an open autopatch and APRS functions. Wednesday night net at 7:00 PM. As usual, check-ins get a free raffle ticket at the next general meeting. Note: last meeting I attended all prizes were won by people who checked in on the net, including me (g). This repeater is open to all. Voice and packet (for now) welcome.

Bad News in Arizona:

The ARA has taken the 9600 baud experimental digital mode repeater off-line...for now. This lead to a near shouting match at Ft. Tuthill. And came at a perfect time for me since I bought that Spirit-2 TNC! (Grrr...) Perhaps some complaining and a little tech help will get it back up. I hope so.

The Packet/Internet Gateway is still down, and will be until September or October.

The Dragonflye Charter School has had problems financially and with internal politics. Any plans for a ThunderBird ARC sponsered APRS Digi there are on indefinate hold. I'm still looking for a site!

Recent major storms have left Phoenix (and AZ) in a shambles. Many repeaters have been downed due to lightning and days w/o external power. Most of this happened while I was on vacation in South Dakota where the weather was excellent, so I missed the great power outage and the class 3 hurricane! In my 11 days in SoDak we had about 20 minutes of rain. I got up to Burqhardt's (sp?) Amateur Radio in Watertown. A ham radio store in a house, how odd. But a very good selection of used gear. South Dakota was a bust for me packetwise. My friend's apt. (KB0WSV) in Sioux Falls sits in an RF hole. I could hear faint packets but could copy none. It seems there is very little, if any APRS activity in Sioux Falls.

I did get a nice tour of the Midwest courtesy of Northwest Airlines on the way home. It seems they had some labor problems in Minneapolis, leaving me and about 1000 other people stranded in hotels there for the night. Again I had no luck with APRS, although it was past 11:00 pm when I got to the Airport Hilton. I did get in a little repeater monitoring though. The next day it was off to Chicago with an extensive layover in O'Hare. But not long enough to go anywhere in town -- I used to live in the Dearborn Market Building (2 E. 8th St.), so I know Chicago. Again no APRS activity. I finally got home to Phoenix after flying about 2000 miles out of my way. Northwest wanted to fly me through Memphis, on standby all the way! Heck I'd still be someplace else if I left it up to Northwest. I'm not sure where my luggage went, but it finally got back to me too.

And with today's heightened paranoia Airport-wise, it was a major hassle to carry on two DTR-1 computers, a scanner, a dual-band HT, several antennas, a TNC and other miscellaneous Ham equipment. Not to mention that KB0WSV sent me back with more gear than I came with! Every gate I went through I was met with the cry of "Hand Check!" by airport security! The DTR-1's did create quite a hit with all the guards though. Most had never seen a palmtop 486. Unpacking, powering up, and explaining all that gear was comical. Youda thunk they'd never seen a gear-head before. Heck they had the metal detectors cranked so high that the speedlaces on my hiking boots were setting them off.

Well, I've rambled on long enough.

73,

Mark
KC7BXS

---

609. memory leak in win 95 kernel

From: henryvb <henryvb@dpliv.com>
Date: Tue, 27 Aug 1996 02:31:06 -0500
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <3222A43A.42A6@dpliv.com>
Rendered body type: text/plain

Someplace in APRSSIG Digest 665 Hasan wrote:

> or WinAPRS has a memory leak.

no, but win 95 does:

(This came from one of those free tips that I get every morning)

SON OF MEMORY LEAK
http://www.microsoft.com/windows/software/krnlupd.htm
If you open and close a lot of programs -- especially ones that use Windows sockets like Internet applications -- you may experience a slow loss of available system memory in Windows 95. After hours of use, this problem can in some cases degrade performance or cause the system to go down (kinda makes you nostalgic for Windows 3.1 doesn't it?). The fix: upgrade your Kernel32 with the file dated April 1996, available for downloading from the Microsoft site.

Henry
N9WMM

---

610. Re: [APRSSIG:4008] Garmin-38

From: mbary@nmaa.org (Mark L. Bary)
Date: Tue, 27 Aug 1996 07:42:29 -0700
To: aprssig@tapr.org
Message-ID: <32230955.7CAA@nmaa.org>
Rendered body type: text/plain

John E Santmire wrote:

> 3. and any other good stuff about it, OR even the BAD?

John,

After reading some of the responses you've already received on the SIG, I just want to add that if you want to run the 38 from external power you must provide a regulated source of from 5 to 8 Vdc. The 45 will accept power from a source of from 5 to 40 Vdc, making it much simpler to plug into, say, a cigarette ligher in your vehicle...., or a 12V Gell Cell which is also powering your TNC and radio for a stand-alone tracker setup!

I purchased a GPS-45XL at a hamfest for $260.

Whichever one you decide to get I hope you enjoy it as much as I've been having a blast with mine!

73

Mark
N4EOC
Germantown, MD

---

611. Re: DFjr and GPS-20 (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Aug 1996 09:36:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960827093342.28368D-100000@arctic>
Rendered body type: text/plain

Following solved one users problem between the GPS-20 and the DF-jr. The GPS-20 output is TRUE RS-232 levels not 0 and 5 as are most NMEA devices. SO in this case, he used a diode to pass only the positive excursions of the TRUE RS-232 so that it looked more like NMEA...

From: "Ralph R. Swick"<swick@x.org>

Out comes the 'scope (shoulda done this yesterday!) and Bob is (no surprise) right. GPS-45 is 0v to +5v, GPS-20 is -7.5v to +8v (not bad for +5 in!). A small-signal diode in the xmit line between the -20 and the DFjr fixes the problem very nicely. Tomorrow I'll build this diode into the DB-9 case on my DFjr multi-port adapter cable.

DFjr is now happily reading $GPRMC from the GPS-20.

73 de Ralph kd1sm
kd1sm@x.org (w)
kd1sm@zipnet.net (h)

612. Suggestions for mounting laptop in car?

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 27 Aug 1996 9:28:03 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960827092803.2041a4ca@exame2.dseg.ti.com>
Rendered body type: text/plain

I'm about to undertake the task of mounting a laptop computer in the car, and
would appreciate any comments about the "must dos" and "don't dos" that those
who have gone before have found.

Would like for the laptop to be easily accessible to both the driver and front
seat passenger (though not necessarily at the same time) and easy to install
and remove from the vehicle.

Car is a 1994 Chevy Caprice. Laptop is a TI 4000E. I already have a stack of
three radios located under the dash on the transmission hump, so that area is
probably out.

Any suggestions would be greatly appreciated.

73 Claude
K5DTN
chead@exame2.dseg.ti.com

---

613. Re: [APRSSIG:4094] Re: DFjr and GPS-20 (fwd)

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 27 Aug 1996 10:51:41 -0700
To: aprssig@tapr.org
Message-ID: <322335AD.21E1@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:

> Following solved one users problem between the GPS-20 and the DF-jr. The
> GPS-20 output is TRUE RS-232 levels not 0 and 5 as are most NMEA devices.
> SO in this case, he used a diode to pass only the positive excursions of
> the TRUE RS-232 so that it looked more like NMEA...
>
> From: "Ralph R. Swick"<swick@x.org>
>
> Out comes the 'scope (shoulda done this yesterday!) and Bob is
> (no surprise) right. GPS-45 is 0v to +5v, GPS-20 is -7.5v to +8v
> (not bad for +5 in!). A small-signal diode in the xmit line
> between the -20 and the DFjr fixes the problem very nicely.
> Tomorrow I'll build this diode into the DB-9 case on my DFjr
> multi-port adapter cable.
>
> DFjr is now happily reading $GPRMC from the GPS-20.
>
> 73 de Ralph kd1sm
> kd1sm@x.org (w)
> kd1sm@zipnet.net (h)

Hi Bob,

Thanks for your assistance Bob.

We are getting ready to do a revision of the MPA with a nice DB-9/F to DB9/M
enclosure with a jack for the GPS,DFjr & PTT. Before we do this...do you have any
request? Looks like adding a diode with a jumper for "REAL" RS-232 data is necessary

Another subject, last nite I was out mobilin around and was unable to get the DFjr
bearing lines to show up on a DOSAPRS map, the GPS and PACKETS were fine. I followed all
the instruction in the readme/df.txt file to a "T", ALT-S-DF-DFjr, ALT-S-GPS-SPM,
ALT-S-SAVE-JDA, Also I kept hearing a blip! about every 2 seconds. I admit I'm very
rusty with DOSAPRS...it's been a while;-) Oh! Did I forget to mention...I was using the MPA.

PS-I lost my manual (again in the move), I need extra crimp pins & connector, where can I get
them kinda quick?

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "

```
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

614. Re: [APRSSIG:4094] Re: DFjr and GPS-20 (fwd)

From: BordingK@aol.com
Date: Tue, 27 Aug 1996 11:18:03 -0400
To: aprssig@tapr.org
Message-ID: <960827111802_395118596@emout18.mail.aol.com>
Rendered body type: text/plain

```
Bob:
   Will this same diode be required with the MIM module when getting data
from the GPS-20?

De KF4COH
```

615. Re: [APRSSIG:4096] Re: DFjr and GPS-20 (fwd)

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 27 Aug 1996 12:09:31 -0700
To: aprssig@tapr.org
Message-ID: <322347EB.C02@concentric.net>
Rendered body type: text/plain

```
Joe Agrelo wrote:

> PS-I lost my manual (again in the move), I need extra crimp pins & connector, where can I get
> them kinda quick?

I mean for the Garmin GPS-20 board!

This was actualy meant for Bob directly, but I don't see any damage to the SIG here. Maybe
others can benefit too.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

616. Arizona APRS

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Tue, 27 Aug 1996 09:36:24 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960827093356.2004C-100000@willow>
Rendered body type: text/plain

```
The Motorola Amateur Radio Club will have a dedicated APRS digipeater in
operation in about 2 weeks after some tower repair is completed.  It will
be located in Tempe and the call will be KC7KJK.  Actually it is up and
running in my garage for testing purposes, but with no elevation, it
doesn't hear too well.

Chris, AA7WD
```

617. DFjr, GPS-20 and GPS45 : beware!

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 27 Aug 1996 13:11:44 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827171144.006fb97c@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Following solved one users problem between the GPS-20 and the DF-jr.  The
> GPS-20 output is TRUE RS-232 levels not 0 and 5 as are most NMEA devices.
> SO in this case, he used a diode to pass only the positive excursions of
> the TRUE RS-232 so that it looked more like NMEA...
>
> From: "Ralph R. Swick"<swick@x.org>
>
> Out comes the 'scope (shoulda done this yesterday!) and Bob is
> (no surprise) right.  GPS-45 is 0v to +5v, GPS-20 is -7.5v to +8v
> (not bad for +5 in!).

The Garmin GPS 45 NMEA is *NOT* 0v and +5V (not all the time). When the GPS
45 is powered with 12v or more the NMEA output will rise to ~11v!

NMEA 0183 suggests (but doesn't require) that the signal complies with RS
422 (0 and 5v), but also specifies that any listener (device that receives
NMEA data) should be able to handle RS 422 *and* RS 232 (-12v to +12v) as
well. Previous NMEA norms specified RS232 as signal levels.

Be particularly careful when connecting a GPS 45 (and other GPS too) to a
microcontroller (stamp, PIC, 68HC11 ...) that can only take TTL levels!

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

---

618. Re: [APRSSIG:4089] Re: Mac Mapmaking Program

From: Dick Mead <mead@hamal.usc.edu>
Date: Tue, 27 Aug 96 10:19:43 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.841166383.mead@hamal.usc.edu>
Rendered body type: text/plain

```
Nice work, Mike. Thanks.

Tried it out on a 40Mhz 040 Quadra, just under 170k points with all
selections chosen (a 10-mile radius centered on my Pasadena QTH)

Took 2 hours, looks nice.


Dick WB6NGC
```

---

619. Re: [APRSSIG:4096] Re: DFjr and GPS-20 (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Aug 1996 13:43:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960827133900.8344D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 27 Aug 1996, Joe Agrelo wrote:

> We are getting ready to do a revision of the MPA with a nice DB-9/F to DB9/M
> enclosure with a jack for the GPS,DFjr & PTT. Before we do this...do you
> have any request? Looks like adding a diode with a jumper for "REAL"
> RS-232 data is necessary.

*** I donno, why would the DFjr care whether there is negative pulses or
zero.  Only the + pulses count anyway, so Im curious why the DFhr does not
like real RS232...?

> Last nite I was out mobilin around and was unable to get the DFjr
> bearing lines to show up on a DOSAPRS map, the GPS and PACKETS were fine.
> I followed all  the instruction in the readme/df.txt file to a "T",
> ALT-S-DF-DFjr, ALT-S-GPS-SPM, ALT-S-SAVE,...

APRSdos REPLY/COMMENT:  Did my control line (TAB) show DFjr in uppercase
meaning it was all happy with the GPS and DF validation numbers?


Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

620. Re: [APRSSIG:4097] Re: DFjr and GPS-20 (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Aug 1996 13:46:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960827134556.8344F-100000@arctic>
Rendered body type: text/plain

```
On Tue, 27 Aug 1996 BordingK@aol.com wrote:

>    Will this same diode be required with the MIM module when getting data
> from the GPS-20?

APRSdos REPLY/COMMENT:  No, the MIM/MIC encoder accepts either kind of
data...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

621. APRS77 Again

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Aug 1996 14:26:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960827142321.18423A-100000@arctic>
Rendered body type: text/plain

```
I reported an anomoly in 77 that does not reload the HEARD log from a
backup file.  Now I cannot reproduce the problem...  So there must be a
special circumstance when this must occurr and not always.  So if you
catch it in the act, help me figure out what you did that caused it...
And can you REPRODUCE the error?...

Reply mail addr:  wb4apr@amsat.org
javAPRS WEBPAGE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

622. Re: [APRSSIG:4100] DFjr, GPS-20 and GPS45 : beware!

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 27 Aug 1996 14:53:58 -0700
To: aprssig@tapr.org
Message-ID: <32236E76.140@concentric.net>
Rendered body type: text/plain

```
Bernard Seront wrote:
>
> Bob Bruninga wrote:
> >
> > Following solved one users problem between the GPS-20 and the DF-jr.  The
> > GPS-20 output is TRUE RS-232 levels not 0 and 5 as are most NMEA devices.
> > SO in this case, he used a diode to pass only the positive excursions of
> > the TRUE RS-232 so that it looked more like NMEA...
> >
> > From: "Ralph R. Swick"<swick@x.org>
> >
> > Out comes the 'scope (shoulda done this yesterday!) and Bob is
> > (no surprise) right.  GPS-45 is 0v to +5v, GPS-20 is -7.5v to +8v
> > (not bad for +5 in!).
>
> The Garmin GPS 45 NMEA is *NOT* 0v and +5V (not all the time). When the GPS
> 45 is powered with 12v or more the NMEA output will rise to ~11v!

The DFjr uses a MAX232 chip to convert the GPS signal to TTL. The Garmin GPS-45
works ok, and the Garmin GPS-20 requires the diode. Someone else has a Trible
Scoutmaster (-9/+8.5v) and can't get that to work even with a diode.

> NMEA 0183 suggests (but doesn't require) that the signal complies with RS
> 422 (0 and 5v), but also specifies that any listener (device that receives
> NMEA data) should be able to handle RS 422 *and* RS 232 (-12v to +12v) as
> well. Previous NMEA norms specified RS232 as signal levels.
>
> Be particularly careful when connecting a GPS 45 (and other GPS too) to a
> microcontroller (stamp, PIC, 68HC11 ...) that can only take TTL levels!
>
> Bernard, KB2TGH.
>
> -----
> Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
> http://rock.ess.sunysb.edu:8080/

Thanks for your advise Bernard.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
```

```
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

623. RE: [APRSSIG:4097] Re: DFjr and GPS-20 (fwd)

From: "William I. Clement" <wclement@the-hermes.net>
Date: Tue, 27 Aug 1996 14:30:49 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB9428.06A1F2A0@apollo-23.the-herms.net>
Rendered body type: text/plain

```
No,  the MIM module's RS-232 connections already have transistors to invert the
RS-232 to the proper sense and limit the voltage to the PIC processor chip.  Serial
output from the MIM to your PC (for configuration purposes) is limited to 0-5v, but
this works fine.

Dr. Will Clement, N3XLM, President
Clement Engineering, Inc.
(410) 518-6591


----------
From:   BordingK@aol.com[SMTP:BordingK@aol.com]
Sent:   Tuesday, August 27, 1996 6:37 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:4097] Re: DFjr and GPS-20 (fwd)

Bob:
   Will this same diode be required with the MIM module when getting data
from the GPS-20?

De KF4COH
```

---

624. Six meter APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Aug 1996 15:33:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960827151052.24008B-100000@arctic>
Rendered body type: text/plain

```
There has been some discussion on using 6m radio to form APRS backbones.
But there is no easy way, until someone comes up with a level 4 routing
mechanism for UI packets.  But in the meantime, there is plenty of
potential for using such 6m/UHF crosslinks for remote access as follows:

You live in a valley.  Even though you have installed an APRS 2m WIDE on
top of the mountain, you only see X numbers of stations.  The only
stations you will see digipeated are those that still had an unused WIDE
in their paths.  Assuming no one is exceeding the recommended
WIDE,WIDE, you will see stations only 1 hop beyond your digi.

BUT your mountain WIDE DIGI IS SEEING lots of other APRS packets
that have already been digipeated twice (their LAST time).  If you simply
hooked the audio of the 2m-WIDE receiver to the audio transmitter on
UHF/6m, then on your valley radio on UHF/6m you would see all of those
packets TOO.  In other words, you use the 6m/UHF link as a crossband audio
repeater so you can hear EVERYTHING that can be heard on the mountain top,
not just those one-hop packets that will be digipeated by your WIDE.

In essence, you have just extended your RECEIVE range by another WIDE hop
in all directions. (In APRS, you normally have NO control over your
receive range, since paths are determined by the sender...)  Here you can
extend everyone in the valleys hearing range by a full hop!

Simiilar you are encouraged to NOT TRANSMIT beyond WIDE,WIDE.  Well,
again, put a 6m/UHF link into the 2m transmitter on the mountain,
and then your packets will go out from the mountaintop with the WIDE,WIDE
still intact, instead of using up one of them just to get to the mountain!

So This is where I see the first advantage to 6m and UHF.  The SNR on the
links must be very good to preserve the audio, but if done correctly, it
will give everyone with a UHF/6m scanner an additional DX receive
capability!  The transmit side is trickier, since you want to have DCD
active on the 2m freq so that your LINK packets dont collide...

We need some folks thinking about ways to use these other band
```

```
frequencies...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

625. Re: [APRSSIG:4106] Re: DFjr and GPS-20 (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 Aug 1996 15:57:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960827155600.24008D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 27 Aug 1996, William I. Clement wrote:

> No,  the MIM module's RS-232 connections already have transistors to invert
> the RS-232 to the proper sense and limit the voltage to the PIC processor
>
> Dr. Will Clement, N3XLM, President
> Clement Engineering, Inc.
> (410) 518-6591

APRSdos REPLY/COMMENT: Here is the MIM/MIC man himself, who has now joined
the SIG.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

626. Re: [APRSSIG:4105] Re: DFjr, GPS-20 and GPS45 : beware!

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Tue, 27 Aug 1996 17:50:46 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827215046.0070dbfc@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
>The DFjr uses a MAX232 chip to convert the GPS signal to TTL. The Garmin GPS-45
>works ok, and the Garmin GPS-20 requires the diode. Someone else has a Trible
>Scoutmaster (-9/+8.5v) and can't get that to work even with a diode.
>
This is really strange!

There's no reason to use a diode as far as the MAX232 is concerned, it
should work with the GPS20 or the scoutmaster right away.
I have a data sheet for the MAX232 (actually the DS14C232, which is the
National semiconductor clone of it) in front of me:

The spec for the receiver input (which is the RS232 to TTL conversion part
of the MAX232) are:
-everything lower than 0.8V down to -25V is an input low (logical 1)
-everything higher than 2.6V up to +25V is an input high (logical 0).

This complies with the TIA/EIA-232-E norm, and should work perfectly with
all the kinds of NMEA signals out there.

Maybe the symptoms observed are related to something else?

Bernard, KB2TGH

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

627. DCC Update

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 27 Aug 1996 17:15:39 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199608272215.RAA19670@tapr.org>
Rendered body type: text/plain

```
If you are in the NW, don't forget the Keith Sproul is putting on one of the
three workshops at the DCC this September.

Cheers - Greg, WD5IVD

-----


1996 ARRL and TAPR Digital Communications Conference
September 20-22, 1996
```

Seattle, Washington (minutes from SeaTac airport)

The 15th Annual ARRL and TAPR Digital Communications Conference is almost here. The 1996 ARRL and TAPR Digital Communications Conference will be held on September 20-22, 1996 in Seattle, Washington. This year's conference location is just minutes away from the SeaTac (Seattle/Tacoma) Airport.

Full information is available on TAPR Web Page http://www.tapr.org

The 1996 ARRL and TAPR Digital Communications Conference is co-hosted by the Puget Sound Amateur Radio TCP/IP Group and Boeing Employees Amateur Radio Society (BEARS).

Not only is the Digital Communications Conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any of the ham digital communications modes. The ARRL and TAPR Digital Communications Conference is for all levels of digital operators -- a must conference to attend to get active on a national level. Abstracts for the papers are now available on the TAPR web page.

The conference is not just for the digital expert. This year's conference will again provide an entire morning with beginning and intermediate presentations on selected topics in digital communications. Some of the topics will include: APRS, Satellite Communications, TCP/IP, Digital Radio, Spread Spectrum and other introductory topics. Come to the conference and hear these topics presented by the experts! Don't miss this opportunity to listen and talk to others in this area.

In addition to the presentation of papers on Friday and Saturday, three workshops will be held during the conference. Keith Sproul, WU2Z, will hold a workshop on APRS packet-location software. On Sunday, Dewayne Hendricks, WA8DZP , will conduct a workshop focusing on "How to utilize Part 15 wireless Radios for Ham Applications." A second Sunday workshop will focus on Wireless Networking using the WA4DSY 56K RF modem Technology.

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road #337, Tucson, AZ 85749-9399. Phone: (817) 383-0000. Fax: (817) 566-2544. Internet: tapr@tapr.org Web: www.tapr.org

Conference presentations, meetings, and workshops will be held at the Quality Inn Seattle Airport, a complex co-located with the Radisson Hotel Seattle Airport. When making reservations with the hotel, be sure to indicate you are attending the ARRL and TAPR DCC conference. The hotel provides transportation to and from SeaTac Airport. You should contact the hotel to arrange airport transportation.

Quality Inn Seattle Airport (conference hotel)
17101 Pacific Highway South, Seattle, WA, 98188
(206) 246-7000, Fax (206) 246-1715

Radisson Hotel Seattle Airport (alternate hotel)
17101 Pacific Highway South, Seattle, WA, 98188
(206) 244-6000, Fax (206) 246-6835

---

628. Re: [APRSSIG:4095] Suggestions for mounting laptop in car?

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 27 Aug 1996 18:25:55 -0400
To: aprssig@tapr.org
Message-ID: <322375F3.2ED0@global2000.net>
Rendered body type: text/plain

Claude 995-5040 pager 4541 wrote:

>
> I'm about to undertake the task of mounting a laptop computer in the car, and
> would appreciate any comments about the "must dos" and "don't dos" that those
> who have gone before have found.
>
> Would like for the laptop to be easily accessible to both the driver and front
> seat passenger (though not necessarily at the same time) and easy to install
> and remove from the vehicle.
>
> Car is a 1994 Chevy Caprice. Laptop is a TI 4000E. I already have a stack of
> three radios located under the dash on the transmission hump, so that area is
> probably out.
>
> Any suggestions would be greatly appreciated.
>
>   73 Claude

```
>      K5DTN
>      chead@exame2.dseg.ti.com


Try using a long flexible gooseneck type car phone mount. A piece of
plywood the size of your laptop and some velcro or elastic and your in
bbusiness.

73

John << N2OJY >>
```

---

629. Shirts

From: KD4EMI@aol.com
Date: Tue, 27 Aug 1996 18:37:42 -0400
To: aprssig@tapr.org
Message-ID: <960827183740_511092818@emout10.mail.aol.com>
Rendered body type: text/plain

```
FYI

Recived lots of, checks in the mail but as of last night, only recieved 2
checks.

If your interested in a polo aprs shirt...Mail $21.00 to
Mike Kantor KD4EMI
741 Lyons Road #17204
Coconut Creek, FL    33063
Its 1st come 1st served...After the first 24, I'll wait to order more..
Hope to hear from you..
(oh shirts will ship probably NEXT Friday)
Mike
```

---

630. 7.6f bug ?

From: KD4EMI@aol.com
Date: Tue, 27 Aug 1996 18:37:49 -0400
To: aprssig@tapr.org
Message-ID: <960827183749_511092910@emout17.mail.aol.com>
Rendered body type: text/plain

```
I noticed yesterday, quite by accident, a strange event..
(with aprs ! )

I exitied the program,  then booted windows.

After I was done, I just loaded windows term to play with the tnc, and saw
that the unproto on my KAM was changed to RELAY on HF and VHF ?

I checked the inittapr and restore file.
No mention of relay at all ...
it seems as though  APRS changed my kam to relay, and I cant figure out why.
 I never had bothered to check it, Assumed it was fine. So I wonder, next
time you exit 76F, go to a terminal program, and check your unproto path to
see if it is ok..  Id like to figure out why this happened ?
Mike
KD4EMI@AOL.COM
```

---

631. Re: [APRSSIG:4093] Re: Garmin-38

From: rwf <rwf@mindspring.com>
Date: Tue, 27 Aug 1996 19:10:20 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827231020.006892f8@atl.mindspring.com>
Rendered body type: text/plain

```
At 07:57 AM 8/27/96 -0500, Mark, N4EOC wrote:


The 45 will accept
>power from a source of from 5 to 40 Vdc, making it much simpler to plug
>into, say, a cigarette ligher in your vehicle...., or a 12V Gell Cell
>which is also powering your TNC and radio for a stand-alone tracker
>setup!

Amen!  Although I did not use a 45 on the BTTR flight Saturday, the wide
voltage range of the Garmin 35 made it easy to run it on the 28 volt Cessna
337 power suystem.  Plugged right into the 28v cigarette lighter jack  and
worked fine!
```

Ralph

---

632. Re: [APRSSIG:4095] Suggestions for mounting laptop in car?

From: rwf <rwf@mindspring.com>
Date: Tue, 27 Aug 1996 19:10:22 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960827231022.0068c004@atl.mindspring.com>
Rendered body type: text/plain

Claude-

I have been looking for the same thing. I can offer that the mounts used in
a lot of Po-Lice cars is made be Gamber-Johnson. I hear it is expensive.

I think I am going to roll my own. My only advice is to support the top,
hinged part of the laptop so that hinge won't break!

Ralph

At 09:39 AM 8/27/96 -0500, you wrote:
>I'm about to undertake the task of mounting a laptop computer in the car, and
>would appreciate any comments about the "must dos" and "don't dos" that those
>who have gone before have found.
>
>Would like for the laptop to be easily accessible to both the driver and front
>seat passenger (though not necessarily at the same time) and easy to install
>and remove from the vehicle.
>
>Car is a 1994 Chevy Caprice. Laptop is a TI 4000E. I already have a stack of
>three radios located under the dash on the transmission hump, so that area is
>probably out.
>
>Any suggestions would be greatly appreciated.
>
> 73 Claude
>   K5DTN
>   chead@exame2.dseg.ti.com
>
>
>

---

633. Mac Mapmaking Program

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 27 Aug 96 20:03:37 EDT
To: <aprssig@tapr.org>
Message-ID: <960828000337_71301.3106_FHJ77-1@CompuServe.COM>
Rendered body type: text/plain

Thanks, Dick. Always happy to hear that it works for somebody other than me.
Programmer paranoia is fear of your code crashing and burning the moment you
let it loose.

>170k points with all
>selections chosen (a 10-mile radius centered on my Pasadena QTH)

Can you say "stress testing"? ;-)

For those of us who are interested in using MacDLG to catch up on some
long-desired mapping projects, you might want to hold off until the next
maintenance release. It turns out that what I thought was a "memo field" in the
internal Mac/Win file header is going to become very important, and the 1.0
release has this field wrong. On Keith Sproul's advice this has been corrected.

This problem does not affect the way the maps work now, but I wouldn't make a
big investment in a Mac/Win mapmaking project with MacDLG 1.0 because it is
likely that they won't work in future Mac/WinAPRS versions.

On the plus side, the next release of MacDLG will use a heretofore hidden
feature of MacAPRS, the ability to display thicker lines. This has already been
added to the development version, with Interstates, US and state highways
getting the "bold" treatment.

>Took 2 hours...

I had a bad case of publisher's remorse last night when an inspiration hit on
how to greatly improve optimization speed. I think I can get it down to well

```
under an hour for a map of 150-200K points. However, the maintenance release
correcting the "memo field" problem may have to come before the revised
optimizer is working.

  ...mike/N0QBF
     71301.3106@compuserve.com
```

---

634. MAXON RADIOS!

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 27 Aug 1996 21:14:59 -0700
To: aprssig@tapr.org
Message-ID: <3223C7C3.5D45@concentric.net>
Rendered body type: text/plain

```
APRS people,

Several months ago...there was a stream of conversations about Maxon
radios for sale. I have lost those conversations and wondered if anyone
has any info on them? or if anyone wants to get rid of theirs? Was there
any problems with them? etc...

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

635. Re: [APRSSIG:4117] MAXON RADIOS!

From: William Nolle <wa8inz@cris.com>
Date: Tue, 27 Aug 1996 21:46:14 -0700
To: aprssig@tapr.org
Message-ID: <3223CF16.C17@cris.com>
Rendered body type: text/plain

```
Joe Agrelo wrote:
>
> APRS people,
>
> Several months ago...there was a stream of conversations about Maxon
> radios for sale. I have lost those conversations and wondered if anyone
> has any info on them? or if anyone wants to get rid of theirs? Was there
> any problems with them? etc...
>
> Thanks!
>
> 73 De Joe N2OOC (new address & phone effective 8/15)

Joe i got one of those and they work great, no more available though. The
fellows name was Mark Endicot (Not sure of spelling) from Nashville. I
keyboard with him sometimes from my QTH. The one i have is more then litely
going into a balloon in the very near futare.
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

---

636. Re: [APRSSIG:4117] MAXON RADIOS!

From: Miami Network <0004818186@mcimail.com>
Date: Tue, 27 Aug 96 22:14 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <82960828031428/0004818186NA3EM@MCIMAIL.COM>

Rendered body type: text/plain

I have one of the Maxon Radios with the APRS Frequency TX Crystal
installed but I have not calibrated it yet as per the instructions.

The radio is new and has not been used. Cost is $60.00 and I'll pay
for shipping.

73, Seymour, KC4NMY
miaminet@mcimail.com

---

637. Virus re harris

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Tue, 27 Aug 1996 20:52:47 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960827203542.1427320a@harborside.com>
Rendered body type: text/plain

Hi all I just got this program that will check for that virus that is
coming around on the internet. A friend sent it to me and I thought I
send it on.

73 Chris
wb8ypo@harborside.com
WB8YPO@WB8YPO.#SWOR.OR.USA.NOAM

PS Open this fill on a 1.44 disk it works great
[Attachment: VHAREZIP.EXE; application/octet-stream; 169,984 bytes]

---

638. Re: [APRSSIG:4112] Shirts

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 27 Aug 1996 23:59:44 -0600
To: aprssig@tapr.org
Message-ID: <1370932112-3896320@email.firecraker.com>
Rendered body type: text/plain

>If your interested in a polo aprs shirt...Mail $21.00 to
>Mike Kantor KD4EMI
>741 Lyons Road #17204
>Coconut Creek, FL   33063
>Its 1st come 1st served...After the first 24, I'll wait to order more..
>Hope to hear from you..
>(oh shirts will ship probably NEXT Friday)
>Mike
>
>
What size are the shirts available in?

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

---

639. Re: [APRSSIG:4117] MAXON RADIOS!

From: wa4mej@juno.com (john w dent)
Date: Tue, 27 Aug 1996 23:53:10 PST
To: aprssig@tapr.org
Message-ID: <19960827.235314.10287.0.wa4mej@juno.com>
Rendered body type: text/plain

hi joe
I THINK THAT YOUR REQUEST ABOUT MAXCOM HAS NO BERRING ON "APRS" OR OTHER
HAM RADIO SYSTEMS ..
 THERE FORE I THINK YOU SHOULD NOT /... ON HAM / NET

THS
JOHN
WA4MEJ

I WOULD NOT HAVE ONE...

---

640. Re: [APRSSIG:4117] MAXON RADIOS!

From: ku0g@sprynet.com
Date: Tue, 27 Aug 1996 22:19:23 -0700
To: aprssig@tapr.org
Message-ID: <199608280519.WAA12485@m1.sprynet.com>
Rendered body type: text/plain

```
Maxon, being based here in Kansas City, is an easy grab around here.  New for
$120.00!!!  (UHF, of course)  How many do you want?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

641. Re: [APRSSIG:4120] Virus re harris

From: "Paul's Pager" <5105391642@alphapage.airtouch.com>
Date: Tue, 27 Aug 1996 23:43:11 -0400
To: aprssig@tapr.org
Message-ID: <3223C04F.37DE3F4@alphapage.airtouch.com>
Rendered body type: text/plain

```
Chris&Kathleen wrote:
>
> Hi all I just got this program that will check for that virus that is
> coming around on the internet. A friend sent it to me and I thought I
> send it on.
>
>                     Name: VHAREZIP.EXE
>     Part 1.2       Type: unspecified type (application/octet-stream)
>                 Encoding: base64

Uh, would you (everyone on the list) please refrain from sending
binaries over the list?

MS-DOS binaries aren't terribly useful to those of us running Unix
systems.

In any case, there are quite a few people that don't trust virus
scanners (some don't trust executables in general) that come from
unknown sources.  There was a version of McAfee 'scan' floating around
some time ago that actually spread a virus.

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

---

642. Re: MAXON RADIOS!

From: aa7ya@juno.com
Date: Wed, 28 Aug 1996 03:17:30 EDT
To: aprssig@tapr.org
Message-ID: <19960828.011233.5375.1.aa7ya@juno.com>
Rendered body type: text/plain

```
On Wed, 28 Aug 1996 00:36:34 -0500 (CDT) wa4mej@juno.com (john w dent)
writes:

>hi joe
>I THINK THAT YOUR REQUEST ABOUT MAXCOM  HAS NO BERRING ON "APRS" >OR
OTHER HAM RADIO SYSTEMS ..

[SNIP.... SNIP...]

Why do you say that?  Maxon, Micor, Mitrek, you name it,
is used for Amateur Radio because it does not fall
into the FCC Type Acceptance, unlike HAM radio gear,
which does, and therefore cannot be modified for other
uses besides ham radio.... CB just to name one off the
top of my head..

Without a radio (MAXON included), you cannot use
APRS "on-air".

Stacey
```

---

643. Re: MAXON RADIOS!

From: wa4mej@juno.com (john w dent)
Date: Wed, 28 Aug 1996 00:11:55 PST
To: aprssig@tapr.org
Message-ID: <19960828.001158.10287.2.wa4mej@juno.com>
Rendered body type: text/plain

THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO
the maxon radio does work but oh my its not an ham radio ....
this is for APRS and things about APRS not your commersial thing

TKS
JOHN
WA4MEJ
wa4mej@juno.com

```
On Tue, 27 Aug 1996 22:00:56 -0500 (CDT) William Nolle <wa8inz@cris.com>
writes:
>Joe Agrelo wrote:
>>
>> APRS people,
>>
>> Several months ago...there was a stream of conversations about Maxon
>> radios for sale. I have lost those conversations and wondered if
>anyone
>> has any info on them? or if anyone wants to get rid of theirs? Was
>there
>> any problems with them? etc...
>>
>> Thanks!
>>
>> 73 De Joe N2OOC (new address & phone effective 8/15)
>
>Joe i got one of those and they work great, no more available though.
>The
>fellows name was Mark Endicot (Not sure of spelling) from Nashville. I
>
>keyboard with him sometimes from my QTH. The one i have is more then
>litely
>going into a balloon in the very near futare.
>--
>   Check out my APRS web page
>
>http://www.concentric.net/~wa8inz
>
>            \////
>            (o o)
>      *--o00-(_)-00o--*
>         Bill WA8INZ
>       wa8inz@cris.com
>      wa8inz@amsat.org
>
>
```

---

644. Re: [APRSSIG:4126] Re: MAXON RADIOS!

From: William Nolle <wa8inz@cris.com>
Date: Wed, 28 Aug 1996 05:29:21 -0700
To: aprssig@tapr.org
Message-ID: <32243BA1.1F5D@cris.com>
Rendered body type: text/plain

```
john w dent wrote:
>
> THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO
> the maxon radio does work but oh my its not an ham radio .........
> this is for APRS and things  about APRS not your commersial thing
>
> TKS
> JOHN
> WA4MEJ
> wa4mej@juno.com
>
```

What the heck are you talking about man. Are you sure you even have a valid
Ham ticket or are you just wishing. Can't find no record of you in any
callbook or data base (I'm not saying you don't, I'm asking).
Since WHEN isn't writing about any radio gear used with APRS allowed on the
sig. i'm telling you there are some weird ideas coming on here lately. I got
several messages (Private) flaming me for using up bandwidth because of my
tag line showing my APRS web page. I did notice they ALL come from @juno.

```
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz
```

```
      \////
      (o o)
*--o00-(_)-00o--*
   Bill WA8INZ
 wa8inz@cris.com
wa8inz@amsat.org
```

---

645. Re: [APRSSIG:4122] Re: MAXON RADIOS!

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 28 Aug 1996 06:54:42 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608280615.B17085-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I am finally seeing some sense on this thread. Maxon sells a 'transmit-only' radio, which has no place in amateur radio. The rules and regulations say that you will not interfere with another stations' transmission, and you can not 'listen' with a 'transmit-only' radio. You will, no doubt, be interfering with other stations if you use the Maxon, unless, of course, you intend to use a receiver with it.

Please avoid the use of 'transmit-only' stations, you will be a good ham neighbor and will remain within the rules and regulations of the FCC.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Wed, 28 Aug 1996, john w dent wrote:

> hi joe
> I THINK THAT YOUR REQUEST ABOUT MAXCOM HAS NO BERRING ON "APRS" OR OTHER
> HAM RADIO SYSTEMS ..
> THERE FORE I THINK YOU SHOULD NOT /... ON HAM / NET
>
> THS
> JOHN
> WA4MEJ
>
> I WOULD NOT HAVE ONE...
>

---

646. Re: [APRSSIG:4120] Virus re harris

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 28 Aug 1996 06:13:32 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae49e729dbd3@[199.1.11.113]>
Rendered body type: text/plain

>
>Hi all I just got this program that will check for that virus that is
>coming around on the internet. A friend sent it to me and I thought I
>send it on.
>
>73 Chris

WHAT !

Who in their right mind is going to run software sent over a news-group.

NEVER send software to news-group. Post it to the FTP

How do we know THIS is not the Virus.

PS- Do you have a MAC version :-)

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

647. Patch antenna/pre-amp

From: bob <w2g3zfj@unix.asb.com>
Date: Wed, 28 Aug 1996 08:09:41 -0400
To: aprssig@tapr.org
Message-ID: <199608281209.IAA18831@unix.asb.com>
Rendered body type: text/plain

Hi Folks

Thought you may be interested in this.

I found that my Magnavox MX4200's (GPS units) would not work reliably with the QST patch antenna. So, at the weekend, I made a simple pre-amp for it that seems to work very well. Now I can allways get lock, even with antenna on dash of car. Though its still not as good as my amplified Garmin antenna!

Details

Small piece (12mm square) fibleglass copperclad. Using exacto knife cut two lines across board and break in two places. Make a pad in same way for resistor/rf choke connection.

```
                ---------------------- ----
                |                    | |   | Join R/L at this pad
                |                    | |   |
                |                    |______
                ----------|------------------
                ________  | ____R___  ____L__
           Ant  ________--O-________C _______   To Rx
                          |
                ----------|------------------
                |                           |
                |                           |
                |                           |
                -----------------------------
```

I used a MAR 6 for the amplifier (Minicircuits) with a 100pf chip capacitor to isolate the output. Bias was via a 56 Ohm resistor and 3 turns on a ferrite bead to isolate the rf.

I then mounted this on the base of the patch antenna by soldering the small piece of pcb to the copper tape used for the ground connection. I made sure that the hole for the antenna connection was immediately adjacent to the input of the amplifier.

Seems to work! Although it does look a bit rough!

If anyones interested I will put more complete details on my aprs home page with a photo.

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com
http://www.asb.com/usr/w2g3zfj/aprs1.htm

---

648. APRSdos Mouse

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Aug 1996 09:54:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960828095004.26726D-100000@arctic>
Rendered body type: text/plain

Some stations (me too) have occassionally found the mouse left button to fail to work after many hours of APRSdos (all versions). All I do is call an interrupt and read the values. Could this be a "driver" problem?

I assume this happens to everyone, so no neeed for you to reply...
Unless you know of some reason from other sources why this might occur.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

649. Re: [APRSSIG:4130] Patch antenna/pre-amp

From: "Steven N. Bienvenu" <bienvenu@softdisk.com>
Date: Wed, 28 Aug 1996 09:33:47 -0500
To: aprssig@tapr.org
Message-ID: <322458CB.12E@softdisk.com>
Rendered body type: text/plain

Hi Bob,

I'd love to see more (pix, etc.) of your pre-amplifier. Please let me know if you place it on your web page, etc.

I need a better antenna for my gps-20 ... this might help me!

```
        Thanks,

        Steve Bienvenu, NB5F
```

---

650. Re: [APRSSIG:4123] Re: MAXON RADIOS!

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 28 Aug 1996 10:38:55 -0700
To: aprssig@tapr.org
Message-ID: <3224842F.70B6@concentric.net>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> Maxon, being based here in Kansas City, is an easy grab around here.  New for
> $120.00!!!  (UHF, of course)  How many do you want?
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

Hi Jim,

Thanks for your reply but we need VHF/145.790.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

651. Re: [APRSSIG:4122] Re: MAXON RADIOS!

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 28 Aug 1996 10:41:37 -0700
To: aprssig@tapr.org
Message-ID: <322484D1.1B2D@concentric.net>
Rendered body type: text/plain

```
john w dent wrote:
>
> hi joe
> I THINK THAT YOUR REQUEST ABOUT MAXCOM  HAS NO BERRING ON "APRS" OR OTHER
> HAM RADIO SYSTEMS ..
>  THERE FORE I THINK YOU  SHOULD  NOT /... ON HAM / NET
>
> THS
> JOHN
> WA4MEJ
>
> I WOULD NOT HAVE ONE...

John,

This *IS* the right place, since this is where they were offered along with instructions
on how to crystal and tune them for 145.790 APRS FREQUENCY AS STAND ALONE TRACKERS!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

652. APRS L3 Networking (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Wed, 28 Aug 1996 09:38:43 -0500
To: aprssig@tapr.org
Message-ID: <199608281438.JAA22034@admin.inetport.com>
Rendered body type: text/plain

I am the individual that is doing the network code maintenance for TexNet, which is in active service in Texas and adjoining states, and is revised about once or twice a year. I am a relative newcomer to APRS, not even on the air yet (and waiting on a TAPR GPS order). I am very much interested in adding the necessary hooks to our code to transport APRS across the network for rebroadcast, and I am thinking along the lines of one idea in one of the digi text files, essentially having a mobile APRS add a destination "digi" address(es) to the tail end of the string which the network would recognize as a node(s) on the network, and then transport it and rebroadcast it. Before I jump off and start writing code, it would be appropriate to poll this SIG for the suggestions, do's and dont's. From some of the recent comments I have read, there is some interest in seeing APRS trunking happen. (And yes, TexNet runs 9600b trunks and they perform well most of the time).

I am rather limited on codespace, and constantly bump into the size limits, so the few functions added will have to be compact, and need to be very well chosen and thought out. So, also, I can't promise it will even happen just for this reason, but it looks like it would be very worthwhile to try. It also looks like it will probably be necessary to delve into the world of bankswitched EPROMS from here on out. (Another possible outcome of this development might be user EPROMs tailored to spotter's TNC's, but this isn't even a defined concept yet).

The TexNet code is presently being ported to TAPR's next TNC-??, whatever we decide to call it, and it is a pretty powerful little 2 or 4 port TNC. In fact, the first code to be executed in it was TexNet. Alpha testing and debugging continues, and I can't say when it will be out, so don't ask me THAT question. (Go bug Greg). But with two or four radio ports, and two async ports, it could be a very interesting mobile TNC with lots of APRS capability. Modems not included. You can choose from the whole range of available modems. While it hasn't been defined on the new TNC-?? yet, TexNet code now supports A/D conversion hardware, presently in the form of the 16 input ADC0817.

One of our primary interests in this area is severe weather alerting and spotting. TexNet grew up in Tornado Alley in Texas and Oklahoma, and it contains internal applications designed with these objectives in mind. One challenge on our horizon centers around the fact that the NWS has closed down quite a few forecast offices, and consolidated their geographical areas with others. It turns out that the radius of some of these NWS regions is now outrunning the radius of coverage of good wide-coverage voice repeaters, and this makes spotting coordination and reporting more difficult. Trunked APRS has the possibility of helping out with SOME of the problem. Toward this end I am investigating the possibility of putting APRS on spotters and linking them in some cases over a hundred miles back to NWS offices. Some more investigation is planned to develop mobile WX instrumentation that might be useful to spotters and meaningful to NWS whan radar screens get real busy and things get hectic, and I want to help develop both of these (the network code and the field instrumentation) more or less in parallel over the next year.

BTW, a discussion I had with one of the forecasters concerning mobile WX instrumentation uncovered the fact that the more useful parameters to report would be windspeed and direction and rainfall rate. To do wind direction on a spotter mobile will call for a magnetic compass input (or gyroscope!) as well as the GPS, since spotters park and turn around and this blows GPS heading data away.

There may also be some more map-making to be done in the next year or so. The useable goal for an APRS map in an NWS office would be to fairly closely resemble a NexRad display, which means that it has a county boundary background with optional roads, creeks and watersheds, along with some community center locations, and cover roughly the same regions as that of the radar sites. And nowadays, the NWS forecast offices often have to look at two or more NexRad sites to cover their territory.

Thanks in advance for useful suggestions, primarily on L3 APRS trunking, but also interested in mobile WX spotting applications comments.

73 de Bob
Robert Morgan

WB5AOH
Austin, Texas
morganb@admin.inetport.com

---

653. [APRSSIG:4128] Re: MAXON RADIOS! -Reply

From: Doug Nielson <DNIELSON@novell.com>
Date: Wed, 28 Aug 1996 08:37:28 -0600
To: aprssig@tapr.org
Message-ID: <s2240578.015@novell.com>
Rendered body type: text/plain

It sounds like Bob B. needs to dig up his discussion regarding this "interference" issue with these Maxon radios. Apparently, these people haven't been following the SIG very long.

>>> John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us> 28 Aug 96 05:04 >>>
I am finally seeing some sense on this thread. Maxon sells a 'transmit-only' radio, which has no place in amateur radio. The rules and regulations say that you will not interfere with another stations' transmission, and you can not 'listen' with a 'transmit-only' radio. You will, no doubt, be interfering with other stations if you use the Maxon, unless, of course, you intend to use a receiver with it.

Please avoid the use of 'transmit-only' stations, you will be a good ham neighbor and will remain within the rules and regulations of the FCC.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Wed, 28 Aug 1996, john w dent wrote:

> hi joe
> I THINK THAT YOUR REQUEST ABOUT MAXCOM HAS NO BERRING
ON "APRS" OR OTHER
> HAM RADIO SYSTEMS ..
> THERE FORE I THINK YOU SHOULD NOT /... ON HAM / NET
>
> THS
> JOHN
> WA4MEJ
>
> I WOULD NOT HAVE ONE...
>

---

654. Re: [APRSSIG:4126] Re: MAXON RADIOS!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Aug 1996 10:45:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960828104348.26726M-100000@arctic>
Rendered body type: text/plain

On Wed, 28 Aug 1996, john w dent wrote:

> THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO
> the maxon radio does work but oh my its not an ham radio ....
> this is for APRS and things about APRS not your commersial thing
> WA4MEJ
> wa4mej@juno.com

APRSdos REPLY/COMMENT: Last time I checked, 445.925 was Ham radio no matter what the brand of radio...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

655. Re: [APRSSIG:4126] Re: MAXON RADIOS!

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 28 Aug 1996 10:45:24 -0700
To: aprssig@tapr.org
Message-ID: <322485B4.5A1E@concentric.net>
Rendered body type: text/plain

john w dent wrote:
>
> THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO

```
> the maxon radio does work but oh my its not an ham radio .........
> this is for APRS and things  about APRS not your commersial thing
>
> TKS
> JOHN
> WA4MEJ
> wa4mej@juno.com

This has *EVERYTHING* to do with HAM & APRS.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

656. Re: [APRSSIG:4126] Re: MAXON RADIOS!

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Wed, 28 Aug 1996 08:08:03 -0400
To: aprssig@tapr.org
Message-ID: <322436A3.7D6B1AD8@cyclades.com>
Rendered body type: text/plain

```
john w dent wrote:
>
> THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO

Better check out the 2m and 440 radios at your local Radio Shack.  Those
(along with the old 10m rig) are made by Maxon.

Just because a radio is not specifically designed for and exclusively
marketed to the Amateur market does not mean it's not a Ham radio.  One
of the "best" HF rigs on the market (from a reliability standpoint) -
from SGC - is primarily aimed at the maritime (ship) market.

If it's used at all on the Amateur freqs, it's a ham radio.

(To the person worried about a TX-only radio - the radio in question is
a two-way radio.)

Paul

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

657. Re: Re: MAXON (boring) & Mic-Encoders! (exciting!)

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Wed, 28 Aug 1996 10:07:51 -0500
To: <aprssig@tapr.org>
Message-ID: <9608281511.AA17051@dfw.dfw.net>
Rendered body type: text/plain

```
A radio is a radio...  We should all be aware of "good deals" out there.
This was one of those "good deals" a couple of months ago.  The guy who had
them wanted to get rid of them.  Many wanted them and were/are great radios
for APRS or packet in general.  Big deal-NOT.

Not all the radios used in the Amateur Service are type accepted, only
those made by a manufacterer for sale.  Think about the homebrew and kit
radios out there.  Are they type accepted?  NO.  The FCC has allowed the
Amateur Radio licensees to design, build, and use anything they want.  The
operation of that radio falls under that persons license, who must meet
certian specifications/modes/bands/power as outlined in Part 97.

This subject is a NON-issue as far as I'm concerned.  Also, this is the
INTERNET and does NOT fall under "business" communications rules as
outlined for use of Amateur Radio frequencies.  However, I do understand
```

```
that SOME owners of Internet sites have put restrictions on what level of
"business" may be conducted on thier system for non-profit organizations.

"Talking" on this sig about makes of radios, any radio, and "good deals",
make this forum an interesting and thought provoking continual discussion
on one area of amateur radio (APRS) that we've all come together for.
There is a moderator of this Sig, I'm sure he or she will inform the group
if someone steps out of line.

Now people, just when ARE the Mic-Encoders going to be released to the
market place?  Any time tables?  I'm thinking small interface box with
three external connectors on it (GPS in/output, Speaker-Mic in/output, To
radio in/output), small push buttons on the outside for the short msg's
(like DTMF buttons on a regular mic), and maybe a 4th connector for power.
Or maybe even a Mic-Encoder with internal GPS receiver too...?  Mmm.

And come to think of it, I'll be needing a radio too... Anyone know of a
good radio for portable use? ;-)  Tounge firmly planted in cheek.

Cheers all, Bill Neal - N0NSA
http://www.dfw.net/~wmn3/

----------
> From: john w dent <wa4mej@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4126] Re: MAXON RADIOS!
> Date: 28 August 1996 2:27
>
> THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO
> the maxon radio does work but oh my its not an ham radio .........
> this is for APRS and things  about APRS not your commersial thing
>
> TKS
> JOHN
> WA4MEJ
> wa4mej@juno.com
```

658. Re: [APRSSIG:4131] APRSdos Mouse

From: byoung@qni.com
Date: Wed, 28 Aug 1996 10:21:28 -0500
To: aprssig@tapr.org
Message-ID: <9608281521.AA16793@qni.com>
Rendered body type: text/plain

```
Bob and the group,

Another "oddity" to consider is that I've had the mouse "leave" and
then "come back"!

Since I leave the APRS station up for days/weeks without rebooting,
I've become accustomed to losing the left mouse button.  But here
lately (since I upgraded to 7.6f?...), I've had full mouse
functionality return after several days/hours without it.  The cycle
might repeat itself over the course of several days/weeks...

So that you can (if you want...) attack the problem statistically, I
use a Compaq Prolinea 486/33, Microsoft MSDOS 6.22, a Microsoft mouse,
and Microsoft's MOUSE.COM version 8.20.  The mouse driver is "loaded
high" by AUTOEXEC.BAT on startup.

Bill Young
byoung@qni.com
KB0UZQ
```

659. Re: [APRSSIG:4129] Re: Virus re harris

From: davidc@tbcnet.com (David Chesser)
Date: Wed, 28 Aug 1996 10:36:17 -0500
To: aprssig@tapr.org
Message-ID: <199608281536.KAA06031@tbc1.tbcnet.com>
Rendered body type: text/plain

```
I fell the same way about sending out this program as I can't use it anyway
as a Mac user.
```

660. APRS versus Ham Radio

From: Willson Flor <willf@rrgroup.com>
Date: Wed, 28 Aug 1996 11:01:57 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960828160157Z-951@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
Absolutely right, Doug.  These people also seem to suffer from the
delusion that this forum is about ham radio, and that APRS is a
ham radio phenomenon, both of which are quite untrue.  I, along
with many others, use APRS primarily on non-ham frequencies,
and this discussion list is for APRS uses, not just ham radio ones.
To put it bluntly, even if something is illegal on ham radio, it may
still be completely appropriate here, because this *IS NOT* a
ham radio discussion group.

73 de KB9JTT aka Blue Mound 323 on 65 meters

>> It sounds like Bob B. needs to dig up his discussion regarding this
>> "interference" issue with these Maxon radios. Apparently, these people
>> haven't been following the SIG very long.
>>
>> >>> John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us> 28 Aug 96
>> 05:04 >>>
>> I am finally seeing some sense on this thread.  Maxon sells a
>> 'transmit-only' radio, which has no place in amateur radio.  The rules
>> and regulations say that you will not interfere with another stations'
>> transmission, and you can not 'listen' with a 'transmit-only' radio.  You
>> will, no doubt, be interfering with other stations if you use the Maxon,
>> unless, of course, you intend to use a receiver with it.
>>
>> Please avoid the use of 'transmit-only' stations, you will be a good ham
>> neighbor and will remain within the rules and regulations of the FCC.
>>
>>
>> John W. Wilson, KN4HX
>> z004391b@bcfreenet.seflin.lib.fl.us
>>
>>
>> On Wed, 28 Aug 1996, john w dent wrote:
>>
>> > hi joe
>> > I THINK THAT YOUR REQUEST ABOUT MAXCOM  HAS NO BERRING
>> ON "APRS" OR OTHER
>> > HAM RADIO SYSTEMS ..
>> >  THERE FORE I THINK YOU  SHOULD  NOT /... ON HAM / NET
>> >
>> > THS
>> > JOHN
>> > WA4MEJ
>> >
>> > I WOULD NOT HAVE ONE...
>> >
>
>
>
```

---

661. Virus re harris

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Wed, 28 Aug 1996 09:01:35 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960828084439.26df9ad6@harborside.com>
Rendered body type: text/plain

```
lets try again but not in a mime

Hi all I just got this program that will check for that virus that is
coming around on the internet. This virus checker is on the internet but I do
not know where. A friend of mime sent it to me, and I thought I would
send it on to you all.

I did not send the frist one in mime code so I do not know how it got that way.
As for the Mac or unix Sorry to you guys I work in PC-dos and I wish I did not
at Times. If you can not open this file Please let me know and I will send
you a copy by E-mail and last  if you do not have a good thing to say,
Please do not send it to me, I got hit by this thing and it was not good,
I only wish that some one did what I am doing and may be saved me a lot of
time putting my Computer back to where it would run again so Please no
flaming


73 Chris
wb8ypo@harborside.com
WB8YPO@WB8YPO.#SWOR.OR.USA.NOAM
```

PS Open this fill on a 1.44 disk it works great
[Attachment: VHAREZIP.EXE; application/octet-stream; 169,984 bytes]

---

662. Re: [APRSSIG:4040] Re: FREQ COORDINATION LETTER

From: mbary@nmaa.org (Mark L. Bary)
Date: Wed, 28 Aug 1996 12:18:19 -0700
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <32249B7B.35E0@nmaa.org>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> All of this talk about coordijnation and I still would like to include a
> definitive list of statest that have an official coordinaton for APRS.
--snip--
> I **THINK** that some of the following are coordinated, but have seeen no
> such confirming data...
> --snip--
> Maryyland--snip--
> Virginia???--snip--
> IF YOU CAN SAY TAHT THE APRS FREQWUENCY IS OFFICIALLY SANCTIONED, then
> please let me know...

Bob,

I know from my experience on the DMARC board that APRS is coordinated in their area of influence. This includes all of Maryland, the District of Columbia, and parts of Northern Virginia, West Virginia, and Southern Pennsylvania (approximately along the following lines: a few miles north of Richmond running E-W from the shore to about the ridgeline of the mountains west of Roanoake, then along the ridgeline Northward through parts of West Virginia and a few miles into the Southern part of Pennsylvania, then East to just below Philadelphia on the shoreline). The perimeter described is from memory; if you want a better or more accurate description it would be best for you to contact DMARC through it's new president, Stan Staten W3INK. You can drop him an email at 3WINKS@msn.com or W3INK@W3INK.MD on packet.

73
Mark
N4EOC

---

663. Re: [APRSSIG:4132] Re: Patch antenna/pre-amp

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 28 Aug 1996 12:32:16 -0700
To: aprssig@tapr.org
Message-ID: <32249EC0.64B8@concentric.net>
Rendered body type: text/plain

Steven N. Bienvenu wrote:
>
> Hi Bob,
>
>   I'd love to see more (pix, etc.) of your pre-amplifier. Please
> let me know if you place it on your web page, etc.
>
>   I need a better antenna for my gps-20 ... this might help
> me!
>
>   Thanks,
>
>   Steve Bienvenu, NB5F

Paccomm sells a very small active GPS antenna for $50, it's a Trimble and it works perfect with the GPS-20, you just need to change the connector.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor

```
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

664. Re: [APRSSIG:4136] Re: MAXON RADIOS! -Reply

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 28 Aug 1996 12:40:47 -0700
To: aprssig@tapr.org
Message-ID: <3224A0BF.3B64@concentric.net>
Rendered body type: text/plain

```
Doug Nielson wrote:
>
> It sounds like Bob B. needs to dig up his discussion regarding this
> "interference" issue with these Maxon radios. Apparently, these people
> haven't been following the SIG very long.

Here, here, thanks!

Since I lost the information from when the Maxons were for sale, I couldn't
answer these questions for myself. Here is my original question which asked
if there was any problems with them.

Original Message-------------------------------------------------------

Several months ago...there was a stream of conversations about Maxon
radios for sale. I have lost those conversations and wondered if anyone
has any info on them? or if anyone wants to get rid of theirs? Was there
any problems with them? etc...

End--------------------------------------------------------------------

I am a HAM interested in APRS and asked the SIG for help! if you can't help
then please don't reply!

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
             ph (518)864-7551 effective 8/15
            fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

665. Re: [APRSSIG:4135] APRS L3 Networking (TexNet)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Aug 1996 12:52:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960828124412.12894E-100000@arctic>
Rendered body type: text/plain

```
On Wed, 28 Aug 1996, Robert B. Morgan wrote:

> I am the individual that is doing the network code maintenance for TexNet,
> ...  I am very much interested in adding the necessary hooks to our code
> to transport APRS across the network for rebroadcast, along the lines of
> the APRS suggestion of... adding a destination "digi" address(es) to the
> tail end of the path which the network would recognize...

APRSdos REPLY:  That idea still seems to be a good one.  THe only other
thing in the mill is that we may begin using WIDE-N digipeats which can
digipeat APRS packets outward radially N hops in all diretions without
duplication.   But still, that would be transparent to you, since any NODE
address would be after the WIDE-N,NODE so you could still route if you
recognize the NODE address no matter how many hops it took before that.

> .....
> can choose from the whole range of available modems.  While it hasn't
> been defined on the new TNC-?? yet, TexNet code now supports A/D
> conversion hardware, presently in the form of the 16 input ADC0817.

APRS COMMENT:  DOnt forget that APRS already has a telemetry page.  If you
```

simply beacon out up to 5 of those channels in the APRS format, then
everyone with APRS can see your data...

> WX instrumentation uncovered the fact that the more useful parameters
> to report would be windspeed and direction and rainfall rate. To do
> wind direction on a spotter mobile will call for a magnetic compass
> input (or gyroscope!) as well as the GPS, since spotters park and turn
> around and this blows GPS heading data away.

APRS REPLY: Both APRSdos and Mac/Win APRS support magnetic compas
input... (I think)

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

666. Re: Nettiquette re Virus re harris

From: "Peter Markham" <pmarkham@sun.lssu.edu>
Date: Wed, 28 Aug 1996 13:00:14 -0400
To: aprssig@tapr.org
Message-ID: <199608281700.NAA01727@sun.lssu.edu>
Rendered body type: text/plain

Thank you, Chris and Kathleen,
For unsolicited software. I trust that you now realize a pointer to the software source would have been appropriate.

I have paid to download software I do not want, that was flushed straight to the bit bucket.

Pete/wa4hei

---

667. UHF Freq

From: tfleming@madison.tec.wi.us (Tom Fleming)
Date: Wed, 28 Aug 1996 12:26:32 -0500
To: aprssig@tapr.org
Message-ID: <v01530501ae49e6a9d3f1@[198.150.211.6]>
Rendered body type: text/plain

I would like to get aprs running in 70 cm. Is there anyone else running
aprs in 70 cm? I would like to go to the freq coor with examples of what
other people are doing.

____
Tom Fleming   Network Tech
Postmaster
Madison Area Tech College
(608) 246-6140
Internet:tfleming@madison.tec.wi.us
N9SZF
+-+
IBM's are computers you work on. Macintosh's are Computers you work with.
+-+

---

668. Re: [APRSSIG:4130] Patch antenna/pre-amp

From: bob <w2g3zfj@unix.asb.com>
Date: Wed, 28 Aug 1996 14:08:36 -0400
To: aprssig@tapr.org
Message-ID: <199608281808.OAA25059@unix.asb.com>
Rendered body type: text/plain

Well, lots of interest in my note on the GPS preamp. I will try and do the
instructions over the next couple of days and will let you all know when its
ready.

73 de bob
w2g3zfj@unix.asb.com
www.asb.com/usr/w2g3zfj/aprs1.htm

---

669. MAXON APRS RACES and FIRE SERVICE

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 28 Aug 1996 12:54:18 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199608281756.MAA16209@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
A radio brand name matters not, it's where, when and how you use it! I and
several others use the Maxon for very different reasons. I use a 10
channel handheld for Fire Service (153.815r) on one channel, First
Responder (155.550) on a channel, Amauter Radio (147.000r, 146.610r,
146.520) on other channels. The radio performs under some very extreme
circumstances. I have used it in the rain, dropped it, stepped on it, the
antenna was NEARLY melted off once (and it still transmitted!) and done
just about anything you'd not want to do to one. Still, the equipment
works. The handheld 10 and 16 channel, 3-5 watt is now strongly
recommended amoung the 8 VFD here in this county and the prefered HT for
us firefighters that must rely on ham bands every once in a while.

So, Joe and the Group, there is a bit about my experience with Maxons.
Hope it helps.
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Arkansas Frequency Coordination Council
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

670. Re: [APRSSIG:4144] Virus re harris

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 28 Aug 1996 13:04:24 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae4a4605b692@[199.1.11.108]>
Rendered body type: text/plain

```
>I only wish that some one did what I am doing and may be saved me a lot of
>time putting my Computer back to where it would run again so Please no
>flaming
>
 You don't seem to get it.

99 % of the people on this SIG don't know you and are not going to
run an uninvited program.  You are wasting your time and ours.
STOP STOP STOP

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

671. Re: [APRSSIG:4145] Re: FREQ COORDINATION LETTER

From: SKedney@aol.com
Date: Wed, 28 Aug 1996 14:28:36 -0400
To: aprssig@tapr.org
Message-ID: <960828142835_396096142@emout16.mail.aol.com>
Rendered body type: text/plain

```
I have just downloaded the aprs software, and have not yet  gotten on the air
with it.  I am living in the Washington DC area.  If there is a coordinated
frequency in this area, can someone please tell me what it is.

Thanks
Sean
N9EBJ
```

672. Re: [APRSSIG:4131] APRSdos Mouse

From: N5RKN@aol.com
Date: Wed, 28 Aug 1996 14:37:42 -0400
To: aprssig@tapr.org
Message-ID: <960828143742_467279681@emout10.mail.aol.com>
Rendered body type: text/plain

```
Actually, my problem isn't that the mouse "leaves".  But, rather that it
seems to
become "supercharged" and minor movements will sling it across the screen.
 It does not occur in other programs.
Robert
```

673. Re: [APRSSIG:4130] Patch antenna/pre-amp

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Wed, 28 Aug 1996 14:45:15 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960828184515.006d77d4@seism1.ess.sunysb.edu>
Rendered body type: text/plain

At 07:07 AM 8/28/96 -0500, you wrote:
>Hi Folks
>
>Thought you may be interested in this.
>
>I found that my Magnavox MX4200's (GPS units) would not work reliably with
>the QST patch antenna. So, at the weekend, I made a simple pre-amp for it
>that seems to work very well. Now I can allways get lock, even with antenna
>on dash of car. Though its still not as good as my amplified Garmin antenna!
>
>Details
>
>Small piece (12mm square) fibleglass copperclad. Using exacto knife cut two
>lines across board and break in two places. Make a pad in same way for
>resistor/rf choke connection.
>

```
>                ---------------------- ----
>                |                    | |   | Join R/L at this pad
>                |                    | |   |
>                |                    |______
>                ----------|------------------
>                ________  | ____R___  ____L__
>           Ant  ________--O-________C _______   To Rx
>                          |
>                ----------|------------------
>                |                            |
>                |                            |
>                |                            |
>                -----------------------------
```

>
>I used a MAR 6 for the amplifier (Minicircuits) with a 100pf chip capacitor
>to isolate the output. Bias was via a 56 Ohm resistor and 3 turns on a
>ferrite bead to isolate the rf.
>
>I then mounted this on the base of the patch antenna by soldering the small
>piece of pcb to the copper tape used for the ground connection. I made sure
>that the hole for the antenna connection was immediately adjacent to the
>input of the amplifier.
>
>Seems to work! Although it does look a bit rough!
>
>If anyones interested I will put more complete details on my aprs home page
>with a photo.
>
>73 de bob w2/g3zfj
>
>w2g3zfj@unix.asb.com
>http://www.asb.com/usr/w2g3zfj/aprs1.htm
>

Are you the only one (well I built one too) having eventually built
something with the MAR-6?

I can't believe all the MAR-6 I distributed are still in their packages, :-).
I would like to hear about it, bas or good news! (For those new on the SIG,
I organized a group purchase for about 60 MAR-6 in june. Don't ask: I don't
have any of them left, and won't buy any more)

A complete description of my pre amp is on my web pages (hobby page,
MAR-6.pdf), it's a slightly improved and corrected version. I will post it
on the TAPRS site in a couple of days , as my web site is going down in 10 days.
Everybody can use , archive, distribute and/or put on their web page this
file. I would appreciate you cite the source, and give credit, though!

Regarding what Bob did: my experience is that the MAR-6 *needs* 50 ohms
impedance match at its input and output. My first prototype was "hand wired"
with junk box components ... it worked. The second prototype was on double
side PCB with strip line, SM caps : it worked way better! The double side
PCB is actually the ground plate of my QST patch antenna.

The 56 ohms value for the bias resistor seems a bit low, (calculation gives
about 100 ohms) unless there's already some resistance in the gps in series
with the 5V supply. The blocking cap on the antenna side of the MAR-6 is
effectively optional, if the antenna is not a DC shortcut.

Bernard, KB2TGH.

Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)

http://rock.ess.sunysb.edu:8080/

---

674. Re: [APRSSIG:4135] APRS L3 Networking (TexNet)

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 28 Aug 1996 13:48:33 -0500
To: <aprssig@tapr.org>
Message-ID: <199608281849.NAA17043@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>
> There may also be some more map-making to be done in the next year or
so.
> The useable goal for an APRS map in an NWS office would be to fairly
> closely resemble a NexRad display, which means that it has a county
> boundary background with optional roads, creeks and watersheds, along
with
> some community center locations, and cover roughly the same regions as
> that of the radar sites.  And nowadays, the NWS forecast offices often
> have to look at two or more NexRad sites to cover their territory.

Could you make a map of the TexNet digi locations? I'd like to know if on
eis close. Might as well show radar sweep distance circles.

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
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675. Re: [APRSSIG:4144] APRSSIG digest 670

From: n8zgt <n8zgt@erinet.com>
Date: Wed, 28 Aug 1996 15:41:16 -0400
To: aprssig@tapr.org
Message-ID: <199608281941.PAA29106@mail.erinet.com>
Rendered body type: text/plain

At 11:24 AM 8/28/96 -0500, you wrote:

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>JmW2hAMVCj8ixLdQ6kUxLC8r4eo8a2h/EmsQXUSjveFVsW0UHqe5eYlVqs++ZAbR3UJeZzron/5G
>Qty3UGyKiv0i8NcUIA7XEdCxQObfYxSPpJ4VlsG2OmN5asodxk7c1ow6USDH5TSYKbIxk7lOeVPc
>fzsOZchkkyZfe5ADDS7ZaxyePdO0Tk0qzqjQw4oDUZUMG9jTgSLEpDbG21WS92MUmla/1JNHDmxI

```
>hpkYHZAnM2QbpwU42ptbXloVba5bspfDQIPUq/rD62j582DVnrFB/kr7d8w7d1fu9j77wzbMzp0/
>QjhU66R/Ad+6K7uDu6rO2akQQRd4JCf/ttZ4GoXwhbYP0SWrf5IPlM19t6lJFva/BNC4XFqyzgr6
>eUy/PHskp7TJxeXsNUr5e6PwzfqjGVM7e7jRaBrnXr9HAIZKBYeJmTG8skNRKIrZP0DXkzP7mPOI
>rvA41Pr4n2ltdoPOCqloTEPGR2HabWKSeT1QxE1nrpaf4zeSCCGMg9a6q5/opc1YEiML9loHalHt
>1hHgPqFzdnLTvayPNIEO5ZHONtdxQFXjyyHNRGjXXWk/so2N0oZWOGji1jpYpyq1ZsacNGlpYITL
>JFfj4p7KPUx8KmpBRgUXF+UXNAkeFZTbACMFUC1eEeA721Xh1AsBn1967iMtpso3Qu5X8p+N6w0P
>fFbBvekztbI3krIIZx8MG7dXBbJCPH7Gk3SsHi1z2OEc5gov1qKpooC+1qUGd/4jsknX7i58v78X
>
```

---

676. Re: [APRSSIG:4147] Re: MAXON RADIOS! -Reply

From: nickart@midtenn.net (Nicholas R. Smith)
Date: Wed, 28 Aug 1996 14:34:43 GMT
To: aprssig@tapr.org
Message-ID: <199608281434.OAA02830@sneezy.midtenn.net>
Rendered body type: text/plain

```
>Doug Nielson wrote:
>>
>> It sounds like Bob B. needs to dig up his discussion regarding this
>> "interference" issue with these Maxon radios. Apparently, these people
>> haven't been following the SIG very long.
>
>Here, here, thanks!
>
>Since I lost the information from when the Maxons were for sale, I couldn't
>answer these questions for myself. Here is my original question which asked
>if there was any problems with them.
>
>Original Message-------------------------------------------------------
>
>Several months ago...there was a stream of conversations about Maxon
>radios for sale. I have lost those conversations and wondered if anyone
>has any info on them? or if anyone wants to get rid of theirs? Was there
>any problems with them? etc...
>
>End--------------------------------------------------------------------
>
>I am a HAM interested in APRS and asked the SIG for help! if you can't help
>then please don't reply!
>
>Thanks!
>
>73 De Joe N2OOC (new address & phone effective 8/15)
>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
>            Agrelo Engineering
>          Joe Agrelo/President
>    P.O.Box 231 Pattersonville, NY 12137 USA
>             ph (518)864-7551 effective 8/15
>            fax (518)864-7553  "       "
>       mailto:Jagrelo@cris.com
>  WEB: http://home.navisoft.com/agrelo/ae.htm
>Designer & Manufacturer of intelligent microprocessor
>     based Doppler, talking products and RF.
>   Experts in Microchip & Motorola processors
>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
>
>
Hi Joe:

Mark WB0NOO in Nashville, TN had these radios for sale, I have one and
would like to say that it works very well.  If you need more info call me.
Nick Smith WA4GKM

Editor - "Amateur Radio Trader"
Chief Pilot - Consultant - "Trade-A-Plane"

e-mail wa4gkm@amsat.org
800-774-2623 voice
800-423-9030 fax
```

---

677. rs232c

From: wtb@partyline.org
Date: Wed, 28 Aug 96 15:08:40
To: aprssig@tapr.org
Message-ID: <9608281508.0L9X300@partyline.org>
Rendered body type: text/plain

Does anyone have details on how to hookup rs232c to TI-99/4A computer??

678. Re: [APRSSIG:4159] Re: MAXON RADIOS! -Reply

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 28 Aug 1996 17:41:43 -0700
To: aprssig@tapr.org
Message-ID: <3224E747.31CF@concentric.net>
Rendered body type: text/plain

```
Nicholas R. Smith wrote:

> Hi Joe:
>
> Mark WB0NOO in Nashville, TN had these radios for sale, I have one and
> would like to say that it works very well.  If you need more info call me.
> Nick Smith WA4GKM
>
> Editor - "Amateur Radio Trader"
> Chief Pilot - Consultant - "Trade-A-Plane"
>
> e-mail wa4gkm@amsat.org
> 800-774-2623 voice
> 800-423-9030 fax

Hi Nicholas,

I appreciate the help. I am actualy trying to find someone who wants to get
rid of theirs.

If I do find one, then maybe I will need to contact you to find out how to
crystal and tune it for 145.790.

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

679. Re: [APRSSIG:4154] Re: FREQ COORDINATION LETTER

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Aug 1996 17:51:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960828175038.7883E-100000@arctic>
Rendered body type: text/plain

```
On Wed, 28 Aug 1996 SKedney@aol.com wrote:

> I have just downloaded the aprs software, and have not yet  gotten on the air
> with it.  I am living in the Washington DC area.  If there is a coordinated
> frequency in this area, can someone please tell me what it is.

APRSdos REPLY/COMMENT:  Welcome to 145.79!  The oldest APRS network....

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

680. Re: [APRSSIG:4121] Re: Shirts

From: KD4EMI@aol.com
Date: Wed, 28 Aug 1996 18:15:47 -0400
To: aprssig@tapr.org
Message-ID: <960828181546_396272171@emout07.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-08-28 01:52:35 EDT, you write:

>What size are the shirts available in?

Small through XXL
Mike

PS I got 5 checks today...!!
```

681. APRS77 questions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Aug 1996 18:23:41 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960828181626.10410A-100000@arctic>
Rendered body type: text/plain

I have had two persons report that in 77, their OWN WX station fades to
gray after 2 hours. I have changed nothing since I last fixed this bug,
but this could occur if you have changed from local to zulu or from HF to
VHF and back recently... If you fade to gray, tell me
your PC time, your ZULU time, whether you are on HF or VHF, what is your
UTC offset, Are both the RECEIVED and ENTERED times being updated on the
PLIST, or just the RECEIVED?

I reported that my HEARD log was not being properly reloaded from a backup
file... It only occrured once, maybe I was imagining it... ANyone else
nail this one down?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

682. Re: [APRSSIG:4117] MAXON RADIOS!

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Wed, 28 Aug 1996 18:05:26 -0500
To: aprssig@tapr.org
Message-ID: <9608281805.AA26197@oscar.telalink.net>
Rendered body type: text/plain

> APRS people,
>
> Several months ago...there was a stream of conversations about
> Maxon radios for sale. I have lost those conversations and wondered
> if anyone has any info on them? or if anyone wants to get rid of
> theirs? Was there any problems with them? etc...
>
> Thanks!
>
> 73 De Joe N2OOC (new address & phone effective 8/15)

Hi Joe,

I have 2 Maxon transmitters alreaddy crystaled and tuned for 145.78 MHz and
modified for hi power (~5 watts). I have since picked up some 25 watt 2m
mobile rigs and have taken the Maxon transmitters out of service. If you are
interested let me know. I would be interested in some kind of trade deal for
some of the things that you are working on. I have been considering
recrystaling them for use as hidden transmitters for Fox hunting.

Bruce

```
--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650                                    *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W   *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* URL:  http://www.telalink.net/~martinbw/home.html           *
*        ftp://ftp.telalink.net/~martinbw                     *
*    I have a 486DX33 to play games and run some HAM programs,*
*        when I want to do serious work I use a Macintosh.    *
****************************************************************
```

683. Re: [APRSSIG:4158] Re: APRSSIG digest 670

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 28 Aug 1996 16:35:33 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960828163232.85B-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

At 11:24 AM 8/28/96 -0500, you wrote:
>WfHaKpfWleH81BIBijyxfLH4cCc+M+O4TKZyFJeZ5GkXDJ7iR/SjM1Wxa7YZvHstMYkPSAsNflUR
>

```
  Incredible!

Bob - wd6dod
```

---

684. Radio Shack VHF Radios

From: BordingK@aol.com
Date: Wed, 28 Aug 1996 19:36:36 -0400
To: aprssig@tapr.org
Message-ID: <960828193635_189886403@emout13.mail.aol.com>
Rendered body type: text/plain

```
I picked up a couple of Radio Shack BTX-121 VHF transceivers cheap at a
hamfest recently for use in stand-alone trackers.  I've recrystalled them to
145.79, but the owners manual is worthless for details for retuning
instructions.  RH does not sell a tech manual to outsiders.

Anyone worked with these little radios and access to a tech manual or the
like?  Thanks in advance.

73s de KF4COH
Ken in Jax
```

---

685. VIRUS and MAXON

From: KD4EMI@aol.com
Date: Wed, 28 Aug 1996 19:59:03 -0400
To: aprssig@tapr.org
Cc: DMOBLEY@encore.com
Message-ID: <960828195903_511932772@emout19.mail.aol.com>
Rendered body type: text/plain

```
Though I did not post a msg about either radio or virus, here are some
thoughts..

#1
Anyone who would download an unsolicited program sent my an unknown sig
member (sorry guy) deserves a virus...Why even bother sending it ?
If I wanted the program, I'd ask for it..(or better yet find a safe site to
get it )

#2
Though I enjoyed the little maxon thread,silliyness,  I just had to wonder
about who people think they are ??   Eg

#3  Dont TELL me what kind of radio I can or cant use  (try suggesting)
       Who died and made you the FCC ?
       Your expert opinion ...? I dont think so ...
        Even yours truly made a mistake (once), but the jerk that I
disagree'd with made such a baby out of himself, that nothing got resolved.

#2 Dont TELL me what is appropriate on a sig..
     Its your opinion and you know what body part opinons are
       most compared to..

     Diversity sometimes is welcome. (by some) Just cause it aint you..Tough
cookies..

I#3 Understand that YOUR interpretation of part 97, or whatever is strictly
       that !!
       YOUR INTERPRETATION !
Here is a refreshing thought.....CALM THE HELL DOWN !!

Why cant we all try SUGGESTING things, making points without offending nd
just try to all get along ?  Gees..guys..
KD4EMI@AOL.COM
```

---

686. Re: [APRSSIG:4144] Virus re harris

From: Mike Stickney <michael@calweb.com>
Date: Wed, 28 Aug 1996 17:27:17 -0700
To: aprssig@tapr.org
Message-ID: <3224E3E5.2A08@calweb.com>
Rendered body type: text/plain

```
Please...

If you want to offer a piece of software, tell us where to get it.
Please don't attach unsolicited software to our mail systems.

You can place a hyperlink in your message with the path to the file.
This is MUCH MORE PREFERRED than sending a bazillion copies to people who
```

```
have to download it just to kill it.

Many people have to pay money to their ISPs for the privilege of killing
the file you sent to them.

Thank you.

--
Mike Stickney   Mail: mailto:michael@calweb.com
KM6PX           Home: http://www.calweb.com/~michael
              Packet: km6px.#nocal.ca.usa.noam
                  IP: 44.2.0.132
```

---

687. Re: [APRSSIG:4155] Re: APRSdos Mouse

From: foga@foothill.net (DAN FOGARD)
Date: Wed, 28 Aug 1996 18:20:07 -0700
To: aprssig@tapr.org
Message-ID: <199608290120.SAA01554@ns1.foothill.net>
Rendered body type: text/plain

```
>Actually, my problem isn't that the mouse "leaves".  But, rather that it
>seems to
>become "supercharged" and minor movements will sling it across the screen.
> It does not occur in other programs.
>Robert
>
>i I HAVE THE SAME PROBLEM IT STARTED WITH 76F AND ONLY HAPPENS WHEN APRS IS
   BROUGHT UP THROUGH WINDOWS PROGRAM MANAGER........IF I GO TO DOS AND EXE...
   IT WORKS NORMALLY .........DAN
>
```

---

688. mk100k3 feedback

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Thu, 29 Aug 96 01:41:49 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199608290139040423@msn.com>
Rendered body type: text/plain

```
How big a map can I make for winAPRS, macAPRS etc?
      If your map exceeds the dosAPRS limit of 3000 points it will be stored
with an extension of .dat    The size of this map is limited by an internal
array used to chain together the short segments that come off the CD.  The
array stores the beginning and end of each segment.  The limit is 3000
segments.  This probably limits mk100k to about 10000 points but I am just
guessing now.  This could be raised subject only to the base memory limit.  I
would hesitate to go much above 400k for the .exe file for fear of running
into problems with users with lots of TSR's.

Why doesn't program examine all dlg files for map data?

      You are limited to 100 files extracted from the CD.  I never thought
anyone would want to extract or download more than this at one time.  Move
excess files to another temporary directory.  They all can't contain data for
the maps under construction.   I could raise this to about 150 with ease.  I
could raise it more with a couple of hours of boring coding.

   MK100K was deveoped on a 286 with a single speed CD.  Boy, was it slow, but
I never would have figured out how to chain the short segments if I had not
been able to watch what was going on (agonizingly at times).

    I am going on a two week vacation to a place with no local call internet
acess.  I have unsubscribed from the sig until 16 Sep.

73, Jack, KB4XF (the OM of Carolyn, AC4SK in whose name the e-mail account is
registered)
```

---

689. Re: [APRSSIG:4107] Six meter APRS

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 28 Aug 1996 21:44:52 -0400
To: aprssig@tapr.org
Message-ID: <199608290144.VAA08506@grumpy.magg.net>
Rendered body type: text/plain

```
I have just spent a lot of time these past 2 days with a couple of my 6M
radios for APRS and I have a few thoughts.

1) Unless you have a dedicated radio and antenna 50.62 does not seem as
"tasty" as it once did.
```

A) You are going to have one heck! of a time making commercial radios cover both the normal repeater/simplex sub-band and 50.62 way down near the SSB portion.

B) After some thinking today about mounting the radio this weekend in the truck the antenna problem struck me. How are we going to get enough bandwidth in a normal mobile antenna to cover both the regular FM sub-band and 50.62 ?? Can't be done without high SWR

Now the radio part can be solved by either a amateur rig, (do they even go
down to 50.62??) that will be wide band or a dedicated radio (another box
for the car if you want voice also!). The antenna problem will require two
antennas cut for different portions of the band.

I spent countless of hours with replacing fixed caps with varactor diodes
and changing out caps to ones of lesser value but I had a LOT of help from
co-workers and some good test equipment (Uniden FTL Series 110W, stay away).
I think that this option is only for the brave. Even with all the hoops we
jumped we still only get 3 MHz from about 1.5 MHz of original bandwith. It
is enough but TOO much work and sensivity is still not great at the band edges.

I was ready to suggest 50.62 as a APRS frequency in FL this week to the
coordinators but am glad that I did not yet. 50.62 is not a great idea I
think for casual APRS use. We got to think of something else, I am open to
suggestions and want to act fast on this, been nuff' talk, time for some
action.

>There has been some discussion on using 6m radio to form APRS backbones.
>But there is no easy way, until someone comes up with a level 4 routing
>mechanism for UI packets. But in the meantime, there is plenty of
>potential for using such 6m/UHF crosslinks for remote access as follows:
>
>You live in a valley. Even though you have installed an APRS 2m WIDE on
>top of the mountain, you only see X numbers of stations. The only
>stations you will see digipeated are those that still had an unused WIDE
>in their paths. Assuming no one is exceeding the recommended
>WIDE,WIDE, you will see stations only 1 hop beyond your digi.
>
>BUT your mountain WIDE DIGI IS SEEING lots of other APRS packets
>that have already been digipeated twice (their LAST time). If you simply
>hooked the audio of the 2m-WIDE receiver to the audio transmitter on
>UHF/6m, then on your valley radio on UHF/6m you would see all of those
>packets TOO. In other words, you use the 6m/UHF link as a crossband audio
>repeater so you can hear EVERYTHING that can be heard on the mountain top,
>not just those one-hop packets that will be digipeated by your WIDE.
>
>In essence, you have just extended your RECEIVE range by another WIDE hop
>in all directions. (In APRS, you normally have NO control over your
>receive range, since paths are determined by the sender...) Here you can
>extend everyone in the valleys hearing range by a full hop!
>
>Simiilar you are encouraged to NOT TRANSMIT beyond WIDE,WIDE. Well,
>again, put a 6m/UHF link into the 2m transmitter on the mountain,
>and then your packets will go out from the mountaintop with the WIDE,WIDE
>still intact, instead of using up one of them just to get to the mountain!
>
>So This is where I see the first advantage to 6m and UHF. The SNR on the
>links must be very good to preserve the audio, but if done correctly, it
>will give everyone with a UHF/6m scanner an additional DX receive
>capability! The transmit side is trickier, since you want to have DCD
>active on the 2m freq so that your LINK packets dont collide...
>
>We need some folks thinking about ways to use these other band
>frequencies...
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

690. Re: Patch antenna/pre-amp

From: Mel Muecke <MMuecke@InterfaceTech.com>
Date: Wed, 28 Aug 1996 18:45:42
To: aprssig@tapr.org
Message-ID: <19960828184542.200c1c58.in@InterfaceTech.com>
Rendered body type: text/plain

>Are you the only one (well I built one too) having eventually built
>something with the MAR-6?
>
>I can't believe all the MAR-6 I distributed are still in their packages, :-).
>I would like to hear about it, bas or good news! (For those new on the SIG,
>I organized a group purchase for about 60 MAR-6 in june. Don't ask: I don't
>have any of them left, and won't buy any more)
>

I built one exactly like the one you described, except for adding a couple of caps between the bias resistor and ground (for decoupling??). Since I don't have anything to compare it to, I don't know what to expect. I have it on the end of 12' of RG-8X cable plugged into a garmin-45, and it got a lock in 10 seconds on the first try.

I compared it to the supplied antenna, and found that although it will bring in the sats in the first ring real well, it doesn't seem to get the outside ones very well, when the supplied antenna will bring them all in. I thought it might just be a characteristic of the antenna design that it wouldn't pick up things low on the horizon, where the supplied antenna is more omni-directional.

I loaned it to a friend who has some GPS friendly test equipment where he works to see what he thinks of it - good or bad. I haven't heard back from him yet.

Mel

```
_________________________________________________________
  @__0~_          Mel Muecke - Applications Engineer
 ,>/->/-#         mmuecke@InterfaceTech.com
(*)\--\(*)        Interface Technology - Walnut, CA  USA
                  (909) 595-6030   Fax (909) 595-7177
```

---

691. Re: [APRSSIG:4128] Re: MAXON RADIOS!

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 28 Aug 1996 21:49:29 -0400
To: aprssig@tapr.org
Message-ID: <199608290149.VAA08740@grumpy.magg.net>
Rendered body type: text/plain

Agreed!

>I am finally seeing some sense on this thread. Maxon sells a
>'transmit-only' radio, which has no place in amateur radio. The rules
>and regulations say that you will not interfere with another stations'
>transmission, and you can not 'listen' with a 'transmit-only' radio. You
>will, no doubt, be interfering with other stations if you use the Maxon,
>unless, of course, you intend to use a receiver with it.
>
>Please avoid the use of 'transmit-only' stations, you will be a good ham
>neighbor and will remain within the rules and regulations of the FCC.
>
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us
>
>
>On Wed, 28 Aug 1996, john w dent wrote:
>
>> hi joe
>> I THINK THAT YOUR REQUEST ABOUT MAXCOM HAS NO BERRING ON "APRS" OR OTHER
>> HAM RADIO SYSTEMS ..
>> THERE FORE I THINK YOU SHOULD NOT /... ON HAM / NET
>>
>> THS
>> JOHN
>> WA4MEJ
>>
>> I WOULD NOT HAVE ONE...
>>
>
>

```
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

692. Re: [APRSSIG:4133] Re: MAXON RADIOS!

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 28 Aug 1996 21:50:51 -0400
To: aprssig@tapr.org
Message-ID: <199608290150.VAA08804@grumpy.magg.net>
Rendered body type: text/plain

```
VHF No longer made I believe, just UHF

>ku0g@sprynet.com wrote:
>>
>> Maxon, being based here in Kansas City, is an easy grab around here.  New for
>> $120.00!!!  (UHF, of course)  How many do you want?
>>
>> Best 73,
>> Jim Duncan, KU0G
>> APRS--Kansas City Coordinator
>> EMail:  ku0g@sprynet.com
>
>Hi Jim,
>
>Thanks for your reply but we need VHF/145.790.
>
>73 De Joe N2OOC (new address & phone effective 8/15)
>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
>            Agrelo Engineering
>          Joe Agrelo/President
>    P.O.Box 231 Pattersonville, NY 12137 USA
>             ph (518)864-7551 effective 8/15
>            fax (518)864-7553  "       "
>       mailto:Jagrelo@cris.com
>  WEB: http://home.navisoft.com/agrelo/ae.htm
>Designer & Manufacturer of intelligent microprocessor
>     based Doppler, talking products and RF.
>   Experts in Microchip & Motorola processors
>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

693. Re: [APRSSIG:4128] Re: MAXON RADIOS!

From: ku0g@sprynet.com
Date: Wed, 28 Aug 1996 18:49:03 -0700
To: aprssig@tapr.org
Message-ID: <199608290149.SAA21004@m1.sprynet.com>
Rendered body type: text/plain

```
The Maxon units I know of are TRANSCEIVERS, NOT TRANSMITTERS, guys...I'm good
friends with a local radio dealer that handles them.  They look like neat little
rigs and are CERTAINLY worth investigating for UHF APRS!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

694. Re: [APRSSIG:4139] Re: MAXON RADIOS!

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 28 Aug 1996 21:52:56 -0400
To: aprssig@tapr.org
Message-ID: <199608290152.VAA08902@grumpy.magg.net>
Rendered body type: text/plain

```
The radio originally offered in the sig (radio in question) was NOT a
tranciver, just a transmitter!


>(To the person worried about a TX-only radio - the radio in question is
>a two-way radio.)
>
>Paul
>
>--
>+--------------------------------------------------+
>| Technical Support Engineer, Cyclades Corporation  |
>| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
>| Maker of High Performance Multiport Serial Cards  |
>+--------------------------------------------------+
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

695. Re: [APRSSIG:4167] Radio Shack VHF Radios

From: "Leslie H. Loftin" <lhl@flash.net>
Date: Wed, 28 Aug 1996 21:07:28 -0500
To: aprssig@tapr.org
Message-ID: <3224FB60.66BC@flash.net>
Rendered body type: text/plain

```
I've gone to my local Radio Shack and no problem ordering manuals.
Maybe you need a kind manager!

Les (WD5BYQ)
```

---

696. Re: [APRSSIG:4135] APRS L3 Networking (TexNet)

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 28 Aug 1996 23:16:05 -0400
To: aprssig@tapr.org
Message-ID: <199608290316.XAA13082@grumpy.magg.net>
Rendered body type: text/plain

```
How about having a slimmed down version as Bob does with APRtrak just for
APRS. I understand space problems but is it possible to make a APRS Tex/Net
EEPROM just with the important stuff needed to do digipeating and trunking
for APRS systems.

I for one would be happy to help out on the testing if I can get others
interested in the area. 1st problem is that digi owners have been buying
KPC-3's and other "non clone" TNC's for digi's. I have mentioned this in the
past to many knowing that a special APRS EEPROM code would be necessary in
the near future but not many listened.


edited ###

>I am rather limited on codespace, and constantly bump into the size
>limits, so the few functions added will have to be compact, and need to
>be very well chosen and thought out.  So, also, I can't promise it will
>even happen just for this reason, but it looks like it would be very
>worthwhile to try.  It also looks like it will probably be necessary
>to delve into the world of bankswitched EPROMS from here on out.
>(Another possible outcome of this development might be user EPROMs
>tailored to spotter's TNC's, but this isn't even a defined concept yet).
>

>73 de Bob
>Robert Morgan
>WB5AOH
>Austin, Texas
>morganb@admin.inetport.com
>
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

697. Re: [APRSSIG:4144] Virus re harris

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 28 Aug 1996 20:40:28 -0700 (PDT)

To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960828203715.85F-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

I can't believe you sent the GD file again. What don't you understand
about NO! This is the APRS SIG, post this stuff somewhere else.
  We NEED a moderator.

Bob - wd6dod

698. Re: [APRSSIG:4160] rs232c

From: "David W. McNeil" <ki5vm@flash.net>
Date: Wed, 28 Aug 1996 22:48:19 -0500
To: aprssig@tapr.org
Message-ID: <32251303.6402@flash.net>
Rendered body type: text/plain

wtb@partyline.org wrote:
>
> Does anyone have details on how to hookup rs232c to TI-99/4A computer??

Here's a fairly simple one to answer(if I understand the question), The
TI-99/4A was built during the time that even the manufacturers seemed to
get confused as to which equipment was DTE(data terminal equip) or
DCE(data communication equip). To Simplify the answer--USE A NULL MODEM
ADAPTER on the serial port.
Hope that helps.

73 de Dave KI5VM
[Failure is just an opportunity to try a different approach]

699. Re: MR. Dent, WA4MEJ

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 28 Aug 1996 21:01:33 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960828210150.0977d9de@mailhost.primenet.com>
Rendered body type: text/plain

At 02:25 AM 8/28/96 -0500, john w dent wrote:
>THIS IS NOT HAM RADIO MAXION IS NOT HAM RADIO
>the maxon radio does work but oh my its not an ham radio ....
>this is for APRS and things about APRS not your commersial thing
>
>TKS
>JOHN
>WA4MEJ
>wa4mej@juno.com
>
>

A person mentioned that he could find no record of Mr. Dent's Call.

A run through QRZ's database does indeed show that WA4MEJ is a valid call to
John W. Dent
out of Hilliard, FL. It's a general class ticket issued in 1990. Mr.
Dent's DOB is listed as 1930.

'nuff said?

I doubt Mr. Dent will post here again, or bother to reply to my (and
others...I'm sure) personal e-mail.

I do find it disturbing that someone who has enough knowledge to pass a
General Class exam can not even grasp the basic concepts of the spirit of
this sig or the fact that most commercial radio gear can (and has) been
converted to amateur radio use. His typing, grammar, and spelling combined
with his attitude can anly lead to one conclusion. Mr. Dent is suffering
from severe GOFS. (Grumpy Old Fart Syndrome) :)

73,

Mark
KC7BXS

700. Re: rs232c

From: "David W. McNeil" <ki5vm@flash.net>
Date: Wed, 28 Aug 1996 23:20:16 -0500
To: aprssig@tapr.org
Message-ID: <32251A80.3262@flash.net>

Rendered body type: text/plain

```
David W. McNeil wrote:
>
> David W. McNeil wrote:
> >
> > wtb@partyline.org wrote:
> > >
> > > Does anyone have details on how to hookup rs232c to TI-99/4A computer??
> >
> > Here's a fairly simple one to answer(if I understand the question), The
> > TI-99/4A was built during the time that even the manufacturers seemed to
> > get confused as to which equipment was DTE(data terminal equip) or
> > DCE(data communication equip). To Simplify the answer--USE A NULL MODEM
> > ADAPTER on the serial port.
> > Hope that helps.
> >
> > 73 de Dave KI5VM
>
> Hi, Dave again.
> After posting my first answer to your inquiry, it dawned on me that you
> may be referring to a TI99/4A /WITHOUT the "expansion box" that would
> have the slots where the rs232 card(s) would be installed. The TI rs232
> cards can be internally configured by resoldering a jumper for com1,com2
> or com3,com4. If you have only the TI99/4A "keyboard" you may be out of
> luck unless you scour the sidewalk sales,fleamarkets  for an "expansion
> box" or a third party rs232 adapter (which slides into the
> expansion slot on the right side ( there were some made back then)
> or maybe a sig member has some laying around.
>

> 73 de Dave KI5VM
>
> > [Failure is just an opportunity to try a different approach]
```

---

701. GPS_20 Purchase Update

From: Greg Jones <wd5ivd@tapr.org>
Date: Wed, 28 Aug 1996 23:50:20 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199608290450.XAA26195@tapr.org>
Rendered body type: text/plain

```
We need to get another 10 units purchased before the order can be placed.

Get those friends to buy a unit :-)

Cheers - Greg, WD5IVD
```

---

702. Re: [APRSSIG:4180] Re: Virus re harris

From: William Nolle <wa8inz@cris.com>
Date: Wed, 28 Aug 1996 23:51:19 -0700
To: aprssig@tapr.org
Message-ID: <32253DE7.40C1@cris.com>
Rendered body type: text/plain

```
Bob Lorenzini wrote:
>
>   I can't believe you sent the GD file again. What don't you understand
> about NO! This is the APRS SIG, post this stuff somewhere else.
>   We NEED a moderator.
>
> Bob - wd6dod

Sorry but i don't think a moderator couldn't keep that off of here
either, the person sending it just won't read any of our messages, or
just doesn't have the brains to understand that nobody wants the file.
Gosh i sure hope that's the end of it.
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
        wa8inz@cris.com
      wa8inz@amsat.org
```

703. Re: [APRSSIG:4168] VIRUS and MAXON

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 29 Aug 1996 00:05:58 -0600
To: aprssig@tapr.org
Message-ID: <1370845338-11544@email.firecraker.com>
Rendered body type: text/plain

```
>Though I did not post a msg about either radio or virus, here are some
>thoughts..
>
>#1
>Anyone who would download an unsolicited program sent my an unknown sig
>member (sorry guy) deserves a virus...Why even bother sending it ?
>If I wanted the program, I'd ask for it..(or better yet find a safe site to
>get it )
>
  .......  SNIP........

  I agreed with all other comments except this. The specific virus software
noted here got downloaded by my mailer automatically. I neither asked for
it, wanted it, nor expected it. I resented an unknown user assuming
"everyone will want this" just because that person had a problem and got it
after the fact. It may be useful, I don't know, but sending it to the whole
SIG TWICE!! is not the way to do it.

  One could only imagine the flack here if Bob or Keith e-mailed every
version of their software via the SIG. After all, we all want it right :-}

73,


Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

704. Re: [APRSSIG:4172] Re: Six meter APRS

From: ku0g@sprynet.com
Date: Wed, 28 Aug 1996 22:15:13 -0700
To: aprssig@tapr.org
Message-ID: <199608290515.WAA14313@m1.sprynet.com>
Rendered body type: text/plain

```
We're putting up at 50.62 gateway here in Kansas City in the next few day!!!
We'll beam southeast toward Florida...Watch for us!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

705. you can have it all

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Wed, 28 Aug 1996 23:18:09 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960828230123.26f7222c@harborside.com>
Rendered body type: text/plain

```
I have never been flamed so bad as you idots out there.
It is no wounder why I see so many saying good by to this group.
I thought I was doing a good thing but all you do is gripe about things.

WELL my hard DRIVE has been getting full of filles from someone is sending,
the fills that I can not open. Thay are from MS E-Mailer I have had about
20 of them. I have to go in and delete them by hand and that does PISS ME OFF
when the person does not know he is doing it. Why don't you FLAME him for
this. I was all ways told that if you have a better way then teach it to
him not blast him away for his mistake we all can learn from it.

That was what I thought this group was about!

May all you flamers out there will think about that the next time you FLAME
some one that may be new and is just learning and HELP him in his MISTAKE!!!

Chris WB8YPO
one more gone
```

---

706. Re: [APRSSIG:4144] Virus re harris SPAM!

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 28 Aug 1996 23:43:56 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960828234416.0affbc32@mailhost.primenet.com>
Rendered body type: text/plain

At 11:22 AM 8/28/96 -0500, Chris&Kathleen wrote:

>J0ahdV0M5aCl7OKt+KxLJHhJ3Z3u8P+EAN2mXgZ9Nv1oILTAOt6M632pYDQV01SXH/1IWHIqqsiq
>qjEb1kHjQ2dGLN12QdyOcKAStJGg85p6tP7n8bWgWWBX3fNsYDkifjiotCpI7LxCVakT72CXZUQR
>

Well Bill WA8INZ and Bob WD6DOD, I don't think we have to stand by and take this. Is there no way we can stop this? Like file a complaint about spamming the sig to his ISP? I know in the past, friends of mine have actually had other people's accounts pulled for repeated stuff like this. Or even better, everyone on the SIG make up a 1 meg binary and send it to this guy's mailbox, twice (at least). I think he'd get the idea after seeing the surcharges his ISP tacks on when his mailbox goes over its allotted space.

Has anyone out there actually decoded and run this thing to make sure it's what he says it is? If it is not, I'm sure we could get his account pulled.

I'm adding this one to my weenie file.

Mark Fellhauer
KC7BXS

---

707. Re: [APRSSIG:4185] Re: Virus re harris

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Wed, 28 Aug 1996 23:57:38 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960828234052.26f750e8@harborside.com>
Rendered body type: text/plain

```
At 12:18 AM 8/29/96 -0500, you wrote:
>Bob Lorenzini wrote:
>>
>>   I can't believe you sent the GD file again. What don't you understand
>> about NO! This is the APRS SIG, post this stuff somewhere else.
>>   We NEED a moderator.
>>
>> Bob - wd6dod
>
>Sorry but i don't think a moderator couldn't keep that off of here
>either, the person sending it just won't read any of our messages, or
>just doesn't have the brains to understand that nobody wants the file.
>Gosh i sure hope that's the end of it.
>--
>   Check out my APRS web page
>
>http://www.concentric.net/~wa8inz
>
>            \////
>            (o o)
>      *--o00-(_)-00o--*
>         Bill WA8INZ
>       wa8inz@cris.com
>      wa8inz@amsat.org
>
>
>
Bill go fly a kite and take your web with you!!!!!!!!!

PISSOFF
```

---

708. Re: [APRSSIG:4186] Re: VIRUS and MAXON

From: Chris&Kathleen <wb8ypo@harborside.com>
Date: Wed, 28 Aug 1996 23:57:40 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960828234055.26f793f6@harborside.com>
Rendered body type: text/plain

```
At 12:19 AM 8/29/96 -0500, you wrote:
>>Though I did not post a msg about either radio or virus, here are some
>>thoughts..
>>
>>#1
```

>>Anyone who would download an unsolicited program sent my an unknown sig
>>member (sorry guy) deserves a virus...Why even bother sending it ?
>>If I wanted the program, I'd ask for it..(or better yet find a safe site to
>>get it)
>>
> .... SNIP........
>
> I agreed with all other comments except this. The specific virus software
>noted here got downloaded by my mailer automatically. I neither asked for
>it, wanted it, nor expected it. I resented an unknown user assuming
>"everyone will want this" just because that person had a problem and got it
>after the fact. It may be useful, I don't know, but sending it to the whole
>SIG TWICE!! is not the way to do it.
>
> One could only imagine the flack here if Bob or Keith e-mailed every
>version of their software via the SIG. After all, we all want it right :-}
>
>73,
>
>
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@firecraker.com
>E-Mail Work: rsellers@snds.com
>
>
>
gee Roger I just thout I screwrd up the first time that is why I sent it
the 2nd time. Its to bad that no one would send a msg to HELP but just
take time and BITCH ABOUT IT!!!!!!

PISSOFF

---

709. Re: [APRSSIG:4188] you can have it all

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 29 Aug 1996 01:37:50 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960829013813.1077ce9a@mailhost.primenet.com>
Rendered body type: text/plain

At 01:37 AM 8/29/96 -0500, Chris&Kathleen wrote:

>I have never been flamed so bad as you idots out there.
>It is no wounder why I see so many saying good by to this group.
>I thought I was doing a good thing but all you do is gripe about things.

That's fine. I forgave you once, but after several people pointed out that
this was not proper on the SIG, I got the whole thing from you again. I
don't care if people leave the group because they have thin skins or don't
like confrontation. I've been on-line for 17 years now, and the nets are no
place for the squeamish.
You got flamed by us "idiots" for a good reason, you violated a basic rule
of netiquette. It's a legitimate gripe, despite your good intentions. I
have no way of knowing if the program I get from a stranger is good,
especially when it's mimed to me. I've been hit by a trojan horse once, as
have many people out there. There's no worse feeling than when a foreign
program wipes your C: Drive.

>
>WELL my hard DRIVE has been getting full of filles from someone is sending,
>the fills that I can not open. Thay are from MS E-Mailer I have had about
>20 of them. I have to go in and delete them by hand and that does PISS ME OFF
>when the person does not know he is doing it. Why don't you FLAME him for
>this. I was all ways told that if you have a better way then teach it to
>him not blast him away for his mistake we all can learn from it.

First, several people on the APRS SIG diplomatically pointed out that
sending binaries to the group is not considered proper behavior. I only
responded when after this was pointed out to you I again received this binary.

As for the stuff you are getting from MS-Email, I WOULD blast the guy if he
were doing it to me. IMHO, flames are a useful tool when they are well
deserved. And note, I sent my comments to you via personal e-mail and tried
not to belittle you on the SIG. Flames are only flames when made in public.
I did respond on the sig, but kept my comments fairly well contained.

>That was what I thought this group was about!

Usegroups are a much better place to put binaries or in a upload section on
a server. When in doubt, Ask first. Also, you didn't post an APRS file,
but a virus checker, this is not the virus checker SIG, it's the APRS SIG.
It's a discussion group, not a file swap group.

>
\>May all you flamers out there will think about that the next time you FLAME
\>some one that may be new and is just learning and HELP him in his MISTAKE!!!

Again, I refrained from flaming you on the SIG. I did make a comment about
about adding this to my weenie file, but I didn't go any farther than that.
>
\>Chris WB8YPO
\>one more gone

No one has asked you to leave, at least no one that I know of. And if
someone has, they have no right to. You are certainly welcome to stay, as I
hold no grudges. No one wants you to leave the APRS SIG, we just don't want
anymore binaries sent to us via that medium.

Heck, I've suffered the slings and arrows more than once from many people on
the boards and the net(s). It comes with the territory. I've pulled more
than a few bonehead moves on-line and been slammed for it. My advice to you
is to ride it out, and learn from your mistakes. This will blow over and
most people will have forgotten the whole incident by next week.

In the past a person who I was diametrically opposed to (and who I butted
heads with on many occasions) got himself kicked off FidoNet for his
vitriolic behavior and bible-thumping. I was the first to come to his
defense when that happened.

By all means stay.

73,

Mark Fellhauer
KC7BXS

---

710. Re: [APRSSIG:4190] Re: Virus re harris

From: William Nolle <wa8inz@cris.com>
Date: Thu, 29 Aug 1996 06:26:54 -0700
To: aprssig@tapr.org
Message-ID: <32259A9E.7244@cris.com>
Rendered body type: text/plain

```
Chris&Kathleen wrote:
>
> At 12:18 AM 8/29/96 -0500, you wrote:
> >Bob Lorenzini wrote:
> >>
> >>   I can't believe you sent the GD file again. What don't you understand
> >> about NO! This is the APRS SIG, post this stuff somewhere else.
> >>   We NEED a moderator.
> >>
> >> Bob - wd6dod
> >
> >Sorry but i don't think a moderator couldn't keep that off of here
> >either, the person sending it just won't read any of our messages, or
> >just doesn't have the brains to understand that nobody wants the file.
> >Gosh i sure hope that's the end of it.
> >--
> >   Check out my APRS web page
> >
> >http://www.concentric.net/~wa8inz
> >
> >            \////
> >            (o o)
> >      *--o00-(_)-00o--*
> >         Bill WA8INZ
> >       wa8inz@cris.com
> >      wa8inz@amsat.org
> >
> >
> >
> Bill go fly a kite and take your web with you!!!!!!!!!
>
> PISSOFF
```

711. Re: [APRSSIG:4167] Radio Shack VHF Radios

From: kf4dys@juno.com (Joe Foor)
Date: Thu, 29 Aug 1996 08:00:33 PST
To: aprssig@tapr.org
Message-ID: <19960829.080058.4479.0.kf4dys@juno.com>
Rendered body type: text/plain

On Wed, 28 Aug 1996 18:52:24 -0500 (CDT) BordingK@aol.com writes:
>I picked up a couple of Radio Shack BTX-121 VHF transceivers cheap at
>a
>hamfest recently for use in stand-alone trackers. I've recrystalled
>them to
>145.79, but the owners manual is worthless for details for retuning
>instructions. RH does not sell a tech manual to outsiders.

Hi Ken;

>From 10 to 15 years ago, I had a bunch of RS computer
equipment and the same problem you speak of. After
stopping in dozens of RS stores across the country, I
found a clerk who was more familiar with RS's stock
numbering system. He showed me how to add a couple of
digits to the equipment stock number, to come up with the
manual stock number. After that I had no more trouble
getting repair manuals from RS. Unfortunately, all those
manuals and equipments, have gone on to other hands and I
don't remember what the additional characters were, but
keep looking and you will eventually find a store with a
clerk who can tell you how to do it.

regards,
Joe

---

712. Re: Virus

From: N5RKN@aol.com
Date: Thu, 29 Aug 1996 09:24:01 -0400
To: aprssig@tapr.org
Message-ID: <960829092400_272203412@emout07.mail.aol.com>
Rendered body type: text/plain

Aw... come on gang. Let's drop all the name calling and grips. I'm in total
agreement with those that state that this is a APRS SIG only. Sure, there
have been
some "non" APRS msgs posted. Actually, most of the time, if you just ignore
them..
they go away. But, it's a little disconcerting to see posting with the
language from
our virus post authors. I guess they can't take constructive comments.
 I seldom comment. I just read those msgs that look interesting and delete
the rest.
But after seeing the flood of responses popping up in reference to the virus
msg, I had to delve into them. Maybe they meant well. But, not many of us
will download
files from unknown sources. Personally, my downloads go to another computer
for
expansion. It's only use in life is for that purpose along with a few minor
chores. My
main computer runs Vshield which watches for onboard viruses that may pop up.
  Back to the subject: Let's drop all the msgs and get back to the SIG
purpose.
That's all I have to add...   73'   Robert

---

713. Re: [APRSSIG:4191] Re: VIRUS and MAXON

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 29 Aug 1996 09:00:49 -0600
To: aprssig@tapr.org
Message-ID: <1370813247-652344@email.firecraker.com>
Rendered body type: text/plain

>, you wrote:
>>
>gee Roger I just thout I screwrd up the first time that is why I sent it
>the 2nd time. Its to bad that no one would send a msg to HELP but just
>take time and BITCH ABOUT IT!!!!!!
>
>PISSOFF
>
>
  I ignored the file you sent the first time and didn't send you a message.

The 2nd time I replied to you directly not on the SIG. And I did specify why it's not appreciated to blindly send a file to all SIG members. I held my tongue and tried to get my point to you without flaming.

The message you replied to above was not a reply to you, and in part was a thought in general. You never posted 1st that you had a e-mail virus checking program and didn't ask if anyone was interested. And as far as I can remember, this was your first round of messages posted here to the SIG. I got blasted on my first set of messages too. My e-mailer at that time attached some junk at the end of every message I posted. I heard about it too.

If you take the above attitude because people don't appreciate your thoughfulness, I dont need your files or e-mail. Based on your comment I assume your new to the SIG and maybe even email. If that's the case, you have probably not been flamed too often or had too many people disagree with your thoughts or ideas. If this is the case, I suggest you grow a thicker skin and take your lumps along the way as you learn your way around.

If your not willing to do that.... don't go away mad, just go away.

If you can't understand why someone would get UPSET when an unknown individual sends you a file twice in an email with the word "VIRUS" in the title, you have a lot of learning to do. Now realize that multiplied many times because everyone in the SIG got your file twice.

Now as far as your "PISSOFF" comment..... Grow up, take a hike, get lost, you fill in the blank. You made the mistake, not me. I make plenty of my own without having to take credit for any one elses. If your not willing to learn from your mistake, take your attitude somewhere else ... it won't be missed.

I'm sorry to all SIG members for posting this here. But I did reply privately to this individual and was not trying to flame them with my previous statement. This is my last comment on this and probably the last to this person.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

---

714. NEXT TIME YOU'RE FAIR GAME

From: DDOBBINS@aol.com
Date: Thu, 29 Aug 1996 10:06:32 -0400
To: aprssig@tapr.org
Message-ID: <960829100632_396768852@emout15.mail.aol.com>
Rendered body type: text/plain

I too am sick and tired of receiving both unsolicited email through my provider, and having to sit and watch the auto download of stuff I'm very leary of off this SIG. I've privately emailed those who sent it, and asked them to stop. Others have gone public. Either way, I hope they get the message to stop the attachments. The right place, if there is such a thing, is in the APRS SIG UPLOADS area. Anyhow, the next time I receive such an unsolicted email, I've prepared a special zipped file of all my APRS maps (gotta keep it related, right?), about 3MB, and am just waiting to send it, as an attachment, back to whoever dares. May even send it 2-3 times. You know, I used to live in Hawaii, so this is where I'd say "Time to get back to the beach". Some of the old timers will remember. Now I'm in Seattle, so not yet sure what to say. Weather's been great lately. Hmmmmm. Aloha, Dave/WH6YC, PNW APRS Coordinator (MT-ID-WA-OR), 145.79, unsanctioned, uncoordinated, unsolicited, and understanding.

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715. Re: [APRSSIG:4163] Re: Shirts

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 10:16:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829101528.14105B-100000@arctic>
Rendered body type: text/plain

On Wed, 28 Aug 1996 KD4EMI@aol.com wrote:

> >What size are the shirts available in?

APRSdos REPLY/COMMENT: WIth my check, I didnt indicate size. Get me a large please...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

716. Re: [APRSSIG:4167] Radio Shack VHF Radios

From: Doug Rorem <rorem@cherokee.eecs.uic.edu>
Date: Thu, 29 Aug 1996 09:27:34 -0500
To: aprssig@tapr.org
Message-ID: <rorem-9607291427.AA00027919@cherokee.eecs.uic.edu>
Rendered body type: text/plain

>> Date: Wed, 28 Aug 1996 18:52:51 -0500 (CDT)
>> Reply-To: aprssig@tapr.org
>> Originator: aprssig@tapr.org
>> Sender: aprssig@tapr.org
>> Precedence: bulk
>> From: BordingK@aol.com
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:4167] Radio Shack VHF Radios
>> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
>> X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
>>
>> I picked up a couple of Radio Shack BTX-121 VHF transceivers cheap at a
>> hamfest recently for use in stand-alone trackers. I've recrystalled them to
>> 145.79, but the owners manual is worthless for details for retuning
>> instructions. RH does not sell a tech manual to outsiders.
                  ** I assume you mean Radio Shack?? Try calling their
800 number in Fort Worth, TX. [800-843-7422] I've never had a problem
getting any service manual from them [unless it's not sold anymore].

>>
>> Anyone worked with these little radios and access to a tech manual or the
>> like? Thanks in advance.
>>
>> 73s de KF4COH
>> Ken in Jax

--
Doug Rorem
University of Illinois at Chicago   (312)-996-5439 [voice]
EECS Department RM 1120   (312)-413-1065 [fax]
851 S. Morgan Street   (708)-996-2226 [pager]
Chicago, IL 60607-7053   rorem@uic.edu

---

717. DFjr connections with APRS (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 10:41:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829103406.14105E-100000@arctic>
Rendered body type: text/plain

THe following commentor is right. We need a good concise writeup on how
to hook up the DFjr to APRS.. I am forwarding Roger's message to the sig
for the benefit of other DF'ers:

---------- Forwarded message ----------
From: Roger Sellers <rsellers@firecraker.com>

  I have the DFjr powered from Cig. plug, audio in from Audio out of a Icom
HT. Antenna connection is from the DFjr antenna to mj-45(?) antenna in on
DFjr. RS-232 out of DFjr goes to the MPA. I have a Garmin 45 connected to
the GPS-In plug on MPA. MPA has a DB9 out to a KPC-3 (no radio connected
yet) and DB9 out to COM1 on the laptop. The laptop can use a 2nd comm port
by way of a PCMCIA serial port card. But am not using it in trying to
utilize the SPM of the MPA (God I hate acrynms).

  I read the DF.txt in APRS77.zip and did the ALT-S-GPS-SPM and ALT-S-DFjr.
[We need a]... DFjr.txt file that deals just with how it's connected.
Anyway, last night trying it, I did get a DF signal to the screen. I could
even go to O-C-T and see the %XXX%X for position and quality(?). But today I
could not...

  Also, I did notice a problem with the APRS to DFjr interaction. It has to
do with relative orientation. I dont know if you've addressed this with the
GPS, but I cant tell since I cant get mine to work. Here's the problem as I
see it... [He discribed the fact that APRS needs to subtract the Vehicle
heading from the DF heading to get TRUE ...]

APR REPLY: Yes, we need a good writeup. but CONCISE. APRS should be
compensating for TRUE/RELATIVE. If not, lemme know... With all the
DFjr's out there, a good writeup will save a lot of aggrivation, hi hi...

718. Re: [APRSSIG:4187] Re: Six meter APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 11:20:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829104532.14105F-100000@arctic>
Rendered body type: text/plain

```
On Thu, 29 Aug 1996 ku0g@sprynet.com wrote:

> We're putting up at 50.62 gateway here in Kansas City in the next few day!!!
> We'll beam southeast toward Florida...Watch for us!!!

APRSdos REPLY/COMMENT:  How does it work?   Here are the ways I think of.
Maybe we can use these definitions so that we all know what kind of
crossband system we are talking about during subsequent discussions.

GATEWAY:  Uses a MYGATE call.  Requires stations to specifically route
          via that MYGATE call.  For now, the MYGate call could be
          set to WIDE so that all 2m packets get gated.  But you still
          use up a WIDE getting onto and off of the 6m link...

AUDIO LINK:  Here you have the 6m radio serving as an audio cross band
              repeater.  Allows 6m stations to link into the 2m site
              without using up any hops.  But requires good signals and
              fast radios

PARALLEL:    You connect the 6m radio just like the 2m radio to the same
             TNC.  This way, every packet digipeated on 2m also goes out
             on 6m, every packet comming in on 6m can get digipeated onto
             2m.  This will work initially as long as channel loading is
             low, but with both receivers hooked to the same TNC, there
             will be audio collisions that reduce performance.

DUAL PARALLEL:  You have two TNC's so that each one listens to only trafic
             on its own channel, but then you wire the PTT and TNC XMT
             from each TNC to both radios so that all packets go out on
             both...  You can also wire the PTT of each to the CAR-DET
             so that their transmissions wont collide either...

OTHERS:  ANyone figured out any better ways?


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

719. Re: [APRSSIG:4200] DFjr connections with APRS

From: William Nolle <wa8inz@cris.com>
Date: Thu, 29 Aug 1996 10:45:25 -0700
To: aprssig@tapr.org
Message-ID: <3225D735.33D4@cris.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> THe following commentor is right.  We need a good concise writeup on how
> to hook up the DFjr to APRS..  I am forwarding Roger's message to the sig
> for the benefit of other DF'ers:
>
> ---------- Forwarded message ----------
> From: Roger Sellers <rsellers@firecraker.com>
>
>   I have the DFjr powered from Cig. plug, audio in from Audio out of a Icom
> HT. Antenna connection is from the DFjr antenna to mj-45(?) antenna in on
> DFjr. RS-232 out of DFjr goes to the MPA. I have a Garmin 45 connected to
> the GPS-In plug on MPA. MPA has a DB9 out to a KPC-3 (no radio connected
> yet) and DB9 out to COM1 on the laptop. The laptop can use a 2nd comm port
> by way of a PCMCIA serial port card. But am not using it in trying to
> utilize the SPM of the MPA (God I hate acrynms).
>
>   I read the DF.txt in APRS77.zip and did the ALT-S-GPS-SPM and ALT-S-DFjr.
> [We need a]...  DFjr.txt file that deals just with how it's connected.
> Anyway, last night trying it, I did get a DF signal to the screen. I could
> even go to O-C-T and see the %XXX%X for position and quality(?). But today I
> could not...
>
>   Also, I did notice a problem with the APRS to DFjr interaction. It has to
> do with relative orientation. I dont know if you've addressed this with the
> GPS, but I cant tell since I cant get mine to work. Here's the problem as I
> see it... [He discribed the fact that APRS needs to subtract the Vehicle
```

> heading from the DF heading to get TRUE ...]
>
> APR REPLY: Yes, we need a good writeup. but CONCISE. APRS should be
> compensating for TRUE/RELATIVE. If not, lemme know... With all the
> DFjr's out there, a good writeup will save a lot of aggrivation, hi hi...

I had my system all hooked up with the DFjr, GPS, Laptop and it worked ok from what i could tell. But thinking about this setup what advantage is there to running a GPS and Laptop with the DFjr unless your also planning to run a TNC and transmitter to beacon to the APRS network. Unless i'm missing something here why do i need this?.

```
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

720. Re: [APRSSIG:4201] Re: Six meter APRS

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Thu, 29 Aug 1996 09:45:01 -0600
To: aprssig@tapr.org
Message-ID: <3225BAFD.758E@slkc.uswest.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
>Hack, slice, snip

```
      both...  You can also wire the PTT of each to the CAR-DET
>              so that their transmissions wont collide either...
>
> OTHERS:  ANyone figured out any better ways?
>
```

Maybe what we need to do is start implementing a special gateway development based on tnc KISS mode - that way, the low level protocol issues can be resolved in software rather than having to look to tnc manufacturers. It works great with TCP/IP multiport nets, and although we don't have a network layer to guarantee routing and delivery, it would make the "tweaking" of the packet layer protocol more convenient. It would also allow the use of multiple tncs on a single machine.

The AX25 packet drivers already exist in the public domain in the NOS forums - unfortunately (fortunately?), they are written in C and would have to be ported.

```
--
73
Doug
KC7CO
Radio Free Utah

                             --------
                             |       |
                             |     #  ------
                             |     RFU     |
                             |             |
                             |             |
                             |             |
                              -------------
```

721. Help With error '68'

From: Tom <epdkr@hurricane.net>
Date: Thu, 29 Aug 1996 09:08:50 -0700
To: aprssig@tapr.org
Message-ID: <199608291557.IAA29503@wind.hurricane.net>
Rendered body type: text/plain

For some reason unknown, I started recieving an error while trying to run APRS on my computer while in Windows. I'm hoping someone can help...

```
I have a P120 with 8MB RAM and run WIN95. After I start APRS, it loads,
does a little bit of work- then stops and announces 'ERROR 68' (this is modem
not found according to the info in the readme files).

All other programs, including TELIX (dos version), run fine. I have tried all
combinations of PIF settings and have not been successfuf at getting it to run
while in Windows- it **does** run in DOS however-

Any clues? Maybe this happened to you and you know the 'fix'....

Thanks in advance
73
Tom, KC7DRX
```

722. Re: Forbidden?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 12:15:02 -0400 (EDT)
To: Bill Neal/N0NSA <wmn3@dfw.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829121248.14105J-100000@arctic>
Rendered body type: text/plain

```
On Thu, 29 Aug 1996, Bill Neal/N0NSA wrote about my WEB page:
>
> http://web.usna.navy.mil/~bruninga/aprs.html
>
> I get this msg with my Web Browser:
>
> Forbidden. Your client is not allowed to access the requested object.

APRSdos REPLY/COMMENT:  Something's broke.  Ill see what I can do.  ALso
our local WIDE went down, so now my LIVE web server is hearing NOTHING! hi
hi.  I gotta go fix that too...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

723. To Moderate?

From: kf4dys@juno.com (Joe Foor)
Date: Thu, 29 Aug 1996 08:20:20 PST
To: aprssig@tapr.org
Message-ID: <19960829.111513.4479.0.kf4dys@juno.com>
Rendered body type: text/plain

```
In dealing with various mailing lists, in the past, I
have run across automated lists which attempted to solve
some of the problems we are having. I once saw an automated
server bounce any mesages larger than 10K and also
bounce any messages that have more quoted lines than
original lines. Does anyone know if the listserv at TAPR
has any of these capabilities?

regards,
Joe
```

724. Re: [APRSSIG:4205] Re: Forbidden?

From: Mark Sproul <sproul@ap.org>
Date: Thu, 29 Aug 1996 12:59:38 -0400
To: aprssig@tapr.org
Message-ID: <v03007801ae4b7c6dd543@[165.1.27.20]>
Rendered body type: text/plain

```
>On Thu, 29 Aug 1996, Bill Neal/N0NSA wrote about my WEB page:
>>
>> http://web.usna.navy.mil/~bruninga/aprs.html
>>
>> I get this msg with my Web Browser:
>>
>> Forbidden. Your client is not allowed to access the requested object.
>
>APRSdos REPLY/COMMENT:  Something's broke.  Ill see what I can do.  ALso
>our local WIDE went down, so now my LIVE web server is hearing NOTHING! hi
>hi.  I gotta go fix that too...
>


Many times this because the user is accessing Web pages through a PROXY,
the proxy may then allow and/or restrict access to servers.  This is very
```

common inside of large orginazations. If you are accessing through a
provider, this should NOT be the case. AOL has its own proxy / caching
scheme.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

725. Re: [APRSSIG:4204] Help With error '68'

From: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Date: Thu, 29 Aug 1996 13:48:25 -0400
To: <aprssig@tapr.org>
Message-ID: <199608291854.NAA10359@nebula.ispace.com>
Rendered body type: text/plain

I run APRS 7.7 from WIN 95. I do not use PIF file. The only thing you got
to do is create a shortcut in desktop from Windows explorer, drag your
APRS.EXE by pushing the left button into desktop and "voila" you are in
business.
Jacques, KD4TWB

> From: Tom <epdkr@hurricane.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4204] Help With error '68'
> Date: Thursday, August 29, 1996 12:21
>
> For some reason unknown, I started recieving an error while trying to
> run APRS on my computer while in Windows. I'm hoping someone can help...
>
> I have a P120 with 8MB RAM and run WIN95. After I start APRS, it loads,
> does a little bit of work- then stops and announces 'ERROR 68' (this is
modem
> not found according to the info in the readme files).
>
> All other programs, including TELIX (dos version), run fine. I have tried
all
> combinations of PIF settings and have not been successfuf at getting it
to run
> while in Windows- it **does** run in DOS however-
>
> Any clues? Maybe this happened to you and you know the 'fix'....
>
> Thanks in advance
> 73
> Tom, KC7DRX

726. Re: [APRSSIG:4176] Re: MAXON RADIOS!

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 29 Aug 1996 14:26:37 -0400
To: aprssig@tapr.org
Message-ID: <199608291826.OAA15051@grumpy.magg.net>
Rendered body type: text/plain

That may be so with the new ones that are out on UHF but there was one
model, the one that several bought on the sig that were TX only.

>The Maxon units I know of are TRANSCEIVERS, NOT TRANSMITTERS, guys...I'm good
>friends with a local radio dealer that handles them. They look like neat
little
>rigs and are CERTAINLY worth investigating for UHF APRS!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)

```
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

727. Re: [APRSSIG:4194] Re: Radio Shack VHF Radios

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 29 Aug 1996 14:34:03 -0400
To: aprssig@tapr.org
Message-ID: <199608291834.OAA15480@grumpy.magg.net>
Rendered body type: text/plain

```
Try calling 1-800-The-Shack

I have bought quite a bit from them in bulk (I mean BULK!) for work and it
may pay to go right to the horses mouth. Most of all the ordering I do (for
production) with radio shack is over the telephone, this way I avoid the
annoyed manager who is making $3.00 an hour plus commission. I do not blame
them sometimes, I have seen RS treat their people like trash!


edited ***
>>From 10 to 15 years ago, I had a bunch of RS computer
>equipment and the same problem you speak of. After
>stopping in dozens of RS stores across the country, I
>found a clerk who was more familiar with RS's stock
>numbering system. He showed me how to add a couple of
>digits to the equipment stock number, to come up with the
>manual stock number. After that I had no more trouble
>getting repair manuals from RS. Unfortunately, all those
>manuals and equipments, have gone on to other hands and I
>don't remember what the additional characters were, but
>keep looking and you will eventually find a store with a
>clerk who can tell you how to do it.
>
>regards,
>Joe
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

728. Re: [APRSSIG:4206] To Moderate?

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 29 Aug 1996 13:39:52 -0500
To: <aprssig@tapr.org>
Message-ID: <199608291839.NAA01332@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
If it does let's get! (Although this msg would be "bounced too!)

----------
> From: Joe Foor <kf4dys@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4206] To Moderate?
> Date: Thursday, August 29, 1996 11:41 AM
>
> In dealing with various mailing lists, in the past, I
> have run across automated lists which attempted to solve
> some of the problems we are having. I once saw an automated
> server bounce any mesages larger than 10K and also
> bounce any messages that have more quoted lines than
> original lines. Does anyone know if the listserv at TAPR
> has any of these capabilities?
>
> regards,
> Joe
```

---

729. Re: [APRSSIG:4187] Re: Six meter APRS

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 29 Aug 1996 14:44:54 -0400
To: aprssig@tapr.org
Message-ID: <199608291844.OAA16131@grumpy.magg.net>
Rendered body type: text/plain

```
I will listen but unless the band opens up fat chance. I will also be
listening on the scanner, like I had said sensivity is very poor at the band
```

edges. My radio works but RX is marginal, TX is up at 140W if I want it to be. Still no TNC cable, too much going on but I will try soon. Mic plug has been modified already for RX audio.

>We're putting up at 50.62 gateway here in Kansas City in the next few day!!!
>We'll beam southeast toward Florida...Watch for us!!!
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

730. re: Son of error 68

From: Tom <epdkr@hurricane.net>
Date: Thu, 29 Aug 1996 12:50:37 -0700
To: aprssig@tapr.org
Message-ID: <199608291938.MAA01200@wind.hurricane.net>
Rendered body type: text/plain

One of you fine hams out there did it! Thanks for the help.....

73 to 'yall!

Tom, KC7DRX

you can check out a new APRS home page- under construction- at:

http://hurricane.net/~epdkr/aprs.htm

731. TI-99/4A RS232

From: wtb@partyline.org
Date: Thu, 29 Aug 96 15:24:33
To: aprssig@tapr.org
Message-ID: <9608291524.0LNB300@partyline.org>
Rendered body type: text/plain

Thanks to Dave (KI5VM) for his response to my query on the subject. I'm looking to dedicate the old relic to 1200Packet so my 486 can go to greater things. My TI-99 does not have a dedicated serial port but does have the cartridge connector for various ROMs. I had hoped to solder a wire or two internally and maybe even add a 74xx logic device or slip a connector into the ROM slot.   Advice????   Bill N0LIK wtb@partyline.org

732. Re: Virus re harris

From: Chip <quarry@q.continuum.net>
Date: Thu, 29 Aug 1996 16:43:50 -0400
To: aprssig@tapr.org
Message-ID: <v03007802ae4bb02a4d09@[199.0.52.130]>
Rendered body type: text/plain

>lets try again but not in a mime
>
>Hi all I just got this program that will check for that virus that is
>coming around on the internet. This virus checker is on the internet but I do
>not know where. A friend of mime sent it to me, and I thought I would
>send it on to you all.
>
>I did not send the frist one in mime code so I do not know how it got that
>way.
>As for the Mac or unix Sorry to you guys I work in PC-dos and I wish I did not
>at Times. If you can not open this file Please let me know and I will send
>you a copy by E-mail and last if you do not have a good thing to say,
>Please do not send it to me, I got hit by this thing and it was not good,
>I only wish that some one did what I am doing and may be saved me a lot of
>time putting my Computer back to where it would run again so Please no
>flaming

OK, this is strike two. This is the second time this jerk has cluttered the list with 200k plus uploads to everyone (even though a large number of people have told him not to).

```
I think it's about time the list mom(s) get in the fray and start taking
action.  I think if we don't I'll follow the fine example and post to the
list a copy of each of the MacAPRS and WinAPRS archives (many megs apiece).
Perhaps that will wake someone up.

I've been lurking for a LONG time (since message numbers in the double
digits) and I've ignored many an off-topic flame session, but clogging my
mailbox with multi-minute downloads is flat unacceptable.

Come on, Keith, Bob, Mark, lets get a solution to this quick!!! before he
goes for try three at this stupid upload!

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
    -   eMail to:   quarry@q.continuum.net
 my home page:     <http://www.continuum.net/~quarry/>
 TRAUG home page:  <http://www.continuum.net/~quarry/TRAUG.html>
```

---

733. Re: [APRSSIG:4202] Re: DFjr connections with APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 17:15:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829171241.24778A-100000@arctic>
Rendered body type: text/plain

```
On Thu, 29 Aug 1996, William Nolle wrote:

> > APR REPLY:  Yes, we need a good writeup.  but CONCISE.  APRS should be
> > compensating for TRUE/RELATIVE.  If not, lemme know...  With all the
> > DFjr's out there, a good writeup will save a lot of aggrivation, hi hi...
>
> I had my system all hooked up with the DFjr, GPS, Laptop and it worked ok
> from what i could tell. But thinking about this setup what advantage is there
> to running a GPS and Laptop with the DFjr unless your also planning to run a
> TNC and transmitter to beacon to the APRS network.

APRSdos REPLY/COMMENT: The automatic map interface is the key advantage.
Seeing where you are relative to each new bearing should make it easier to
visualize on the map where the fox is...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

734. APRS and Rockets

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 17:22:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829171514.24778B-100000@arctic>
Rendered body type: text/plain

```
I have a high school student whose hobby is "high power" rockets with
diameters from 2 to 4 inches who I will be mentoring for the next year.
I have seen some some members of the SIG comment  from time to time on
APRS applications.  So if there is a subset of APRS users that want to
keep us informed, lemme know...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

735. Re: [APRSSIG:4204] Help With error '68'

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 29 Aug 1996 17:42:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960829174137.24778C-100000@arctic>
Rendered body type: text/plain

```
On Thu, 29 Aug 1996, Tom wrote:

> I have a P120 with 8MB RAM and run WIN95. After I start APRS, it loads,
> does a little bit of work- then stops and announces 'ERROR 68' (this is modem
> not found according to the info in the readme files).

APRSdos REPLY/COMMENT:  That is device not available.  I get that every
time If I allow WINDOWS to boot.  All I am trying to use is COM1. but
it is "not available under windows"...

try booting straight to DOS...
```

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

736. KPC-3 Parameters

From: jaym1@soho.ios.com (Jay Millard)
Date: Thu, 29 Aug 1996 17:39:56 -0400
To: aprssig@tapr.org
Message-ID: <v01510101ae4bbd03060e@[206.20.7.4]>
Rendered body type: text/plain

Now that I've got the crystals for my friend's new digi in Southwestern CT
(ya'll watch out down South now, he's WELL sited) he needs the parameters
for a KPC-3 TNC. Most of us here in CT would appreciate it if someone
having them would email him directly, not necessary to go through SIG for
this one, at:

KD1DU@aol.com

Thanks in advance.
73 de Jay

Jay Millard
Amateur Radio Station KD1LY
Darien, CT 06820

---

737. Re: [APRSSIG:4215] Re: Virus re harris

From: William Nolle <wa8inz@cris.com>
Date: Thu, 29 Aug 1996 17:01:14 -0700
To: aprssig@tapr.org
Message-ID: <32262F4A.1701@cris.com>
Rendered body type: text/plain

Chip wrote:
>
> my home page: <http://www.continuum.net/~quarry/>
> TRAUG home page: <http://www.continuum.net/~quarry/TRAUG.html>

Chip why are neither one of your URL's listed above working?.

```
--
   Check out my APRS web page

http://www.concentric.net/~wa8inz

            \////
            (o o)
      *--o00-(_)-00o--*
         Bill WA8INZ
       wa8inz@cris.com
      wa8inz@amsat.org
```

---

738. SHIRTS

From: KD4EMI@aol.com
Date: Thu, 29 Aug 1996 18:09:46 -0400
To: aprssig@tapr.org
Message-ID: <960829180945_272586552@emout16.mail.aol.com>
Rendered body type: text/plain

Got about 15 checks today for shirts...

May have to think about a second run...

MIke
KD4EMI

---

739. Help w/Tiny-2/GPS Model

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 29 Aug 1996 18:45:30 -0400
To: aprssig@tapr.org
Message-ID: <199608292245.SAA31082@grumpy.magg.net>
Rendered body type: text/plain

Louis n4ldg@juno.com is having a lot of problems getting a new tiny-2 with
built in GPS to work.

Louis did not get a manual with it today but whatever it is doing it is very
strange. The TNC will be in TNC mode not GPS and all he get's is "no source

callsign". He get's no CMD: prompt at all and has tried a hard reset. No junk on the screen either, it is not his speed that is the problem.

He did get CMD: once when he put the rear button on GPS, that does not make sense, it should have showed on TNC. But anyway even when he got one CMD: it did not accept any commands.

I do not own a TNY-2 so I can't help much, we have tried all the basic stuff, can anyone that owns one of these help him out ?? He is currently pulling his hair out since he has spent a week trying to get something to work right for once. You can contact him direct at n4ldg@juno.com or thru me and I will call him. He is located in Miami but I will flip the dime to finally get him with a working system.

EPROm version is 3.2.14 dated 8/23/96 This is quite recent so maybe it is a source code problem ? Does anyone else have this version of the new firmware ?

73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
Jupiter Farms Florida EL96

---

740. Re: APRS L3 Networking (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Thu, 29 Aug 1996 18:43:27 -0500
To: aprssig@tapr.org
Message-ID: <199608292343.SAA10731@admin.inetport.com>
Rendered body type: text/plain

>How about having a slimmed down version as Bob does with APRtrak just for
>APRS. I understand space problems but is it possible to make a APRS Tex/Net
>EEPROM just with the important stuff needed to do digipeating and trunking
>for APRS systems.
>

There's an idea. That one will go into the list. It's the message server code that is a little topheavy, and unless one can scrounge up the old WD disk controller (cp/m pre-IBMPC style) then it is excess baggqage in the EPROM.

>I for one would be happy to help out on the testing if I can get others
>interested in the area. 1st problem is that digi owners have been buying
>KPC-3's and other "non clone" TNC's for digi's. I have mentioned this in the
>past to many knowing that a special APRS EEPROM code would be necessary in
>the near future but not many listened.

I know, I have been pointing this out for years for all node apps.

The recent experience with the new TAPR TNC-??, which is running a Z180 and 8530-SCC (instead of the SIO/0) is giving TexNet the capability to handle generic Z80 code with either chip. (But not in the same TNC, it will be either / or). Pac-Com sold some TNC's that used the SCC instead of the SIO (I hava a dual-port unit someplace real deep in the pile that I am going to see if I can dredge up), and maybe there were others, so there is a POSSIBILITY that one more platform could be added to the repertoire of conditional assembly controls. I would be curious to know if there are a great number of these units out there in the field that folks might want to put into service. Since this code is pushing a megabyte of Z80 assembler sourcecode, I don't anticipate that there would be any likelyhood at all that it would ever be ported to anything non-Z80 compatible code. (now if one had a fast cheep 486 MS-DOS box (ugh), Z80MU might run it fast enough to be worthwhile, but what a kludge, and still not economical).

I don't recall if I mentioned it or not, but a version of TexNet for the good old TNC2 compatible will run 2 ports, although you lose the ASYNC terminal port, which is what one attaches a high speed modem to. That platform can be used for economical networking, provided you don't need async ports at remote locations (and the A/D converter is available in this device). We have one such node operating in a tower mounted cabinet several hundred feet up on a TV tower, and it is not accessible for casual maintenance. It has to survive for a few years at a time, and the A/D hardware is useful for troubleshooting. It certainly could acquire weather signal analogs, and logicals and pulses wouldn't be hard either. The TNC2 must have some minor surgery to a few traces to dual-port it, and the A/D converter daughtercard plugs into the extra memory socket, and needs maybe a few other leads run to the board to make it play, plus whatever inputs and conditioning is required for the application. That is the 16-input ADC.

```
Present software is capable of making mid-packet limiter, freq, etc
measurements and associating them with the received connect's callsign.
Haven't done UI's yet, but they are feasible, given the codespace!

And if you happen to know of suitable Z80+SCC units and also how the
memory and the I/O are mapped, let me know that too, or point me
in the direction, if there are enough in the field to make it worthwhile.

I am going to wait about a week, and roll all the replies into one
file and ack them.  Then we can make a second pass on the details, and
see where all this takes us.  Thanks to all who took the time to contribute,
and keep ideas coming.

Boy have I ever been flushing stuff to the bit-bucket in the last week!
My bit bucket runneth over....

73 de Bob
Robert Morgan
WB5AOH
Austin, Texas
morganb@admin.inetport.com
```

---

741. Re: [APRSSIG:4100] DFjr, GPS-20 and GPS45 : beware!

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 29 Aug 1996 20:20:50 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608292050.C23748-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Be aware that RS422 is a 'twisted' wire scheme where the wires are used
in a +5/-5 fashion (no ground) and the RS232 has a common ground with the
voltages on each seperate wire going from +9v to -9v.  With the RS422
scheme you must use RS422 receiver chips and each line must have a
terminating resistor of 50 ohms (I have seen 100 ohms).

TTL, of course, has the signals going from near 5v to near ground (+4v to
+.4v or so).  Ground is common.  Some RS232 stuff can work with TTL level
signals but it is not designed to do so.

73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Tue, 27 Aug 1996, Bernard Seront wrote:

> Bob Bruninga wrote:
> >
> > Following solved one users problem between the GPS-20 and the DF-jr.  The
> > GPS-20 output is TRUE RS-232 levels not 0 and 5 as are most NMEA devices.
> > SO in this case, he used a diode to pass only the positive excursions of
> > the TRUE RS-232 so that it looked more like NMEA...
> >
> > From: "Ralph R. Swick"<swick@x.org>
> >
> > Out comes the 'scope (shoulda done this yesterday!) and Bob is
> > (no surprise) right.  GPS-45 is 0v to +5v, GPS-20 is -7.5v to +8v
> > (not bad for +5 in!).
>
> The Garmin GPS 45 NMEA is *NOT* 0v and +5V (not all the time). When the GPS
> 45 is powered with 12v or more the NMEA output will rise to ~11v!
>
> NMEA 0183 suggests (but doesn't require) that the signal complies with RS
> 422 (0 and 5v), but also specifies that any listener (device that receives
> NMEA data) should be able to handle RS 422 *and* RS 232 (-12v to +12v) as
> well. Previous NMEA norms specified RS232 as signal levels.
>
> Be particularly careful when connecting a GPS 45 (and other GPS too) to a
> microcontroller (stamp, PIC, 68HC11 ...) that can only take TTL levels!
>
> Bernard, KB2TGH.
>
> -----
> Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
> http://rock.ess.sunysb.edu:8080/
>
```

742. Re: [APRSSIG:4136] Re: MAXON RADIOS! -Reply

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 29 Aug 1996 20:37:56 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608292001.D4668-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Yes, I misunderstood.  Egg on my face.  I thought the discussion was on
the Maxon transmitters that were being discussed on the sig several
months ago.  I have no knowlege of other Maxon equipment.
SRI,
73



John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us



On Wed, 28 Aug 1996, Doug Nielson wrote:

> It sounds like Bob B. needs to dig up his discussion regarding this
> "interference" issue with these Maxon radios. Apparently, these people
> haven't been following the SIG very long.
>
> >>> John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us> 28 Aug 96
> 05:04 >>>
> I am finally seeing some sense on this thread.  Maxon sells a
> 'transmit-only' radio, which has no place in amateur radio.  The rules
> and regulations say that you will not interfere with another stations'
> transmission, and you can not 'listen' with a 'transmit-only' radio.  You
> will, no doubt, be interfering with other stations if you use the Maxon,
> unless, of course, you intend to use a receiver with it.
>
> Please avoid the use of 'transmit-only' stations, you will be a good ham
> neighbor and will remain within the rules and regulations of the FCC.
>
>
> John W. Wilson, KN4HX
> z004391b@bcfreenet.seflin.lib.fl.us
>
>
> On Wed, 28 Aug 1996, john w dent wrote:
>
> > hi joe
> > I THINK THAT YOUR REQUEST ABOUT MAXCOM  HAS NO BERRING
> ON "APRS" OR OTHER
> > HAM RADIO SYSTEMS ..
> >  THERE FORE I THINK YOU  SHOULD  NOT /... ON HAM / NET
> >
> > THS
> > JOHN
> > WA4MEJ
> >
> > I WOULD NOT HAVE ONE...
> >
>
>
```

743. Re: [APRSSIG:4177] Re: MAXON RADIOS!

From: Paul Christenson <paulc@cyclades.com>
Date: Thu, 29 Aug 1996 17:58:09 -0700
To: aprssig@tapr.org
Message-ID: <32263CA1.F492864@cyclades.com>
Rendered body type: text/plain

```
Richard Garcia wrote:
>
> The radio originally offered in the sig (radio in question) was NOT a
> tranciver, just a transmitter!
>
>>(To the person worried about a TX-only radio - the radio in question is
>>a two-way radio.)

I stand corrected.  It's just that all the Maxon radios I've seen are
full transceivers.

However, for those who maintain that transmit only radios have no place
```

```
in ham radio.. a LOT of the old HF rigs were transmit only!  They were
normally paired with a receive-only radio...

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

---

744. Re: [APRSSIG:4192] Re: you can have it all

From: Paul Christenson <paulc@cyclades.com>
Date: Thu, 29 Aug 1996 18:19:46 -0700
To: aprssig@tapr.org
Message-ID: <322641B2.D8B2BC4@cyclades.com>
Rendered body type: text/plain

```
Mark Fellhauer wrote:

> In the past a person who I was diametrically opposed to (and who I
> butted heads with on many occasions) got himself kicked off FidoNet
> for his vitriolic behavior and bible-thumping.  I was the first to
> come to his defense when that happened.

Wonder whatever happened to Steve???  Last I heard, he was doing his
best to get kicked off of the other FTN nets.

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

---

745. Major Internet Presence Coming from KCAWG!!!

From: ku0g@sprynet.com
Date: Thu, 29 Aug 1996 19:43:57 -0700
To: aprssig@tapr.org
Message-ID: <199608300243.TAA07544@m1.sprynet.com>
Rendered body type: text/plain

```
Watch for a bulletin announcing the opening of a new Kansas City APRS Internet
presence!  We are in the process of getting the domain name of www.kcaprs.org
registered right now.

Here's what we're putting together....

JavAPRS site for the region

EMail access for KCAWG members

and everything you've always thought Internet could do for
APRS!!!

This is still in the planning stages but expect the domain to become active in
the next couple of weeks and the JavAPRS operation will begin almost immediately
after we go active...

T1 pipe and a DEAD HARD SERIOUS ISP to boot!!!

More later....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

746. Re: [APRSSIG:4226] Re: MAXON RADIOS!

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 29 Aug 1996 22:57:13 -0400
To: aprssig@tapr.org
Message-ID: <199608300257.WAA10426@grumpy.magg.net>
Rendered body type: text/plain

```
Granted, we spoke about that long ago on the ORIGINAL posting. But if one
were to connect a RX to the Maxxon TX what is the point on a 1 CH (or 2) 5W
radio at the price that it was sold for ? I know that ADI makes a "cheap"
handheld and mobile at the $189 price range that would do just fine and give
```

```
you a backup HT/Mobile if you ever need it. Without the trouble of ordering
crystals and tuning up the radio, not to mention fixing it to go to 5W.

I started with a DX-60  TX and HR-10B RX Heathkit for HF when I was 10 years
old, nice to think about but I am glad we are still not in the stone age! I
still do have the coaxial relay somewhere for the antenna switching...


>Richard Garcia wrote:
>>
>> The radio originally offered in the sig (radio in question) was NOT a
>> tranciver, just a transmitter!
>>
>>>(To the person worried about a TX-only radio - the radio in question is
>>>a two-way radio.)
>
>I stand corrected.  It's just that all the Maxon radios I've seen are
>full transceivers.
>
>However, for those who maintain that transmit only radios have no place
>in ham radio.. a LOT of the old HF rigs were transmit only!  They were
>normally paired with a receive-only radio...
>
>--
>+---------------------------------------------------+
>| Technical Support Engineer, Cyclades Corporation  |
>| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
>| Maker of High Performance Multiport Serial Cards  |
>+---------------------------------------------------+
>
>
73's Rich N2CZF
n2czf@magg.net
http://www.magg.net/~n2czf                    (Personal)
http://www.magg.net/~n2czf/aprs.html  (Florida APRS)
Jupiter Farms Florida EL96
```

---

747. Re: [APRSSIG:4221] SHIRTS

From: rwf <rwf@mindspring.com>
Date: Thu, 29 Aug 1996 13:13:56 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960829171356.00698c88@atl.mindspring.com>
Rendered body type: text/plain

```
But you still have not responded to my latest Email...



At 05:15 PM 8/29/96 -0500, you wrote:
>Got about 15 checks today for shirts...
>
>May have to think about a second run...
>
>MIke
>KD4EMI
>
>
>
```

---

748. Re: Bill N0LIK's question about TI.

From: rwf <rwf@mindspring.com>
Date: Thu, 29 Aug 1996 13:13:54 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960829171354.00697444@atl.mindspring.com>
Rendered body type: text/plain

```
I'm an old TI 99/4A software author  (Ever hear of the TIBBS  BBS back in
the 80's, I wrote it).  I didn't answer you before because I wasn't sure
what you were asking.  Sometimes we joke on here about the TI-99/4A version
of APRS   ;)

There are three ways to add a serial port:

The TI "sidecar plugin RS232" that is very hard to find.
The TI PEB (Peripheral Expansion Box) with an RS232 card inserted
Any of a couple 3rd party sidecar adapters.

You cannot add one yourself, because the peripherals on a TI were "smart".
```

If you can do newsgroups, try comp.sys.ti   It is a newsgroup for the
machine. If not, email me and I'll pose the question there for you.

Good luck

Ralph Fowler

749. {Precision maps

From: John Munsey <munseyj@america.com>
Date: Thu, 29 Aug 96 23:31:55 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <m0uwKJS-001w7VC@enterprise.america.com>
Rendered body type: text/plain

-- [From: John Munsey * EMC.Ver #2.5.02] --

Is it true that Precision Mapping ver 2.0, with the GPS option, can be used
with APRS ?????

If it is true how do you get APRS to bring the Precision Mapping maps up?

I fear it is not true but hope it can be done.

Please, any help will be appriceated as I need detailed maps of Florida.
--
John Munsey, KB3GK

munsey@n-jcenter.com

750. Re: [APRSSIG:4197] NEXT TIME YOU'RE FAIR GAME

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 30 Aug 1996 00:00:04 -0600
To: aprssig@tapr.org
Message-ID: <1370759292-3897601@email.firecraker.com>
Rendered body type: text/plain

> Anyhow, the next time I receive such an unsolicted email, I've prepared a
>special zipped file of all my APRS maps (gotta keep it related, right?),
about >3MB, and am just waiting to send it, as an attachment, back to
whoever dares.

Humm... you got any I don't have? Need any more? A 3meg sounds kinda small
to me... <grin>

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

751. Re: [APRSSIG:4200] DFjr connections with APRS (fwd)

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 30 Aug 1996 00:00:03 -0600
To: aprssig@tapr.org
Message-ID: <1370759293-3897531@email.firecraker.com>
Rendered body type: text/plain

>THe following commentor is right. We need a good concise writeup on how
>to hook up the DFjr to APRS.. I am forwarding Roger's message to the sig
>for the benefit of other DF'ers:
>
> ....snip...

>APR REPLY: Yes, we need a good writeup. but CONCISE. APRS should be
>compensating for TRUE/RELATIVE. If not, lemme know... With all the
>DFjr's out there, a good writeup will save a lot of aggrivation, hi hi...
>
>

I'll help or document this this as I learn. I'm also offering to Agrelo
Engineering to write a more usable manual for the DFjr.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

752. Re: [APRSSIG:4232] {Precision maps

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Thu, 29 Aug 1996 22:02:08 -0700
To: <aprssig@tapr.org>
Message-ID: <199608300502.WAA25524@mail1.deltanet.com>
Rendered body type: text/plain

```
I too have PM 2.o with the GPS option working.  I would love a way to use
this capability in APRS.

Welcome all comments.

73, KM6YH

----------
> From: John Munsey <munseyj@america.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4232] {Precision maps
> Date: Thursday, August 29, 1996 8:46 PM
>
> -- [ From: John Munsey * EMC.Ver #2.5.02 ] --
>
>
> Is it true that Precision Mapping ver 2.0, with the GPS option, can be
used
> with APRS ?????
>
> If it is true how do you get APRS to bring the Precision Mapping maps up?
>
> I fear it is not true but hope it can be done.
>
> Please, any help will be appriceated as I need detailed maps of Florida.
> --
> John Munsey,  KB3GK
>
> munsey@n-jcenter.com
>
```

---

753. Re: [APRSSIG:4234] Re: DFjr connections with APRS (fwd)

From: William Nolle <wa8inz@cris.com>
Date: Fri, 30 Aug 1996 05:00:31 -0700
To: aprssig@tapr.org
Message-ID: <3226D7DF.3320@cris.com>
Rendered body type: text/plain

```
Roger Sellers wrote:
>
> >THe following commentor is right.  We need a good concise writeup on how
> >to hook up the DFjr to APRS..  I am forwarding Roger's message to the sig
> >for the benefit of other DF'ers:
> >
> > ....snip...
>
> >APR REPLY:  Yes, we need a good writeup.  but CONCISE.  APRS should be
> >compensating for TRUE/RELATIVE.  If not, lemme know...  With all the
> >DFjr's out there, a good writeup will save a lot of aggrivation, hi hi...
> >
> >
>    I'll help or document this as I learn. I'm also offering to Agrelo
> Engineering to write a more usable manual for the DFjr.
>
> 73,
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@firecraker.com
> E-Mail Work: rsellers@snds.com

For a person that NEVER could get the Single Port Adaptor working that I
bought from Paccomm (For a Paccom TNC) let me tell you that i didn't have any
problem at all making the DFjr work with APRS hooked to the GPS,Laptop
configuration. I will be the first one to praise the person that posts a
concise writeup like that, but as for me it was like Bill Gates said to all,
IT's Plug and Play.

--
   Check out my APRS web page

http://www.concentric.net/~wa8inz
```

```
              \////
              (o o)
        *--o00-(_)-00o--*
           Bill WA8INZ
         wa8inz@cris.com
        wa8inz@amsat.org
```

754. SIG Sensory Overload, Solar Panel Battery Charging Questions

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Fri, 30 Aug 1996 06:10:47 -0500
To: aprssig@tapr.org
Message-ID: <199608301110.GAA24144@tapr.org>
Rendered body type: text/plain

Well everyone I hope I'm stepping in at a time wwhen the water is a little calmer on Lake APRS Sig. Kind of reminds me of an Iowa lake on saturday when it's 95° with 95% humidity. I have thoughtfully refrained from comment on some of what I read. I like avoiding foot in mouth complex, which I tend tohave a severe imunne deficiency to. I have some questions I'll get to as soon as I finish digressing.

The gems I've seen on the SIG so far have been the release of 77 and the MacDLG program as well as the TEXNET diiscussion. Keep those coming also I'm awaiting the announcement of the KC Web site change. Here in Iowa we seem to have a fulltime path from the Quad Cites all the way to Kansas City. Just recently there was an APRS bulleitn from KC looking for loaner KPC-3's and 2 meter HT's for the MS 150 event.

Now to my question! I have a Solarex SX-10 solar panel that I believe provides 5 watts at 13.8 volts. I'm in need of a curcuit that will allow me to charge a Gel Cell battery with out frying the battery. I know the curcuit componet values will depend on the amp rating of the Gel Cell I use. What I plan on doing is mounting an HTX-202, KPC-3, power distribution block and U2000 WX in a Hoffman SS NMEA 4 Box. The box will then be mounted along with the solar panel on a 150' water tower along with an Antenna Specialist 4 element Collinear antenna with East West lobes.

If anyone has any experience in this type of installation or just with the Solar Panel stuff, I'd love to hear from you. No matter what anyones say's or what ever type of language they use concerning this SIG; I find it to be a great source of innovation and inspiration.

Lest I forget I downloaded the latest WinAPRS and find it much improved, I figure another rev or three and I'll use it often enough to warrant registering. Hat's off to all the C programmers; I'll stick to Ladder Logic PLC programming and SCADA systems, it's all the pain and suffering I can bear; whatever happened to object oriented programming; you know click and drag, click and drag?

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (_________)
    \  \  \
      \  \
```

755. Pecision Maps- and "sorry"

From: rwf <rwf@mindspring.com>
Date: Thu, 29 Aug 1996 21:34:03 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960830013403.006a0c90@atl.mindspring.com>
Rendered body type: text/plain

Sorry, this doggone reply button situation bit me again. A couple of private replies got posted. Nothing embarrassing, but still extra SIG noise,

Anyway, John Munsey wrote:

>Is it true that Precision Mapping ver 2.0, with the GPS option, can be used
>with APRS ?????

I use both PM with GPS and APRS. I have never seen a way to do it.

>
>If it is true how do you get APRS to bring the Precision Mapping maps up?
>

Not that I have seen!

APRS sort of works with "Streets On Disk", but it only will put a hooked object (from a sep. computer running APRS) onto your SOD screen. It makes SOD think the hooked station is a GPS position to SOD.

>I fear it is not true but hope it can be done.
>
>Please, any help will be appriceated as I need detailed maps of Florida.
>--

PM has that, but not for APRS. I have the best maps of FL I know of on my ftp site. follow my home page to my APRS page. www.mindspring.com/~rwf

---

756. Re: [APRSSIG:4232] {Precision maps

From: Mark Sproul <sproul@ap.org>
Date: Fri, 30 Aug 1996 08:47:11 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae4c92d90172@[165.1.27.20]>
Rendered body type: text/plain

>-- [From: John Munsey * EMC.Ver #2.5.02] --
>
>
>Is it true that Precision Mapping ver 2.0, with the GPS option, can be used
>with APRS ?????
>
>If it is true how do you get APRS to bring the Precision Mapping maps up?
>
>I fear it is not true but hope it can be done.
>
>Please, any help will be appriceated as I need detailed maps of Florida.
>--
>John Munsey, KB3GK
>
>munsey@n-jcenter.com

A "FUTURE" version of WinAPRS might support Precision Mapping CD-ROM. I have the software SDK from the company and the docs to implement it. I am going to give it a try but it is not on the top of my priority list at the moment.

Until then, we have high detail (local street level) maps of ALL of Florida on the CD-ROM. These maps are compatible with MacAPRS and WinAPRS.

Mark

```
_____________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

---

757. Re: [APRSSIG:4237] SIG Sensory Overload, Solar Panel Battery Charging Questions

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Fri, 30 Aug 1996 07:17:54 -0600
To: aprssig@tapr.org
Message-ID: <3226EA02.3C74@slkc.uswest.net>
Rendered body type: text/plain

David Barrett wrote:
>

> use. What I plan on doing is mounting an HTX-202, KPC-3, power distribution
> block and U2000 WX in a Hoffman SS NMEA 4 Box. The box will then be mounted
> along with the solar panel on a 150' water tower along with an Antenna
> Specialist 4 element Collinear antenna with East West lobes.
>   If anyone has any experience in this type of installation or just
> with the Solar Panel stuff, I'd love to hear from you.

Please post the info to the sig or email me a copy, I'd like to see it too.

--
73
Doug
KC7CO
Radio Free Utah

```
                            --------
                            |       |
                            |     #  ------
                            |     RFU     |
                            |             |
                            |             |
                            |             |
                             -------------
```

758. APRS Solar Panel Battery Charging Questions

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 30 Aug 1996 09:18:58 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae4cb1c8f933@[199.1.11.145]>
Rendered body type: text/plain

I went to West Marine and got a "Sun Selector " Solar Energy Control.
   M-8-12V

Most marine stores will have lots of GPS and solar devices.

The M-8-12V unit works on up to 60 volts DC input at 8 Amps.
There are 2 amp and 4 amp units M-2 and M-4 , if you want a smaller unit

Only 4 wires , The unit has 4 status leds
1. Ready
2. Analysing
3. Charging
4. Finished

The unit is a 2x2x1 in. potted module and works with Lead or Gel cells

Sun Selector number is 304-485-7150 (I don't remember the cost)

I used mine for field day battery charging with a variety of
solar racks .

I found that here in Texas in the summer the panel get VERY HOT during
the one hout it is pointed directly at the sun.

Just a quick note : Always use a regulator between a Solar panel and a
electronic device. A 12 Volt panel can output over 20 Volts in full
sunlight.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

759. Try APRS

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 30 Aug 1996 09:21:48 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199608301422.JAA17757@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Here is a reprint from the March 1995 issue of QST, p. 114.

"If you need help, get on the Internet and join TAPR's APRS Special Interest Group (SIG).

TAPR has announced the formulation of an APRS Internet mailing list run by Keith Sproul, WU2Z, APRS programmer for Macintosh computers. APRS is a system used for tracking people, weather, objects, weather balloons and other objects.

This goal of this Special Interest Group (SIG) is to provide a forum for people interested in APRS so that they can ask questions, compare notes and exchange ideas. They'll discuss things pertaining to APRS, such as GPS, GPS units, applications of GPS and APRS (eg, automatic weather-reporting APRS used by hams who report the progress of hurricanes to the National Weather Service Hurricane Information Center in Miami),

```
using APRS in public events like bike-athons, and in emergencies.
        To subscribe to the APRS mailing list send a message to listserv@tapr.org
with the following line in the body of the message: subscribe aprssig
full_name where full_name is your complete first and last name.
        The author of APRS is ARRL Maryland/DC Section Technical Coordinator Bob
Bruninga, WB4APR, (410-553-6021) and the software is available on the ARRL
HQ BBS at 203-666-0578, in the Compuserve HAMNET library, and via
Internet, by anonymous FTP from several sites, including
oak.oakland.edu."

nuff said
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

760. Re: [APRSSIG:4237] SIG Sensory Overload, Solar Panel Battery Charging Questions

From: Bernard Seront <seront@seism1.ess.sunysb.edu>
Date: Fri, 30 Aug 1996 10:41:14 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960830144114.0075d9e8@seism1.ess.sunysb.edu>
Rendered body type: text/plain

```
At 06:24 AM 8/30/96 -0500, you wrote:

>        Now to my question! I have a Solarex SX-10 solar panel that I
>believe provides 5 watts at 13.8 volts. I'm in need of a curcuit that will
>allow me to charge a Gel Cell battery with out frying the battery.

There's a schematic in the ARRL handbook.

Bernard, KB2TGH.

-----
Bernard Seront, seront@seism1.ess.sunysb.edu (MIME ok)
http://rock.ess.sunysb.edu:8080/
```

---

761. Re: [APRSSIG:4238] Pecision Maps- and "sorry"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 30 Aug 1996 11:47:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960830114532.8688G-100000@arctic>
Rendered body type: text/plain

```
On Fri, 30 Aug 1996, rwf wrote:

> APRS sort of works with "Streets On Disk", but it only will put a hooked
> object (from a sep. computer running APRS) onto your SOD screen.  It makes
> SOD think the hooked station is a GPS position to SOD.

APRSdos REPLY/COMMENT:  Nice try.  THe discription above applies to the
APRS interface to Delorme or any other program that accepts a GPS input.
For Streets-On-Disk, the two programs are run under windows with APRS in
the backgroundd and Streets int he foreground.  All of the APRS posits do
show up on Streets...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

762. Re: [APRSSIG:4218] Re: Help With error '68'

From: Tom <epdkr@hurricane.net>
Date: Fri, 30 Aug 1996 10:45:48 -0700
To: aprssig@tapr.org
Message-ID: <199608301733.KAA18227@wind.hurricane.net>
Rendered body type: text/plain

```
At 04:51 PM 8/29/96 -0500, you wrote:
-edited-tad

>APRSdos REPLY/COMMENT:  That is device not available.  I get that every
>time If I allow WINDOWS to boot.  All I am trying to use is COM1. but
>it is "not available under windows"...
>try booting straight to DOS...
>Reply mail addr:  wb4apr@amsat.org

The answer was actually quite simple as suggested by "Jacques C. VOISIN"
```

<jvoisin@nebula.ispace.com>......

WIN95 does indeed create a PIF-type file everytime you run a DOS program
from WIN95.
The answer was to erase the DOS icon with the same file name as (in this
case) APRS77-
Did the trick- all is well now in AORS land- no more problems!! Somehow, I
had managed
to mangle the orgional PIF file- eliminating this file allowed a new one to
be created and
like I say, all is ok.

73!
Tom, KC7DRX

763. Re: [APRSSIG:4244] Re: Pecision Maps- and "sorry"

From: Joe Agrelo <jagrelo@cris.com>
Date: Fri, 30 Aug 1996 14:19:25 -0700
To: aprssig@tapr.org
Message-ID: <32275ADD.77D0@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Fri, 30 Aug 1996, rwf wrote:
>
> > APRS sort of works with "Streets On Disk", but it only will put a hooked
> > object (from a sep. computer running APRS) onto your SOD screen. It makes
> > SOD think the hooked station is a GPS position to SOD.
>
> APRSdos REPLY/COMMENT: Nice try. THe discription above applies to the
> APRS interface to Delorme or any other program that accepts a GPS input.
> For Streets-On-Disk, the two programs are run under windows with APRS in
> the backgroundd and Streets int he foreground. All of the APRS posits do
> show up on Streets...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Bob,

Is there a readme file on how to use Streets-On-Disk with APRS?

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

764. Re: [APRSSIG:4246] Re: Pecision Maps- and "sorry"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 30 Aug 1996 17:49:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960830174852.1484C-100000@arctic>
Rendered body type: text/plain

On Fri, 30 Aug 1996, Joe Agrelo wrote:

> Is there a readme file on how to use Streets-On-Disk with APRS?

APRSdos REPLY/COMMENT: See my COMERCIAL.TXT file for a summary. But Jim
Carter wrote a complete manual that he sells for $25 I think...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

765. WX display formats

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 30 Aug 1996 17:59:00 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960830175153.1484D-100000@arctic>
Rendered body type: text/plain

```
I announced that APRS77 had three new display formats in place of
callsigns:

     TIME/rain/baro
     TIME/winds/baro
     TEMP/rain/baro

These had been done in accordance with a request form the Natl Hurrican
Center.  They had wanted TIME/Wind/gust/rain/baro which I modified because
it was just too long and would cover the map!

They now agree that the shorter format is better, but prefer that RAIN
show with the WIND instead of baro.  So in version 77a, I have turned it
all around again to these optional display formats:

      TIME/WIND/RAIN
      TIME/BARO/RAIN
      TEMP/RAIN

This serves the "severe" weather guys better, by giving them wind and rain
together, and shortens the TEMP/RAIN isplay to what most casual viewers
will want.  The wind is always displayed graphically anyway...

If anyone disagreees strongly, lemme know...
This is a local APRSdos display option and does not affect APRS on-air
formats...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

766. Re: [APRSSIG:4181] Re: rs232c

From: dpage@cvpsun174.ti.com (Doug Page)
Date: Fri, 30 Aug 96 17:24:53 CDT
To: aprssig@tapr.org
Message-ID: <9608302224.AA03410@cvpsun174.cvp.ti.com>
Rendered body type: text/plain

```
> From aprssig@tapr.org  Wed Aug 28 23:24:41 1996
> Posted-Date: Wed, 28 Aug 1996 22:53:10 -0500 (CDT)
> Received-Date: Wed, 28 Aug 96 23:24:41 CDT
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> X-Ph: V5.0@tilde
> From: "David W. McNeil" <ki5vm@flash.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4181] Re: rs232c
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio  APRS Special Interest Group
> Content-Transfer-Encoding: 7bit
> Content-Type> : > text/plain> ; > charset=us-ascii>
> Mime-Version: 1.0
> X-Mailer: Mozilla 3.0 (Win95; I)
> Content-Length: 513
>
> wtb@partyline.org wrote:
> >
> > Does anyone have details on how to hookup rs232c to TI-99/4A computer??
>
> Here's a fairly simple one to answer(if I understand the question), The
> TI-99/4A was built during the time that even the manufacturers seemed to
> get confused as to which equipment was DTE(data terminal equip) or
> DCE(data communication equip). To Simplify the answer--USE A NULL MODEM
> ADAPTER on the serial port.
> Hope that helps.
>
> 73 de Dave KI5VM
> [Failure is just an opportunity to try a different approach]
>
>

Actually,  some of them were not confused, their lives were complicated by the
fact they manufactered true DCE and DTE devices ( a computer could technically
fall under either catagory depending upon the function that it was performing.)
TI, DEC, et al fell  into this category.  Neither IBM nor Apple had this problem
since IBM had opted to use its own `standards' prior to the IBM-PC and  Apple
```

had not made anything prior to the Apple II. It was market pressure (i.e., IBM/Apple compatability), not an end to alleged `confusion' re: DTE/DCE that has led to today's pseudo-standards. After all, a PC is neither a `true' DTE device (i.e., a teletype) nor a `true' DCE device (i.e., modem) although it can emulate either funcion.

More than enough said.

FWIW,

Doug   KC5RRZ

```
        ***************************************************
        *                                                 *
        *                           Doug Page             *
        *                           msgid WDP             *
        *                           (214)995-4092         *
        *                           e-mail w-page@ti.com  *
        *                                                 *
        * The  opinions  are  mine  ( maybe )  and  don't *
        * necessarily represent those of my employer - or *
        * any  other  sane  person,    for  that  matter. *
        ***************************************************
```

767. Re: [APRSSIG:4230] Re: SHIRTS

From: KD4EMI@aol.com
Date: Fri, 30 Aug 1996 18:57:28 -0400
To: aprssig@tapr.org
Message-ID: <960830185727_397942044@emout12.mail.aol.com>
Rendered body type: text/plain

Im sorry RWF what was the question ?

Mike

768. Re: [APRSSIG:4247] Re: Pecision Maps- and "sorry"

From: Joe Agrelo <jagrelo@cris.com>
Date: Fri, 30 Aug 1996 19:07:21 -0700
To: aprssig@tapr.org
Message-ID: <32279E59.7CFE@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Fri, 30 Aug 1996, Joe Agrelo wrote:
>
> > Is there a readme file on how to use Streets-On-Disk with APRS?
>
> APRSdos REPLY/COMMENT: See my COMERCIAL.TXT file for a summary. But Jim
> Carter wrote a complete manual that he sells for $25 I think...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Thank you!

```
73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

769. Mobile to FL

From: "Chris H. Edwards, AE4XO" <hedwards@st6000.sct.edu>
Date: Fri, 30 Aug 1996 19:26:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.960830192233.64390A-100000@st6000.sct.edu>
Rendered body type: text/plain

Hello I will be going to FL this weekend from Middle Ga. Our route will take us through Tampa on I-75. Our final destination is Ft. Myers. Then we'll be heading back on monday. APRS will be running while I am heading down there, hope to see those FL stations!

Everyone have a safe weekend.

```
====================================================
 Southern Tech ARC    |       APRS
       KF4BMG         | Try to hide..
 443.750 Mhz PL 156.7 |   I bet we can find you.
      Technology      |    "We'll Keep Ya
  dedicated to Radio  |       Tracken' "
====================================================

                      Department of Computer Science
               Southern Polytechnic State University, Marietta, GA
         formerly :   Southern College of Technology

       ---------------------------------------------------------
```

---

770. Yet another home page-

From: Tom <epdkr@hurricane.net>
Date: Fri, 30 Aug 1996 04:38:34 -0700
To: aprssig@tapr.org
Message-ID: <199608302328.QAA21105@wind.hurricane.net>
Rendered body type: text/plain

For those who live in the Pacific Northwest, WA-OR-ID-MT......

There is a new home page I'd like you to check out- It's designed with you in mind.

The URL is http://hurricane.net/~epdkr/aprs.htm

This page is free and open to all APRS users to input information- I hope you'll participateand let me know what your needs, wants, and yes.... even complaints are. This is free- take advantage of it!! HIHI

73 and have a great weekend-

Tom, KC7DRX and Debbie, KC7FYA
        Bremerton WA

---

771. Re: [APRSSIG:4236] Re: DFjr connections with APRS (fwd)

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 30 Aug 1996 19:38:34 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9608301900.B7192-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I got my PacComm single port adapter working on my laptop, but I had to put a 9v battery on it to do so. The laptop didn't have enough negative voltage on the RS232 line to satisfy the adapter.

The 9v battery lasts a month or so of daytime use.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Fri, 30 Aug 1996, William Nolle wrote:

```
> Roger Sellers wrote:
> >
> > >THe following commentor is right.  We need a good concise writeup on how
> > >to hook up the DFjr to APRS..  I am forwarding Roger's message to the sig
> > >for the benefit of other DF'ers:
> > >
> > > ....snip...
> >
> > >APR REPLY:  Yes, we need a good writeup.  but CONCISE.  APRS should be
> > >compensating for TRUE/RELATIVE.  If not, lemme know...  With all the
> > >DFjr's out there, a good writeup will save a lot of aggrivation, hi hi...
> > >
```

> > >
> >   I'll help or document this as I learn. I'm also offering to Agrelo
> > Engineering to write a more usable manual for the DFjr.
> >
> > 73,
> > Roger Sellers
> > Amateur Radio: KB9LBU
> > E-Mail Home: rsellers@firecraker.com
> > E-Mail Work: rsellers@snds.com
>
> For a person that NEVER could get the Single Port Adaptor working that I
> bought from Paccomm (For a Paccom TNC) let me tell you that i didn't have any
> problem at all making the DFjr work with APRS hooked to the GPS,Laptop
> configuration. I will be the first one to praise the person that posts a
> concise writeup like that, but as for me it was like Bill Gates said to all,
> IT's Plug and Play.
>
> --
>   Check out my APRS web page
>
> http://www.concentric.net/~wa8inz
>
>   \////
>   (o o)
>   *--o00-(_)-00o--*
>   Bill WA8INZ
>   wa8inz@cris.com
>   wa8inz@amsat.org
>

---

772. Re: [APRSSIG:4253] Yet another home page-

From: William Nolle <wa8inz@cris.com>
Date: Fri, 30 Aug 1996 19:42:43 -0700
To: aprssig@tapr.org
Message-ID: <3227A6A3.1CF9@cris.com>
Rendered body type: text/plain

Tom wrote:
>
> For those who live in the Pacific Northwest, WA-OR-ID-MT......
>
>
> Tom, KC7DRX and Debbie, KC7FYA
>   Bremerton WA

Say hi to Debbie, was just thinking FYA = Fine Yankee APRS'er ;-)

http://www.concentric.net/~wa8inz

```
             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

---

773. Re: [APRSSIG:4232] {Precision maps

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Fri, 30 Aug 1996 20:53:00 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831005300.006d5778@mail.cyberstreet.com>
Rendered body type: text/plain

At 10:46 PM 8/29/96 -0500, you wrote:
>-- [From: John Munsey * EMC.Ver #2.5.02] --
>
>
>Is it true that Precision Mapping ver 2.0, with the GPS option, can be used
>with APRS ?????
>
>If it is true how do you get APRS to bring the Precision Mapping maps up?
>
>I fear it is not true but hope it can be done.
>
>Please, any help will be appriceated as I need detailed maps of Florida.
>--
>John Munsey, KB3GK
>

```
>munsey@n-jcenter.com
>
>John - I hope you can find the answer. I spent 29.00 for the program and
noticed in the write-up that GPS features were available. I called the
tel number listed and a very rude dude told me it was on the internet for
free. I tried - it wasn't. My email to Precision Mapping complaining
illicited no response. Let me know if you learn something and me too.   Ron.
73 cu Ron"KD4AMS"
```

---

774. Shirts

From: KD4EMI@aol.com
Date: Fri, 30 Aug 1996 20:53:59 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <960830205358_273586870@emout17.mail.aol.com>
Rendered body type: text/plain

```
I just got something like 30 orders today !!

I'll have to go to shirt dude and get some more...
The first batch should go into the mail
This Thursday...

PS we made a couple of changes and I wanted to credit the
APRS Ilinois group Web page creator for a neat logo.  I used some
aspects of it, and combined it with some others for a real professional look.
 Since there are so many orders now,  I dont have to worry about eating
shirts, so I will try to upgrade to 2 color  (no extra charge for you guys)
  OR perhaps add callsigns to the opposite  breast side of shirt..
Will see..

Thanks in advance for your support, Its been a labor of "like"
Mike
```

---

775. Re: [APRSSIG:4239] Re: {Precision maps

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Fri, 30 Aug 1996 21:12:40 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831011240.006fcf04@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 08:02 AM 8/30/96 -0500, you wrote:
>>-- [ From: John Munsey * EMC.Ver #2.5.02 ] --
>>
>>
>>Is it true that Precision Mapping ver 2.0, with the GPS option, can be used
>>with APRS ?????
>>
>>If it is true how do you get APRS to bring the Precision Mapping maps up?
>>
>>I fear it is not true but hope it can be done.
>>
>>Please, any help will be appriceated as I need detailed maps of Florida.
>>--
>>John Munsey,  KB3GK
>>
>>munsey@n-jcenter.com
>
>
>
>A "FUTURE" version of WinAPRS might support Precision Mapping CD-ROM.  I
>have the software SDK from the company and the docs to implement it.  I am
>going to give it a try but it is not on the top of my priority list at the
>moment.
>
>
>Until then, we have high detail (local street level) maps of ALL of Florida
>on the CD-ROM. These maps are compatible with MacAPRS and WinAPRS.
>
>
>Mark
>
>___________________________________________________________________________
>Mark Sproul                        |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |
>sproul@ap.org                      |Work: 609-860-7120
>North Brunswick, NJ                |Fax:  609-860-7129
>http://msproul.rutgers.edu/
>___________________________________________________________________________
```

```
>
>
>Mark - I'm new guy on block. What CD ROM? Please!!!          ron/kd4ams
73 cu Ron"KD4AMS"
```

---

776. Re: [APRSSIG:4248] WX display formats

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Fri, 30 Aug 1996 21:24:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831012408.006dc65c@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 05:10 PM 8/30/96 -0500, you wrote:
>I announced that APRS77 had three new display formats in place of
>callsigns:
>
>     TIME/rain/baro
>     TIME/winds/baro
>     TEMP/rain/baro
>
>These had been done in accordance with a request form the Natl Hurrican
>Center.  They had wanted TIME/Wind/gust/rain/baro which I modified because
>it was just too long and would cover the map!
>
>They now agree that the shorter format is better, but prefer that RAIN
>show with the WIND instead of baro.  So in version 77a, I have turned it
>all around again to these optional display formats:
>
>      TIME/WIND/RAIN
>      TIME/BARO/RAIN
>      TEMP/RAIN
>
>This serves the "severe" weather guys better, by giving them wind and rain
>together, and shortens the TEMP/RAIN isplay to what most casual viewers
>will want.  The wind is always displayed graphically anyway...
>
>If anyone disagreees strongly, lemme know...
>This is a local APRSdos display option and does not affect APRS on-air
>formats...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>I have gone to tapr.org home page several times looking for aprs77 to
download. I can't find it. Can you help?                      ron/kd4ams
73 cu Ron"KD4AMS"
```

---

777. Re: [APRSSIG:4252] Mobile to FL

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Fri, 30 Aug 1996 21:28:49 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831012849.006e8ea8@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 06:29 PM 8/30/96 -0500, you wrote:
>Hello I will be going to FL this weekend from Middle Ga. Our route will
>take us through Tampa on I-75. Our final destination is Ft. Myers. Then
>we'll be heading back on monday. APRS will be running while I am heading
>down there, hope to see those FL stations!
>
>Everyone have a safe weekend.
>
>
>
>=====================================================
> Southern Tech ARC    |       APRS
>       KF4BMG         | Try to hide..
> 443.750 Mhz PL 156.7 |   I bet we can find you.
>      Technology      |    "We'll Keep Ya
>  dedicated to Radio  |       Tracken' "
>=====================================================
>
>                      Department of Computer Science
>               Southern Polytechnic State University, Marietta, GA
>         formerly :   Southern College of Technology
>
>       ---------------------------------------------------------
>
>Watch for me on Charlotte Harbor - KD4AMS.Drive safely.   ron.
```

73 cu Ron"KD4AMS"

---

778. Re: [APRSSIG:4236] Re: DFjr connections with APRS (fwd)

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 30 Aug 1996 20:42:50 -0600
To: aprssig@tapr.org
Message-ID: <1370684726-3185794@email.firecraker.com>
Rendered body type: text/plain

```
>For a person that NEVER could get the Single Port Adaptor working that I
>bought from Paccomm (For a Paccom TNC) let me tell you that i didn't have any
>problem at all making the DFjr work with APRS hooked to the GPS,Laptop
>configuration. I will be the first one to praise the person that posts a
>concise writeup like that, but as for me it was like Bill Gates said to all,
>IT's Plug and Play.
>
  I got mine working this AM. Just to see if I did it right, I blew away the
cfig file and did it again. Then I took another laptop with APRS on it, and
did it with that one. So I guess I got the hang of it. I'll start working on
the text this week as soon as I catch up on my homework (playing radio this
week has been too much fun and too many new toys this week).

  Thanks Bob Bruninga and Ed Rogers, N9LCI, for the info.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

779. Re: [APRSSIG:4237] SIG Sensory Overload, Solar Panel Battery Charging Questions

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 30 Aug 1996 20:49:51 -0600
To: aprssig@tapr.org
Message-ID: <1370684305-3211119@email.firecraker.com>
Rendered body type: text/plain

```
>I'm awaiting the announcement of the KC Web site change. Here in Iowa we
>seem to have a fulltime path from the Quad Cites all the way to Kansas City.
>
I'm in Rockford, Illinois and can see Quad Cities all the time. I've
recently been seeing stations in a west to south arc to KC. I can see this
path down to N0ZKK-3. I can also see to the east as far as around Detroit. I
think most of the guys in Chicago area can see them too. If this is the
case, I beleive we have 2 meters string for about 600 miles.
  Thats a lot of potential.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

---

780. Re: [APRSSIG:4256] Re: {Precision maps

From: rwf <rwf@mindspring.com>
Date: Fri, 30 Aug 1996 22:55:45 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831025545.006a8a54@atl.mindspring.com>
Rendered body type: text/plain

```
At 08:04 PM 8/30/96 -0500, Ron wrote:

>>
>>John - I hope you can find the answer. I spent 29.00 for the program and
>noticed in the write-up that GPS features were available. I called the
>tel number listed and a very rude dude told me it was on the internet for
>free. I tried - it wasn't. My email to Precision Mapping complaining
>illicited no response. Let me know if you learn something and me too.   Ron.
>73 cu Ron"KD4AMS"


It *is* on the Internet,  I downloaded it.  It is a crippled (5 minute per
use) version, but upon evaluating it, I called them up and registered it
with a credit card. They gave me a number just like Bob does, that unlocked it.

I now have GA and FL maps downloaded to the laptop and use it frequently
with  *no CD* required.
```

Rich, N2CZF, has seen it operate and so have several of the Orlando APRSers.
The PM folks were very nice to me when I called.

The only thing I don't have for you is their web address. I think it is
www.justsoftworks.com

Ralph

---

781. APRS at 30,000 ft on an L-1011

From: rwf <rwf@mindspring.com>
Date: Fri, 30 Aug 1996 22:55:47 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831025547.006d4fbc@atl.mindspring.com>
Rendered body type: text/plain

I just got off the plane on my trip back from Florida. We held a lot due to weather, so I had a chance to do something kind of neat:

I played with APRS on the Delta Jet. I also played with Precision Mapping/GPS.

I did not have a radio turned on, So I just played with the GPS and maps.

Here's what I did:

I had a Garmin Trackpack 35 PC (one of the 10 channel parallel receiver units that looks like a computer mouse) along with my laptop and a battery to run the GPS. It was the same GPS that was used on the BTTR plane last weekend.

The GPS was sending about 10 sentences once a second at 4800 bps, so I kept overloading the APRS comm buffer, but every other position came out ok.
I put the little bracket for the GPS in the plane window. It comes with a little radar detector type suction cup mount shelf. I received 3-4 satellites, but only got a 3D fix once (29,500 ft).

It was neat watching the plane zip along at 500 MPH. Heck, it was interesting just seeing the the speed that high in knots in the P list!

Needless to say, the other passengers in the immediate area got a kick out of it too. Especially when the pilot lied and said we were now heading to Atlanta (after a long hold over the LaGrange VOR) when we were actually somewhere in Alabama flying in circles.

I then booted up Precision Mapping/GPS. I never saw an altitude readout even with a 3 D fix (possible bug with large altitudes). It worked well and the others were real interested to see us zipping over the streets as I was zoomed in.

The Flight Attendants observed me and gave me no problems at all, but if they had- I was going to get them to check with the Pilot, telling him that a passenger/pilot was wanting to play with his GPS and PC.

Sure would have been fun to have used a rig up there, but I tend to respect those rules!

73
Ralph

---

782. Re: [APRSSIG:4237] SIG Sensory Overload, Solar Panel Battery Charging Questions

From: mbary@nmaa.org (Mark L. Bary)
Date: Sat, 31 Aug 1996 00:35:16 -0700
To: aprssig@tapr.org
Message-ID: <3227EB34.7265@nmaa.org>
Rendered body type: text/plain

David Barrett wrote:

--lots of snipping--

> Now to my question! I have a Solarex SX-10 solar panel that I
> believe provides 5 watts at 13.8 volts. I'm in need of a curcuit that will
> allow me to charge a Gel Cell battery with out frying the battery. I know
> the curcuit componet values will depend on the amp rating of the Gel Cell I
> use. What I plan on doing is mounting an HTX-202, KPC-3, power distribution
> block and U2000 WX in a Hoffman SS NMEA 4 Box. The box will then be mounted
> along with the solar panel on a 150' water tower along with an Antenna
> Specialist 4 element Collinear antenna with East West lobes.
> If anyone has any experience in this type of installation or just

> with the Solar Panel stuff, I'd love to hear from you. No matter what
> anyones say's or what ever type of language they use concerning this SIG; I
> find it to be a great source of innovation and inspiration.

--more snipping--

David,

Check out the article in the September QST entitled "The Micro M - a Miniature Charge Controller" on page 41. This may just be exactly what you're looking for: "a small charge controller using a single power MOSFET as a series switch. It can handle up to 2A of array current and is protected against overvoltage and reverse polarity."

In fact, this may be just the ticket to providing emergency power backup to WIDE digi's in lots of different kinds of installations!

73,

Mark
N4EOC
Germantown, MD

783. New hurricane posit extractor at tapr.org

From: KSwaggart@aol.com
Date: Sat, 31 Aug 1996 00:37:20 -0400
To: aprssig@tapr.org
Message-ID: <960831003719_191515125@emout07.mail.aol.com>
Rendered body type: text/plain

Hi APRSers -

Since we now have 3 storms in the Atlantic, it became real obvious that the naming scheme I had used in WXHURR3 didn't work! When you extracted positions on more than one storm and upload them to your local net, the forecast position "callsigns" were the same and would over write the other storm's forecast posits! KG5QD pointed this out, but I had been putting off making the change.

WXHURR4.ZIP is now at tapr.org:/tapr/SIG/aprssig/files/upload

This version helps correct the problem by adding the first letter of the storm's name as a prefix to the forecast position "callsign". Thus Eduardo's 02/1200 forecast posit is now named "E02/1200Z" and will not be confused with Fran, Gus, or any other Atlantic storm.

However.... if there is both a pacific and atlantic storm with the same first letter, the positions may get stolen. Hopefully that wont occur very often(?). Guess we will see.

Hope this little utility is of some use.

73, Ken, W7KKE
kswaggart@aol.com

784. Re: [APRSSIG:4263] Re: {Precision maps

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sat, 31 Aug 1996 00:59:40 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960831045940.006ee0c8@mail.cyberstreet.com>
Rendered body type: text/plain

At 09:59 PM 8/30/96 -0500, you wrote:
>At 08:04 PM 8/30/96 -0500, Ron wrote:
>
>>>
>>>John - I hope you can find the answer. I spent 29.00 for the program and
>>noticed in the write-up that GPS features were available. I called the
>>tel number listed and a very rude dude told me it was on the internet for
>>free. I tried - it wasn't. My email to Precision Mapping complaining
>>illicited no response. Let me know if you learn something and me too.   Ron.
>>73 cu Ron"KD4AMS"
>
>
>It *is* on the Internet, I downloaded it. It is a crippled (5 minute per
>use) version, but upon evaluating it, I called them up and registered it
>with a credit card. They gave me a number just like Bob does, that unlocked it.
>
>I now have GA and FL maps downloaded to the laptop and use it frequently
>with *no CD* required.

```
>
>Rich, N2CZF, has seen it operate and so have several of the Orlando APRSers.
>The PM folks were very nice to me when I called.
>
>The only thing I don't have for you is their web address.  I think it is
>www.justsoftworks.com
>
>Ralph
>
>

 Ralph : That rings a bell. I will try again. Maybe the guy I talked to just
had a bad hair day. Thanks much!                                  Ron
73 cu Ron"KD4AMS"
```

---

785. javAPRS Update

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 31 Aug 96 10:24:09 -0400
To: <aprssig@tapr.org>, <aprs-fl@tapr.org>
Message-ID: <199608311421.KAA14938@bridge.net>
Rendered body type: text/plain

```
Work on javAPRS continues. The latest feature added is the ability to
choose the map for viewing. Check out:

http://wa4dsy-3.wa4dsy.radio.org/Xaprs/soeast.html

http://www.bridge.net/~sdimse/trip.html

Also, for those of you interested in adding javAPRS to your web pages,
there is now a documentation file, although not yet complete.

http://www.bridge.net/~sdimse/javAPRSprog.html


Steve KO4HD
```

---

786. APRS Queries

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 31 Aug 1996 11:41:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960831102637.11528A-100000@arctic>
Rendered body type: text/plain

```
I am considering adding additional Query capabilities.  Our local
WIDE-RELAY went down (Navy took away power as they prepare to abandon 300
acres of antennas and demolish all 15 antennas 300, 600, 800 and 1200
foot tall, rather than be bothered with the income that they would produce
if leased to private companies...)

   So without a local WIDE (that is why my WEB site is no longer seeing
anything), I was trying to figure out what APRS neighbors could hear best,
to use them as a digi.  So I came up with a QUERY-DIRECT command that
would prompt my neighbors to send me a list of statinos that they could
hear direct...  Then I added a command to query a neighbor to ask his
station to send me his heard log for another station.  The repsonses come
back as messages to me.   So here are the approximate formats.  I am
waiting for concurence with Sproul Bros before releasing these in 77a...

QUERY to W4ABC RESPONSE
-------------- -------------------------------------------------------
Direct         A message to you:  Direct= W3XYZ, W3APC, WB4XYZ, WA$XYZ
Station W3ABC  A message to you:  Hrd W3ABC 14 12 16 45 13 22 27 19
               and a posit for W3ABC so he will show on your map

Oh, the Station Query can use wildcards like STATION WB4A  and it will
respond with a posit and heard message for all stations starting with
WB4A.  I will limit this tho, becasue I want to avoid any response that
takes a lot of channel capacity.

I also improved the general query to another station to allow selectivity.
You can query only his POSIT/STATUS, his MESSAGES, or his OBJECTS. RIght
now, you get them ALL which is overkill.

If the SIG has any other thoughts on what you might want to QUERY an
adjacent APRS station about, then lemme know...  Remember, I want it to be
BRIEF.  DOes the WX query work?  It has been defined since day one, but we
dont have enough WX stations in my area to test it with, and now without a
WIDE, I cant test it either...
```

```
Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

787. Re: [APRSSIG:4262] Midwest paths

From: tcweeden@execpc.com (Tom Weeden)
Date: Sat, 31 Aug 1996 11:13:18 -0500
To: aprssig@tapr.org
Message-ID: <199608311614.LAA01564@mail.execpc.com>
Rendered body type: text/plain

```
>
>>I'm awaiting the announcement of the KC Web site change. Here in Iowa we
>>seem to have a fulltime path from the Quad Cites all the way to Kansas City.
>>
>I'm in Rockford, Illinois and can see Quad Cities all the time. I've
>recently been seeing stations in a west to south arc to KC.

-------------------------------------------------------------------------
I'm in Madison, Wisconsin, and am seeing a lot of what Roger can see, from
the KC area, western & SE IA, a lot of N IL, and a bunch across the lake in
Michigan.  This is thanks to the multiple WIDE,WIDE,WIDE paths (although I
wonder what the WIDE collisions sound like locally!).  Plus, there's been a
band opening going here.

What would be nice when attempting to set up your own digipaths is to know
who can hear whom on a regular basis.  With the use of generic aliases, a
lot of times you don't know by which specific path a packet got to you.  I
would like to suggest some kind of mechanism where stations could post a
list of callsigns that they can hear (and hit) DIRECT so that others can
take advantage of them.  I don't think this SIG is the best place for
that...does anyone have any ideas?

--Tom Weeden, WJ9H
  South-Central Wisconsin SKYWARN Net Manager

  APRS: !4301.38N/08929.95W
```

788. Re: [APRSSIG:4269] APRS Queries

From: Doug Wittich <dwittich@cris.com>
Date: Sat, 31 Aug 1996 15:13:36 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960831191336.0067d224@pop3.concentric.net>
Rendered body type: text/plain

```
>anything), I was trying to figure out what APRS neighbors could hear best,
>to use them as a digi.  So I came up with a QUERY-DIRECT command that
>would prompt my neighbors to send me a list of statinos that they could


I wonder if you can hear me direct, N3VEJ.   I've been trying out APRS, and
am having great fun with it, thanks to some tutorial from Rosie, N3IVO.

But how can I tell from a List who I am hearing direct and who I am hearing
from a repeat?

I saw precious little on my screen since yesterday, your wide up by
Perryville, you, WB3V and one other near you, and a wx at Perryville.
Otherwise, I saw a lot of PA & NJ.

What does it take to set up a WIDE?

dougN3VEJ
```

789. Re: [APRSSIG:4269] APRS Queries

From: KD4EMI@aol.com
Date: Sat, 31 Aug 1996 15:28:24 -0400
To: aprssig@tapr.org
Message-ID: <960831152822_274019518@emout19.mail.aol.com>
Rendered body type: text/plain

```
Gee Bob,

 I though APRS queries were effeminate guys
who hang around the APRS booth at the hamfests..?

Actually those ideas sound great, and I think would add an extra dimension to
the software.
```

Mike KD4EMI@AOL.COM

---

790. Re: [APRSSIG:4248] WX display formats

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 31 Aug 1996 18:37:28
To: aprssig@tapr.org
Message-ID: <199608312238.SAA21492@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi Bob (and the rest of the SIG),

On Fri, 30 Aug you wrote:

>... in version 77a, ...

     Wow! I think this may be the shortest turnaround in ver-
sions yet.  Not that I'm complaining, of course!  Will it be
on TAPR soon?  You didn't say.

>... I have turned it all around again to these optional  dis-
>play formats:
>
>      TIME/WIND/RAIN
>      TIME/BARO/RAIN
>      TEMP/RAIN
>
>This serves the "severe" weather guys better ...

     As a skywarn spotter, I'll put my two cents in by sugges-
ting that TEMP/WIND/RAIN or TEMP/GUST/RAIN might be more use-
ful in getting a better overview of regional conditions.  BTW,
we here in New York City ARES/RACES, as well as our colleagues
in Nassau and Suffolk counties are gearing up for the onslaught
of Hurricane Edouard.  I expect to be at my usual "tide-watch"
spot in one of our local low-lying areas and will have APRS
with me in the truck.  I'll be using it to keep our nets in-
formed of such weather data as APRS gives.  So it would be ap-
preciated if the information that's been uplinked earlier this
year with the other storms were to continue.  73 (glug-glug)


Arte Booten <N2ZRC@gnn.com>(preferred)  or  <N2ZRC@aol.com>(if necessary)
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I am initiating an inverted tachyon pulse to those coordinates now."
```

---

791. Pico TNC-Help

From: Irvin Feldman <irvinf@i1.net>
Date: Sat, 31 Aug 1996 18:42:05 -0500
To: aprssig@tapr.org
Message-ID: <199608312344.SAA08370@mail1.i1.net>
Rendered body type: text/plain

```
TNX for reading, not a packet guru. Pico inop with new firmware(pre-rel
3.2.10 5/13/96).  Reinstalled original and was to make two connects.
Everything seems normal
EXCEPT I cannot monitor any packet burst (on another rcvr) when the HT is keyed.

Anyone remember Gynn's E-mail address?  gwynn@paccomm.com??

TNX
Irv Feldman
N0NOB
E-mail:irvinf@i1.net
```

---

792. Re: [APRSSIG:4272] Re: APRS Queries

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sat, 31 Aug 1996 23:49:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960901034916.006ecee0@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 02:47 PM 8/31/96 -0500, you wrote:
>Gee Bob,
>
> I though APRS queries were effeminate guys
```

>who hang around the APRS booth at the hamfests..?
>
>Actually those ideas sound great, and I think would add an extra dimension to
>the software.
>
>Mike KD4EMI@AOL.COM
>
>

Mike - I was feeling real low down (as they say on Basin Street) amd tired and cranky at 11:46PM Sat nite when I saw your query re: aprs queries. Now I can retire with a lighter disposition and my wife will wonder what I'm smiling about. kd4ams/ron/73
73 cu Ron"KD4AMS"

September 1996

Original source file: aprssig.9609
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-09/TAPR-APRS_1996-09.txt

1. Re: WX display & other stuff

```
From: N5RKN@aol.com
Date: Sun, 1 Sep 1996 02:31:55 -0400
To: aprssig@tapr.org
Message-ID: <960901023153_469592581@emout07.mail.aol.com>
Rendered body type: text/plain
```

```
I'm in agreement on the suggested display of WX.  As SKYWARN coordinator for
West Texas and over 17 counties, we have had APRS up and running for nearly 1
year at the NWS.  Our first season this spring did not much use of it.
 However, I
expected this.  I felt it would be a test season in which we could get a good
look at
how it would benefit us.  With Les (N5KOA) here in Odessa, it's been helpful
to have
him work out some of the problems with his WX program and see the immediate
results.  One interesting quirk, or problem, recently noted.  I was at the
NWS visisting today and showing that particular shift the newest amateur WX
station down
in Alpine.  They noted that the barometer display was showing 20, which
didn't
figure into anything they could see.  However, a direct com connect to the
station (N5JOE) and running //WX (Les's program) displayed the correct info.
 What is the
map display telling us?
  I'm also interested in other SKYWARN coordinator's input and suggestions
and
what they've encountered in using APRS along with SKYWARN.
   Thanks,
                Robert   N5RKN
```

---

2. Win APRS Map Making

```
From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Sun, 1 Sep 1996 07:25:25 -0500
To: <aprssig@tapr.org>
Message-ID: <9609011228.AA06659@dfw.dfw.net>
Rendered body type: text/plain
```

```
Hi all;
I've been doing some maps of the DFW area from the ftp site at USGS for the
DOS version...  But, I'd like to try my hand at better resolution with
WinAPRS.

So far I've not seen ANY documentation with WinAPRS on HOW to make a map
for this program.  Yes, I know you can use the same program (MK100 ect) I
currently use for DOS maps.  But, it usually dies about 1/3 of the way
through making a DOS map with the detail that I'm looking for.

Anyone have some direction for me?

Cheers, Bill Neal
http://www.dfw.net/~wmn3/
System in use:  Pentium 100MHz/16Meg/Win95
```

---

3. Re: [APRSSIG:4277] Win APRS Map Making

```
From: davidc@tbcnet.com (David Chesser)
Date: Sun, 1 Sep 1996 09:29:31 -0500
To: aprssig@tapr.org
Message-ID: <199609011429.JAA12372@tbc1.tbcnet.com>
Rendered body type: text/plain
```

```
Try downloading MacDLG from TAPR. Yes I know It's a Mac program but find
someone with a Mac and use it. I have tryed this program myself making maps
a large as 277k points it even has some data reduction.
```

---

4. Re: [APRSSIG:4277] Win APRS Map Making

```
From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 01 Sep 1996 09:29:50 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960901142950.006b7e6c@tbcnet.com>
Rendered body type: text/plain
```

First, maps made for dosAPRS work great in WinAPRS. Just copy them into the \WINAPRS\MAPS directory.

Second, using MKMAPxxx.exe, with the USGS DLG/Optional CDRom, I've been able to make fairly detailed maps for WinAPRS, that won't work with dosAPRS (because of the 3000 pt limit).

To see some, go to
http://tbcnet.com/~jleonard/n9vjq.htm

73s

jbl

At 07:43 9/1/96 -0500, you wrote:
>Hi all;
>I've been doing some maps of the DFW area from the ftp site at USGS for the
>DOS version... But, I'd like to try my hand at better resolution with
>WinAPRS.
>
>So far I've not seen ANY documentation with WinAPRS on HOW to make a map
>for this program. Yes, I know you can use the same program (MK100 ect) I
>currently use for DOS maps. But, it usually dies about 1/3 of the way
>through making a DOS map with the detail that I'm looking for.
>
>Anyone have some direction for me?
>
>Cheers, Bill Neal
>http://www.dfw.net/~wmn3/
>System in use: Pentium 100MHz/16Meg/Win95
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157

5. WX Legal

From: William Nolle <wa8inz@cris.com>
Date: Sun, 01 Sep 1996 10:03:45 -0700
To: aprssig@tapr.org
Message-ID: <3229C1F1.71CA@cris.com>
Rendered body type: text/plain

I want to pose another question to the sig and specially Bob on the legality of the OBJECT. I have a local weather station showing on the map as GHCC in this beacon or P list all it shows is the <C-5>. No indication other then the C-5 on who is transmitting this wx signal. Now i know who's station it is but others i'm sure are wondering. Of course part 97 is a legal document that i'm sure covers this somewhere but i can't find it. I think the explination for this WX station is that it's being transmitted as an object, but can an object actually be a transmitting site?.

In other words the way it's being done as i can see it that there's a transmitter at this site with no callsign, but to ID another station places an object at that site with the desicnation of <C-5> (An object).

```
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

6. Re: Re: Win APRS Map Making

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Sun, 1 Sep 1996 10:03:34 -0500
To: <aprssig@tapr.org>

Message-ID: <9609011505.AA15166@dfw.dfw.net>
Rendered body type: text/plain

I'm making maps for a specialized function, Search and Rescue. We follow
the 15" X 15" grid system that the US Government uses. Unfortunately, we
find ourselves looking for a lost person within a 5 mile area most of the
time.

Being able to tag/name areas and include ALL the data the USGS has for an
area is very helpful. This also allows us to make maps that have various
combo's of the USGS data for any situation. I've got the entire area
mapped for DOS APRS, but want to try out the WinAPRS for our mobile command
post. It'll have a high end microprocessor running a mini ethernet LAN, so
it could conceivably run WinAPRS without choking the LAN.

Also, running WinAPRS and having a map making function available for IT,
would enable us to make maps "on the fly" via cell phone and the Internet
when being stationed to a never before seen area before (yes I know I could
by the USGS CD, but why when the're updating next year?). Having an easy
one map does all would be nice as opposed to the many map with differing
levels of detail as in DOS... Or have I just inserted foot into mouth, by
saying WinAPRS does something it doesn't?

See, map making info would be real helpful so that I (and maybe others)
don't have to guess about capabilities and other stuff. That way I don't
get footus in da mouthus! Cheers y'all, Bill Neal / N0NSA

7. Re: [APRSSIG:4279] Re: Win APRS Map Making

From: Neil Lauritsen <scout@gte.net>
Date: Sun, 01 Sep 1996 12:39:28 -0400
To: aprssig@tapr.org
Message-ID: <3229BC40.20DF@gte.net>
Rendered body type: text/plain

John B. Leonard, Jr wrote:
>
> First, maps made for dosAPRS work great in WinAPRS. Just copy them into the
> \WINAPRS\MAPS directory.
>
> Second, using MKMAPxxx.exe, with the USGS DLG/Optional CDRom, I've been able
> to make fairly detailed maps for WinAPRS, that won't work with dosAPRS
> (because of the 3000 pt limit).
>
> To see some, go to
> http://tbcnet.com/~jleonard/n9vjq.htm
>
> 73s
>
> jbl
>
> At 07:43 9/1/96 -0500, you wrote:
> >Hi all;
> >I've been doing some maps of the DFW area from the ftp site at USGS for the
> >DOS version... But, I'd like to try my hand at better resolution with
> >WinAPRS.
> >
> >So far I've not seen ANY documentation with WinAPRS on HOW to make a map
> >for this program. Yes, I know you can use the same program (MK100 ect) I
> >currently use for DOS maps. But, it usually dies about 1/3 of the way
> >through making a DOS map with the detail that I'm looking for.
> >
> >Anyone have some direction for me?
> >
> >Cheers, Bill Neal
> >http://www.dfw.net/~wmn3/
> >System in use: Pentium 100MHz/16Meg/Win95
> >
> --
> J Barry Leonard/N9VJQ
> DeKalb IL
> E-MAIL: jleonard@tbcnet.com
> WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
> American Red Cross Disaster Services - DeKalb Co Chapter
> DR444 DR157

I have found that every aprsdos mapfile I try to use with WinAprs loses
the map outline showing everything else ok ,,any hints or fixes for this
prob?

8. Re: [APRSSIG:4282] Re: Win APRS Map Making

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 01 Sep 1996 13:32:41 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960901183241.006c59ac@tbcnet.com>
Rendered body type: text/plain

```
At 11:57 9/1/96 -0500, you wrote:

>
>I have found that every aprsdos mapfile I try to use with WinAprs loses
>the map outline showing everything else ok ,,any hints or fixes for this
>prob?


WinAPRS will take a DOS map, and go all the way to the furthest limits of
the map, in spite of where the border says it should be.  Also, WinAPRS
discards/ignores the border of the DOS map.

The only way that I've been able to fix this is to TASK-Trim the map in
question, saving everything that's relevant to the map, and discarding
everything else.

The area where I saw this most evident was when I was making a map for
Rockford IL, and then I TASK-Imported the water info from a USGS 2m map of
the county.  While DosAPRS loaded at the same border as before, WinAPRS
suddenly shot out to the extremes of the new map.  As the Rock River went
from up in WI to Lee County in the new map, that's where WinAPRS loaded it.
Trimming it fixed the problem.


See

http://tbcnet.com/~jleonard/n9vjq.htm

for a comparison of DosAPRS/WinAPRS using a DOS map.


jbl
-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

---

9. Re: [APRSSIG:4260] Re: Mobile to FL

From: Gary Arnold <garnold@naples.net>
Date: Sun, 01 Sep 1996 21:13:13 -0700
To: aprssig@tapr.org
Message-ID: <322A5ED9.3BAF@naples.net>
Rendered body type: text/plain

```
Ronald Oblinger wrote:
>
> At 06:29 PM 8/30/96 -0500, you wrote:
> >Hello I will be going to FL this weekend from Middle Ga. Our route will
> >take us through Tampa on I-75. Our final destination is Ft. Myers. Then
> >we'll be heading back on monday. APRS will be running while I am heading
> >down there, hope to see those FL stations!
> >
> >Everyone have a safe weekend.
> >
> >
> >
> >=====================================================
> > Southern Tech ARC    |       APRS
> >       KF4BMG         | Try to hide..
> > 443.750 Mhz PL 156.7 |   I bet we can find you.
> >      Technology      |    "We'll Keep Ya
> >  dedicated to Radio  |       Tracken' "
> >=====================================================
> >
> >                      Department of Computer Science
> >               Southern Polytechnic State University, Marietta, GA
> >         formerly :   Southern College of Technology
> >
> >       --------------------------------------------------------
> >
> >Watch for me on Charlotte Harbor - KD4AMS.Drive safely.   ron.
> 73 cu Ron"KD4AMS"

You probably won't see much in the Ft. Myers area (we never see FMY here
anyway)...but you should see Ron in Pt. Charlotte, and the guys in
Naples.  Ron: why don't we see you down here????

73,
Gary

(Reply sent to the sig, becasue the original message sender did not
include a return address...except the sig!)
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I went to a restaurant that serves 'breakfast at any time'.  I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary
```

10. Re: [APRSSIG:4284] Re: Mobile to FL

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sun, 01 Sep 1996 22:56:24 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960902025624.006fcee0@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 04:13 PM 9/1/96 -0500, you wrote:
>Ronald Oblinger wrote:
>>
>> At 06:29 PM 8/30/96 -0500, you wrote:
>> >Hello I will be going to FL this weekend from Middle Ga. Our route will
>> >take us through Tampa on I-75. Our final destination is Ft. Myers. Then
>> >we'll be heading back on monday. APRS will be running while I am heading
>> >down there, hope to see those FL stations!
>> >
>> >Everyone have a safe weekend.
>> >
>> >
>> >
>> >====================================================
>> > Southern Tech ARC    |       APRS
>> >       KF4BMG         | Try to hide..
>> > 443.750 Mhz PL 156.7 |   I bet we can find you.
>> >      Technology      |    "We'll Keep Ya
>> >  dedicated to Radio  |       Tracken' "
>> >====================================================
>> >
>> >                      Department of Computer Science
>> >               Southern Polytechnic State University, Marietta, GA
>> >         formerly :   Southern College of Technology
>> >
>> >       ---------------------------------------------------------
>> >
>> >Watch for me on Charlotte Harbor - KD4AMS.Drive safely.   ron.
>> 73 cu Ron"KD4AMS"
>
>You probably won't see much in the Ft. Myers area (we never see FMY here
>anyway)...but you should see Ron in Pt. Charlotte, and the guys in
>Naples.  Ron: why don't we see you down here????
>
>73,
>Gary
>
>(Reply sent to the sig, becasue the original message sender did not
>include a return address...except the sig!)
>--
>
>Gary Arnold CEM
>Coordinator, Collier County (FL) Emergency Management
```

```
>garnold@naples.net
>76656.2753@compuserve.com
>[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam
>
>EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
>Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"
>
>
>"I went to a restaurant that serves 'breakfast at any time'.  I ordered
>French Toast during the Renaissance."
>           -- Steven Wright, perpipheral visionary
>
>

 Gary I don't know why you don't see me on your screen. I see you all the
time. It is probably due to the digi or path I use. I am really confused
abaout the wide's and gate's and relay's. I run a 26 element beam with
over 100 watts and I aim it directly south quite often. Some evenings I get
4 or 5 pages of log. I save the large ones. If someone gave a class on this
APRS I would pay for it and drive a hundred miles to get to it. I'm picking
up bits and pieces here and there. But you should see me - darn it!. PS: In
answer to your query - don't change a thing. Everyone up here likes the mess-
ages and the screen plots the way they are.

Ron/73
73 cu Ron"KD4AMS"
```

11. Re: [APRSSIG:4280] WX Legal

From: Wendy S Helm <wendysue@global2000.net>
Date: Mon, 02 Sep 1996 01:08:38 -0400
To: aprssig@tapr.org
Message-ID: <322A6BD6.555F@global2000.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> I want to pose another question to the sig and specially Bob on the
> legality of the OBJECT. I have a local weather station showing on the map
> as GHCC in this beacon or P list all it shows is the <C-5>. No indication
> other then the C-5 on who is transmitting this wx signal. Now i know
> who's station it is but others i'm sure are wondering. Of course part 97
> is a legal document that i'm sure covers this somewhere but i can't find
> it. I think the explination for this WX station is that it's being
> transmitted as an object, but can an object actually be a transmitting
> site?.
>
> In other words the way it's being done as i can see it that there's a
> transmitter at this site with no callsign, but to ID another station
> places an object at that site with the desicnation of <C-5> (An object).
>
> --
>    Check out my APRS Web Page.
>     Totally Devoted to APRS
>
> http://www.concentric.net/~wa8inz
>
>              \////
>              (o o)
>        *--o00-(_)-00o--*
>           Bill WA8INZ
>         wa8inz@cris.com
>         wa8inz@amsat.org

Bill

I think that the rule 97.113(a) says it all!

John << N2OJY >>
```

12. Re: [APRSSIG:4285] Re: Mobile to FL

From: William Nolle <wa8inz@cris.com>
Date: Sun, 01 Sep 1996 23:19:27 -0700
To: aprssig@tapr.org
Message-ID: <322A7C6F.F13@cris.com>
Rendered body type: text/plain

```
Ronald Oblinger wrote:
>
> At 04:13 PM 9/1/96 -0500, you wrote:
```

```
> >Ronald Oblinger wrote:
> >>
> >> At 06:29 PM 8/30/96 -0500, you wrote:
> >> >Hello I will be going to FL this weekend from Middle Ga. Our route will
> >> >take us through Tampa on I-75. Our final destination is Ft. Myers. Then
> >> >we'll be heading back on monday. APRS will be running while I am heading
>
>  Gary I don't know why you don't see me on your screen. I see you all the
> time. It is probably due to the digi or path I use. I am really confused
> abaout the wide's and gate's and relay's. I run a 26 element beam with
> over 100 watts and I aim it directly south quite often. Some evenings I get
> 4 or 5 pages of log. I save the large ones. If someone gave a class on this
> APRS I would pay for it and drive a hundred miles to get to it. I'm picking
> up bits and pieces here and there. But you should see me - darn it!. PS: In
> answer to your query - don't change a thing. Everyone up here likes the mess-
> ages and the screen plots the way they are.
>
> Ron/73
> 73 cu Ron"KD4AMS"

Hi Ron, just read your message and felt i should put in my two cents Hi. It
may not be your station at all. A good example is my own station, i run a
pair of stacket 13B2's at abt 50 feet with a Mirage B 5030 G amp that's about
275 watt into those beams with the radio i'm running it with, yet there's one
digi about 80 miles away that i can hear direct that i cannot hit at all due
to all the intermod on that site, yet i can hit N4NEQ-3 that is 158 miles
away without any problem. The best all around path to use if in question is
WIDE,WIDE try not to use relay. Or look in your D list and see who is hitting
you direct by the * in front of the call. So you see them on the map and you
use WIDE,WIDE and they don't see you it's on their end not yours. Sorry for
butting in.

--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

13. APRS beacon format

From: "Don Murray" <james-m@ix.netcom.com>
Date: Mon, 2 Sep 1996 02:42:26 -0400
To: <aprssig@tapr.org>
Message-ID: <199609020646.XAA18079@dfw-ix11.ix.netcom.com>
Rendered body type: text/plain

```
Could someone help me with a problem I am having..

I have another local station beaconing the following and I am not able to
see his station on my map the way he is listing it in his beacon..

N4FOR>BEACON,WIDE:!3204.67N/8105.70W#PHG5390/WIDE-RELAY/Connect to N4FOR-2
for message.

as I said I am not able to see this station on my local map, he is within a
couple of mile so me, and I can manually enter him onto my may.. I think
the reason he is not showing up with the info give above is because he has
left out the leading 0 in front of the 8105.70W location.  Am I right about
this or is there something I am doing wrong that is not allowing this
station to show up properly on my APRS map??

Thanks in advance for any help..

Don
AE4BR
```

14. Addesses

From: William Nolle <wa8inz@cris.com>
Date: Sun, 01 Sep 1996 20:29:19 -0700
To: aprssig@tapr.org
Message-ID: <322A548F.C25@cris.com>
Rendered body type: text/plain

I am adding a fourth page to my APRS webpage and here's what i would like to do. Those of you that are willing to help someone get started using APRS in your area, and can hit most of your local digi's in the town you live in then i would like to list your e-mail address so a newcommer after reading all about APRS on my web page can at least have someone to contact to help him get setup and on what and what not to do (Just your E-Mail address and the town and State your located in will do). I don't know if this is workable, but i'm willing to try. If you have it just give the Amsat.org address if you wish. I don't want to do this unless your willing to help a new APRS user in your town!.

```
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

15. Re: [APRSSIG:4264] APRS at 30,000 ft on an L-1011

From: Knut Finnevolden <knutf@mail.idt.net>
Date: Mon, 02 Sep 1996 08:10:48 -0700
To: aprssig@tapr.org
Message-ID: <322AF8F8.21AC@mail.idt.net>
Rendered body type: text/plain

rwf wrote:

> I just got off the plane on my trip back from Florida. We held a lot due to
> weather, so I had a chance to do something kind of neat:
> I played with APRS on the Delta Jet. I also played with Precision Mapping/GPS.
> I did not have a radio turned on, So I just played with the GPS and maps.
> Here's what I did:
> I had a Garmin Trackpack 35 PC (one of the 10 channel parallel receiver
> units that looks like a computer mouse) along with my laptop and a battery
> to run the GPS. It was the same GPS that was used on the BTTR plane last
> weekend.
> The GPS was sending about 10 sentences once a second at 4800 bps, so I kept
> overloading the APRS comm buffer, but every other position came out ok.
> I put the little bracket for the GPS in the plane window. It comes with a
> little radar detector type suction cup mount shelf. I received 3-4
> satellites, but only got a 3D fix once (29,500 ft).
> It was neat watching the plane zip along at 500 MPH. Heck, it was
> interesting just seeing the the speed that high in knots in the P list!
> Needless to say, the other passengers in the immediate area got a kick out
> of it too. Especially when the pilot lied and said we were now heading to
> Atlanta (after a long hold over the LaGrange VOR) when we were actually
> somewhere in Alabama flying in circles.
> I then booted up Precision Mapping/GPS. I never saw an altitude readout
> even with a 3 D fix (possible bug with large altitudes). It worked well and
> the others were real interested to see us zipping over the streets as I was
> zoomed in.
> The Flight Attendants observed me and gave me no problems at all, but if
> they had- I was going to get them to check with the Pilot, telling him that
> a passenger/pilot was wanting to play with his GPS and PC.
>
> Sure would have been fun to have used a rig up there, but I tend to respect
> those rules!
> 73
> Ralph

Ralp,
What you did seemed pretty COOL, but it was illegal and dangerous!!!
As you obviously know, you may not use any receiver on board a commercial airplane (Federal Aviation Regulations). The pilot cannot even permit you to do it. A GPS is a receiver!! And you knew that!!
So what did you do when you were showboating for the other passengers ??
You could have endangered your and everybody elses lives, since it could have affected the onboard navigation system. Depending on the type of airplane you were in, some have OLD equipment. Be aware that in a holding pattern, the protected airspace around your aircraft is limited, and the pilots are expected to remain within. If they bust this, and it creates a conflict with another airplane, the pilots may have their license suspended for 30-90 days. That's a big fine (loss of income) for your showboating. Next time, if you are not sure, ask the pilot prior to using a receiver. Don't ask the flight attendant.

```
73.. Knut
Airline Captain

PS. If this had happened on my flight, I would have had you arrested for
endangering everbody's lifes.
```

16. ACARS

```
From: "Theodore J. Katz" <theojkat@voicenet.com>
Date: Mon, 02 Sep 1996 09:16:12 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960902131612.006aeb28@voicenet.com>
Rendered body type: text/plain
```

```
I have been reading about acars w/aprs or APRSacars, Is there any info on
have this is setup?.
I have a PK900, aprs76f and a radio that can recieve 131.55 AM.
The PK900 does have software the will run acars. So I think the demodulator
is in the system.

I have tried just connecting the am radio to the second port of the pk900,
but how do I tell aprs the the second port is active?


Ted Katz N3OWM,Phila,Pa
tedk@formail.formation.com
theojkat@voicenet.com
n3owm@ke3cz.epa.pa.usa
---------------------------
---------------------------
```

17. New N. Calif maps & maplist

```
From: KSwaggart@aol.com
Date: Mon, 2 Sep 1996 10:21:55 -0400
To: aprssig@tapr.org
Message-ID: <960902102154_275067399@emout19.mail.aol.com>
Rendered body type: text/plain
```

```
During this last batch of map-making, the limits for maplist.CA was exceeded,
so I have split northern California off from the rest of the state!

norcal01.zip contains APRS maps for northern California, from a line from
about Monterey to the sierras. Included is MAPLIST.CAN which is the maplist
for these maps. This maplist also includes the larger area maps such as USA,
World, and regional California maps.

norcal01.zip can be found at tapr.org/tapr/SIG/aprssig/files/upload for now.

73, Ken, W7KKE
kswaggart@aol.com
```

18. Uplinking hurricane info

```
From: "Don Murray" <james-m@ix.netcom.com>
Date: Mon, 2 Sep 1996 12:05:02 -0400
To: <aprssig@tapr.org>
Message-ID: <199609021605.JAA01976@dfw-ix11.ix.netcom.com>
Rendered body type: text/plain
```

```
While I am in the questioning mood, I would like to find out if I have been
screwing up or not..

As I stated in a previous message, there are currently only two stations
operating aprs in the local Savannah area.. I am working hard to get more
people up and running with APRS.  One of the ways I have been doing this is
to uplink the recent hurricane reports every six hours of so thruout the
time that the hurricanes are a threat to the east coast.. Am I screwing up
something by doing this.. I have recieved no complaints from anyone, but
this could be beacause there is nor near enough to be bother by me doing
this..   Is it ok to uplink this kind of weather information if a station
like me does not see in already on their APRS maps..

Thanks in advance for your replys..

Don
AE4BR WxStat, Port Wentworth, Ga.
```

19. NYC <>DC Mobile

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 02 Sep 1996 12:39:56
To: aprssig@tapr.org
Message-ID: <199609021640.MAA00988@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hello all,

I'll be taking APRS for a ride from New York City to Washington DC on Friday, October 4th (after I get home from work) and returning Sunday the 6th (again, late afternoon or evening) and am wondering if the best path to set for the trip would be "RELAY,WIDE,WIDE" or to just leave out the RELAY. Yes, I know that a WIDE digipeater should also have an alternate alias of RELAY, but am also aware that not all TNC's support this.

I'll probably be taking I-95 (or one of the parallel roads like US-1) all the way to the Beltway. Mobile setup is as follows:

Toshiba Satellite 105 computer (the co-pilot),
PicoPacket w/built-in Trimble SV-6 GPS,
Yaesu FT-530 H-T,
rfConcepts rfc-270g Amp (might need the extra juice!),
ANLI AL-800 Telescopic whip,
Yaesu FT-5100 Mobile rig,
Diamond SG-7900 mobile whip.

The '5100 & '7900 will be for voice. If you see N2ZRC-12, try suggesting a repeater in a one-liner. I'd sure appreciate the company. I'll be too busy driving to try to type out a reply (aside from a possible F2-OK)! Please note that the SV-6 does NOT seem to support $GPRMC, so I'll be using $GPGGA (no course or speed data ... what a bummer!)

Also, does anybody in the DC/Silver Spring area know of an NTS net? What time/frequency/PL? NTS traffic handling is addictive, you know, and I'll need my fix! 73 & thanks to all.

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I am initiating an inverted tachyon pulse to those coordinates now."

---

20. Re: [APRSSIG:4289] Addresses

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 02 Sep 1996 12:40:19
To: aprssig@tapr.org
Message-ID: <199609021640.MAA15103@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi Bill & the SIG,

On Mon, 2 Sep you wrote:

>Those of you that are willing to help someone get started us-
>ing APRS in your area, and can hit most of your local digi's
>in the town you live in then i would like to list your e-mail
>address so a newcommer after reading all about APRS on my web
>page can at least have someone to contact to help him get set
>up and on what and what not to do ...

GREAT idea, Bill! Count me in! As they say, "The More, The Merrier."

Here's another idea which I often implement (and I must admit I learned from Keith S.): When you see a new station on the screen (ie: one you KNOW is new to APRS,) Send 'em two one-liners welcoming them and offering help. What I usually do is:

"Hi de Arte & Welcome to APRS! Questions? ASK!"

"To reply press SN2ZRC <cr>, type msg & <cr>"

I'd say that 8 out of 10 take me up on it and STICK with APRS for more than just the few minutes or hours that those with no clue on how to operate the system do.

So, if you have the time and inclination, a little on-the-air elmering can go a long way. Next time you see an APRS newbie appear on the map, see if you can lend a hand. Remember when you first got started with APRS? How confusing, daunting and disappointing it was? Particularly with APRSDos, with all its nested menus and keystrokes? "If you elmer then, they will stay!" 8-{) 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

"I am initiating an inverted tachyon pulse to those coordinates now."

---

21. Re: Win APRS Map Making

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 02 Sep 96 13:29:23 EDT
To: <aprssig@tapr.org>
Message-ID: <960902172923_71301.3106_FHJ38-2@CompuServe.COM>
Rendered body type: text/plain

Bill writes, in various messages:

>maps...better resolution

>make maps "on the fly"

This capability exists - but not on the DOS/Win platform. If you were running a Macintosh in this application, you would have MacAPRS for the APRS side of things and MacDLG for producing highly detailed maps.

(MacAPRS is somewhat better than WinAPRS because the Windows version is simply a "port" of the Mac version, with some things lost in the translation. I run all three APRS's, and the Mac version is the one I keep going back to.)

In a serious professional/volunteer situation such as that associated with search and rescue, and public-agency funded mobile command posts, the computer platform is irrelevant - you should be making purchase decisions based on the solution, not someone's hardware prejudices.

>via cellphone

An interesting idea, but given the size of many of the 100K DLG files and the realistic throughput of even a "28.8" cellphone-compatible modem, I will hazard an edu-guess that you will not be able to reliably download USGS data this way. Cellphone connections are notoriously unstable, and the probability is very slim of your being able to sustain the 15-20 minute connection needed to download the bulky DLG files for even one half-quadrant. Again, this is an interesting idea, but the user-accessable technology hasn't caught-up yet.

There's also the assumption that you're going to have cellular coverage everywhere you go, or, in a disaster situation, have a fully intact system. Reality (and my direct experience) is otherwise. You're far better off using the CD-ROM; to heck with it being obsolete next year. Besides, one 100K CD-ROM will pay for itself quickly - unless that cell account is totally without cost.

...mike/N0QBF
71301.3106@compuserve.com

---

22. New MacDLG Uploaded

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 02 Sep 96 15:18:08 EDT
To: <aprssig@tapr.org>
Message-ID: <960902191808_71301.3106_FHJ73-1@CompuServe.COM>
Rendered body type: text/plain

Just uploaded into the APRS SIG "upload" area on the TAPR FTP server is a new revision of MacDLG, v1.04. It is a maintenance release fixing/adding:

- [Mac/Win] Correct internal notation of map type version ("1.00" instead of "McDL")
- [Mac] Major routes will display as 2-pixel lines
- [Mac] State routes with letter designators or route numbers > 300 will display as thick gray lines instead of brown.
- [Win] Lettered or high-numbered routes will display as dark gray (local arteries).

  - [DOS] If minor routes are not selected, lettered/high-numbered state
      routes will be gray lines.
  - Slight improvement in display speed.

File is MacDLGv1.04.sea.hqx.

If you have downloaded v1.0, due to the "internal notation" fix it is crucial
that you delete v1.0 and replace it with v1.04. Maps produced by MacDLG v1.0
will probably not work in future releases of Mac/WinAPRS.

For MacAPRS users, the difference in map coherence from the "thick lines"
feature is phenomenal. My hat's off to Keith Sproul for alerting me to this
hidden ability of MacAPRS.

Sample maps generated with v1.04 are also uploaded to the FTP site:

  Boston.sea.hqx
  MidMissouri.sea.hqx
  Peoria.sea.hqx

Enjoy!

  ...mike/N0QBF

---

23. Mentor Page

From: William Nolle <wa8inz@cris.com>
Date: Mon, 02 Sep 1996 15:10:22 -0700
To: aprssig@tapr.org
Message-ID: <322B5B4E.1160@cris.com>
Rendered body type: text/plain

I posted a message the other day asking for APRS users willing to help a
newcomer get APRS setup for your area. I have added a 4th page to my APRS
webpage I may have neglected to ask that you include your callsign!. This
new page is a page to show potential users where to find the software and
also to find a Mentor in their area to contact via E-Mail for help. Check
out the page and if interested in helping, please send me your Callsign,
Area your APRS station covers (Town/City, and of course your E-Mail
address.
Thanks in advance.
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

```
             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

---

24. Re: [APRSSIG:4287] Re: Mobile to FL

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Mon, 02 Sep 1996 16:25:24 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960902202524.006a5d40@mail.cyberstreet.com>
Rendered body type: text/plain

At 12:33 AM 9/2/96 -0500, you wrote:
>Ronald Oblinger wrote:
>>
>> At 04:13 PM 9/1/96 -0500, you wrote:
>> >Ronald Oblinger wrote:
>> >>
>> >> At 06:29 PM 8/30/96 -0500, you wrote:
>> >> >Hello I will be going to FL this weekend from Middle Ga. Our route will
>> >> >take us through Tampa on I-75. Our final destination is Ft. Myers. Then
>> >> >we'll be heading back on monday. APRS will be running while I am heading
>>
>> Gary I don't know why you don't see me on your screen. I see you all the
>> time. It is probably due to the digi or path I use. I am really confused
>> abaout the wide's and gate's and relay's. I run a 26 element beam with
>> over 100 watts and I aim it directly south quite often. Some evenings I get
>> 4 or 5 pages of log. I save the large ones. If someone gave a class on this
>> APRS I would pay for it and drive a hundred miles to get to it. I'm picking

```
>> up bits and pieces here and there. But you should see me - darn it!. PS: In
>> answer to your query - don't change a thing. Everyone up here likes the mess-
>> ages and the screen plots the way they are.
>>
>> Ron/73
>> 73 cu Ron"KD4AMS"
>
>Hi Ron, just read your message and felt i should put in my two cents Hi. It
>may not be your station at all. A good example is my own station, i run a
>pair of stacket 13B2's at abt 50 feet with a Mirage B 5030 G amp that's about
>275 watt into those beams with the radio i'm running it with, yet there's one
>digi about 80 miles away that i can hear direct that i cannot hit at all due
>to all the intermod on that site, yet i can hit N4NEQ-3 that is 158 miles
>away without any problem. The best all around path to use if in question is
>WIDE,WIDE try not to use relay. Or look in your D list and see who is hitting
>you direct by the * in front of the call. So you see them on the map and you
>use WIDE,WIDE and they don't see you it's on their end not yours. Sorry for
>butting in.
>
>--
>   Check out my APRS Web Page.
>    Totally Devoted to APRS
>
>http://www.concentric.net/~wa8inz
>
>             \////
>             (o o)
>       *--o00-(_)-00o--*
>          Bill WA8INZ
>        wa8inz@cris.com
>        wa8inz@amsat.org
>
>

 Thank you Bill: at last I'm getting some concrete aid. I will try your
suggestions and let you know how they work out. Danke!            ron
73 cu Ron"KD4AMS"
```

---

25. Re: [APRSSIG:4298] Mentor Page

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 02 Sep 1996 16:24:57 -0600
To: aprssig@tapr.org
Message-ID: <322B5EB9.78AB@slkc.uswest.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> I posted a message the other day asking for APRS users willing to help a
> newcomer get APRS setup for your area. I have added a 4th page to my APRS
> webpage I may have neglected to ask that you include your callsign!. This
> new page is a page to show potential users where to find the software and
> also to find a Mentor in their area to contact via E-Mail for help. Check
> out the page and if interested in helping, please send me your Callsign,
> Area your APRS station covers (Town/City, and of course your E-Mail
> address.
> Thanks in advance.
> --
>    Check out my APRS Web Page.
>     Totally Devoted to APRS
>
> http://www.concentric.net/~wa8inz
>
>              \////
>              (o o)
>        *--o00-(_)-00o--*
>           Bill WA8INZ
>         wa8inz@cris.com
>         wa8inz@amsat.org


Count me in Bill:

Salt Lake City, UT  area until 9/25, then Portland, OR.

Doug Wetzel
KC7CO
dwetzel@slkc.uswest.net
801-553-9572
```

26. APRS 7.7

From: Gary Wells <gwells@nbn.net>
Date: Mon, 02 Sep 1996 19:43:25 -0400
To: aprssig@tapr.org
Message-ID: <322B711D.75B0@nbn.net>
Rendered body type: text/plain

Sir: I am using APRS 7.7 and have 2 items that may be of intrest. First, I am using it with a Davis Weather Monitor II. Several times, when I have quit APRS, and then gone back, APRS can not find the weather station. It diaplays the Getting WX Station Data message, and locks up TIGHT. Rebooting does not help. The only way I have found to get APRS to find the WX station again is to reboot, start Weather Link software, access the WX station, quit Weather Link, and then start APRS. Maybe APRS doesn't release the WX station when it quits? Any way, I now know how to avoid the problem, just thought you would like to know.

Second: Ther is a box on the map screen that displays Tracking mem. I have not been able to find any reference to that in the Readme files. I think I have figured it out, so this is FYI only, no reply necessary.

This is a marvelous piece of software, keep up the good work.
Gary, N3HCP

27. Shelby, Pico, Trimble and lessons learned.

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Mon, 2 Sep 1996 19:22:30 -0500
To: aprssig@tapr.org
Message-ID: <9609021922.AA30350@oscar.telalink.net>
Rendered body type: text/plain

Just got back from the Shelby, NC hamfest. I figured that since there are a lot of digis along the way that this would be a great trip for me to use my laptop and dosAPRS (I usually use MacAPRS) along with my 2 port PicoPacket.

I recently retired my Icom IC-2A and VoCom powerpocket in favor of an Icom IC-25a. I spent the provious week making sure that the Antenna, Radio, TNC, & GPS worked well together. Unfortunately I failed to include the laptop in these tests since I had used the laptop and TNC together before and felt everything was ok there. WRONG!!

In the four days of the trip I found that I had an intermittent connection in the Antenna mount. I was able to buy a new mount on the first day in Shelby.

It took me until over two days of reading, experimenting, reading, experimenting cycle to find that I needed to change LGE from $00 to $05. BTW: Bob, might I suggest that since you give the option of TAPR, AEA or Pico to set what TNC is used that there should be coresponding INITTAPR.TNC, INITAEA.TNC and INITPICO.TNC files I would also think that three different restore files would be in order.

Finally on Saturday I had solved software and transceiver antenna issues when my garman GPS45 loses lock on the satelites. I tried resetting the GPS45 but still nothing. I was using the GPS45 with a Trimble antenna I purchased from PacComm. I left the Garmin antenna at home so i could not try that to see if it was an antenna problem (IT WAS).

Lessons learned:

Check everything and make sure it works perfectly before you leave home. Carry spares of as much as you can.

Bruce

```
--
***************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650                                    *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W   *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* URL:  http://www.telalink.net/~martinbw/home.html           *
*        ftp://ftp.telalink.net/~martinbw                     *
*    I have a 486DX33 to play games and run some HAM programs,*
*        when I want to do serious work I use a Macintosh.    *
***************************************************************
```

28. Re: [APRSSIG:4293] Uplinking hurricane info

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 2 Sep 1996 18:25:04 PST
To: aprssig@tapr.org
Message-ID: <19960902.191728.7663.0.kf4dys@juno.com>
Rendered body type: text/plain

```
On Mon, 2 Sep 1996 11:22:38 -0500 (CDT) "Don Murray"
<james-m@ix.netcom.com> writes:
>One of the ways I have been doing
>this is
>to uplink the recent hurricane reports every six hours of so thruout
>the
>time that the hurricanes are a threat to the east coast..

>Is it ok to uplink this kind of weather information if a
>station
>like me does not see in already on their APRS maps..

Hi Don;

Actually, that is one of the more common uses, posting
threatening weather to APRS... (at least it is around
here)

As long as you make sure that your path is set to just
your local digi (by call sign, not by the common alias of
RELAY or WIDE) then your data packets shouldn't be a
problem for anyone.

By all means, play with it. After all, you are the local
expert and will be expected to be able to answer
questions on techniques, as well as solve problems.

regards,
Joe
```

---

29. Re: [APRSSIG:4280] WX Legal

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Sep 1996 22:08:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960902220432.23521F-100000@arctic>
Rendered body type: text/plain

```
On Sun, 1 Sep 1996, William Nolle wrote:

> In other words the way it's being done as i can see it that there's a
> transmitter at this site with no callsign, but to ID another station
> places an object at that site with the desicnation of <C-5> (An object).

APRSdos REPLY/COMMENT:  The actual packet ALWAYS contains the callsign of
the "transmmiiter"  if the <C-5> stations was lets say W3ABC-5, then the
actual on air packet would have been:

W3ABC-5>APRS,WIDE:OBJECT  :LAT/LOMG/etc...

WHere the word OBJECT would be displayed on the PARS map.  APRS only uses
the last three characters of a callsign as a hint as to who is actually
transmitting the OBJECT.  This is because using the full 9 characters
would use up all most all of the comment field on the P list...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

30. Re: [APRSSIG:4300] Re: Mentor Page

From: William Nolle <wa8inz@cris.com>
Date: Mon, 02 Sep 1996 21:14:24 -0700
To: aprssig@tapr.org
Message-ID: <322BB0A0.3D3F@cris.com>
Rendered body type: text/plain

```
Doug Wetzel wrote:
>
> William Nolle wrote:
> >
> > I posted a message the other day asking for APRS users willing to help a
> > newcomer get APRS setup for your area. I have added a 4th page to my APRS
> > webpage I may have neglected to ask that you include your callsign!. This
> > new page is a page to show potential users where to find the software and
> > also to find a Mentor in their area to contact via E-Mail for help. Check
> > out the page and if interested in helping, please send me your Callsign,
> > Area your APRS station covers (Town/City, and of course your E-Mail
> > address.
> > Thanks in advance.
> > --
> >    Check out my APRS Web Page.
> >     Totally Devoted to APRS
> >
> > http://www.concentric.net/~wa8inz
> >
> >              \////
> >              (o o)
> >        *--o00-(_)-00o--*
> >           Bill WA8INZ
> >         wa8inz@cris.com
> >         wa8inz@amsat.org
>
> Count me in Bill:
>
> Salt Lake City, UT  area until 9/25, then Portland, OR.
>
> Doug Wetzel
> KC7CO
> dwetzel@slkc.uswest.net
> 801-553-9572

Thanks Doug, will add you to the list and hope i will remember to change
it to portland after the 25th. I suppose you will be changing internet
addresses also, so please keep me updated if you would please.
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

31. Re: [APRSSIG:4291] ACARS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Sep 1996 22:23:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960902222126.23521M-100000@arctic>
Rendered body type: text/plain

```
On Mon, 2 Sep 1996, Theodore J. Katz wrote:

> I have been reading about acars w/aprs or APRSacars, Is there any info on
> have this is setup?.
> I have a PK900, aprs76f and a radio that can recieve 131.55 AM.
> The PK900 does have software the will run acars.

APRSdos REPLY/COMMENT:  Read ACARS.txt.  You must run APRSair.exe and I
cant remember what you have to have registered or not..   It should be in
that file...  Be sure to tell the TNC to pass along the data RAW to
APRS...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

32. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from localhost (bruninga@localhost) by arctic.nadn.navy.mil (8.7.5/8.7.3) with SMTP id
WAA24329 for <aprssig@tapr.org>; Mon, 2 Sep 1996 22:33:54 -0400 (EDT)
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs
Date: Mon, 2 Sep 1996 22:33:54 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4293] Uplinking hurricane info
In-Reply-To: <199609021605.JAA01976@dfw-ix11.ix.netcom.com>
```

Message-ID: <Pine.GSO.3.95.960902223032.23521O-100000@arctic>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 2 Sep 1996, Don Murray wrote:

> this..   Is it ok to uplink this kind of weather information if a station
> like me does not see in already on their APRS maps..

APRSdos REPLY/COMMENT: Seems to me that that is exactly what APRS is
deisgned for. As soon as organized SKYWARN nets come up, they can set the
better local rules, but it seems you are fulfilling the true sense of ham
radio by posting your info voluntarily. Only caution would be to not
send such info beyond two WIDES tho. SInce you will typically see only
stations out 2 WIDES, you should not QRM stations beyond that range...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

33. Re: [APRSSIG:4301] APRS 7.7

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Sep 1996 22:40:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960902223934.23521P-100000@arctic>
Rendered body type: text/plain

On Mon, 2 Sep 1996, Gary Wells wrote:

> First, I am using it with a Davis Weather Monitor II. Several times,
> when I have quit APRS, and then gone back, APRS can not find the weather
> station. It diaplays the Getting WX Station Data message, and locks up
> TIGHT. Rebooting does not help. The only way I have found to get APRS
> to find the WX station again is to reboot, start Weather Link software,
> access the WX station, quit Weather Link, and then start APRS.

APRSdos REPLY/COMMENT: ANyone else have this problem? What is solution?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

34. Re: [APRSSIG:4293] Uplinking hurricane info

From: mbary@nmaa.org (Mark L. Bary)
Date: Mon, 02 Sep 1996 23:33:08 -0700
To: aprssig@tapr.org
Message-ID: <322BD124.19BB@nmaa.org>
Rendered body type: text/plain

Don Murray wrote:

> As I stated in a previous message, there are currently only two stations
> operating aprs in the local Savannah area.. I am working hard to get more
> people up and running with APRS. One of the ways I have been doing this is
> to uplink the recent hurricane reports every six hours of so thruout the
> time that the hurricanes are a threat to the east coast.. Am I screwing up
> something by doing this.. I have recieved no complaints from anyone, but
> this could be beacause there is nor near enough to be bother by me doing
> this..   Is it ok to uplink this kind of weather information if a station
> like me does not see in already on their APRS maps..
> Don
> AE4BR WxStat, Port Wentworth, Ga.

Don,

This is one of the kinds of things for which APRS was originally
intended!

Keep it up!

About the only time it may not be a good idea is if the item you're
tracking is not of general concern to your area and there is something
else going on of greater interest like a marathon or such, which is
being supported in some way by APRS. In which case the additional
channel load may not be appreciated.

73,

Mark
N4EOC
Germantown, MD

35. [Fwd: Re: [APRSSIG:4237] SIG Sensory Overload, Solar Panel Battery Charging Questions]

From: mbary@nmaa.org (Mark L. Bary)
Date: Mon, 02 Sep 1996 23:44:30 -0700
To: aprssig@tapr.org
Message-ID: <322BD3CE.5A93@nmaa.org>
Rendered body type: text/plain

```
First time I sent this it got bounced back for some reason, so I'm
reposting it.

Mark L. Bary wrote:
>
> David Barrett wrote:
>
> --lots of snipping--
>
> >         Now to my question! I have a Solarex SX-10 solar panel that I
> > believe provides 5 watts at 13.8 volts. I'm in need of a curcuit that will
> > allow me to charge a Gel Cell battery with out frying the battery. I know
> > the curcuit componet values will depend on the amp rating of the Gel Cell I
> > use. What I plan on doing is mounting an HTX-202, KPC-3, power distribution
> > block and U2000 WX in a Hoffman SS NMEA 4 Box. The box will then be mounted
> > along with the solar panel on a 150' water tower along with an Antenna
> > Specialist 4 element Collinear antenna with East West lobes.
> >         If anyone has any experience in this type of installation or just
> > with the Solar Panel stuff, I'd love to hear from you. No matter what
> > anyones say's or what ever type of language they use concerning this SIG; I
> > find it to be a great source of innovation and inspiration.
>
> --more snipping--
>
> David,
>
> Check out the article in the September QST entitled "The Micro M - a Miniature Charge
> Controller" on page 41.  This may just be exactly what you're looking for: "a small
> charge controller using a single power MOSFET as a series switch.  It can handle up to
> 2A of array current and is protected against overvoltage and reverse polarity."
>
> In fact, this may be just the ticket to providing emergency power backup to WIDE digi's
> in lots of different kinds of installations!
>
> 73,
>
> Mark
> N4EOC
> Germantown, MD
```

36. Toshiba 1910 Laptops???

From: Bill Lefler <wo0e@sky.net>
Date: Mon, 2 Sep 1996 23:00:05 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960902225052.17737B-100000@sky.net>
Rendered body type: text/plain

```
Has anyone had problems with the Toshiba Satellite T1910 Laptop in HSP
mode? I have been pulling my hair out trying to figure out what I did
wrong on the HSP circuit (Come on! It's only TWO transistors!!! :-) ) when
I discovered that it was the laptop that was causing my problems. The
Toshiba would toggle the DTR low, but eventually it would not recover. The
DTR line stayed low. It would stay this way until I opened the data path
from the GPS RX (For info, I am using a KPC-3, a Garmin 45XL, and the
aforementioned Toshiba. I tried version 7.5C, and then version
7.6fDosAPRS). I hooked up another laptop, an older Dell and it works just
fine, with only an occational "I/O Gltich while toggling NEMA" message.
        I should mention that I am a total "Newbee" to APRS. I am hooked,
and we are using it on the local MS-150 bike tour next weekend (9/7-8). I
am trying to get all the bugs out of the system, and since the Toshiba is
a faster computer I would rather use it. Any suggestions?
BCNU Lef

********************************************
wo0e@sky.net  - Bill Lefler - Kansas City KS
Amateur Radio -  WO0E  (Dub-Yo-Zeree)
"Life is a Reach! Sheet in and Hike Hard!"
********************************************
```

37. Too much time on my hands....

From: ku0g@sprynet.com
Date: Mon, 2 Sep 1996 21:41:06 -0700
To: aprssig@tapr.org
Message-ID: <199609030441.VAA10510@m1.sprynet.com>
Rendered body type: text/plain

Had a MOST enjoyable lunch with KB9LBU and WA9FFL in Rochelle, Illinois, Monday afternoon as I departed Chicago for Kansas City...It occured to me that meeting face-to-face is good for all of us....

Then, a bolt from the blue (actually a smack from Karla!) gave me an idea....

Wouldn't a NATIONAL APRS GATHERING be a NEAT event???? I'll even go so far as to say that the Kansas City APRS Working Group would be willing to host such an event. There is certainly an ample supply of hotel/motel space with meeting rooms here, not to mention a fairly mature APRS network operating.

We could set up over a three-day weekend, I'd suggest, and bring in Bob and the Sproul Brothers, surely we could get the usual support from the various APRS-affiliated suppliers like PacComm, Kantronics, Garmin (I can pretty well guarantee and BIG Garmin presence if we did it here) and others...

Anybody have any comments?

So what do you think? Kansas City, BBQ, APRS all at once? Only way it could get any better is if the beer was free!!!

Comments welcome!!!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

38. Re: [APRSSIG:4307] Re: Uplinking hurricane info

From: "Don Murray" <james-m@ix.netcom.com>
Date: Tue, 3 Sep 1996 01:39:25 -0400
To: <aprssig@tapr.org>
Message-ID: <199609030542.WAA03360@dfw-ix5.ix.netcom.com>
Rendered body type: text/plain

Thanks Bob and everyone else that responded to my request for information, based on what has been said, I will keep it up then... Hopefully we will be getting Aprs up and going strong in the Savannah area shortly..

Again thanks for the info

Don
AE4BR

```
----------
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4307] Re: Uplinking hurricane info
> Date: Monday, September 02, 1996 10:45 PM
>
> On Mon, 2 Sep 1996, Don Murray wrote:
>
> > this..   Is it ok to uplink this kind of weather information if a
station
> > like me does not see in already on their APRS maps..
>
> APRSdos REPLY/COMMENT:  Seems to me that that is exactly what APRS is
> deisgned for.  As soon as organized SKYWARN nets come up, they can set
the
> better local rules, but it seems you are fulfilling the true sense of ham
> radio by posting your info voluntarily.  Only caution would be to not
> send such info beyond two WIDES tho.  SInce you will typically see only
> stations out 2 WIDES, you should not QRM stations beyond that range...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

39. Re: [APRSSIG:4312] Too much time on my hands....

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Tue, 3 Sep 1996 00:45:56 -0500
To: <aprssig@tapr.org>

Message-ID: <9609030548.AA15098@dfw.dfw.net>
Rendered body type: text/plain

```
----------
> From: ku0g@sprynet.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:4312] Too much time on my hands....
> Date: 2 September 1996 23:54

---SNIP!!!
> So what do you think?  Kansas City, BBQ, APRS all at once? Only way it
could get
> any better is if the beer was free!!!
>
> Comments welcome!!!
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

Someone say free Beer?!
Cheers, Bill Neal
http://www.dfw.net/~wmn3/
```

40. Re: [APRSSIG:4310] [Fwd: Re: SIG Sensory Overload, Solar Panel Battery Charging Questions]

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 3 Sep 1996 00:55:14 -0600
To: aprssig@tapr.org
Message-ID: <1370410382-4096663@email.firecraker.com>
Rendered body type: text/plain

```
>First time I sent this it got bounced back for some reason, so I'm
reposting it.
>
>Mark L. Bary wrote:
>> David Barrett wrote:
>> --lots of snipping--
>> >         Now to my question! I have a Solarex SX-10 solar panel that I
>> > believe provides 5 watts at 13.8 volts. I'm in need of a curcuit that will
>> > allow me to charge a Gel Cell battery with out frying the battery. I know
>> > the curcuit componet values will depend on the amp rating of the Gel Cell I
>> > use. What I plan on doing is mounting an HTX-202, KPC-3, power distribution
>> > block and U2000 WX in a Hoffman SS NMEA 4 Box. The box will then be mounted
>> > along with the solar panel on a 150' water tower along with an Antenna
>> > Specialist 4 element Collinear antenna with East West lobes.
>> --more snipping--
>>

Mine got bounced back too.. hum..

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

41. Mouse problem

From: kf4dys@juno.com (Joe Foor)
Date: Tue, 3 Sep 1996 00:26:13 PST
To: aprssig@tapr.org
Message-ID: <19960903.005256.7663.0.kf4dys@juno.com>
Rendered body type: text/plain

```
Hi Bob;

I realize you probably are getting tired of hearing about the mouse
problem, but here are a couple of additional details, that I haven't
seen mentioned.

When the left mouse button quit working, this time, I examined the
symptoms and discovered that the left mouse button is still selecting
the zoom factor.

Normally, the steps to zoom the map are:
1) place the curser where you want the center of the display to be.
2) click the right mouse button (selecting the lat/lon for the new center
point)
```

3) the zoom factor window appears
4) place the curser on the desired zoom factor
5) click the left mouse button (selecting the zoom factor and initiating the map re-draw)
6) the map re-draws with the selected point at the center of the display and at the new scale

When the mouse left button "fails", this is the required procedure:
1) place the curser where you want the center of the display to be
2) click the right mouse button (selecting the lat/lon for the new center point)
3) the zoom factor window appears
4) place the curser on the desired zoom factor
5) click the left mouse button (selecting the zoom factor)
6) strike the space bar to initiate the map re-draw
7) the map re-draws with the selected point at the center of the display and at the new scale

If, in the second procedure, you omit step 5, the map re-draws at the original scale, with the new point in the center of the display.

Since the left mouse button is still working to select the zoom factor, apparently APRS is still recognizing the left button, just not performing all the required functions.

Also, when removing callsigns from the (H)eard, (L)ast and (P)osition lists, the left mouse button must still be used, even after it has supposedly "failed".

To remove a callsign from the (P)osition list, normally:
1) place the curser on the callsign to be removed
2) click the left mouse button (selecting the callsign, hooking the callsign and bringing up the hooked commands menu)
3) strike (D)elete on the keyboard (rewriting the list, with all the callsigns below the selected callsign moved up one line, overwriting the selected callsign)

To remove a callsign from the (P)osition list after the left mouse button has "failed":
1) place the curser on the callsign to be removed
2) click the left mouse button (selecting the callsign)
3) strike the <enter> key (hooking the callsign and bringing up the hooked commands menu)
4) strike (D)elete on the keyboard (rewriting the list, with all the callsigns below the selected callsign, moved up one line, overwriting the selected callsign)

If, in the second procedure, you omit step 2, the response is "NOTHING FOUND", just as if you had attempted to hook a location on a map, where there was no station.

Again, APRS is apparently recognizing that the left mouse button has been clicked, it is just not performing all the required functions.

regards,
Joe

---

42. Re: [APRSSIG:4312] Too much time on my hands....

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 3 Sep 1996 01:04:38 -0600
To: aprssig@tapr.org
Message-ID: <1370409818-4130617@email.firecraker.com>
Rendered body type: text/plain

>Had a MOST enjoyable lunch with KB9LBU and WA9FFL in Rochelle, Illinois, Monday
>afternoon as I departed Chicago for Kansas City...It occured to me that meeting
>face-to-face is good for all of us....

Paul and I enjoyed the lunch with you and your wife. Glad we could use APRS to monitor your route and do an APRS co-ordination with you on the highway. Getting a chance to meet the faces behind the call signs both here on the SIG and on APRS is great.

>
>Then, a bolt from the blue (actually a smack from Karla!) gave me an idea....
>
>Wouldn't a NATIONAL APRS GATHERING be a NEAT event???? I'll even go so far as

>to say that the Kansas City APRS Working Group would be willing to host
such an
>event. There is certainly an ample supply of hotel/motel space with meeting
>rooms here, not to mention a fairly mature APRS network operating.
>
>We could set up over a three-day weekend, I'd suggest, and bring in Bob and
the
>Sproul Brothers, surely we could get the usual support from the various
>APRS-affiliated suppliers like PacComm, Kantronics, Garmin (I can pretty well
>guarantee and BIG Garmin presence if we did it here) and others...
>
>Anybody have any comments?
>

It sounds interesting, but is there enough interest?
If not, co-ordinating with another major event would work as well. For
example, The ARRL convention at Peoria Superfest in Peoria, Il. I understand
Bob is a speaker there, Maybe the Sproul's will be there, as well as Joe Agrelo.
By combining functions, we might see more exposure, have more people
there, and make the trips more worthwhile. Sorta like a late summer Dayton.
This was just a thought... I like the idae though.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

---

43. NY<>DC Road Trip

From: Arte Booten <N2ZRC@gnn.com>
Date: Tue, 03 Sep 1996 02:30:44
To: aprssig@tapr.org
Message-ID: <199609030630.CAA30222@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

In preparation for my trip, I've collected the following
repeaters, grouped in order of the southbound leg. If you can,
could you please update this (ie: pl, machine's long dead, new
ones, etc.) Again, the projected route is via I-95 to the
beltway, or one of the parallel roads (US-130, US-1, US-40 etc)

Although this isn't strictly APRS-related, I beg the SIGs
indulgence, since I WILL have APRS with me running on the lap-
top. Thanks.

New Jersey						
New Brunswick				440.800	445.800	141.3
Jamesburg	145.230	144.630				
Cream Ridge	147.240	147.840	131.8			
Mount Holly	147.150	147.750	_____			
Camden	146.820	146.220				
Pennsville	146.625	146.225		442.950	447.950	131.8
Cherry Hill	146.760	146.060				
Cherry Hill				444.900	449.900	131.8
Delaware						
Claymont				444.950	449.950	
Wilmington	146.730	146.030		443.700	448.700	
Wilmington	146.955	146.255		448.375	443.375	
Wilmington	147.225	147.825		448.825	443.825	
Newark	146.700	146.100				
Maryland						
Elkton	145.190	144.590	162.2	442.750	447.750	156.7
Havre de Grace	146.850	146.250		443.100	448.100	
Churchville	147.120	147.720				
Cockeysville	146.220	146.820	107.2			
Bel Air				449.775	444.775	
Baltimore	145.130	144.530		443.200	448.200	
Baltimore	146.670	146.070		443.350	448.350	
Baltimore	147.030	147.630		443.400	448.400	
Baltimore	147.135	147.735		443.550	448.550	
Baltimore	147.240	147.840		443.700	448.700	
Baltimore	147.285	147.885		448.075	443.075	
Baltimore	147.390	147.990		448.975	443.975	
Baltimore				449.075	444.075	
Baltimore				449.325	444.325	

```
Baltimore                              449.575 444.575
Baltimore                              449.625 444.625
Hanover        147.335 147.935
Lutherville    146.895 146.295
Jessup       146.760 146.060         444.000 449.000
Millersville   146.805 146.205         449.125 444.125
Millersville   147.075 147.675
Ellicott City  147.390 147.990         449.525 444.525
Columbia             147.135 147.735         448.275 443.275
College Park   145.490 144.890
Greenbelt            146.835 146.235
Greenbelt            146.880 146.280
New Carrollton  145.230 144.830 110.9
Adelphi      145.370 144.770
Ashton       147.000 147.600
Rockville            145.250 144.650         443.900 448.900
Rockville      145.450 144.850
Rockville      146.955 146.255
Silver Spring   147.180 147.680         443.450 448.450 156.7
Silver Spring   147.225 147.825 156.7   449.025 444.025 156.7
Bethesda       145.290 144.690         447.925 442.925
Potomac        147.270 147.870
Cheverly       146.610 146.010
D. C.          145.110 144.510         442.650 447.650
D. C.          146.760 146.060         444.650 449.650 114.8
D. C.          147.360 147.960         448.575 443.575
D. C.                                  448.875 443.875
D. C.                                  449.975 443.975
```

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)

---

44. Re: [APRSSIG:4308] Re: APRS 7.7

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 03 Sep 1996 05:39:45 -0400
To: aprssig@tapr.org
Message-ID: <322BFCE1.76F4@co.pinellas.fl.us>
Rendered body type: text/plain

Bob Bruninga wrote:

> On Mon, 2 Sep 1996, Gary Wells wrote:
>
> > First, I am using it with a Davis Weather Monitor II. Several times,
> > when I have quit APRS, and then gone back, APRS can not find the weather
> > station. It diaplays the Getting WX Station Data message, and locks up
> > TIGHT. Rebooting does not help. The only way I have found to get APRS
> > to find the WX station again is to reboot, start Weather Link software,
> > access the WX station, quit Weather Link, and then start APRS.
>
> APRSdos REPLY/COMMENT: ANyone else have this problem? What is solution?
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

I have the same problem when running Win95...if I access my com3 port which has a shared interrupt with my com1 port...so the question is....

Gary...do you have more than two com ports and if so, are you sharing the same interrupt for one pair....ie: IRQ4 on com1 and com3?

I should note, however, that I can solve the problem by doing the windows warm startup...ctl-alt-del, ending the task, and then restarting the program, without having to do a cold start or running PC-Link.

PS: Bob, I presume you are fixing the fade to gray problem for dvs wx stations which showed up again....it seems to be generated in the time routine....when I boot up, I am in 2*HF mode...even when I switch to VHF only....the time stamp is keeping the z at the end...ie:

I boot up at 1600z in 2*HF mode, then I switch to VHF only, and the time stamp changes to 1200z...instead of just 1200.

--
****
From: Kevin Heyboer   E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR   Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator

Greater Pinellas County (St Petersburg/Clearwater) Florida
****

45. RE: [APRSSIG:4312] Too much time on my hands....

From: Larry Griffin <largriff@swta.com>
Date: Tue, 3 Sep 1996 05:18:28 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB9957.57D06420@red166.onramp.net>
Rendered body type: text/plain

ku0g wrote:

Wouldn't a NATIONAL APRS GATHERING be a NEAT event???? I'll even go so far as to say that the Kansas City APRS Working Group would be willing to host such an event.

Sounds like a great idea!

Larry

```
begin 600 WINMAIL.DAT
M>)\^(AX*`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #`````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P```'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>```$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P```,``#D`````"P! .@$`````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`,0```%)%.B!;05!24U-)1SHT,S$R72!4;V\@;75C:"!T
M:6UE(&]N(&UY(&AA;F1S+BXN+@"=#@$%@ ,`#@```,P'"0`#``4`$@`<``(`
M% $!(( #``X```#,!PD``P`%`! `*P`"``"$!`0F `0`A````1D)"-30V,#<P
M13 U1# Q,3@Q-#<T-#0U-3,U-# P,# `M@8!`Y &``0#```2`````"P`C````
M```#`"8````````L`*0```````P`V```````! `#D`0'^A/X&9NP$>`' ``0``
M`#$```!213H@6T%04E-324<Z-#,Q,ET@5&]O(&UU8V@@=&EM92!O;B!M>2!H
M86YD<RXN+BX````````@%Q``$````6``````;N9@3^9!T:U_ 4.$=" !1T1%4U0`
M`````'@`>#$`````%````4TU44 ``````>`!\,`0```!(````!L87)G<FEF9D!S
M=W1A+F-O;0```,`!A#*W"S]`P`'$+ `````>``@0`0```&4```!+53!'5U)/
M5$4Z5T]53$0@03!.051)3TY!3$-04E,@1T%42$5224Y'($)%($$@3D5!5"!%
M5E9%3E0_/S\_("!))TQ,($5614X@1T\@4T\@1D%2($%3"!43R!304Y@5$A!
M/S\_24Q,159%3D=/4T]&05)!4U1/4T%95$A!5%1(14M!3E-!4T-)5%E!4%)3
M5T]22TE.1T=23U50```````(!"1 !`````;P$``&L!``!T`@``3%I&=;YP&AK_``H!#P(5`J@%
M6P*#0`%`&-H"L!970R-P8`!L,"@S(#Q0(<1'B<W1E;0*#,V-B`\(# `@QO0P`4
M9R!W`V 3T'XZ"'<+9!T7A"_(34!MA8\,%0 J+;&DS-ASA'#^%'4)7"&!L9&XG
M!4!"80>P051)3R# 3"D5,%!2!?!'(-!(18!224Y'(&)E()(B12#0(&5V"?!T
M/\$C,2 @22=L`R BXJ @9V\@<R1 9@K!EF$$( J%="1!87DE8&\1@ 5 )> B
M4$L`<2310YQI="7 (5,@$')K"X#E&R!'`V!U<!LP("(B,L\#\".P)\(E<6AO
M$\ D4/YU$7 @D .@'8\>GQT5(N-N+AH-"H4*A2TO."Y<4]D(8&YD!" K0&LB
M4@G!I28!:0VP82$N7$P*P"QR>0J%%L$`-# ``P`0$ `````#`!$0`````$ `
L!S#@.40!@9F[`4 `"##@.40!@9F[`1X`/0`!````!0```%)%.B ``````#,$`
`
end
```

46. Re: [APRSSIG:4295] Re: Addresses

From: William Nolle <wa8inz@cris.com>
Date: Tue, 03 Sep 1996 05:26:45 -0700
To: aprssig@tapr.org
Message-ID: <322C2405.70A5@cris.com>
Rendered body type: text/plain

Arte Booten wrote:

```
>
> Hi Bill & the SIG,
>
> On Mon, 2 Sep you wrote:
>
>      GREAT idea, Bill!  Count me in!  As they say, "The More,
> The Merrier."
>
>      Here's another idea which I often implement (and I must
> admit I learned from Keith S.):  When you see a new station on
> the screen (ie: one you KNOW is new to APRS,) Send 'em two one-
> liners welcoming them and offering help.  What I usually do is:
>
>           "Hi de Arte & Welcome to APRS! Questions? ASK!"
>
>           "To reply press SN2ZRC <cr>, type msg & <cr>"
```

```
>
> I'd say that 8 out of 10 take me up on it and STICK with APRS
> for more than just the few minutes or hours that those with no
> clue on how to operate the system do.
>
>      So, if you have the time and inclination, a little on-the-
> air elmering can go a long way.  Next time you see an APRS new-
> bie appear on the map, see if you can lend a hand.  Remember
> when you first got started with APRS?  How confusing, daunting
> and disappointing it was?  Particularly with APRSDos, with all
> its nested menus and keystrokes?  "If you elmer then, they will
> stay!"  8-{)  73
>

You are so right Art, and i follow that to the letter. Thanks

--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

47. Re: NDN: [APRSSIG:4255] Re: Yet another home page-

From: William Nolle <wa8inz@cris.com>
Date: Tue, 03 Sep 1996 06:24:56 -0700
To: aprssig@tapr.org
Message-ID: <322C31A8.1FA4@cris.com>
Rendered body type: text/plain

```
Mailer-Daemon wrote:
>
> Sorry. Your message could not be delivered to:
>
> aprs sig (The name was not found at the remote site. Check that the name has
> been entered correctly.)
>
> --
>
> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
>  TeachNet, College of Education, University of Texas, Austin Texas
> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

Anyone have any idea why i keep getting this message, already received
this 3 times this morning.

--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

48. Re: NDN: [APRSSIG:4236] Re: DFjr connections with APRS (fwd)

From: William Nolle <wa8inz@cris.com>
Date: Tue, 03 Sep 1996 06:52:26 -0700
To: aprssig@tapr.org
Message-ID: <322C381A.34A4@cris.com>
Rendered body type: text/plain

```
Mailer-Daemon <Mailer-Daemon@teachnet.edb.utexas.edu>
Mailer-Daemon wrote:
>
> Sorry. Your message could not be delivered to:
>
> aprs sig (The name was not found at the remote site. Check that the name has
> been entered correctly.)
```

```
>
> --
>
> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
>  TeachNet, College of Education, University of Texas, Austin Texas
> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

Is anyone else getting these messages, this makes about a dozen this
morning (In 2 hours).

--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

49. Test Message

From: William Nolle <wa8inz@cris.com>
Date: Tue, 03 Sep 1996 06:53:21 -0700
To: aprssig@tapr.org
Message-ID: <322C3851.764E@cris.com>
Rendered body type: text/plain

```
Test message only (Sorry)
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

50. Re: [APRSSIG:4322] Re: NDN: Re: Yet another home page-

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 03 Sep 1996 07:35:14 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960903123514.006b9aa0@tbcnet.com>
Rendered body type: text/plain

```
I think its a bounce from UTX.  I also got two for two posts I sent.

jbl


(cheap, tacky ad follows):

SEE A *FREE* COMPARISON of how DosAPRS and WinAPRS display
a map made for Dos.

Go to http://tbcnet.com/~jleonard/n9vjq.htm




At 06:34 9/3/96 -0500, you wrote:
>Mailer-Daemon wrote:
>>
>> Sorry. Your message could not be delivered to:
>>
>> aprs sig (The name was not found at the remote site. Check that the name has
>> been entered correctly.)
>>
>> --
>>
>> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
>>  TeachNet, College of Education, University of Texas, Austin Texas
>> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
```

```
>
>Anyone have any idea why i keep getting this message, already received
>this 3 times this morning.
>
>--
>   Check out my APRS Web Page.
>    Totally Devoted to APRS
>
>http://www.concentric.net/~wa8inz
>
>             \////
>             (o o)
>       *--o00-(_)-00o--*
>          Bill WA8INZ
>        wa8inz@cris.com
>        wa8inz@amsat.org
>
```

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157

51. 6m grids needed

From: "David Michael Gaytko   ***@***   WD4KPD/FM15mm" <cn2859@coastalnet.com>
Date: Tue, 03 Sep 1996 08:41:25 -0400
To: bitbucket@primenet.com
Cc: aprssig@tapr.org
Message-ID: <1.5.4.32.19960903124125.0067c264@abaco.coastalnet.com>
Rendered body type: text/plain

need the following grids on 6m. can work scatter every am after 0830 eastern.

el79 em80 em87 em77 em68 fm99 fn01 fn30 fn40

7el and 150w.

tks . ... 73's

david

52. 6m grids needed

From: "David Michael Gaytko   ***@***   WD4KPD/FM15mm" <cn2859@coastalnet.com>
Date: Tue, 03 Sep 1996 08:42:28 -0400
To: aprssig@tapr.org
Cc: bitbucket@primenet.com
Message-ID: <1.5.4.32.19960903124228.006762e4@abaco.coastalnet.com>
Rendered body type: text/plain

need the following grids on 6m. can work scatter every am after 0830 eastern.
also willing to run aprs meteor scatter.

el79 em80 em87 em77 em68 fm99 fn01 fn30 fn40

7el and 150w.

tks . ... 73's

david

53. Re: What CD-ROM?

From: Mark Sproul <sproul@ap.org>
Date: Tue, 3 Sep 1996 09:00:26 -0400
To: aprssig@tapr.org
Cc: ronald@cyberstreet.com
Message-ID: <v03007802ae51dbac28b9@[165.1.27.20]>
Rendered body type: text/plain

```
>Mark - I'm new guy on block. What CD ROM? Please!!!          ron/kd4ams
>73 cu Ron"KD4AMS"
```

We have a CD-ROM full of maps for use with MacAPRS and WinAPRS, over 500
meg of the 650 meg is Mac/WinAPRS format maps, this is our format whcih
allows unlimited size maps. there is about 75 meg of dosAPRS maps and
about 50 meg of misc docs and other stuff. The software is NOT on the
CD-ROM.

We sell this cd for $25.00 plus $5.00 s/h, send your check or money order to

Mark Sproul
698 Magnolia Rd
No Brunswick, NJ 08902

```
__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

54. RE: [APRSSIG:4274] Pico TNC-Help

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 3 Sep 1996 09:38:51 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB997B.B82CEE00@gwyn.paccomm.com>
Rendered body type: text/plain

On Saturday, August 31, 1996 2:45 PM, Irvin Feldman[SMTP:irvinf@i1.net] wrote:
>TNX for reading, not a packet guru. Pico inop with new firmware(pre-rel
>3.2.10 5/13/96). Reinstalled original and was to make two connects.
>Everything seems normal
>EXCEPT I cannot monitor any packet burst (on another rcvr) when the HT is keyed.
>
>Anyone remember Gynn's E-mail address? gwynn@paccomm.com??
>
>TNX
>Irv Feldman
>N0NOB
>E-mail:irvinf@i1.net
>
>
>

Gwyn@paccomm.com (anything@paccomm.com works, where anything means anything. Most usual problem with bounced mail is mis-spelling of paccomm, like leaving out one c or one m)

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(C4-`0:0" `$````````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G```````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$`````"
M`?8/`0````0`````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`(0```%)%.B!;05!24U-)1SHT,C<T72!0:6-O(%1.0RU(
M96QP`#,)`06 `P`.````S <)``,`"0`F`#,``@!#`0$@@ ,`#@```,P'"0`#
M``D`)0`J``(`.0$!"8 !`"$````P1#DS1#0W13-&,#)$,#Q.#!$,S P-# P
M-3(Y0D-$-P#X!@$#D 8`W 0``!(````+`"````````,`)@```````"P`I````
M```#`#8```````$ `.0# )SL^G9F[`1X`< `!````(0```%)%.B!;05!24U-)
M1SHT,C<T72!0:6-O(%1.0RU(96QP```````(!<0`!````%@````&[F9T^*G[4
MDPX"/Q'0@-,`0 4IO-<``!X`'@P!````!0```%--5% ``````'@`?# $````1
M````9W=Y;D!P86-C;VUM+F-O;0``````#``80OZM8-0,`!Q P`@```'@`($ $`
M``!E````3TY305154D1!62Q!54=54U0S,2PQ.3DV,CHT-5!-+T$E25DE.1D5,
M1$U!3E--%% Z25)624Y&0$DQ3D545U)/5$4Z5$Y81D]24D5!1$E.1RQ.3U1!
M4$%#2T541U5255!)0T]))3@``````"``0D0`0```%8#``!2`P``^08``$Q:1G7P
M.86Y_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"``'!R
M0G$1XG-T96T"@S,W`N0'$P*#-!+,#]]F-5L2S!3(-A+'$74P%+9]%PJ ",\)
MV3L;?S$R..$<GV4R-34"@ J!#;'!"V!N9S$P,Q10"PK+%W(,`6,2H"!/`Z &
M$$)T"'!D87DL%+!U1&=U$\ @,S$B8#$`.3DV(#(Z-#6((%!-(F!)<G8+@" @
M1F5L9 .!6U,@3510.FDD(F9 $&DQ+FX1P%T@=^L#8!/0.@J$/@M&%6(A0Q<`
M4!-0)E%C!4!43EA.( (0!< ;@&%D"X!G12)@;B90(&$@"K!CBFL1P" BH')U
M+B/ 2FD%H" +@&]P)B!I+'1H*; 'T68E0&UW20K 92@34&4M&X!L&PJ$((\R
M)O\H"3,N,@(N'_ @-2\Q,R_M(U I*M '\&4+@!/ !T#*; F ( 6P:6<+@ =
MW2GP;C(@+& $('0K( # VRI0,T!W*R %H&XEX"B '',N+2\N/R]/($5V[020
M>2NP*7$@$; 3X 0@?RG +$ '0#2O-;\VSS?06/!#15!4) `T``!P*<)?!& #
M`#-0!< `<'DJ%F*["' BP2@"(#+!)E!H!)#A*2!C=G(I)B _H .@63^1($@\
```

```
MX 0`("I0>>\)@#2?.E\[;W1!GT*O0[__%+ ^( (@,[ ;@ > !M _L91'>30P
M)P0@12T`P%L#$2E09!N !! _,6!G&G=)$4 J(06@;6TN^4L1/S]$ST7?1N]+
MOTS/?TW?**).[T__40\D`B1F( ]27U-O5'\'L#!.3T+_5E]7;UA_264E/%GO
M6O]<#_]>;U]_8(]AGV*O8[]DQB!?NR%B"H5'2I%*VC%@*#X1QS@S:GLSX')K
M<R)@0$%_&X ^`C@T!X &(FMF*M!-]F\BP2*P=3*A*#$"8!/@XRN$!N!U;F,R
M$4F300&B;00`+7-P)(!L.%+\;V8J$DL2(F!R$#.A,@"V820Q<D%U!4!(,F,R
M,?ET(VTI"H1U*@LW&0(!T ]J(S%Q"8 B45<Q0D7Z3 JC4 #0"%!+,'B2*E*^
M4BE1*R 3I!,@"K)H`D"@<#HO+W=[("Y*Z05U1'U\@ ```P`0$ `````#`!$0
M`````$ `!S @(N(4G9F[`4 `"# @(N(4G9F[`1X`/0`!````!0```%)%.B `
%````7%L`
`
end
```

---

55. RE: [APRSSIG:4312] Too much time on my hands....

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Tue, 3 Sep 1996 9:06:34 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960903090634.20417d35@exame2.dseg.ti.com>
Rendered body type: text/plain

Re: National APRS Meeting.

Sounds like a good idea to me. Kansas City is close enough to Dallas to make
that feasible for me over a long weekend. Bet we could get a good group from
Dallas to attend. Let's do it!

73 Claude Head
    K5DTN
    chead@exame2.dseg.ti.com

---

56. Re: [APRSSIG:4294] NYC <>DC Mobile

From: Doug Wittich <dwittich@cris.com>
Date: Mon, 02 Sep 1996 22:26:08 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960903022608.00688ec8@pop3.concentric.net>
Rendered body type: text/plain

>   Also, does anybody in the DC/Silver Spring area know of an
>NTS net? What time/frequency/PL? NTS traffic handling is ad-
>dictive, you know, and I'll need my fix! 73 & thanks to all.

Answer coming by email.   And look for my station on APRS, N3VEJ.

Doug

---

57. Re: [APRSSIG:4312] Too much time on my hands....

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 3 Sep 1996 10:34:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960903103240.1216C-100000@arctic>
Rendered body type: text/plain

On Mon, 2 Sep 1996 ku0g@sprynet.com wrote:

> Wouldn't a NATIONAL APRS GATHERING be a NEAT event????
> We could set up over a three-day weekend, I'd suggest, and bring in Bob
> and the Sproul Brothers, surely we could get the usual support from the
> ....
> Anybody have any comments?

APRSdos REPLY/COMMENT: Isnt it called Dayton?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

58. [APRSSIG:4290] Re: APRS at 30,000 ft on an L-1011 -Reply

From: Doug Nielson <DNIELSON@novell.com>
Date: Tue, 03 Sep 1996 08:32:28 -0600
To: aprssig@tapr.org
Message-ID: <s22bed2c.070@novell.com>
Rendered body type: text/plain

Please, spare us this speech...

>>> Knut Finnevolden <knutf@mail.idt.net> 02 Sep 96 06:26 >>>
rwf wrote:

> I just got off the plane on my trip back from Florida. We held a lot due to
> weather, so I had a chance to do something kind of neat:
> I played with APRS on the Delta Jet. I also played with Precision
Mapping/GPS.
> I did not have a radio turned on, So I just played with the GPS and
maps.
> Here's what I did:

[snip]

Ralp,
What you did seemed pretty COOL, but it was illegal and dangerous!!!
As you obviously know, you may not use any receiver on board a
commercial
airplane (Federal Aviation Regulations). The pilot cannot even permit you
to do it. A GPS is a receiver!! And you knew that!!
So what did you do when you were showboating for the other
passengers ??
You could have endangered your and everybody elses lives, since it
could
have affected the onboard navigation system. Depending on the type of
airplane you were in, some have OLD equipment. Be aware that in a
holding
pattern, the protected airspace around your aircraft is limited, and the
pilots are expected to remain within. If they bust this, and it creates a
conflict with another airplane, the pilots may have their license
suspended for 30-90 days. That's a big fine (loss of income) for your
showboating. Next time, if you are not sure, ask the pilot prior to using
a receiver. Don't ask the flight attendant.

73.. Knut
Airline Captain

PS. If this had happened on my flight, I would have had you arrested for
endangering everbody's lifes.

---

59. Mailer-Daemon Madness!?!

From: mbary@nmaa.org (Mark L. Bary)
Date: Tue, 03 Sep 1996 11:57:06 -0700
To: aprssig@tapr.org
Message-ID: <322C7F82.128B@nmaa.org>
Rendered body type: text/plain

William Nolle wrote:
>
> Mailer-Daemon wrote:
> >
> > Sorry. Your message could not be delivered to:
> >
> > aprs sig (The name was not found at the remote site. Check that the name has
> > been entered correctly.)
> >
> > --
> >
> > -=-
> > TeachNet, College of Education, University of Texas, Austin Texas
> > -=-
>
> Anyone have any idea why i keep getting this message, already received
> this 3 times this morning.
>

Bill,

Happened to me too. I noticed that the mailer sent it back as though I
had addressed it "aprs sig" (Note the space between the 's's). The
mailer must be having a bad hair day.... several days in a row, at
various times of the day.

73

Mark

---

60. Re: [APRSSIG:4285] Re: Mobile to FL

From: Gary Arnold <garnold@naples.net>
Date: Tue, 03 Sep 1996 16:25:47 -0700
To: aprssig@tapr.org
Message-ID: <322CBE7B.67CA@naples.net>

Rendered body type: text/plain

```
Ronald Oblinger wrote:
>
>  Gary I don't know why you don't see me on your screen. I see you all the
> time. It is probably due to the digi or path I use. I am really confused
> abaout the wide's and gate's and relay's. I run a 26 element beam with
> over 100 watts and I aim it directly south quite often. Some evenings I get
> 4 or 5 pages of log. I save the large ones. If someone gave a class on this
> APRS I would pay for it and drive a hundred miles to get to it. I'm picking
> up bits and pieces here and there. But you should see me - darn it!. PS: In
> answer to your query - don't change a thing. Everyone up here likes the mess-
> ages and the screen plots the way they are.
>
> Ron/73
> 73 cu Ron"KD4AMS"

Seeing you occaisionally now.  If you use WIDE,WIDE for a digipath, it
should get you repeated here, and from one more that hears us.  WXSVR
has
been a pain this weekend.  Dale has almost no hair left.  Think we may
have a more stable version running now.
73,
Gary
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I went to a restaurant that serves 'breakfast at any time'.  I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary
```

---

61. Re: [APRSSIG:4293] Uplinking hurricane info

From: Gary Arnold <garnold@naples.net>
Date: Tue, 03 Sep 1996 16:49:14 -0700
To: aprssig@tapr.org
Message-ID: <322CC3FA.4A31@naples.net>
Rendered body type: text/plain

```
Don Murray wrote:
>
> While I am in the questioning mood, I would like to find out if I have been
> screwing up or not..
>
> As I stated in a previous message, there are currently only two stations
> operating aprs in the local Savannah area.. I am working hard to get more
> people up and running with APRS.  One of the ways I have been doing this is
> to uplink the recent hurricane reports every six hours of so thruout the
> time that the hurricanes are a threat to the east coast.. Am I screwing up
> something by doing this.. I have recieved no complaints from anyone, but
> this could be beacause there is nor near enough to be bother by me doing
> this..   Is it ok to uplink this kind of weather information if a station
> like me does not see in already on their APRS maps..
>
> Thanks in advance for your replys..
>
> Don
> AE4BR WxStat, Port Wentworth, Ga.

We are now testing a path through W7LUS (thanks to KG5QD) for
distribution of hurricane data as taken direct, and automatically from
the NWS wire.  The should begin appearing within a couple of minutes of
receipt of the bulletin.  They will indicate current, reference (3 hr
old), and 12, 24, 36, 48 and 72 hr forecast positions as taken from the
NHC forecast advisory, and will include hurricane (red) and tropical
storm (yellow) wind fields through the 36 hour forecast (not given by
NHC in the 48/72).

You should also see, in the bulletin page, the first few lines of the
PUBLIC advisory, issued by NHC, within a few minutes of it's receipt.

These plots and bulletins are repeated about every 20-30 minutes, so
```

screens will be kept updated, without hogging the freq.

Reception reports, comments, questions etc. welcomed, either here (garnold@naples.net) or direct to Dale, the digital genius who has written this code (kg5qd@aol.com).

The 30m link from Naples outbound is located at KG5QD for the time being, and is available whenever possible. We hope to have a 30 m link at the EOC, colocated with our VHF port shortly. This will be at 160 feet, and would be a 24 hour port.

73,
Gary WB2WPA

--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered French Toast during the Renaissance."
-- Steven Wright, perpipheral visionary

---

62. Re: [APRSSIG:4162] Re: FREQ COORDINATION LETTER

From: SKedney@aol.com
Date: Tue, 3 Sep 1996 13:13:02 -0400
To: aprssig@tapr.org
Message-ID: <960903131301_470854962@emout15.mail.aol.com>
Rendered body type: text/plain

Thanks, I will see you on the air as soon as i find the pk88 in the closet, and hook it up to the new computer and the new radio. This sounds interesting.

73s
Sean
N9EBJ

---

63. Re: [APRSSIG:4332] Re: Too much time on my hands....

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 3 Sep 1996 12:50:51 -0500
To: <aprssig@tapr.org>
Message-ID: <199609031751.MAA00640@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

>
> > Wouldn't a NATIONAL APRS GATHERING be a NEAT event????
> > We could set up over a three-day weekend, I'd suggest, and bring in
Bob
> > and the Sproul Brothers, surely we could get the usual support from
the
> > ....
> > Anybody have any comments?
>
> APRSdos REPLY/COMMENT: Isnt it called Dayton?
>

YEP! For East Coasters! hihi

I like the mid-America APRS gathering idea, because, 1. It is close and 2. it aint far!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

---

64. APRS Airshow

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 3 Sep 1996 13:02:57 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609031828.NAA01104@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
There is an airshow scheduled for this weekend in Harrison AR. The local
radio club will be working providing "backup" communications. Also, I have
been talking with the the Conferderate Air Force (which by the way all the
pilots are Hams!) about putting in an APRS package aboard thier aircraft.
As it turns out they are not going to do much flying at the show, but,
would like to talk about possibly installing a mobile APRS package
permanently! As you can imagine, I'm jumping on that one! Anyhoo, don't be
surprised someday when you see a "squadron" on aircraft moving across the
screen!!!
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

65. Getting the NWS interested?!

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 3 Sep 1996 13:27:26 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609031828.NAA01106@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Just a few questions! And please answer before noon tommorrow! (Sorry for
the short notice but we have a "eye to eye" tomm. with the NWS)
How do I get the NWS interested in using APRS as an alternative to a
failed SKYWARN (Voice)Net?
How do I get the HAMS involved?
Who has successfully installed and has a good working APRS SKYWARN NET?
Any suggestions, help, comments, gripes, complaints, ect. ect. will help!
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

66. Re: [APRSSIG:4339] APRS Airshow

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 03 Sep 1996 14:56:55 -0400
To: aprssig@tapr.org
Message-ID: <322C7F77.2C0C@cyberenet.net>
Rendered body type: text/plain

```
Now THAT would be cool! I would like to see them crusing around the
country.

By the way, for those of you who haven't made it to Bill's webpage, he
has done a really nice job! Congrats to you Bill.

Bob, n2iph
'94 Lightning build #3541
```

---

67. Re: [APRSSIG:4306] Re: ACARS

From: "Theodore J. Katz" <theojkat@voicenet.com>
Date: Tue, 03 Sep 1996 16:29:07 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960903202907.00669410@voicenet.com>
Rendered body type: text/plain

```
At 09:24 PM 9/2/96 -0500, you wrote:
>On Mon, 2 Sep 1996, Theodore J. Katz wrote:
>
>> I have been reading about acars w/aprs or APRSacars, Is there any info on
>> have this is setup?.
>> I have a PK900, aprs76f and a radio that can recieve 131.55 AM.
>> The PK900 does have software the will run acars.
>
>APRSdos REPLY/COMMENT:  Read ACARS.txt.  You must run APRSair.exe and I
>cant remember what you have to have registered or not..   It should be in
>that file...  Be sure to tell the TNC to pass along the data RAW to
>APRS...
>
```

>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
I am a registered (aprs) Where is Aprsair.exe ???
Ted Katz N3OWM,Phila,Pa
tedk@formail.formation.com
theojkat@voicenet.com
n3owm@ke3cz.epa.pa.usa
40.01.05 N
75.03.75 W

68. Re: DFjr connections with APRS (fwd)

From: ayork@juno.com (Arthur York)
Date: Tue, 03 Sep 1996 17:14:11 EDT
To: aprssig@tapr.org
Message-ID: <19960903.163005.13486.0.ayork@juno.com>
Rendered body type: text/plain

If its any help, Daemon is a Mail router in the U.K.

Art York
w4vrp

69. Re: [APRSSIG:4333] Re: APRS at 30,000 ft on an L-1011 -Reply

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Tue, 03 Sep 1996 15:14:12 +0000
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19960903151412.003219e4@dgps.com>
Rendered body type: text/plain

Knut,
Are you sure of this. I believe that GPS is now certified for use in
aviation. In fact, I have been up in the cockpit with handheld recievers
going over it with the crew. I am not saying you are wrong, but I am
surprised. In fact, the precision approaches from 98 on will be mostly GPS.

At 09:37 AM 9/3/96 -0500, Doug Nielson wrote:
>Please, spare us this speech...
>
>>>> Knut Finnevolden <knutf@mail.idt.net> 02 Sep 96 06:26 >>>
>rwf wrote:
>> I just got off the plane on my trip back from Florida. We held a lot due to
>> weather, so I had a chance to do something kind of neat:
>> I played with APRS on the Delta Jet. I also played with Precision
>Mapping/GPS.
>> I did not have a radio turned on, So I just played with the GPS and
>maps.
>> Here's what I did:
>
>[snip]
>
>Ralp,
>What you did seemed pretty COOL, but it was illegal and dangerous!!!
>As you obviously know, you may not use any receiver on board a
>commercial
>airplane (Federal Aviation Regulations). The pilot cannot even permit you
>to do it. A GPS is a receiver!! And you knew that!!
>So what did you do when you were showboating for the other
>passengers ??
>You could have endangered your and everybody elses lives, since it
>could
>have affected the onboard navigation system. Depending on the type of
>airplane you were in, some have OLD equipment. Be aware that in a
>holding
>pattern, the protected airspace around your aircraft is limited, and the
>pilots are expected to remain within. If they bust this, and it creates a
>conflict with another airplane, the pilots may have their license
>suspended for 30-90 days. That's a big fine (loss of income) for your
>showboating. Next time, if you are not sure, ask the pilot prior to using
>a receiver. Don't ask the flight attendant.
>
>73.. Knut
>Airline Captain
>
>PS. If this had happened on my flight, I would have had you arrested for
>endangering everbody's lifes.

>
>
>
---------- Worldwide leaders in Real Time DGPS-----------------------------
Ronald P. Haley PH: +1-408-446-8350
President and C.E.O. Fax: +1-408-446-8383
Differential Corrections Inc E-Mail: ronhaley@dgps.com
10121 Miller Ave Web: http://www.dgps.com
Cupertino, CA 95014
----

70. Re: [APRSSIG:4342] Re: ACARS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 3 Sep 1996 18:32:06 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960903183054.16970D-100000@arctic>
Rendered body type: text/plain

On Tue, 3 Sep 1996, Theodore J. Katz wrote:

> I am a registered (aprs) Where is Aprsair.exe ???
> Ted Katz N3OWM,Phila,Pa

APRSdos REPLY/COMMENT: Its where everything else is for APRSdos on the
tapr.org ftp site in the tapr/SIG/aprssig/files/upload or dosaprs
directories...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

71. Re: [APRSSIG:4344] Re: APRS at 30,000 ft on an L-1011 -Reply

From: Knut Finnevolden <knutf@mail.idt.net>
Date: Tue, 03 Sep 1996 18:51:39 -0700
To: aprssig@tapr.org
Message-ID: <322CE0AB.4979@mail.idt.net>
Rendered body type: text/plain

Ronald P. Haley wrote:
>
> Knut,
> Are you sure of this. I believe that GPS is now certified for use in
> aviation. In fact, I have been up in the cockpit with handheld recievers
> going over it with the crew. I am not saying you are wrong, but I am
> surprised. In fact, the precision approaches from 98 on will be mostly GPS.
> snip----------------
> >
> ---------- Worldwide leaders in Real Time DGPS-----------------------------
> Ronald P. Haley PH: +1-408-446-8350
> President and C.E.O. Fax: +1-408-446-8383
> Differential Corrections Inc E-Mail: ronhaley@dgps.com
> 10121 Miller Ave Web: http://www.dgps.com
> Cupertino, CA 95014-------

All electronic equipment used in an airplane must meet TSO requirements
(certification requirements) for its use. GPS is widely used in
airplanes, but the individual model number must meet the above TSO.

Now for passengers carrying their own equipment onboard, the Federal
Aviation Regulation is clear:

FAR 91.21 Portable electronic devices.
(a) Except as provided in paragraph (b) of this section, no person may
operate, nor may any operator or pilot in command of an aircraft allow
the operation of, any portable electronic device on any of the following
U.S.-registered civil aircraft:
(1) Aircraft operated by a holder of an air carrier operating
certificate [AIRLINE] or an operating certificate; or
(2) Any other aircraft while it is operated under IFR. [All Jet
operations are conducted under IFR]
(b) Paragraph (a) of this section does not apply to -
(1) Portable voice recorders;
(2) Hearing aids;
(3) Heart pacemakers;
(4) Electric shavers; or
(5) Any other portable electronic device that the operator of the
aircraft has determined will not cause interference with the navigation
or communication system of the aircraft on which it is to be used.
[A list of these devices is typically found in the in-flight magazine,
and typically include computers and cd-players. No airline will permit

```
AM/FM RECEIVERS, TVs, cell phones etc.]

The text in [  ] is added by me. As you see from this regulation, it is
not up to the pilot, but up to the airline (with the FAA's approval) to
determine if a particular electronic device may be used. To my knowledge,
no US airline allows ANY type of receiver provided by a passenger to be
used.

There is no doubt that you can go out and buy a IFR approved handheld
GPS. The problem, again, lies in who provided the equipment, the airline
or a passenger.

We have had a few cases where erratic indications have been observed
during approach, that stopped when the flight attendant asked a passenger
to turn off his 'walk-man'.

73.. Knut
```

---

72. Re: [APRSSIG:4346] Re: APRS at 30,000 ft on an L-1011 -Reply

From: Bill Lefler <wo0e@sky.net>
Date: Tue, 3 Sep 1996 18:17:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960903181536.10996A-100000@sky.net>
Rendered body type: text/plain

```
On Tue, 3 Sep 1996, Knut Finnevolden wrote:

> We have had a few cases where erratic indications have been observed
> during approach, that stopped when the flight attendant asked a passenger
> to turn off his 'walk-man'.
     ^^^^^^^^^^^^^^^^^^^^^^^^^ Does this scare anyone else? I think I will
take the bus from now on!!!!! :-) ;-)
I know! Get back on topic....
*********************************************
wo0e@sky.net  - Bill Lefler - Kansas City KS
Amateur Radio -  WO0E  (Dub-Yo-Zeree)
"Life is a Reach! Sheet in and Hike Hard!"
*********************************************
```

---

73. Re: [APRSSIG:4344] Re: APRS at 30,000 ft on an L-1011 -Reply

From: KD4EMI@aol.com
Date: Tue, 3 Sep 1996 19:26:03 -0400
To: aprssig@tapr.org
Message-ID: <960903192539_276314695@emout15.mail.aol.com>
Rendered body type: text/plain

```
This is in ref to the flamage:

Whether it is ok or isnt ok to use one, the flame that guy  (?) sent was
way out of line  IMHO...Here (was) probably an enthusiastic guy who wanted to
share a little of his excitement..

I almost flipped when I read the flame...wow man, chill out...relax...
Peace..
Mike
KD4EMI@AOL.COM
```

---

74. Re: [APRSSIG:4280] WX Legal

From: ku0g@sprynet.com
Date: Tue, 3 Sep 1996 16:45:35 -0700
To: aprssig@tapr.org
Message-ID: <199609032345.QAA29047@m1.sprynet.com>
Rendered body type: text/plain

```
The Identification issue is already covered in the position report as your
station callsign appears as the FIRST thing in EVERY packet followed by the
digipath.  Easy, huh?

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

75. Re: [APRSSIG:4288] APRS beacon format

From: ku0g@sprynet.com
Date: Tue, 3 Sep 1996 16:48:52 -0700
To: aprssig@tapr.org
Message-ID: <199609032348.QAA29451@m1.sprynet.com>

Rendered body type: text/plain

```
Yes, the leading zero is the problem...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

76. Re: [APRSSIG:4307] Re: Uplinking hurricane info

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 3 Sep 1996 20:02:42 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609032023.A23711-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Good idea Bob, we are being sent weather warnings from three different
stations, all from outside of our local area.  Worse yet, they are
incomplete sentences for the most part.  The weather information is in
'automatic' mode and all words beyond the screen width are truncated.
73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Mon, 2 Sep 1996, Bob Bruninga wrote:

> On Mon, 2 Sep 1996, Don Murray wrote:
>
> > this..   Is it ok to uplink this kind of weather information if a station
> > like me does not see in already on their APRS maps..
>
> APRSdos REPLY/COMMENT:  Seems to me that that is exactly what APRS is
> deisgned for.  As soon as organized SKYWARN nets come up, they can set the
> better local rules, but it seems you are fulfilling the true sense of ham
> radio by posting your info voluntarily.  Only caution would be to not
> send such info beyond two WIDES tho.  SInce you will typically see only
> stations out 2 WIDES, you should not QRM stations beyond that range...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

---

77. WTB: PacComm HandiPacket

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 03 Sep 1996 20:05:34 -0400
To: aprssig@tapr.org
Message-ID: <322CC7CE.3E78@global2000.net>
Rendered body type: text/plain

```
Hi All

Does anybody have a HandiPacket they no longer need or want?
Please let me know via direct e-mail.


TNX

John
```

---

78. TNX TO FL

From: "Chris H. Edwards, AE4XO" <hedwards@st6000.sct.edu>
Date: Tue, 3 Sep 1996 20:05:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.960903195542.61268F-100000@st6000.sct.edu>
Rendered body type: text/plain

```
Hello Thank you to those stations between Warner Robins and FT. Myers
that contacted or Were active on APRS this weekend. I enjoyed APRS as
always. And even if there were some 'holes' in the network, I still
enjoyed watching myself going down the road. Several stations had very
nice updated <and current> Hurricane info. K4FUY on Sanibel IS, FL acted
as a relay, and was helpful in getting my packets to the Wide in Naples.

I travelled to FL in June and there were NO stations in the area of FT.
Myers that I saw, so that you again to those that were available.
```

73 de chris
hedwards@sct.edu <hows that rwf??>

Marietta, GA

---

79. Re: [APRSSIG:4308] Re: APRS 7.7

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 3 Sep 1996 20:07:05 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609032020.B23711-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I don't have a solution but will report on a similar problem that has since disappeared. APRS wouldn't start communicating with the TNC from it's WIN95 icon (DOS) until I went into hyperterminal and kick-started the TNC. This consisted of just the simple connection at 4800 baud. Once that took place I could exit and APRS would start without the TNC COMMUNICATION error.   This problem started when I installed 7.6F.

Maybe just a qwirk, but the problem has since disappeared.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 2 Sep 1996, Bob Bruninga wrote:

> On Mon, 2 Sep 1996, Gary Wells wrote:
>
> > First, I am using it with a Davis Weather Monitor II. Several times,
> > when I have quit APRS, and then gone back, APRS can not find the weather
> > station. It diaplays the Getting WX Station Data message, and locks up
> > TIGHT. Rebooting does not help. The only way I have found to get APRS
> > to find the WX station again is to reboot, start Weather Link software,
> > access the WX station, quit Weather Link, and then start APRS.
>
> APRSdos REPLY/COMMENT: ANyone else have this problem? What is solution?
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>

---

80. Re: [APRSSIG:4340] Getting the NWS interested?!

From: David & Roxanne McCarthy <davidmc@goodnet.com>
Date: Tue, 03 Sep 1996 17:43:53 -0700
To: aprssig@tapr.org
Message-ID: <322CD0C9.E7F@goodnet.com>
Rendered body type: text/plain

I am also interested in this idea. Would appreciate more info on how to set it up.

David, KC7AYX
Arizona Skywarn Sector 2

---

81. Re: [APRSSIG:4346] Re: APRS at 30,000 ft on an L-1011 -Reply

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 3 Sep 1996 17:41:37 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960903174209.232f8450@mailhost.primenet.com>
Rendered body type: text/plain

At 05:53 PM 9/3/96 -0500, Knut Finnevolden wrote:
>   (b) Paragraph (a) of this section does not apply to -
>   (1) Portable voice recorders;
>   (2) Hearing aids;
>   (3) Heart pacemakers;
>   (4) Electric shavers; or
>   (5) Any other portable electronic device that the operator of the
>aircraft has determined will not cause interference with the navigation
>or communication system of the aircraft on which it is to be used.
>[A list of these devices is typically found in the in-flight magazine,
>and typically include computers and cd-players. No airline will permit
>AM/FM RECEIVERS, TVs, cell phones etc.]
>
>The text in [ ] is added by me. As you see from this regulation, it is
>not up to the pilot, but up to the airline (with the FAA's approval) to

>determine if a particular electronic device may be used. To my knowledge,
>no US airline allows ANY type of receiver provided by a passenger to be
>used.

Aha, there lies the rub. I've checked most airline magazines while onboard, and I've never run across a specified ban on GPS receivers. I've heard that Alaska Airlines (on this SIG) has them (GPS) listed.
The ban on cell phones is under regulation mainly by the FCC. This is to keep cell-phones from "lighting up"
several hundred cell sites at once! It applies to any cell-phone in any aircraft in the air.

Many consumer electronic products emit possibly harmful RF. I know for a fact, that my Casio PDA emits a strong signal on 123.10 AM which is the Air-to-Air frequency used by Phoenix Police when talking to News Helicopters. For that reason, I refrain from using it onboard aircraft. I've "sweep tested" my Magellan Trailblazer XL through the entire VHF avaition band (as well as others) and it emits no birdies. I also have an electric razor, a Norelco, which sets off my weather-alert radio (on 162.55 mHz FM) every time I use it! This is a compound problem as it takes several harmonics to do this. I've even read of hearing aids causing interference with radar detectors and cell phones.

This is the problem. The "ban" on receivers is short sited, because a CD walkman or a cheap laptop computer is just as likely to cause harmful interference as a GPS receiver, if not more so.

>
>There is no doubt that you can go out and buy a IFR approved handheld
>GPS. The problem, again, lies in who provided the equipment, the airline
>or a passenger.
>
>We have had a few cases where erratic indications have been observed
>during approach, that stopped when the flight attendant asked a passenger
>to turn off his 'walk-man'.
>
>73.. Knut
>
>

---

82. Re: [APRSSIG:4344] Re: APRS at 30,000 ft on an L-1011 -Reply

From: davidc@tbcnet.com (David Chesser)
Date: Tue, 3 Sep 1996 19:50:33 -0500
To: aprssig@tapr.org
Message-ID: <199609040050.TAA24234@tbc1.tbcnet.com>
Rendered body type: text/plain

The use of GPS in the cockpit for instrument flight is restricted to a GPS with an updatable database and installed in the panel of the aircraft. A GPS approach is a Non Precision approach which, unlike an ILS approach, is a precision approach and provides altitude and runway centerline guidance (Category I [200 ft], Category II, [100 ft], and Category III [touchdown]) with special requirements for air crew and equipment for category II & III. An example of a non precision approach is a VOR approach which might not even align the aircraft to the runway centerline. Also, the minimum altitude is usually closer to that of an NDB approach (Non directional beacon). When differential transmitters are in place at each airport that has a GPS approach. This will then change things, but for here and now a GPS approach is a Non Precision approach and hasn't replaced the ILS approach. A handheld GPS doesn't have an updatable database and isn't installed in the panel, so can't be used for IFR flight.

David Chesser Pilot

---

83. WIDE,WIDE,WIDE?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 3 Sep 1996 20:55:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960903205346.21535D-100000@laraby.tiac.net>
Rendered body type: text/plain

I've been using the GATE filter mostly, but recently turned it off and what do I see? Most everyone is using an Unproto path with at LEAST three WIDE's....I thought that was a NO-NO.

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

---

84. Which GPS for me?

From: JohnN2YHK@aol.com
Date: Tue, 3 Sep 1996 21:58:46 -0400
To: aprssig@tapr.org, n2zrc@gnn.com, n2ygk@columbia.edu
Message-ID: <960903215404_471222739@emout12.mail.aol.com>
Rendered body type: text/plain

```
Hello All,

First I would like to say I am delighted to be back on the SIG after a two
month absence during my move from NY to VT.

I was sad to leave the "heavily" populated APRS area around NYC, but I was
also surprised to actually see three stations on APRS here in the Champlain
Valley of VT/NY.

Which brings me to the point of this message:

I would like to purchase a GPS unit to take with me in the car and on the 50+
miles of bikepath around Burlington, VT.  It would be primarily to track
myself from the computer at home.  I have never looked into purchasing a unit
before.  Which one is for me?

I want a unit around $300, since I still need to fork out another $100-$125
for another KPC-3.  I assume I want one with an attached antenna, with a
connection for an external one.  I also (I think) need one with a NEMA port
in order to use it for APRS.  I have seen one with a nice map display (I
think it was a Garmin), but that is not a necessity.  Any suggestions?  And
what is the Garmin 45 everyone seems to have?

Thanks in Advance!

73 de John, N2YHK/1
```

---

85. Re: [APRSSIG:4312] Too much time on my hands....

From: Mark Spoo <markspoo@TheRamp.net>
Date: Tue, 3 Sep 1996 21:11:56 -0500
To: aprssig@tapr.org
Message-ID: <199609040211.VAA03137@kato.theramp.net>
Rendered body type: text/plain

```
Well I am speaking or my self and Chgo but lets do it!!!!!! We could have
sessions from novice to expert user and Active demenstrations Make it when
it is cool but not cold. Also computer suppliers could be invited



Mark N9VDQ

At 11:54 PM 9/2/96 -0500, you wrote:
>Had a MOST enjoyable lunch with KB9LBU and WA9FFL in Rochelle, Illinois,
Monday
>afternoon as I departed Chicago for Kansas City...It occured to me that
meeting
>face-to-face is good for all of us....
>
>Then, a bolt from the blue (actually a smack from Karla!) gave me an idea....
>
>Wouldn't a NATIONAL APRS GATHERING be a NEAT event????  I'll even go so far as
>to say that the Kansas City APRS Working Group would be willing to host
such an
>event.  There is certainly an ample supply of hotel/motel space with meeting
>rooms here, not to mention a fairly mature APRS network operating.
>
>We could set up over a three-day weekend, I'd suggest, and bring in Bob and
the
>Sproul Brothers, surely we could get the usual support from the various
>APRS-affiliated suppliers like PacComm, Kantronics, Garmin (I can pretty well
>guarantee and BIG Garmin presence if we did it here) and others...
>
>Anybody have any comments?
>
>So what do you think?  Kansas City, BBQ, APRS all at once? Only way it
could get
>any better is if the beer was free!!!
>
>Comments welcome!!!
>
```

>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>

---

86. Re: [APRSSIG:4329] RE: Pico TNC-Help

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 3 Sep 1996 21:20:54 -0600
To: aprssig@tapr.org
Message-ID: <1370336842-1020370@email.firecraker.com>
Rendered body type: text/plain

>On Saturday, August 31, 1996 2:45 PM, Irvin Feldman[SMTP:irvinf@i1.net]
>wrote:
>>TNX for reading, not a packet guru. Pico inop with new firmware(pre-rel
>>3.2.10 5/13/96). Reinstalled original and was to make two connects.
>>Everything seems normal
>>EXCEPT I cannot monitor any packet burst (on another rcvr) when the HT is
>keyed.
>>
>>Anyone remember Gynn's E-mail address? gwynn@paccomm.com??
>>
>>TNX
>>Irv Feldman
>>N0NOB
>>E-mail:irvinf@i1.net
>>
>>
>>
>
>Gwyn@paccomm.com (anything@paccomm.com works, where anything means
>anything. Most usual problem with bounced mail is mis-spelling of paccomm,
>like leaving out one c or one m)
>
>Gwyn Reedy, W1BEL
>PacComm Packet Radio Systems
>http://www.paccomm.com
>
>begin 600 WINMAIL.DAT
>M>)\^(C4-`0:0" `$````````!``$``0>0!@`(````Y 0````````#H``$-@ 0`
> .... much snipped....
>end
>
>
 AARRRRRRGGGGGHHHHH..... !!!!
  Someone is using Microsoft Explorer. Please fix this so it's not attached
to every message you send. I'm not sure of the source. I know we went thru
this some time ago. A knowledgeable individual please advise the source how
to "FIX" this. I forgot or I'd rely to them directly myself.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com

---

87. NWS INTEREST IN APRS

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Tue, 3 Sep 96 21:33 EDT
To: aprssig@tapr.org
Message-ID: <m0uy6q3-000QkFC@nevets.oau.org>
Rendered body type: text/plain

> ===
>From wa4ikq Tue Sep 3 20:40:33 1996
To: aprs-fl@tapr.org
Subject: NWS INTEREST IN APRS

In reponse to questions posed by KC5JGV,

NWS in Melbourne became interested in APRS when they saw all the automatic
transponding weather stations ham radio operators were running 24 hours a
day. In the Orlando metropolitan area alone, 4 weather stations are on APRS.
It also helps to have a knowledgable APRS ham willing to install and train
NWS on the operation of APRS. A demo is worth a thousand words.

```
                            Geoffrey Dick
                            Winter Park, FL
                            wa4ikq@nevets.oau.org

===========================================================================
> > Date: Tue, 3 Sep 1996 13:46:15 -0500 (CDT)
> > From: "J. Scott Ratchford, KC5JGV" <alfred!ucf-cs!bulldog.afsc.k12.ar.us!jratchf>
> > To: aprssig@tapr.org
> > Subject: [APRSSIG:4340] Getting the NWS interested?!
> >
> > Just a few questions! And please answer before noon tommorrow! (Sorry for
> > the short notice but we have a "eye to eye" tomm. with the NWS)
> > How do I get the NWS interested in using APRS as an alternative to a
> > failed SKYWARN (Voice)Net?
> > How do I get the HAMS involved?
> > Who has successfully installed and has a good working APRS SKYWARN NET?
> > Any suggestions, help, comments, gripes, complaints, ect. ect. will help!
> > --
> > J. Scott Ratchford - KC5JGV - Marshall, Arkansas
> > *  North Arkansas Amateur Radio Society, Inc.
> > *  Marshall Volunteer Fire Dept./EMS First Responder
> > *  Calf Creek Lodge #426
> > *  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
> >
```

88. Re: [APRSSIG:4358] WIDE,WIDE,WIDE?

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 3 Sep 1996 21:33:23 -0600
To: aprssig@tapr.org
Message-ID: <1370336093-1065401@email.firecraker.com>
Rendered body type: text/plain

```
>I've been using the GATE filter mostly, but recently turned it off and
>what do I see?  Most everyone is using an Unproto path with at LEAST
>three WIDE's....I thought that was a NO-NO.
>
>Richard Amirault              N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>
>
My impression was it is, but since most new users don't read all the
documentation till they have a problem (I'm guilty here), they don't know
about it till someone posts a BLN or they get told directly. It's an issue
in Chicago area too.
  Bob, Mark, and Keith,
    It's too bad the APRS software can't check the unproto path for this
condition and put up an error message( smirk..smirk.. hint.. hint). I know,
I have no idea what's involved, but you cant blame a guy for asking.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@firecraker.com
E-Mail Work: rsellers@snds.com
```

89. Re: [APRSSIG:4264] APRS at 30,000 ft on an L-1011

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 3 Sep 1996 23:11:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960903230726.21535H-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Fri, 30 Aug 1996, rwf wrote:

(snip)
> I played with APRS on the Delta Jet.  I also played with Precision Mapping/GPS.
>
> I did not have a radio turned on, So I just played with the GPS and maps.
(snip)
> Sure would have been fun to have used a rig up there, but I tend to respect
> those rules!

As I understand it "those rules" specifically state that if an electronic
device is not specifically allowed to be operated, then it is prohibitied.
I also understand that is is the "operator" of the aircraft, not the
steward / stewardess, or pilot that must give permission. (ie. the
airline company)
```

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

90. Re: [APRSSIG:4311] Toshiba 1910 Laptops???

From: rwf <rwf@mindspring.com>
Date: Tue, 03 Sep 1996 23:15:09 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960904031509.006fd734@mindspring.com>
Rendered body type: text/plain

```
Dub-Yo-Zeree-

Are you positive it is the computer and not just APRS keeping it toggled low?
I found that when I was only outputting a certain sentence (GGA, I think)
from the GPS, that APRS would appear to
lock up while waiting for HSP data.  I think it actually displayrd a message
similar to "HSP port time out".

I changed the GPS to output RMC as well and APRS was happy again.  I
mentioned this to Bob when I visited him at the Naval Academy last November
and he was going to look into it, but I'm not sure what happened.

In rereading your message, I see that you are using the Garmin, which gives
all the sentences you need (unless the XL is different from the regular 45)-
but I am going to send the message anyway in case anyone else is having the
problem I had.

Again:  I worked around it myself, and Bob has probably already handled it
in the program.

ralph
rwf@mindspring.com
```

---

91. Re: [APRSSIG:4314] Re: Too much time on my hands....

From: rwf <rwf@mindspring.com>
Date: Tue, 03 Sep 1996 23:15:11 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960904031511.006d9ef4@mindspring.com>
Rendered body type: text/plain

```
At 01:09 AM 9/3/96 -0500, KU0G wrote:

>> So what do you think?  Kansas City, BBQ, APRS all at once?

I am *always* up for BBQ (anything but Pork- just ask the Dallas Guys) and
lots of Sweet Iced Tea or Coca-Cola!
When is it  (licking chops)

Ralph
```

---

92. Re: [APRSSIG:4363] Re: WIDE,WIDE,WIDE?

From: rbost@itexas.net (Roy Bost)
Date: Tue, 3 Sep 1996 22:52:52 -0500
To: <aprssig@tapr.org>
Message-ID: <19960904035507061.AAA156@rbost.itexas.net>
Rendered body type: text/plain

```
But that wouldn't be fair to  those of us that live in thinly populated
APRS areas!
Down here it's not unusual to be 20-30 miles apart.  Tonight I'm seeing
20-25 stations from Dallas to north of Houston.  Three wides might get me
some more viewing area!  Presently myy path statement is "relay, wide,
wide, gate".  Don't know if that is proper or not but the only Gates are in
South Texas.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

---

93. Re: [APRSSIG:4323] Re: NDN: Re: DFjr connections with APRS (fwd)

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Wed, 04 Sep 1996 00:00:31 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960904040031.00700724@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 07:11 AM 9/3/96 -0500, you wrote:
>Mailer-Daemon <Mailer-Daemon@teachnet.edb.utexas.edu>
>Mailer-Daemon wrote:
>>
>> Sorry. Your message could not be delivered to:
>>
>> aprs sig (The name was not found at the remote site. Check that the name has
>> been entered correctly.)
>>
>> --
>>
>> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
>>  TeachNet, College of Education, University of Texas, Austin Texas
>> -=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
>
>Is anyone else getting these messages, this makes about a dozen this
>morning (In 2 hours).
>
>--
>   Check out my APRS Web Page.
>    Totally Devoted to APRS
>
>http://www.concentric.net/~wa8inz
>
>             \////
>             (o o)
>       *--o00-(_)-00o--*
>          Bill WA8INZ
>        wa8inz@cris.com
>        wa8inz@amsat.org
>
>

 Bill: I got a bunch of them down here too. No idea! PS: Did not see your
questionair on your webb page last night but count in as a helper with new
people here in SW FL. I know the basics but am learning more as I go along.

ron/73/kd4ams
73 cu Ron"KD4AMS"
```

---

94. Re: [APRSSIG:4333] Re: APRS at 30,000 ft on an L-1011 -Reply

From: Douglas Graves <kc5eib@gte.net>
Date: Tue, 03 Sep 1996 23:05:12 -0500
To: aprssig@tapr.org
Message-ID: <322CFFF8.1306@gte.net>
Rendered body type: text/plain

```
Doug Nielson wrote:
>
> Please, spare us this speech...
>
> >>> Knut Finnevolden <knutf@mail.idt.net> 02 Sep 96  06:26 >>>
> rwf wrote:
> > I just got off the plane on my trip back from Florida.  We held a lot due to
> > weather, so I had a chance to do something kind of neat:
> > I played with APRS on the Delta Jet.  I also played with Precision
> Mapping/GPS.
> > I did not have a radio turned on, So I just played with the GPS and
> maps.
> > Here's what I did:
>
> [snip]
>
> Ralp,
> What you did seemed pretty COOL, but it was illegal and dangerous!!!
> As you obviously know, you may not use any receiver on board a
> commercial
> airplane (Federal Aviation Regulations). The pilot cannot even permit you
> to do it. A GPS is a receiver!! And you knew that!!
> So what did you do when you were showboating for the other
> passengers ??
> You could have endangered your and everybody elses lives, since it
> could
> have affected the onboard navigation system. Depending on the type of
> airplane you were in, some have OLD equipment. Be aware that in a
> holding
> pattern, the protected airspace around your aircraft is limited, and the
> pilots are expected to remain within. If they bust this, and it creates a
> conflict with another airplane, the pilots may have their license
```

> suspended for 30-90 days. That's a big fine (loss of income) for your
> showboating. Next time, if you are not sure, ask the pilot prior to using
> a receiver. Don't ask the flight attendant.
>
> 73.. Knut
> Airline Captain
>
> PS. If this had happened on my flight, I would have had you arrested for
> endangering everbody's lifes.

Dont know what airline you fly for but DELTA allows VHF-FM
receivers to be used on board, inflight but not during
take off or landing. Refer to the back of the Delta Mag
on the flight. Dont have a copy with me now but do remember
a ban on TV's among some other items

Doug.

---

95. Re: [APRSSIG:4333] Re: APRS at 30,000 ft on an L-1011 -Reply

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Wed, 04 Sep 1996 00:10:36 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960904041036.0068ca1c@mail.cyberstreet.com>
Rendered body type: text/plain

At 09:37 AM 9/3/96 -0500, you wrote:
>Please, spare us this speech...
>
>>>> Knut Finnevolden <knutf@mail.idt.net> 02 Sep 96 06:26 >>>
>rwf wrote:
>> I just got off the plane on my trip back from Florida. We held a lot due to
>> weather, so I had a chance to do something kind of neat:
>> I played with APRS on the Delta Jet. I also played with Precision
>Mapping/GPS.
>> I did not have a radio turned on, So I just played with the GPS and
>maps.
>> Here's what I did:
>
>[snip]
>
>Ralp,
>What you did seemed pretty COOL, but it was illegal and dangerous!!!
>As you obviously know, you may not use any receiver on board a
>commercial
>airplane (Federal Aviation Regulations). The pilot cannot even permit you
>to do it. A GPS is a receiver!! And you knew that!!
>So what did you do when you were showboating for the other
>passengers ??
>You could have endangered your and everybody elses lives, since it
>could
>have affected the onboard navigation system. Depending on the type of
>airplane you were in, some have OLD equipment. Be aware that in a
>holding
>pattern, the protected airspace around your aircraft is limited, and the
>pilots are expected to remain within. If they bust this, and it creates a
>conflict with another airplane, the pilots may have their license
>suspended for 30-90 days. That's a big fine (loss of income) for your
>showboating. Next time, if you are not sure, ask the pilot prior to using
>a receiver. Don't ask the flight attendant.
>
>73.. Knut
>Airline Captain
>
>PS. If this had happened on my flight, I would have had you arrested for
>endangering everbody's lifes.
>
>
>Haf you any relatifs in.......Chermany??????
73 cu Ron"KD4AMS"

---

96. Help with aprs "illegal function call"

From: David Higdon <dhigdon@america.net>
Date: Wed, 04 Sep 1996 00:14:24 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960904041424.00708eac@america.net>
Rendered body type: text/plain

Does anyone have a suggestion to help fix this problem? When attempting to
start

APRS the message "illegal function call at address 10f4:53bf" appears. What
does
this refer to and more importantly, how do I fix it? Thanks.
Dave Higdon KD4ICT
dhigdon@america.net

---

97. REVISED PNW MAPS POSTED

From: DDOBBINS@aol.com
Date: Wed, 4 Sep 1996 00:38:11 -0400
To: aprssig@tapr.org
Message-ID: <960904002236_515503709@emout17.mail.aol.com>
Rendered body type: text/plain

New maps, and revised maps, covering the Pacific Northwest, have been posted to the TAPR APRS SIG upload area. The file is called PNWMAP09.ZIP, which also includes a MAPLIST.PNW file. Enjoy. Dave/WH6YC, PNW APRS Coordinator.

---

98. APRS MAPS on Internet with javaAPRS

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Tue, 3 Sep 1996 21:50:14 -0700
To: aprssig@tapr.org
Message-ID: <199609040450.VAA16739@poseidon>
Rendered body type: text/plain

Hello to the Sig,
     ATTN: Steve/KO4HD, Bob/WB4APR, Rich/N2CZF, Bill/WA8INZ, Bob/N6FRI.

Need some help, enlightenment on how you are linking active APRS area Maps to Internet connections, and using javaAPRS.

We have a Sailboat race "BAJA HA HA", from San Diego down coast to Cabo San Lucas, Oct 28th. Yachting magazine sponsoring race and wants to set up a WEB page, with active APRS maps. We will be in QSO and GPS tracking KN6KB/Rick S/V Second Wind, during race, possibly others and want to input APRS map with S/V posits, to the Race WEB page.
Have no idea of how you fellas are linking the active APRS map into your Internet addresses to be observed real time.
Does it require a dedicated phone link to your Net provider, and active continually, or does one dial up your URL and your computer is linked to your MAP actively. JUST HOW DO YOU DO THIS. ???.
I have downloaded javaAPRS, but cannot figure out how to use it. I cannot copy your java net inputs/info, as am using old Netscape Ver1.5.2 and it says cannot read JAVA ..
Do I have to have Netscape V3.o, can new MS-Explorer with Win3.1 read JAVA files. ?????
What do I basically need to provide an APRS to a Web site for the Yachting world, for an active tracking down the Calif coast to Cabo San Lucas. ?????

How do you get the APRS MAPS, to appear on your WEB sites.???

Any help, ideas , thoughts , hint/kinks how to, would be greatly appreciated. Have read the javaAPRS instructions, but throughly confused as to how to use it. ??.
Again thanks for any replies, or advice. Other than simple straight forward DOS operation, do not understand a lot about computers, programing, files, and still and old DOS only, operator. No Windos 95, struggle with using Win3.1..
73's & Enjoy, Bill/WB6LPG ....also <bbliss@juno.com> for E-Mail only.
NNNN

WBB/WB6LPG

---

99. Re: [APRSSIG:4317] Re: Too much time on my hands....

From: ku0g@sprynet.com
Date: Tue, 3 Sep 1996 22:22:13 -0700
To: aprssig@tapr.org
Message-ID: <199609040522.WAA19006@m1.sprynet.com>
Rendered body type: text/plain

I'm hoping that I can get away for at least ONE day of the Peoria gig, but it doesn't look like it right now...Gonna try REAL hard, though!!!

Best 73,

```
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

100. Re: [APRSSIG:4332] Re: Too much time on my hands....

From: ku0g@sprynet.com
Date: Tue, 3 Sep 1996 22:28:02 -0700
To: aprssig@tapr.org
Message-ID: <199609040528.WAA20327@m1.sprynet.com>
Rendered body type: text/plain

```
Yes, Dayton, INDEED!  I'm suggesting an APRS-ONLY event (of course it would
eventually become a MAJOR hamfest as more and more amateurs take up APRS!)...Am
I just going overboard with this (Bob, comment???).  All I can say is that by
year's end we should have I-29 and I-35 covered across Missouri, I-70 to the
east and something out west in Kansas.  It would be a real site to have a couple
hundred APRS mobiles careening wildly (usually the result of putting eyes on the
computer more often than on the road then realizing it!) toward Kansas City...

Still looking for more comments.  So far it's about 6:1 in strong favor....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

101. Re: [APRSSIG:4340] Getting the NWS interested?!

From: ku0g@sprynet.com
Date: Tue, 3 Sep 1996 22:33:55 -0700
To: aprssig@tapr.org
Message-ID: <199609040533.WAA21632@m1.sprynet.com>
Rendered body type: text/plain

```
On Tue, 3 Sep 1996, "J. Scott Ratchford, KC5JGV"
<jratchf@bulldog.afsc.k12.ar.us> wrote:
>Just a few questions! And please answer before noon tommorrow! (Sorry for
>the short notice but we have a "eye to eye" tomm. with the NWS)
>How do I get the NWS interested in using APRS as an alternative to a
>failed SKYWARN (Voice)Net?

Show them the software in an easy session.  Demonstrate the WX.BAK file and play
the track history for them.  Explain how a mobile station in the field can place
himself on the map and the APRS station at NWS will instantly see the exact
location of the spotter without having to rely on the driver to describe where
he/she is.  Demonstrate the one-liner messages and bulletins and PARTICULARLY
make a demonstration of the NWS symbology for WX objects (W - U  Weather, Use
NWS symbols commands)


>How do I get the HAMS involved?

Good LUCK!  Same way.  Go to every club meeting.  Give away software.  Do live
demonstrations.  Nothing sells new users like seeing the software actually plot
a packet on the map!!!

>Who has successfully installed and has a good working APRS SKYWARN NET?\

Moline, Ill (Quad Cities), Milwaukee, Des Moines in the Midwest....There's a
start....

>Any suggestions, help, comments, gripes, complaints, ect. ect. will help!
>--
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>*  North Arkansas Amateur Radio Society, Inc.
>*  Marshall Volunteer Fire Dept./EMS First Responder
>*  Calf Creek Lodge #426
>*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
>
>
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

102. Re: [APRSSIG:4344] Re: APRS at 30,000 ft on an L-1011 -Reply

From: ku0g@sprynet.com
Date: Tue, 3 Sep 1996 22:36:43 -0700
To: aprssig@tapr.org

Message-ID: <199609040536.WAA22101@m1.sprynet.com>
Rendered body type: text/plain

We've been over this ground before, folks. Any type of radio receiver can cause
the navigational equipment malfunction or misinterpret data it receives due to
spurious emissions (birds). Best suggestion I can make is: Buy your own plane
and go from there. While the pilots response was a little terse, he IS right.

Better get permission from the pilot first. You're lucky somebody didn't
confiscate your equipment!
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

103. APRS in the UK

From: Bob Sayers <EPU@wmfs.telme.com>
Date: Wed, 04 Sep 1996 11:25:45 BST
To: aprssig@tapr.org
Message-ID: <194675@tmrelay.prod.phonelink.com>
Rendered body type: text/plain

I've recently rejoined the SIG after a break of a couple
of months due to changing our 'Net provider.

I'm keen to make contact with an APRS users in the UK
(and potentially in the rest of Europe) with a view to
discussing availability of maps, etc - could any
European SIG readers please contact me at:

epu@wmfs.telme.com

regards,

Bob Sayers
Emergency Planning Unit
West Midlands Fire Service
Birmingham, UK

West Midlands Fire Service Emergency Planning Unit
Fire Service Headquarters, Lancaster Circus Queensway,
Birmingham B4 7DE   'phone: 0121-380-7611
```
------------------------------------
     Via Tel-Me Internet E-Mail
------------------------------------
```

---

104. Re: [APRSSIG:4361] RE: Pico TNC-Help

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Wed, 04 Sep 1996 07:20:09 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960904122009.006def20@tbcnet.com>
Rendered body type: text/plain

OK Roger, here's the answer from the same problem somebody had on another list:

```
>From the Aug issue of PC Computing magazine.
>
>Quoting them, referring to Windows 95 and MS Exchange:
>
>"Q:  All of my messages have an equal sign (=) at the end of each line, and
many of them are going out with RTF attachments (jbl - that probably
explains  the strange #'s you're seeing).  How do I send plain text?
>
>"A:  Your correspondents are seeing "quoted printable MIME formatting" in
its raw form.  To get rid of it, click on the MESSAGE FORMAT on the INTERNET
MAIL properties sheet and uncheck the USE MIME box."
>
>


>
>jbl
```

```
>>begin 600 WINMAIL.DAT
>>M>)\^(C4-`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
```

```
>> .... much snipped....
>>end
>>
>>
> AARRRRRRGGGGGHHHHH..... !!!!
>  Someone is using Microsoft Explorer. Please fix this so it's not attached
>to every message you send. I'm not sure of the source. I know we went thru
>this some time ago. A knowledgeable individual please advise the source how
>to "FIX" this. I forgot or I'd rely to them directly myself.
>
>73,
>
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@firecraker.com
>E-Mail Work: rsellers@snds.com
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

105. RE: APRS in the UK (Maps)

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 4 Sep 96 8:30:37 EDT
To: <EPU@wmfs.telme.com>
Cc: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.841840237.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
I can provide WinAPRS/MacAPRS maps of anyplace in the world from the DCW
(Digital Chart of the World) CD-ROMS.. Check out:

http://msproul.rutgers.edu/APRS/Maps.htm

For an example of what they look like.

If there is a need for these, I can create them and put them up on the TAPR
ftp site.

Keith Sproul

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

106. Re: [APRSSIG:4378] APRS in the UK

From: bob <w2g3zfj@unix.asb.com>
Date: Wed, 4 Sep 1996 09:15:12 -0400
To: aprssig@tapr.org
Message-ID: <199609041315.JAA19431@unix.asb.com>
Rendered body type: text/plain

```
Hi Bob

I have made several maps of the UK and have distributed them to a couple of
guys in Cheshire and East Anglia. I believe that Cheshire Raynet is quite
active with APRS. Let me know if you find any more interest and if you want
a copy of the maps I have.

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com

At 05:42 04/09/96 -0500, you wrote:
>I've recently rejoined the SIG after a break of a couple
>of months due to changing our 'Net provider.
>
>I'm keen to make contact with an APRS users in the UK
>(and potentially in the rest of Europe) with a view to
>discussing availability of maps, etc -  could any
>European SIG readers please contact me at:
>
>epu@wmfs.telme.com
>
>
```

>regards,
>
>Bob Sayers
>Emergency Planning Unit
>West Midlands Fire Service
>Birmingham, UK
>
>
>
>West Midlands Fire Service Emergency Planning Unit
>Fire Service Headquarters, Lancaster Circus Queensway,
>Birmingham B4 7DE   'phone: 0121-380-7611
>------------------------------------
>   Via Tel-Me Internet E-Mail
>------------------------------------
>
>
>
>

107. Re: [APRSSIG:4360] Re: Too much time on my hands....

From: Mark Sproul <sproul@ap.org>
Date: Wed, 4 Sep 1996 08:56:32 -0400
To: aprssig@tapr.org
Message-ID: <v03007801ae532b8ef959@[165.1.27.20]>
Rendered body type: text/plain

>Well I am speaking or my self and Chgo but lets do it!!!!!! We could have
>sessions from novice to expert user and Active demenstrations Make it when
>it is cool but not cold. Also computer suppliers could be invited
>
>
>

I both agree and disagree. First, there are several local APRS groups
already in operation, having local or regional meetings etc. are highly
encouraged.

On the disagree side, I concur with Bob Bruninga, "isn't it called Dayton".
As it is there is Dayton, the DCC, the Annual ARRL convention, Keith tries
to attend ALL of these and in fact IS attending ALL 3 this year, most years
he does make it to Dayton AND DCC (not the ARRL convention). If a
"National APRS" meeting was held, we would of course feel obligated to
attend and there are only so many weeks in a year.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

108. Re: [APRSSIG:4373] APRS MAPS on Internet with javaAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 4 Sep 96 09:36:53 -0400
To: <aprssig@tapr.org>, <wbliss@coastside.net>
Message-ID: <199609041333.JAA21071@bridge.net>
Rendered body type: text/plain

>   Need some help, enlightenment on how you are linking active APRS area
>Maps to Internet connections, and using javaAPRS.
>
>   We have a Sailboat race "BAJA HA HA", from San Diego down coast to
>Cabo San Lucas, Oct 28th. Yachting magazine sponsoring race and wants to
>set up a WEB page, with active APRS maps. We will be in QSO and GPS tracking
>KN6KB/Rick S/V Second Wind, during race, possibly others and want to input
>APRS map with S/V posits, to the Race WEB page.

This is exactly the sort of thing javAPRS is great for.

>   Have no idea of how you fellas are linking the active APRS map into
>your Internet addresses to be observed real time.
>   Does it require a dedicated phone link to your Net provider, and active
>continually, or does one dial up your URL and your computer is linked to
>your MAP actively. JUST HOW DO YOU DO THIS. ???.

For now, the two locations that feature live data data have direct connection to the internet. Neither of these two methods is released to the public (One uses an OS/2 program to server the data live, the other uploads files with the latest data onto a web server). I am working on a system that will allow dial-up users to dump their reports to the network, but it is months away from release.

However, for what you want to do, there is an 'easy' way to do it, assuming there is someone on land who gets the position reports by whatever means. These can be entered manually into a file and placed on the web server for access.

The biggest problem with doing really cool stuff with Java is the security. The applet, and all the data, must come from a single internet address. You can't run the applet from your hard disk and get data from a web server somewhere else (at least if you are using a web browser like Navigator or Internet Explorer).

>   I have downloaded javaAPRS, but cannot figure out how to use it. I
>cannot copy your java net inputs/info, as am using old Netscape Ver1.5.2 and
>it says cannot read JAVA ..

In the latest versions of javAPRS, there is a file javAPRSprog.html which contains instructions on setting it up. There is no Java applet in this page, and it should be readable in any browser. You can view it online at:

http://www.bridge.net/~sdimse/javAPRSprog.html

>   Do I have to have Netscape V3.o, can new MS-Explorer with Win3.1 read
>JAVA files. ?????

I believe that the new IE can do Java, but I'm a Mac guy, so I don't know for sure. All platforms with Netscape Nav 3.0 support Java though.

>   What do I basically need to provide an APRS to a Web site for the
>Yachting world, for an active tracking down the Calif coast to Cabo San
>Lucas. ?????
>

1. You need a WWW server on the web. It does not need to know anything about Java, the server just sends the applet files as it would any other data. If you have someplace you can create a home page from your internet provider, that is good enough.

2. You need javaprs.zip from the TAPR server. Upload the javAPRS directory to the directory on your web server where the html file will be. You can strip out any of the data files you don't need (.hst, .nmea, and .tnc), and any maps in the /maps directory you don't want.

3. You need one or more APRS maps that cover the area you want to display. Put these in the maps directory that is within the javAPRS directory. Be sure to change the suffix to .mp, as .map has a special meaning to some Web servers.

4. Write your html file. See the instructions in javAPRSprog.html, and look at the example html files. Feel free to lift anything in them you want to, especially the command summary in soeast.html. Be sure you set the parameters to use your map and data files. Be sure you add a link to my page and email me with the address of your site, per the licensing requirements (see javAPRSprog.html).

5. Get your data onto the server. Use a filename ending with .tnc, for example race.tnc. The data is simply what would come out of a TNC. Look at the trip.tnc file in the javAPRS.zip package for examples. The data formats must be followed exactly. Put the datafile within the javAPRS folder. As posit reports come in, someone needs to add them to the file, and upload the changes to the server.

>   Any help, ideas , thoughts , hint/kinks how to, would be greatly
>appreciated. Have read the javaAPRS instructions, but throughly confused
>as to how to use it. ??.

Nothing good is ever easy! ;-)

>   Again thanks for any replies, or advice. Other than simple straight
>forward DOS operation, do not understand a lot about computers, programing,
>files, and still and old DOS only, operator. No Windos 95, struggle with
>using Win3.1..

I have posted this message to the sig because I thought others might like to see the answers. If you have further questions about javAPRS, please send them to me directly so as not to waste the sigs bandwidth.

Bill, look for me later this month, after I drive to Seattle for the Digital Communication Conference I'll be heading south on PCH to visit friends and family in SoCal. Maybe I'll stop by and give you a hands on lesson in javAPRS!

73 de Steve

109. Re: [APRSSIG:4363] Re: WIDE,WIDE,WIDE?

From: schiers@ames.net
Date: Wed, 04 Sep 96 08:34:40 -0500
To: aprssig@tapr.org
Message-ID: <199609041337.IAA11311@tapr.org>
Rendered body type: text/plain

In <789431@bbs.ames.net>, on 09/03/96 at 09:52 PM,
aprssig@tapr.org said:

> Most everyone is using an Unproto path with at LEAST
>>three WIDE's....I thought that was a NO-NO.

How many wides are used is determined by local net density and topography. Here in central Iowa the standard is 3 wides. If we didn't do this, our net would be about five stations, instead of nearly 30. We coordinate our activity with the guys in northern MO and all is working well. We have received zero complaints.

There is no hard and fast rule. It depends on the situation and the coordination/cooperation of those people in the coverage area.

Hamstringing the software to enforce some arbitrary standard that does not apply to unique environments is a TERRIBLE idea.

73,

hasan schiers, N0AN--
----
schiers@ames.net
----

110. Re: [APRSSIG:4371] Help with aprs "illegal function call"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Sep 1996 10:01:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960904100042.29253D-100000@arctic>
Rendered body type: text/plain

On Tue, 3 Sep 1996, David Higdon wrote:

> APRS the message "illegal function call at address 10f4:53bf" appears. What
> does this refer to and more importantly, how do I fix it? Thanks.

APRSdos REPLY/COMMENT: You probably have a non standard video card. It must be CGA, EGA, or VGA. Not hercules or whatever...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

111. Re: [APRSSIG:4375] Re: Too much time on my hands....

From: Dave Kaplan <dkaplan@pionet.net>
Date: Wed, 4 Sep 1996 09:14:58 -0500
To: aprssig@tapr.org
Message-ID: <9609041414.AA26688@ELWOOD.pionet.net>
Rendered body type: text/plain

At 12:36 AM 9/4/96 -0500, you wrote:
>Yes, Dayton, INDEED!

I'll operate airmobile into KC!

WB0WNX-7
Dave

112. Re: [APRSSIG:4378] APRS in the UK

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Sep 1996 10:16:54 -0400 (EDT)

To: aprssig@tapr.org
Cc: 100321.1327@compuserve.com
Message-ID: <Pine.GSO.3.95.960904101405.29253H-100000@arctic>
Rendered body type: text/plain

```
On Wed, 4 Sep 1996, Bob Sayers wrote:

> I'm keen to make contact with an APRS users in the UK
> (and potentially in the rest of Europe) with a view to
> discussing availability of maps, etc -  could any
> European SIG readers please contact me at:    epu@wmfs.telme.com
>
> Bob Sayers, Emergency Planning Unit, West Midlands Fire Service
> Birmingham, UK       B4 7DE     'phone: 0121-380-7611

APRSdos REPLY/COMMENT: I forwarded your message to Mike Tyrrell who is an
APRS users in the UK, but he doesnt subscribe to the SIG...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

113. Re: [APRSSIG:4375] Re: Too much time on my hands....

From: William Nolle <wa8inz@cris.com>
Date: Wed, 04 Sep 1996 09:18:50 -0700
To: aprssig@tapr.org
Message-ID: <322DABEA.7099@cris.com>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> Yes, Dayton, INDEED!  I'm suggesting an APRS-ONLY event (of course it would
> eventually become a MAJOR hamfest as more and more amateurs take up APRS!)...Am
> I just going overboard with this (Bob, comment???).  All I can say is that by
> year's end we should have I-29 and I-35 covered across Missouri, I-70 to the
> east and something out west in Kansas.  It would be a real site to have a couple
> hundred APRS mobiles careening wildly (usually the result of putting eyes on the
> computer more often than on the road then realizing it!) toward Kansas City...
>
> Still looking for more comments.  So far it's about 6:1 in strong favor....
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

Of course you would have it in Kansas, but i think it should be in an area of most
APRS activity, not because that's where you sre located ;-)

No flame just joking Hi.
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

114. Re: [APRSSIG:4341] Re: APRS

From: William Nolle <wa8inz@cris.com>
Date: Wed, 04 Sep 1996 09:29:31 -0700
To: aprssig@tapr.org
Message-ID: <322DAE6B.316@cris.com>
Rendered body type: text/plain

```
Bob Derderian wrote:
>
> Now THAT would be cool! I would like to see them crusing around the
> country.
>
> By the way, for those of you who haven't made it to Bill's webpage, he
> has done a really nice job! Congrats to you Bill.
>
> Bob, n2iph
> '94 Lightning build #3541
```

Thanks Bob and others for your compliments, I have changed my background
to plain old GRAY for two reasons, loads faster and makes reading text
easy, and since i'm trying to stir up interest in APRS i figured that of
course is the whole idea behind the page. I have been receiving many
offers from APRS users that are willing to be mentors in their area and
will be adding all of them in the next couple of days. Thanks to those
that are willing to help new potential long time APRS users.
Thanks to everyone on the sig.

```
--
   Check out my APRS Web Page.
    Totally Devoted to APRS

http://www.concentric.net/~wa8inz

             \////
             (o o)
       *--o00-(_)-00o--*
          Bill WA8INZ
        wa8inz@cris.com
        wa8inz@amsat.org
```

115. WeatherMAX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Sep 1996 10:41:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960904104024.9189B-100000@arctic>
Rendered body type: text/plain

Does anyone have a WeatherMAX by Maximum Inc? It appears to be similar to
the Ultimeter and Davis instruments...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

116. Re: [APRSSIG:4359] Which GPS for me?

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Wed, 4 Sep 1996 08:02:46 -0500
To: <aprssig@tapr.org>
Message-ID: <9609041445.AB02625@dfw.dfw.net>
Rendered body type: text/plain

John and the Group;
To relieve yourself of the weight of a KPC-3, you may want to read the info
Bob has included with APRS about Mic-Encoders (found in
C:\aprs\readme\vox-aprs.txt). If the family want's to reach you via voice
AND wants to know just where you are, this idea would save you the extra
load of a TNC and another radio.

Bob goes into some pretty fancy ideas, which sound neat. You could do it
with much less complexity. But for just a station or two on a simplex
frequency, you'd only need the full TNC at the house along with the
"standard" radio/computer equipment.

While on the bicycle a Mic-Encoder built into a speaker microphone, a
radio, and a GPS receiver would do just dandy for portable use. This is
for installations where you won't/can't have a laptop to watch yourself,
ie., on the bike!

Although, thinking about it... If you drive your car to a bike trail, then
ride the bike, you could do the Mic-Encoder on the Bike, and a standard
APRS setup in the car AND make it a RELAY to the house!

Good luck on the type of GPS receiver. Cheers, Bill Neal
http://www.dfw.net/~wmn3/

```
----------
> From: JohnN2YHK@aol.com
> Date: 3 September 1996 21:03
>
> Hello All,
---SNIP!
> I would like to purchase a GPS unit to take with me in the car and on the
50+
> miles of bikepath around Burlington, VT.  It would be primarily to track
> myself from the computer at home.  I have never looked into purchasing a
unit
> before.  Which one is for me?
```

```
---SNIP!
> Thanks in Advance!
>
> 73 de John, N2YHK/1
```

117. 9K6 baud inter-city

```
From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 04 Sep 1996 11:04:05 -0500
To: aprssig@tapr.org
Message-ID: <3.0b15.32.19960904110404.006c4194@144.188.134.33>
Rendered body type: text/plain
```

```
Who is working on or thinking about the possibility of a 9600 baud aprs
link between cities. I would like to get involved, but think that the
technical discussions should be held off line for a while. Please email me
direct. Thanks.

Paul_Moller@csg.mot.com

Paul Moller
Motorola CSG
847-523-5210
Motorola pager #7378
```

118. APRS convention

```
From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 04 Sep 1996 12:11:51 -0400
To: aprssig@tapr.org
Message-ID: <322DAA47.743A@global2000.net>
Rendered body type: text/plain
```

```
Hi all

I tend to agree with Bob and Mark. A Higher Profile at Dayton will have far greater effect. A specialized national meeting is
most likely attended by those already interested. A forum at Dayton on the other hand is likely to be attended by many that
are just curious. Some of these people will get involved and broaden the base of APRS operators. To satisfy the power or
advanced users a meeting like was held a couple of years ago at Dayton in the communitee room of that apartment complex is
the way to go. With all the time constrants of many of us I believe that the results would be better if we maximize the
current situations first.

Also another way is to make APRS better known is buy attacking the regional hamfests in the exact same manner. Also If you
feel confident ask your local club if you can make a meeting presentation. Most clubs would fall over dead if someone asked
them. They're begging for people to do meetings.


Just some of my thoughts. Forgive the long windedness(sp!).

TNX & 73

John << N2OJY >>
```

119. Re: [APRSSIG:4382] Re: Too much time on my hands....

```
From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 4 Sep 1996 11:13:48 -0500
To: <aprssig@tapr.org>
Message-ID: <199609041615.LAA20228@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain
```

```
> >Well I am speaking or my self and Chgo but lets do it!!!!!! We could

have
> >sessions from novice to expert user and Active demenstrations Make it
when
> >it is cool but not cold. Also computer suppliers could be invited
> >
> I both agree and disagree.  First, there are several local APRS groups
> already in operation, having local or regional meetings etc. are highly
> encouraged.
>
> On the disagree side, I concur with Bob Bruninga, "isn't it called
Dayton".
```

> As it is there is Dayton, the DCC, the Annual ARRL convention, Keith
tries
> to attend ALL of these and in fact IS attending ALL 3 this year, most
years
> he does make it to Dayton AND DCC (not the ARRL convention). If a
> "National APRS" meeting was held, we would of course feel obligated to
> attend and there are only so many weeks in a year.
> Mark Sproul |Amateur Radio: KB2ICI
>
Good Point! However, APRS is rapidly becoming the #1 choice for new hams
in packet. Think about it. Young hams, new hams, are raised looking at
computers, graphics, and such. If you think your going to get those (kids)
interested in ham packet without the (bells and whistles) graphics (dos or
winders) your only fooling yourself. For us that have been in the
transition phase of all this, we get excited over a new symbol or function
that is added.
Computerists (a term I like to use to include all people especially the
younger ones that use computers daily) are much more "glassy eyed" when it
comes to packet (APRS) then us hams, and understandably so! They want
"gotta have it" stuff that no one else has (yet) and they want it now! We
on the other hand have learned (I hope) that these things take time to
develop and need to!

OOPS got off the subject didn't I? (Too much time on MY hands!) I'd like
to see a "mid-america" APRS gathering started and repeated each year. For
the simple reason that the more we get the word out the more users and
ideas we are bound to harvest!

(Sorry 'bout the spelling, I'z waz edumekated in Arkysaw!)

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

120. Re: [APRSSIG:4360] Re: Too much time on my hands....

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Wed, 04 Sep 1996 16:55:17 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960904205517.0070bfe0@mail.cyberstreet.com>
Rendered body type: text/plain

Build it - and they will come. At least I will!   ron/kd4ams/SW FL..

At 09:23 PM 9/3/96 -0500, you wrote:
>Well I am speaking or my self and Chgo but lets do it!!!!!! We could have
>sessions from novice to expert user and Active demenstrations Make it when
>it is cool but not cold. Also computer suppliers could be invited
>
>
>
>Mark N9VDQ
>
>At 11:54 PM 9/2/96 -0500, you wrote:
>>Had a MOST enjoyable lunch with KB9LBU and WA9FFL in Rochelle, Illinois,
>Monday
>>afternoon as I departed Chicago for Kansas City...It occured to me that
>meeting
>>face-to-face is good for all of us....
>>
>>Then, a bolt from the blue (actually a smack from Karla!) gave me an idea....
>>
>>Wouldn't a NATIONAL APRS GATHERING be a NEAT event???? I'll even go so
far as
>>to say that the Kansas City APRS Working Group would be willing to host
>such an
>>event. There is certainly an ample supply of hotel/motel space with meeting
>>rooms here, not to mention a fairly mature APRS network operating.
>>
>>We could set up over a three-day weekend, I'd suggest, and bring in Bob and
>the
>>Sproul Brothers, surely we could get the usual support from the various

```
>>APRS-affiliated suppliers like PacComm, Kantronics, Garmin (I can pretty well
>>guarantee and BIG Garmin presence if we did it here) and others...
>>
>>Anybody have any comments?
>>
>>So what do you think?  Kansas City, BBQ, APRS all at once? Only way it
>could get
>>any better is if the beer was free!!!
>>
>>Comments welcome!!!
>>
>>Best 73,
>>Jim Duncan, KU0G
>>APRS--Kansas City Coordinator
>>EMail:  ku0g@sprynet.com
>>
>>
>
>
73 cu Ron"KD4AMS"
```

---

121. Re: [APRSSIG:4345] Re: ACARS

From: "Theodore J. Katz" <theojkat@voicenet.com>
Date: Wed, 04 Sep 1996 17:03:14 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960904210314.0066d770@voicenet.com>
Rendered body type: text/plain

```
At 05:34 PM 9/3/96 -0500, you wrote:
>On Tue, 3 Sep 1996, Theodore J. Katz wrote:
>
>> I am a registered (aprs) Where is Aprsair.exe ???
>> Ted Katz N3OWM,Phila,Pa
>
>APRSdos REPLY/COMMENT:  Its where everything else is for APRSdos on the
>tapr.org ftp site in the tapr/SIG/aprssig/files/upload or dosaprs
>directories...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>Tnks 4 ur time and advice.
Ted Katz N3OWM,Phila,Pa
tedk@formail.formation.com
theojkat@voicenet.com
n3owm@ke3cz.epa.pa.usa
40.01.05 N
75.03.75 W
```

---

122. APRS and Emergency Comms

From: Hank Holt <ks4ny@pen.net>
Date: Wed, 04 Sep 1996 19:30:45 -0600
To: aprssig@tapr.org
Message-ID: <199609050049.TAA14153@tapr.org>
Rendered body type: text/plain

```
Date: Wed, 04 Sep 1996 19:25:20 -0600
To: aprssig@tapr.org
From: Hank Holt <ks4ny@pen.net>
Subject: APRS and Emergency Comms

We have recently been working with a local hospital to help them install a
working Amateur station complete with APRS and to train their own people to
become licensed hams.  During a newspaper interview, a reporter asked us if
any other hospitals had installed APRS to enhance their emergency
communication.  Does anyone have any information for me on this?

Please respond to me at my E-mail address since I am not subscribed here.

Thanks

Hank
```

---

123. Re: [APRSSIG:4386] Re: Too much time on my hands....

From: George Salinas <saltair@hargray.com>
Date: Wed, 04 Sep 1996 20:53:45 -0400
To: aprssig@tapr.org
Message-ID: <322E2499.14BC@hargray.com>

Rendered body type: text/plain

```
Dave Kaplan wrote:
>
> At 12:36 AM 9/4/96 -0500, you wrote:
> >Yes, Dayton, INDEED!
>
> I'll operate airmobile into KC!
>
> WB0WNX-7
> Dave

I would think that the ARRL convention would be the most appropriate.
I'll drive to that one.

KD4FJ.George
```

---

124. (no subject)

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Wed, 04 Sep 1996 20:56:36 EDT
To: aprssig@tapr.org
Message-ID: <19960906.065242.4647.1.WD4CQE@juno.com>
Rendered body type: text/plain

```
subscribe

Ken Mathews,WD4CQE
```

---

125. Re: [APRSSIG:4349] Re: WX Legal

From: William Nolle <wa8inz@cris.com>
Date: Wed, 04 Sep 1996 20:17:38 -0700
To: aprssig@tapr.org
Message-ID: <322E4652.55D1@cris.com>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> The Identification issue is already covered in the position report as your
> station callsign appears as the FIRST thing in EVERY packet followed by the
> digipath.  Easy, huh?
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

So Sorry Jim, but it's NOT EASY HUH!. Because the person is not at that site.
And i have checked there's nothing other then the <C-5>. But whi cares anyway.
I was asking abt the legality because i think he wrote the software himself to
do this. Easy huh, Jim.
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

---

126. Re: [APRSSIG:4367] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Wed, 04 Sep 1996 20:13:21 -0700
To: aprssig@tapr.org
Message-ID: <322E4551.5E2F@cris.com>
Rendered body type: text/plain

```
Roy Bost wrote:
>
> But that wouldn't be fair to  those of us that live in thinly populated
> APRS areas!
> Down here it's not unusual to be 20-30 miles apart.  Tonight I'm seeing
> 20-25 stations from Dallas to north of Houston.  Three wides might get me
> some more viewing area!  Presently myy path statement is "relay, wide,
> wide, gate".  Don't know if that is proper or not but the only Gates are in
```

> South Texas.
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W

20 to 30 miles apart, that's realy close (And to close to be using 3 wide's, come on now. Play the games by the rules or don't play at all. Not trying to flame you but 3 wides is asking for problems. Get a better antenna that's what it sounds like you need. I get stations 160 miles away, Just before getting on here i was keyboarding with a user in Atlanta and the digi i was using was 102 miles away and i was not using 3 wides.

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

---

127. Re: National APRS Conference

From: henryvb <henryvb@dpliv.com>
Date: Wed, 04 Sep 1996 21:41:29 -0500
To: aprssig@tapr.org
Message-ID: <322E3DD9.BBD@dpliv.com>
Rendered body type: text/plain

In APRSSIG digest 681, Mark Sproul wrote re the National APRS Conference:

> I both agree and disagree. First, there are several local APRS groups
> already in operation, having local or regional meetings etc. are highly
> encouraged.

True, and being Secretary of one of the largest APRS users groups around (NIAN, 70+ members), I couldn't agree more that local meetings are important, but National meetings get users together to work on the "Big picture" and to learn new ways to do things that you may never discover locally. Right now we are working on several things here in Chicago where National face-to-face input would be great.

> On the disagree side, I concur with Bob Bruninga, "isn't it called Dayton".
> As it is there is Dayton, the DCC, the Annual ARRL convention, Keith tries
> to attend ALL of these and in fact IS attending ALL 3 this year, most years
> he does make it to Dayton AND DCC (not the ARRL convention). If a
> "National APRS" meeting was held, we would of course feel obligated to
> attend and there are only so many weeks in a year.

Ok, let's go over those events you mentioned.

Dayton, we have one or two seminars that brush over the basics of APRS in the hope of selling its' use to the attendee, nothing in-depth, no problem solving or future planning. The Saturday evening eyeball is one way to get into the "big picture" stuff, but it's way too short, and people are tired from festing all day and have a lot of things to do in a very small time.

DCC, I haven't been there, but while it may be a digital (ie. packet) conference, it's not devoted to APRS, not attended by a lot of day-to-day APRS users, and does not get into the in-depth things that a lot of people are interested in. APRS is just one of many items on the table for that weekend.

ARRL National Convention, the same things as Dayton and DCC apply.

Furthermore, I would think that the authors would see a lot more APRS users who could help shape the future of APRS at one weekend devoted to APRS than they would at Dayton, DCC, & ARRL combined.

I hope the Convention comes to pass, and have conveyed my feelings on this to Jim Duncan as well as offering my assistance to make it happen. I hope to see all of you there, whenever it is.

Maybe we can get someone to donate Coke since I doubt anyone will donate the beer.

Henry
N9WMM
henryvb@dpliv.com

---

128. WIDE,WIDE,WIDE, GATE, and ERROR MESSAGES

From: henryvb <henryvb@dpliv.com>
Date: Wed, 04 Sep 1996 21:15:20 -0500
To: aprssig@tapr.org
Message-ID: <322E37B8.3566@dpliv.com>
Rendered body type: text/plain

In APRSSIG digest 681 it twas written regarding WIDE,WIDE,WIDE:

> Bob, Mark, and Keith,
> It's too bad the APRS software can't check the unproto path for this condition and put up an error message(smirk..smirk.. hint.. hint).

This is not an error. It may not be the best operating procedure, but it's not an error. The last thing we need is another stupid message like the one for a vhf station running GATE.

First, regarding the WIDE,WIDE,WIDE. There are times when a station could be in the middle of a string of WIDE's and using that path to propagate two or more directions MAY be correct, just like there are times when using RELAY or WIDE is really acceptable for the 1st digi in the path for a Base station, or RELAY is acceptable for the last station in a digi path, or etc., etc., etc.

I spent several hours a few weeks ago in a mobile where the only way to get the traffic to me was by using a RELAY on the end of the incoming path, because I could only hear one of two base stations at a time, but they both could hear the WIDE, and could not hear each other. If the last digi had been a particular station, then I would have been cut off from the world at certain times. We can't make concrete rules because they always need to be broken.

Second, regarding the message that VHF users should not use GATE in their path. There are times that a VHF user SHOULD use GATE, like when I am 500 miles from home and use WIDE,GATE,GATE,Call in my path 5% of the time to get a position report or a message back home. I'm certainly not choking the net anymore than the inane stuff that I am treated to every day by HF stations that do not know (or do not care to learn) how to set their path properly (reference the routine message traffic between two HF stations using a path of GATE, WIDE, WIDE!)

The point is: We don't need another message in the program telling us what is right or wrong. VHF users have been using GATE in their paths for months and ignoring the message, like the VHF bozo in the Chicago area using RELAY, WIDE, GATE, WIDE, WIDE (an impossible path by the way.) This guy refuses to change his path, so we just budlist him.

Users should learn how to set their path correctly, and more important, how paths REALLY operate. This is the responsibility of the local user group to educate new users in proper paths, since the documentation is sorely lacking on this topic (one of the things that should be a seminar topic at the National APRS Convention!)

In addition, the DosAPRS message about VHF users on the GATE should be removed because 1: it is ignored, 2: it is not accurate, 3: it and the program logic to compute and display it wastes precious memory space.

Don't bother sending me mail or posting to the SIG on this topic unless you have an excellent understanding of digipath operations. I have been working on them for almost two years and understand more than most users do on the subject.

Henry
N9WMM
henryvb@dpliv.com

---

129. Re: [APRSSIG:4248] WX display formats

From: moyers@vic.com
Date: Wed, 4 Sep 1996 22:45:47 EDT
Message-ID: <199609050247.WAA16945@gatekeeper.vic.com>

Rendered body type: text/plain

** Reply to note from aprssig@tapr.org Fri, 30 Aug 1996 17:10:49 -0500 (CDT)
>
> I announced that APRS77 had three new display formats in place of callsigns:
>
> TIME/rain/baro TIME/winds/baro TEMP/rain/baro
>
> These had been done in accordance with a request form the Natl Hurrican Center. They had
> wanted TIME/Wind/gust/rain/baro which I modified because it was just too long and would
> cover the map!
>
> They now agree that the shorter format is better, but prefer that RAIN show with the WIND
> instead of baro. So in version 77a, I have turned it all around again to these optional
> display formats:
>
> TIME/WIND/RAIN TIME/BARO/RAIN TEMP/RAIN
>
> This serves the "severe" weather guys better, by giving them wind and rain together, and
> shortens the TEMP/RAIN isplay to what most casual viewers will want. The wind is always
> displayed graphically anyway...
>
> If anyone disagreees strongly, lemme know... This is a local APRSdos display option and does
> not affect APRS on-air formats...
>
> Reply mail addr: wb4apr@amsat.org See APRS LIVE:
> http://web.usna.navy.mil/~bruninga/aprs.html
>
>

Bob, I have seen that you have gotten all sorts of input on this already. The new version seems fine for some applications. From what I have needed for info for RACES work it would be nice if one of these schemes could give TEMP/RAIN/RAIN TOTAL/BARO. With this coupled with TIME/WIND/WINDGUST/RAIN it is easier to get a good over view of the situation. This helps in looking at flash flood potential, seeing temp inversions (BIG PLUS in mountainous areas durring LARGE snows), looking at wx that could affect HAZMAT incidents. Please keep in mind that the WX guys aren't the only ones that could be looking at this data. The FEWER screens you have to TOGGLE thru to see the data THE BETTER.

Secondly, is there a fix to the fading WX ICON on the screen of wx stations, and is this linked with the Wind direction indicator only showing up when there is a wind speed? My position list does have the time of the last beacon, however the home station is not showing up in the home station heard list.

73 de John N4QEA

John Moyers   N4QEA
PACKET - N4QEA @ N4QEA.#METN.TN.USA.NA
INET - moyers@vic.com
Cruise Missle - 36 02.86N 083 55.40W A=0001100

---

130. Re: [APRSSIG:4401] Re: WIDE,WIDE,WIDE?

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 4 Sep 96 23:36:27 -0400
To: <aprssig@tapr.org>
Message-ID: <199609050333.XAA06167@bridge.net>
Rendered body type: text/plain

>20 to 30 miles apart, that's realy close (And to close to be using 3 wide's,
>come on now. Play the games by the rules or don't play at all. Not trying to
>flame you but 3 wides is asking for problems. Get a better antenna that's
>what it sounds like you need. I get stations 160 miles away, Just before
>getting on here i was keyboarding with a user in Atlanta and the digi i was
>using was 102 miles away and i was not using 3 wides.

Yes, but here in the flatlands, where the digis are 100-200 feet high, 30 miles is just about right. Not everyone can put digis on mountains, and space on the few really big towers costs really big bucks! The name of the game here is communication, and you have to do what works. Sure, I'd love to live in a place where the digis were 2000 feet up and 100 miles apart. But if we put one digi every hundred miles in South Florida we'd never see each other. Also, you seem to forget that APRS is about tracking things, not keyboarding. Sure, high power and a big beam antenna will work further than a mobile, but it's not what I want in APRS. You really ought to be more tolerant of other people's needs.

Steve KO4HD

131. Re: [APRSSIG:4339] APRS Airshow

From: ku0g@sprynet.com
Date: Wed, 4 Sep 1996 20:35:33 -0700
To: aprssig@tapr.org
Message-ID: <199609050335.UAA08724@m1.sprynet.com>
Rendered body type: text/plain

```
Just be sure you DON'T use a Garmin land or marine unit as they all shut down at
99 knots!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

132. Re: [APRSSIG:4384] Re: WIDE,WIDE,WIDE?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 4 Sep 1996 23:45:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960904234238.18016A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Wed, 4 Sep 1996 schiers@ames.net wrote:
>
> > Most everyone is using an Unproto path with at LEAST
> >>three WIDE's....I thought that was a NO-NO.
>
> How many wides are used is determined by local net density and
> topography. Here in central Iowa the standard is 3 wides. If we didn't do
> this, our net would be about five stations, instead of nearly 30. We
> coordinate our activity with the guys in northern MO and all is working
> well. We have received zero complaints.
(snip)
> Hamstringing the software to enforce some arbitrary standard that does not
> apply to unique environments is a TERRIBLE idea.

I don't understand your comment .... these stations are all HF stns that are
GATEing into my local area (with GATE,WIDE,WIDE,WIDE for the most part)
.... they are NOT local VHF stations

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

133. Re: [APRSSIG:4382] Re: Too much time on my hands....

From: ku0g@sprynet.com
Date: Wed, 4 Sep 1996 20:49:58 -0700
To: aprssig@tapr.org
Message-ID: <199609050349.UAA10933@m1.sprynet.com>
Rendered body type: text/plain

```
Yes, there ARE only so many weeks in the years.  Problem I have here is that the
Dayton weekend invariably ends up being the same time as a major performance
that I'm obligated to be involved in every spring.  Maybe in 1997...

Still, maybe an APRS-Exclusive/APRS-related event may be a viable thing!  So
many users, so few track pages....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

134. Re: [APRSSIG:4388] Re: Too much time on my hands....

From: ku0g@sprynet.com
Date: Wed, 4 Sep 1996 20:51:48 -0700
To: aprssig@tapr.org
Message-ID: <199609050351.UAA11235@m1.sprynet.com>
Rendered body type: text/plain

```
Central to the entire U.S. would certainly be a factor and Kansas City doesn't
necessarily have to the be the site!

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

135. Re: [APRSSIG:4392] 9K6 baud inter-city

From: ku0g@sprynet.com
Date: Wed, 4 Sep 1996 20:53:12 -0700
To: aprssig@tapr.org
Message-ID: <199609050353.UAA11541@m1.sprynet.com>
Rendered body type: text/plain

```
We're starting to take a look at 9K6 Inter-City here in Kansas City now...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

136. Re: [APRSSIG:4371] Help with aprs "illegal function call"

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 5 Sep 1996 00:02:30 -0600
To: aprssig@tapr.org
Message-ID: <1370240746-3906396@email.firecraker.com>
Rendered body type: text/plain

```
>Does anyone have a suggestion to help fix this problem?  When attempting to
>start APRS the message "illegal function call at address 10f4:53bf"
appears.  >What does this refer to and more importantly, how do I fix it?
Thanks.

What version of APRS are you using? DOS or WinAPRS? What operating system?
Amny other apps running at the same time?
  That looks like a message Windows 95 would give out during a crash.

I woulld assume Keith, Mark, and Bob would need more of the above info to be
able to find something. You may want to address the details to them directly.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com

             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

137. Re: [APRSSIG:4388] Re: Too much time on my hands....

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 5 Sep 1996 00:09:50 -0600
To: aprssig@tapr.org
Message-ID: <1370240306-3932818@email.firecraker.com>
Rendered body type: text/plain

```
>Of course you would have it in Kansas, but i think it should be in an area
of >most APRS activity, not because that's where you sre located ;-)
>
>No flame just joking Hi.
>             \////
>             (o o)
>       *--o00-(_)-00o--*
>          Bill WA8INZ
>        wa8inz@cris.com
>        wa8inz@amsat.org
>
>
  The I vote for Chicago Suburb Area  <grin>  We have about 60-70 stations
in close proximity just in northern illinois and southern Wisconsin. Jim,
you saw that while you were here.

  side note: I changed IP's again. note new e-mail address "just in case"...

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

138. Re: [APRSSIG:4403] WIDE,WIDE,WIDE, GATE, and ERROR MESSAGES

From: William Nolle <wa8inz@cris.com>
Date: Thu, 05 Sep 1996 00:22:11 -0700

To: aprssig@tapr.org
Message-ID: <322E7FA3.137C@cris.com>
Rendered body type: text/plain

henryvb wrote:
>
> In APRSSIG digest 681 it twas written regarding WIDE,WIDE,WIDE:
>
> >   Bob, Mark, and Keith,
> >   It's too bad the APRS software can't check the unproto path for this
> > condition and put up an error message(smirk..smirk.. hint.. hint).
>
> First, regarding the WIDE,WIDE,WIDE. There are times when a station
> could be in the middle of a string of WIDE's and using that path to
> propagate two or more directions MAY be correct, just like there are
> times when using RELAY or WIDE is really acceptable for the 1st digi in
> the path for a Base station, or RELAY is acceptable for the last station
> in a digi path, or etc., etc., etc.

Well my answer to this is that here in the South Eastern states i can
honestly state that i rarely if ever see anyone using 3 wides. If it works
here why won't it work elsewhere. I aggree that 3 wides shouldn't even be
in the software.
>
> Second, regarding the message that VHF users should not use GATE in
> their path.

I fully aggree with removing that nag window, all a person needs to do
anyway is to use the HF even tough he's TX'ing on VHF and the window will
be gone.

>
> Users should learn how to set their path correctly, and more important,
> how paths REALLY operate. This is the responsibility of the local user
> group to educate new users in proper paths, since the documentation is
> sorely lacking on this topic (one of the things that should be a seminar
> topic at the National APRS Convention!)

And how many users realy attend these seminars.
>
> In addition, the DosAPRS message about VHF users on the GATE should be
> removed because 1: it is ignored, 2: it is not accurate, 3: it and the
> program logic to compute and display it wastes precious memory space.
>

I fully aggree with this, why waste the memory and space required for this.

> Don't bother sending me mail or posting to the SIG on this topic unless
> you have an excellent understanding of digipath operations. I have been
> working on them for almost two years and understand more than most users
> do on the subject.

Well Henry, your almost saying that nobody else knows how to run APRS
besides yourself. I have been using it longer then that and i'm still
learning i admit, but have NEVER used 3 wides (Never needed to). So calm
down don't get all upset (Remember the majority rules Hi).

>
> Henry
> N9WMM
> henryvb@dpliv.com

--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

```
                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

139. Re: [APRSSIG:4402] Re: National APRS Conference

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 5 Sep 96 01:32:12 -0400

To: <aprssig@tapr.org>
Message-ID: <199609050529.BAA13531@bridge.net>
Rendered body type: text/plain

>DCC, I haven't been there, but while it may be a digital (ie. packet)
>conference, it's not devoted to APRS, not attended by a lot of
>day-to-day APRS users, and does not get into the in-depth things that a
>lot of people are interested in. APRS is just one of many items on the
>table for that weekend.
>

Last year, and again this year there is a whole afternoon worksop on APRS
given by Keith. I thoughly enjoyed the one last year, and am looking
forward to it this year. This was where many APRSers first saw MacAPRS,
and the decision to port MacAPRS to windows occured because of what
happened at this meeting. The talk by Phil Karn got me fired up to
contribute somehow to ham radio, the end result of that is javAPRS. This
year three of the papers being presented are about APRS. Don't
underestimate the importance of this conference, especially to the
"people that shape the future of APRS" (if only Bob would come....).

The question I have is what do you hope to accomplish? For getting real
work done: answering questions, formulating future plans, and developing
standards it is hard to beat a long, deliberate process via email. Face
to face meetings are good for brainstorming and furthering interpersonal
relationships. The three meetings mentioned are all good places to meet
others that share our interests, shake hands with email buddies, and
drink beer. There will never be a place where _everyone_ who likes APRS
can get together, and if there were, it would probably produce more
fist-fights than progress! ;-)

So, for those of you who think a national APRS convention is important,
exactly what agenda would you propose? Tell me what you think needs to be
done, and how you propose to accomplish it in a couple of days. Propose a
schedule of events...if it's worthwhile, I'll come, and so will a lot of
others.

Steve KO4HD

---

140. Re: [APRSSIG:4405] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Thu, 05 Sep 1996 00:36:25 -0700
To: aprssig@tapr.org
Message-ID: <322E82F9.604D@cris.com>
Rendered body type: text/plain

Steve Dimse wrote:
>
>
> Yes, but here in the flatlands, where the digis are 100-200 feet high, 30
> miles is just about right. Not everyone can put digis on mountains, and
> space on the few really big towers costs really big bucks! The name of
> the game here is communication, and you have to do what works. Sure, I'd
> love to live in a place where the digis were 2000 feet up and 100 miles
> apart. But if we put one digi every hundred miles in South Florida we'd
> never see each other. Also, you seem to forget that APRS is about
> tracking things, not keyboarding. Sure, high power and a big beam antenna
> will work further than a mobile, but it's not what I want in APRS. You
> really ought to be more tolerant of other people's needs.
>
> Steve KO4HD

I should be more tolerant, you realy mean not to voice my opinion right. If all
i could do is sit here in front of my computer and watch vehicles moving around
and couldn't keyboard as you are suggesting i would wipe APRS off of my system
instantly. To each his own, but Steve you should be more tolerant about a person
doing some keyboarding since that's one of the features many of the users in
this area prefer to do. Sorry if my message upset you but it wasn't meant to.
But i will continue to voice my opinion as the posting warrants. Not everyone
will aggree. But hopefully this is a Free Speach Sig.

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--oOO-(_)-OOo--*
           Bill WA8INZ
         wa8inz@cris.com
         wa8inz@amsat.org
```

---

141. Hurricane Fran Landfall Plots

From: KG5QD@aol.com
Date: Thu, 5 Sep 1996 05:47:51 -0400
To: aprssig@tapr.org
Message-ID: <960905054747_277816204@emout08.mail.aol.com>
Rendered body type: text/plain

```
Today 9/05 I will be putting Plots for Fran on 30 M via WX,W7LUS,GATE,WIDE
generated at the Collier County Florida EOC directly from the Weather wire.
Objects are sent from wb2wpa-4 via WX,WIDE,WIDE,MARCO on 2 meters and I use
the "MARCO" as a key to strip the callsign and path and put my call and path
on the packets and send on HF.    The FRAN _REF object is the refernce
time/posit to which all the forecasts are relative.  The objects keep the
same names from update to update so a screen refresh will clear the old and
plot the new.  Intermediate Advisories change the main hurricane plot
 only(ie the one with a vector) and dont always show wind fields
73 de kg5qd Dale Marco Island Fl
```

---

142. Re: [APRSSIG:4401] Re: WIDE,WIDE,WIDE?

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 05 Sep 1996 07:14:38 -0400
To: aprssig@tapr.org
Message-ID: <322EB61E.627B@co.pinellas.fl.us>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Roy Bost wrote:
> >
> > But that wouldn't be fair to  those of us that live in thinly populated
> > APRS areas!

> 20 to 30 miles apart, that's realy close (And to close to be using 3 wide's,
> come on now. Play the games by the rules or don't play at all. Not trying to
> flame you but 3 wides is asking for problems.

Oh come on, Bill, wake up.  Texas is like Florida, flat as a
pancake...our wides are 30 to 40 miles apart also and they still can't
hear half the time....you guys in the hills have a real advantage with
VHF radio signals....I saw stations at that distance when I was mobile
up in GA/TN...but not here...no way.
**********************************************************************
From:  Kevin Heyboer            E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call:  KD4UYR     Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
**********************************************************************
```

---

143. Re: [APRSSIG:4403] WIDE,WIDE,WIDE, GATE, and ERROR MESSAGES

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 05 Sep 1996 07:23:07 -0400
To: aprssig@tapr.org
Message-ID: <322EB81B.7CF3@co.pinellas.fl.us>
Rendered body type: text/plain

```
> This is not an error.  It may not be the best operating procedure, but
> it's not an error.  The last thing we need is another stupid message
> like the one for a vhf station running GATE.
>
> First, regarding the WIDE,WIDE,WIDE.  There are times when a station
> could be in the middle of a string of WIDE's and using that path to
> propagate two or more directions MAY be correct, just like there are
> times when using RELAY or WIDE is really acceptable for the 1st digi in
> the path for a Base station, or RELAY is acceptable for the last station
> in a digi path, or etc., etc., etc.

Stuff deleted....
>
> Henry
> N9WMM
> henryvb@dpliv.com

Gotta agree with you Henry...100%...for example...my station is at
center of a three pronged system....wide to the north, four wides to the
```

east (to FL east coast), and two wides to the south....It is impossible
to list digis by callsign and send posits to all of the above, however,
an unproto path of KF4FOH-10, wide,wide sends the posits in all three
directions with the first call being my local wide. There is no other
way to do it and as a weather station sending info to all those other
users as part of the SKYWARN network....it is a necessity.--
****
From: Kevin Heyboer E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
****

144. Re: [APRSSIG:4405] Re: WIDE,WIDE,WIDE?

From: rwf <rwf@mindspring.com>
Date: Thu, 05 Sep 1996 09:41:01 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960905134101.006e32bc@mindspring.com>
Rendered body type: text/plain

At 10:45 PM 9/4/96 -0500, Steve Dimse wrote:

>Yes, but here in the flatlands, where the digis are 100-200 feet high, 30
>miles is just about right.

I pretty much agree, and having been down there in Steve's/Rich's/Kevin's country - I can attest to this. Florida is doing a lot better with coverage in just the last 6 months. New digis in Ocala and possibly Daytona will help extend the edges even more.

Now if we could just get the folks in Macon GA and South to put up digis (and in Macon's case: a real digi) we can begin to see I-75 coverage for 3-4 states down here. It would also be great to see the Savannah folks in the "rest" of the net.

Here where we can have digis at 2000-5000 ft MSL, we are truly lucky- but here in the South, we're the exception- not the rule! We just happen to be situated at the lowest end of the Appalachians and Blue Ridge Mountains.

Ralph Fowler
rwf@mindspring.com

145. Re: [APRSSIG:4406] Re: APRS Airshow

From: rwf <rwf@mindspring.com>
Date: Thu, 05 Sep 1996 09:41:13 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960905134113.006f66d4@mindspring.com>
Rendered body type: text/plain

Somebody wrote:
>Just be sure you DON'T use a Garmin land or marine unit as they all shut
down at
>99 knots!

Nice try (in Bob's words) but not quite true. The land units do fine (even
at 450 Kts and 30,000 ft).
It is the cheap, MARINE Garmins that shut down!

Ralph Fowler
rwf@mindspring.com

146. Re: [APRSSIG:4418] Re: WIDE,WIDE,WIDE,

From: rwf <rwf@mindspring.com>
Date: Thu, 05 Sep 1996 09:41:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960905134116.007089ec@mindspring.com>
Rendered body type: text/plain

Let's hope that WIDE-N (or whatever it ends up being called) gets implemented in TNC-2 Code and Kantronics Code so that the intelligent digis can help stifle the dupes. When this happens, you can run WIDES until you get tired of typing and the DIGIS will resolve the foldbacks.

I know PacComm is working on it, but is any other Manufacturer listening???
Not all digis are TNC-2/Clones.

Ralph Fowler
rwf@mindspring.com

147. Re: [APRSSIG:4403] WIDE,WIDE,WIDE, GATE, and ERROR MESSAGES

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 05 Sep 1996 08:51:56 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960905135156.006cd08c@tbcnet.com>
Rendered body type: text/plain

```
I have a couple of questions regarding digipaths in the Chicago area.  BTW,
the No IL area was, up until a couple of years ago, defined by a Channel 2
newsperson as "Chicago" or the "boonies."  He said it, I didn't.

At 22:04 9/4/96 -0500, you wrote:
>First, regarding the WIDE,WIDE,WIDE.  There are times when a station
>could be in the middle of a string of WIDE's and using that path to
>propagate two or more directions MAY be correct, just like there are
>times when using RELAY or WIDE is really acceptable for the 1st digi in
>the path for a Base station, or RELAY is acceptable for the last station
>in a digi path, or etc., etc., etc.
>

If my station beacons at 5 watts, with an unproto of WIDE, I'll easily hit
CJN Wide/Relay, which will then rexmit my station to whereever CJN reaches,
which, according to its Mheard list, is N9RER Wide in Chicago and W0BXR-8 in
Muscadine IA.

Isn't it true that if I change my unproto path to WIDE,WIDE I'll hit CJN AND
RER AND BXR-8 AND CJN (plus WMM-15)?  And I'd hate to think what kind of
mess would result if the pwr was kicked up to 50W.

And if it's changed again to WIDE,WIDE,WIDE, won't I hit CJN,RER,WMM,BXR,
CJN,RER,WMM,BXR, etc (i.e., multi-collisions) in the local area, in addition
to to whatever wides THOSE wides can reach?

I think I'm starting to see the wisdom of a 9.6k/UHF backbone link.

>I spent several hours a few weeks ago in a mobile where the only way to
>get the traffic to me was by using a RELAY on the end of the incoming
>path, because I could only hear one of two base stations at a time, but
>they both could hear the WIDE, and could not hear each other.  If the
>last digi had been a particular station, then I would have been cut off
>from the world at certain times.  We can't make concrete rules because
>they always need to be broken.

Won't a path of WIDE,RELAY cause all kinds of havoc in the Chicago area?

>The point is: We don't need another message in the program telling us
>what is right or wrong.  VHF users have been using GATE in their paths
>for months and ignoring the message, like the VHF bozo in the Chicago
>area using RELAY, WIDE, GATE, WIDE, WIDE (an impossible path by the
>way.)  This guy refuses to change his path, so we just budlist him.

>Henry
>N9WMM
>henryvb@dpliv.com

And as to the bozo/GATE question, I believe the "DEFAULT" path (not the one
that automaticly comes up, but what you get when you hit the "DEFAULT"
button) for the VHF port on WinAPRS is GATE,GATE,WIDE.

So, as FIRESIGN THEATRE once said, "We're ALL just bozos on this bus."

jbl/bozo
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

148. Re: [APRSSIG:4409] Re: Too much time on my hands....

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Sep 1996 07:35:14 -0500
To: <aprssig@tapr.org>
Message-ID: <199609051353.IAA04448@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> Central to the entire U.S. would certainly be a factor and Kansas City
doesn't
> necessarily have to the be the site!
>
> Jim Duncan, KU0G

Great! Let's have it in Branson! We can watch Boxcar Willie and talk ARPS
at the same time. What a joke! Naaaaaaaaa......... KC is a Great Idea!



--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

149. National Conference & WIDEWIDEWIDE

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Sep 1996 07:48:53 -0500
To: <aprssig@tapr.org>
Message-ID: <199609051353.IAA04451@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Some one asked for an agenda?

I'd like to see a siminar on Paths (WIDE WIDE WIDE?) On Digi Setups
(KPC-3's) On Remote WX staions/digis. Which brings me to the question
again, has anyone set up a remote combination digi/WX station? Hopefully
using a KPC-3 and the U2000?

The subjects on siminars are simple, take each and every command and talk
about it for and hour or two! Then, when we all wake up we'll be a bit
smarter! hihi

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

150. Hurrican Fran

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Sep 1996 08:52:17 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609051353.IAA04453@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
As Fran makes landfall this evening, take a close look at FEMA Office of
Emergency Information & Public Affairs situation breifs. Especially the
Red Cross and the US&R (Urban Search and Rescue Task Forces) reports. You
will more than likely see references to Ham Radio Operators support.
When this is all over with, I suggest we try to get detailed reports on
the operations success and/or shortfalls. With this information we, as a
group, should look at areas where APRS could have been used and whether or
not we should propose it's use in the future. This could be a group
discussion at the ARPS convention, if we have one that is.
At any rate, it looks as though this storm could be a catagory 5 by this
evening and there will be a lot to talk about and discuss. I only hope
that those folks "down yonder" have taken all precautions and no one is
injured or killed.
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

151. Re: [APRSSIG:4404] Re: WX display formats

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Sep 1996 10:10:59 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.GSO.3.95.960905100655.20219C-100000@arctic>
Rendered body type: text/plain

```
On Wed, 4 Sep 1996 moyers@vic.com wrote:

> From what I have needed for info for RACES work it would be
> nice if one of these schemes could give TEMP/RAIN/RAIN TOTAL/BARO.
> and/or TIME/WIND/WINDGUST/RAIN it is easier to get a good over view
**** The first is just too long.  The second is implemented (I thought)

> Secondly, is there a fix to the fading WX ICON on the screen of wx stations,
> and is this linked with the Wind direction indicator only showing up when
> there is a wind speed?

APRSdos REPLY/COMMENT: WX fade to gray will be fixed in 77a and the WIND
direction indicator now only shows up if there IS wind.  Makes no sense
otherwise, just confusing.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

152. Re: [APRSSIG:4418] Re: WIDE,WIDE,WIDE, GATE, and ERROR MESSAGES

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Sep 1996 09:10:12 -0500
To: <aprssig@tapr.org>
Message-ID: <199609051411.JAA04767@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> > This is not an error.  It may not be the best operating procedure, but
> > it's not an error.  The last thing we need is another stupid message
> > like the one for a vhf station running GATE.
> >
> > First, regarding the WIDE,WIDE,WIDE.  There are times when a station
> > could be in the middle of a string of WIDE's and using that path to
> > propagate two or more directions MAY be correct, just like there are
> > times when using RELAY or WIDE is really acceptable for the 1st digi
in
> > the path for a Base station, or RELAY is acceptable for the last
station
> > in a digi path, or etc., etc., etc.
> >
> > Henry
> > N9WMM
> > henryvb@dpliv.com
>
> Gotta agree with you Henry...100%...for example...my station is at
> center of a three pronged system....wide to the north, four wides to the
> east (to FL east coast), and two wides to the south....It is impossible
> to list digis by callsign and send posits to all of the above, however,
> an unproto path of KF4FOH-10, wide,wide sends the posits in all three
> directions with the first call being my local wide.  There is no other
> way to do it and as a weather station sending info to all those other
> users as part of the SKYWARN network....it is a necessity.--
> **********************************************************************
> From:  Kevin Heyboer          E-mail:kheyboer@co.pinellas.fl.us
> Amateur Radio Call:  KD4UYR   Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
> Assistant Emergency Coordinator and SKYWARN Coordinator
> Greater Pinellas County (St Petersburg/Clearwater) Florida
> **********************************************************************
Exactly! When surounded by digis, use the closest (most reliable) one as
the first hop in your path! I am adding yet another digi to the area.
There will now be three within 40 miles of each other. I can hear and hit
all three from the QTH but will in no way use WIDE WIDE WIDE. This doesn't
make sence! We are trying to build a reliable SKYWARN net here before the
late-October  November Tornado season starts. And in doing so must lay
down a heavy hand in these matters of path usage and proper setups. I
understand fully how the path can be misunderstood or misused by new users
but not after some time unless to station is just doing it in spite of
everyone else. This falls under the "police your own" net by the Net
Coordinator.
Again this would be another great subject for a siminar at the ARPS
convention. I'm sure it would be an interesting one!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

153. RE: [APRSSIG:4420] Re: APRS Airshow

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 5 Sep 1996 09:36:12 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960905143612Z-1543@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
>The esteemed Ralph Fowler wrote:
>> Somebody wrote:
>> > Just be sure you DON'T use a Garmin land or marine unit as they
>> > all shut down at 99 knots!
>>
>> Nice try (in Bob's words) but not quite true.  The land units do fine (even
>> at 450 Kts and 30,000 ft).
>> It is the cheap, MARINE Garmins that shut down!
```

I don't think that's true, either, Ralph. IIRC, Garmin's non-
aviation handhelds, both marine (45) and otherwise (38/40,)
do indeed shut down at approx. 99 knots; their non-handhelds,
like the TrackPacs and the GPS20 and GPS25 OEM boards,
do not. Am I somehow missing information on a Garmin
unit?

If you have different information, I'd like to hear it.

BTW, if anybody out there has built some interesting
device with a GPS20, you won't believe how much better
the GPS25 board is! Wow!

73 de KB9JTT

---

154. Re: [APRSSIG:4417] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Thu, 05 Sep 1996 09:44:34 -0700
To: aprssig@tapr.org
Message-ID: <322F0372.77A5@cris.com>
Rendered body type: text/plain

```
Kevin Heyboer wrote:
>
> William Nolle wrote:H> Oh come on, Bill, wake up.  Texas is like Florida, flat as a
> pancake...our wides are 30 to 40 miles apart also and they still can't
> hear half the time....you guys in the hills have a real advantage with
> VHF radio signals....I saw stations at that distance when I was mobile
> up in GA/TN...but not here...no way.
> *********************************************************************
> From:  Kevin Heyboer            E-mail:kheyboer@co.pinellas.fl.us
> Amateur Radio Call:  KD4UYR     Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
> Assistant Emergency Coordinator and SKYWARN Coordinator
> Greater Pinellas County (St Petersburg/Clearwater) Florida
> *********************************************************************
```

Hi Kevin, that's realy funny ;-). Actually it's just the other way around, i am
in the Tennessee valley surrounded by Big hills and mountains. The way i make
sure i can hit the digi is by antenna system. I can easely hit the digi in
Birmingham 102 miles away (having to go accross several mountains). Don't tell me
on flat land you cannot hit a digi at 30 to 40 miles away, my answer would be
install a better antenna system. I aggree things are different for those folks in
flat land areas, but not to have to use 3 wides. Some have stated (Including Bob
i believe) not to use beams on APRS, well i do and it has and is working great
for me and this is what you may have to do to reach a good digi. I mean Kevin it
takes about $10 to make one that will do it. I am against (And always will be)
using 3 wides, just my opinion folks.

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

155. RE: [APRSSIG:4414] Re: National APRS Conference

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Thu, 5 Sep 1996 09:47:28 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB9B0F.58C375C0@ppp-102.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

From: Steve Dimse
Sent: Thursday, September 05, 1996 12:57 AM
To: aprssig@tapr.org
Subject: [APRSSIG:4414] Re: National APRS Conference

I would vote for having a national APRS meeting in late October down in Steve's Haven of Key West. As part of proficiency training we could track the most exceptional body painted individuals.(thats a hint as to why I choose Key West in October)

As for all the discussion on unproto path's; anyone have any thoughts on an algorithm that could be used in a program to simulate the results of different unproto paths using an HST or BK file to provide the direct, indirect, and hop information of an existing path?

I'm once again trying this reply in MS Exchange with the mime selection turned off. I'm curious if that fixes the exchange attachment problem.

I'd also like to thank all the people that responded to my inquiry about a Solar Panel charge controller. I found a place that carries QST and read the article. I have 2 Micro M's on the way. Once I finish the Solar Powered remote Wide-Relay with U2000 WX I'll upload a file with JPEG's and a write-up on the whole thing.

barrettd@crpl.cedar-rapids.lib.ia.us   http://darn.eye.dont.have.a.web.pag
e/~someday.html   :-)

begin 600 WINMAIL.DAT

```
M>)\^(@H.`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'``````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`, ```%)%.B!;05!24U-)1SHT-#$T72!293H@3F%T:6]N
M86P@05!24R!#;VYF97)E;F-E`)X.`06 `P`.````S <)``4`"0`O`!P`! `Y
M`0$@@ ,`#@```,P'"0`%``D`'P`8``0`)0$!"8 !`"$````X03-$-D4T-C(W
M,#=$,#$Q.4,S-S P,C!!1C1$,S5&,@`"!P$#D 8`? 8``!0````+`",`````
M``,`)@```````"P`I```````#`"X````````,`-@``````0 `Y`! 3#BDYF[L!
M'@!P``$````P````4D4Z(%M!4%)34TE'.C0T,31=(%)E.B!.871I;VYA;"!!
M4%)3($-O;F9E<F5N8V4``@%Q``$````6````;N;.2D'1FX]BP<G$="<-P`@
MKTTU\@```'@`># $````#````35,``!X`'PP!````&@```%=I;F1O=W,O8F%R
M<F5T=&0O8F%R<F5T=&0````#``80= @MHP,`!Q#:`P```'@`($ $```!E````
M+2TM+2TM+2TM+4923TTZ4U1%5D5$24U315-%3E0Z5$A54E-$05DL4T505$5-
M0D52,#4L,3DY-C$R.C4W04U43SI!4%)34TE'0%1!4%)/4D=354)*14-4.D%0
M4E-324<Z-#0Q- `````"`0D0`0```-8$``#2! ``60<``$Q:1G53F917_P`*
M`0\"%0*D`^0%ZP*#`% 3`U0"`&-H"L!S973N,@8`!L,"@S(#Q@<3`H,B,P]Z
M:&5L`R!$;+IG`H!]"H (SPG9.Q9O>#(U-0* "H$-L0M@;O!G,3 S%" +"A+R
M# $:8P! ( J%"HML:3$$.# "T6DM,30TSPWP#- =,PM9,38*H -@]G0%D 5
M+1]7"H<>"PPP]1[61@-A.B!>'M8,@@8`^1\`=F45, =P$? ?_R$-3P9@`C B
M/R-+5&@(<'.P9&%Y+ 91!3!E!M 1!) @,#4I8#$Y.4(V*E R.C4W$W!-LR3/
M(0U4;R</(TMA'M"Q!!!I9T !D![0+@6PQF<K/R7>=6)J'Q$M7P$C2UM!4%)3
M4TFL1SH=0!TP70?P93*@\$YA=&D"( = $W TH;(@"%!N9@20"?!C)+89&\TS
M-AW7&JE)('>A"&!L9"!V'O$@`A"K!< 1P'8+@&<O(" V`-\UV@> $@`[,@N
M( M@.I&*3Q\@;RGB9&]W`Z!K//$D$R<$($@[$ GP( !O9B!+97D@5_D'D'0N
M$W $( JQ!4 _43L>T1T`8PB0-P`_H'1R>PMQ.S)W)% %H#HR09%C+FM!@!3P
M/&!O/^ @9=YX-Q %,#7D!N!D/Z *L$\+@!\`.E +@&1I.R!DXG4'0',N*$,0
M-< $('T[<&A$T2\@!" ]D#H`:/<_H#GP$;!O0V D4#^&/.+]/74I-SQ (3K"
M!T #($,2>T50!/!U+V$"(#] `Z!UOFX>TD<0"K!#$#[ .R\@_&YY`B D4#L!
M)%!,\4,!>0A@9VA&,4N1`Y$'0&?U!;!I0Q!M0P$UP$)%*>"_2^ 1\$42.V$>
MT0G 84]A>T<0`)!M.C ],D,2%G!S_SHP3E(_8$50#= VT@5 2_J/!"!+4#LS
M`Z!(4U0_0/D%P$)+.K #$%(A3%$#8/]%<5(D15 6<!\@*6!%,E=$]P!P.E!'
MH' \X3K!`, UTK\_0@.10Z $`#RC3'(_-SR\22=/8 (@-Q O(&<+<?U!@7D[
M,D,0! !2<0M0/Z#[//$%X45#L!' &7 D4 /P?T,00P0'<5&@%0`?$4N"=.\(
M<$TP.E _4&9 `%NB2T"_!1 (8 0@!I!/=!T`> >1_T,20Z%>1#7 `9 1L >
M1J'W'M$"8"G +EK..E!%L4<0;1R0:U831@%N0O!*EG#>95B05@)/DE*!< (@
M#;#+0I%'$&U=DG%U5S _H+\!H A@1K$&``;P"L%0`'#_%0!'@0K 7G$%H (P
M`V 5$/\$D&#!.K%+\&6!0$ +8%P![T^$"L (@00@45516$(6<</YA0I%#(4!A
M01!6`&OB36/]$B!-01 #8 70/L%?\D,A=G<I0$ `3UOR; %!P7-_7M1J%3X`
```

```
M-M%N,@1@.I%7O5:A+35P"V _H%ZC50'06QS0/[!86Y$5$74+4&\/;G$[<%7C
M7J-*4$5']S[!6$([<'=/(70`=;!PEV]'H&>3.S%D?6)M81(`=&QD0 4`"U N
M-Q I,'(Z+4&@<$6 1= <D&(N'0<P+DM0(\-.0'1P.N0O+WM1;BX_D&] /?#U
M`C N36(N?%!"('P@"K!Y7G O?F7 !X I,7X@=,9M`R" `#HM*3C-'M8+"H45
MD0""@ ```P`0$ `````#`!$0`````$ `!S#@K!?J-IN[`4 `"##@K!?J-IN[
?`1X`/0`!````!0```%)%.B ``````P`--/TW``"4XYN[
`
end
```

---

156. Re: [APRSSIG:4412]KC Meeting (was Too much time on my hands)

From: Dave Kaplan <dkaplan@pionet.net>
Date: Thu, 5 Sep 1996 10:01:41 -0500
To: aprssig@tapr.org
Message-ID: <9609051501.AA08735@ELWOOD.pionet.net>
Rendered body type: text/plain

At 12:35 AM 9/5/96 -0500, you wrote:
>>Of course you would have it in Kansas, but i think it should be in an area
>of >most APRS activity, not because that's where you sre located ;-)
>>
>>No flame just joking Hi.
Kansas City makes alot of sense. For those of you who have to fly
commercial (grin) airfares in and out of KC are CHEAP. The are reasonable
rate hotels a free shuttle ride away. There's alot of open space, clean air
and BBQ!, but it's a long way from KCI airport (30 miles to KC Masterpiece
Resturant). There is also an active APRS community willing to work to set
it up.

The problem with Dayton is it is too little with too much else going on. I
could spend hours learning how to:
1. Make street level maps
2. Design APRS networks (Now was that WIDE or RELAY..humm)
3. Learning to NWS acros the country are using APRS
4. Having people volunteer to present papers of varies uses of APRS
5. Put your subject here.......

APRS has grown to the point that it probably has more users than Oscars at a
cheaper entry level, yet amsat has annual meetings for paper presentations
as well as going to Dayton. Don't get me wrong--I LOVE Dayton and the
chance to get away but, I could learn so much more in a APRS only environment.

Dave Kaplan
WB0WNX-7 Mojave AirMobile

P.S. Even if it is not in KC, I would probably go!

---

157. Re: WX Legal

From: kf4dys@juno.com (Joe Foor)
Date: Thu, 5 Sep 1996 09:03:37 PST
To: aprssig@tapr.org
Message-ID: <19960905.095730.3543.0.kf4dys@juno.com>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> The Identification issue is already covered in the position report
>as your
> station callsign appears as the FIRST thing in EVERY packet followed
>by the
> digipath. Easy, huh?

I've seen a couple of stations that don't transmit that
way...

I don't know if that's because they set up the TNC with
an alias in as MYCALL, or they used an alias when
entering the station data during the APRS setup
procedure.

regards,
Joe

---

158. PicoPacket BBRAM

From: "Stacey E. Mills, M.D." <sem2r@galen.med.virginia.edu>
Date: Thu, 05 Sep 1996 11:18:25 -0400
To: aprssig@tapr.org
Message-ID: <199609051518.LAA139118@avery.med.Virginia.EDU>

Rendered body type: text/plain

```
I'm having a problem with my PicoPacket (2 serial port /DCD model)
defaulting on the RAM settings when the power is turned off.  The jumper is
in place and the lithium battery voltage is O.K.  Has anyone else had this
problem?  Since the default is LOC =0, setting it up as a "standalone"
beacon with my GPS-20 is a bit of a pain.
--------
Stacey E. Mills
E-Mail: sem2r@galen.med.virginia.edu
Office Phone: 804-982-4406
Office Fax: 804-924-8767
```

159. A better WIDE scenario

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Sep 1996 11:28:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960905111206.20219I-100000@arctic>
Rendered body type: text/plain

```
On Thu, 5 Sep 1996, someone wrote:

> > First, regarding the WIDE,WIDE,WIDE.  There are times when a station
> > could be in the middle of a string of WIDE's...
>
> Gotta agree with you Henry...100%...for example...my station is at
> center of a three pronged system....wide to the north, four wides to the
> east (to FL east coast), and two wides to the south.... A path of
> KF4FOH-10,WIDE,WIDE sends the posits in all 3 directions with the first
> call being my local wide.  There is no other way to do it..

APRSdos REPLY/COMMENT: Yes there is, and it is better:  If you used
WIDE,WIDE,DIGI3,DIGI4, that would hit all 6 digis and you would avoid the
multiple duplication of the 3 W,W,W path you are now using.  Yes the
DIGI-10,W,W is the same thing as a 3 WIDE hop since all WIDES after the
first can still be re-duplicated by the first digi.. Also your path would
need DIGI-10,W,W,W to hit the 4th wide to the east, and this is in effect
the same as W,W,W,W !

I thought I would stay out of it this time, but the above message dared me
to come up with a "better way to do it".  Oh, in this case, the DIGI3 and
DIGI4 are the 3rd and 4th digis to the east.

The only complexity to the above scenario is whether the originating
station can only hit "one" wide the first time.  If he hits two or more
wides direct with his initial packet, then the path could possibley be
shortened even more! (it appears that this is the case, since he was only
using 3 hops, yet intending to go 4 hops to the east.)

There is nothing "absolutely" wrong with any chosen path, but it takes an
"understanding" to use them appropriately and creatively.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

160. Re: [APRSSIG:4417] Re: WIDE,WIDE,WIDE?

From: mcinnis@austin.ibm.com (McInnis)
Date: Thu, 5 Sep 1996 10:27:19 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9609051527.AA26310@babe01.austin.ibm.com>
Rendered body type: text/plain

```
> ...
> Oh come on, Bill, wake up.  Texas is like Florida, flat as a
> pancake...
> ....

Smile when you say that son, Texas is a big place.  As they say,
it's like a Whole 'nother country.  We have hills in some areas.
I will admit most of the people live in the flatlands, though.

--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.
```

161. Re: [APRSSIG:4420] Re: APRS Airshow

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Sep 1996 10:29:45 -0500
To: <aprssig@tapr.org>
Message-ID: <199609051534.KAA06477@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> Somebody wrote:
> >Just be sure you DON'T use a Garmin land or marine unit as they all
shut
> down at
> >99 knots!

> Then Somebody else wrote:
> Nice try (in Bob's words) but not quite true.  The land units do fine
(even
> at 450 Kts and 30,000 ft).
> It is the cheap, MARINE Garmins that shut down!

Whoe Now! It was a legit word of caution. Anyway, we're using Garmin 55
AVD (AViation Device). Please don't get into a shooting match over this!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

162. Re: [APRSSIG:4407] Re: WIDE,WIDE,WIDE?

From: schiers@ames.net
Date: Thu, 05 Sep 96 10:32:40 -0500
To: aprssig@tapr.org
Message-ID: <199609051535.KAA28082@tapr.org>
Rendered body type: text/plain

```
In <790803@bbs.ames.net>, on 09/04/96 at 10:54 PM,
   aprssig@tapr.org said:

>I don't understand your comment .... these stations are all HF stns that
>are  GATEing into my local area (with GATE,WIDE,WIDE,WIDE for the most
>part)  ... they are NOT local VHF stations

My comments were intended for VHF only. I don't think I would like it much
if hf stations were to gate,wide,wide,wide without an extremely good
reason.

 73.

hsan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

163. RE: [APRSSIG:4425] Hurrican Fran

From: Willson Flor <willf@rrgroup.com>
Date: Thu, 5 Sep 1996 10:53:30 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960905155330Z-1558@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
J. Scott Ratchford, KC5JGV wrote:
>
>As Fran makes landfall this evening, take a close look at FEMA Office
>of
>Emergency Information & Public Affairs situation breifs. Especially the
>Red Cross and the US&R (Urban Search and Rescue Task Forces) reports.
>You
>will more than likely see references to Ham Radio Operators support.

If anyone is interested in seeing these and is not on the appropriate
FEMA mailing list, they are also available in the USENET news group
alt.disasters.misc.

73 de KB9JTT
```

---

164. W,W,W Scenario #2

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Sep 1996 12:05:43 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.GSO.3.95.960905115132.20219M-100000@arctic>
Rendered body type: text/plain

```
On Thu, 5 Sep 1996, J. Scott Ratchford, KC5JGV wrote:

> Exactly! When surounded by digis, use the closest (most reliable) one as
> the first hop in your path! ...  There will now be three within 40 miles
> of each other. I can hear and hit all three from the QTH but will in no
> way use WIDE WIDE WIDE. This doesn't make sence!

APRSdos REPLY/COMMENT:  WRONG as a general rule.  If you are surrounded by
3 WIDES, and can hit all three, then VIA a single WIDE will hit all three
at once!

Defining the first one by CALL is just wasting a hop and only mildly
solves the multiple duplication problem if you are going further.

There are *no* absolute rules.  Every path must be tailored to *each*
stations situation only.  But if you can hit more than one WIDE direct,
then it is frequently a good idea to start with WIDE to get your packet
initially launched in two or more directions at once.  Then once you get
beyond two WIDES, then you need to specialize the path.

If you need to go 3 or more hops in two directions then just specialize
the path in one direction, say, W,W,A,B,C and use the OPS-DIGI-ALT command
to set an alternate path of W,W,X,Y,Z and set it to be used 50% of the
time.  If you want to go DX in 3 or more ways, then you will have to wait
for PacComm to come out with the WIDE-N digi...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

165. National APRS Meeting?

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 05 Sep 96 12:09:48 EDT
To: <aprssig@tapr.org>
Message-ID: <960905160948_71301.3106_FHJ52-1@CompuServe.COM>
Rendered body type: text/plain

```
(was "Re: Too much time on my hands....")

Gee, y'all... demands on time surrounding the Dayton Hamvention are severe
enough already. I've not yet gone where I wasn't forced to bypass a forum or a
meeting or miss areas of the boneyard or cut short a long-anticipated
face-to-face QSO because there just aren't enough hours to do it all. So I say
not only "no" on Dayton, but "heck, no!".

And I concur with the observations about the digital conference - too much
unrelated technical stuff and not enough "general" draw for anybody but the
most hardcore APRS'ers. To me, that's like holding it at a VHF Conference; yes,
it's related, but barely.

Jim's KC offer is fine by me, but then, that's but a day trip away. So is
Peoria, where I know I'll see several of you.

  ...mike/N0QBF
     71301.3106@compuserve.com
```

---

166. Re: [APRSSIG:4425] Hurrican Fran

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 5 Sep 1996 12:16:57 CDT
To: aprssig@tapr.org
Message-ID: <19960905.111813.3414.7.ad4bl@juno.com>
Rendered body type: text/plain

```
I take issue with the statement that Hurricane Fran could be a CAT 5 by
tonite...
It is a strong CAT 3 now at 115 MPH.  Cat 5 is winds higher than 155 MPH.
Please don't make statements that can't be backed up by fact.  The
official
advisories are only saying that Fran could strengthen.  It continues to
increase
its forward speed and the central pressure is rising...both of which are
contra/indicative of strengthening.


Linda Mullen  AD4BL  DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
```

"Everything worth doing is scary"

```
On Thu, 5 Sep 1996 09:33:55 -0500 (CDT) "J. Scott Ratchford, KC5JGV"
<jratchf@bulldog.afsc.k12.ar.us> writes:
>As Fran makes landfall this evening, take a close look at FEMA Office
>of
>Emergency Information & Public Affairs situation breifs. Especially
>the
>Red Cross and the US&R (Urban Search and Rescue Task Forces) reports.
>You
>will more than likely see references to Ham Radio Operators support.
>When this is all over with, I suggest we try to get detailed reports
>on
>the operations success and/or shortfalls. With this information we, as
>a
>group, should look at areas where APRS could have been used and
>whether or
>not we should propose it's use in the future. This could be a group
>discussion at the ARPS convention, if we have one that is.
>At any rate, it looks as though this storm could be a catagory 5 by
>this
>evening and there will be a lot to talk about and discuss. I only hope
>that those folks "down yonder" have taken all precautions and no one
>is
>injured or killed.
>--
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>*  North Arkansas Amateur Radio Society, Inc.
>*  Marshall Volunteer Fire Dept./EMS First Responder
>*  Calf Creek Lodge #426
>*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
>
>
```

---

167. Digi Path's

From: William Nolle <wa8inz@cris.com>
Date: Thu, 05 Sep 1996 11:24:40 -0700
To: aprssig@tapr.org
Message-ID: <322F1AE8.5176@cris.com>
Rendered body type: text/plain

It looks to me like ALL the messages i have seen in the past few days regarding digi path's have been from Skywarn people!. This is a great service and should by all means be helped to grow. But my question is if this is so vital as a public service then why bother beeing on 145.790 in the first place?. I hope all the Skywarn folks don't expect all the users on 145.790 to get off and let it be used for that purpose only. 145.790 is not a very good place for this type of service and in my opinion should be on a dedicated frequency by itself. I maybe all wrong (To most i always am) but this seams to be the solution to all of the questions about using 3 wides in the first place. It maybe a good idea to go 9600 on 70cm or whatever. Fellows just stating my thinking, like it or not.

I can remember not to long ago when we (Locally) where using APRS from the Red Cross for some local realy heavy weather conditions that killed several people and all i seen was HF gate'rs using the Bulletin function in APRS to chat back and forth. Just an example why the Skywarn service should be located on another frequency.

Go ahead and flame because i just got my fireproof suit overhauled thank you!. Like i say i believe in free speech on the SIG.

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

168. Re: second request

```
From: TIR Helpdesk <helpdesk@tir.com>
Date: Thu, 5 Sep 1996 12:47:20 -0400 (EDT)
To: aprssig@tapr.org
Cc: Roger Breckon <n8chb@tir.com>
Message-ID: <199609051647.MAA10777@tir.com>
Rendered body type: text/plain
```

```
Date: Thu, 05 Sep 1996 16:26:21 -0700
From: Roger Breckon <n8chb@.tir.com>
Subject: second request
X-Taken: darkstar Thu Sep  5 12:36:38 1996 ''

   Dear sirs, it would be greatly appreciated if you could remove the following
individual from this List Service. Please check for, and remove any of the following
email addresses from your mailing list:

UNSUBSCRIBE:
n8chb@tir.com
n8chb@sun.tir.com
n8chb@mail.tir.com
n8chb@.tir.com



 * * * * * NOTE FOR: Roger Breckon <n8chb@.tir.com> * * * * *
Please note that your current email address shown is incorrect. There is not
suppose to be a ( . ) period after the @ sign, as shown in yours. This in itself
can cause many problems for you in email. Please remove the period ( . ) from
after the @ sign in your email program configuration/setup.
   I had to remove it before forwarding this email to you so the message could be
sent properly.

> Help!
>
> I can not get off the following list.
>
> unsubscribe: list name aprssig@tapr.org
>
> n8chb@tir.com
> n8chb@sun.tir.com
>
> any sugestions?
>
> note:
>      I am using two servers, one is tir and the other is juno
>      I want to keep juno subscribed and unsubscribe tir
>      this list generates on the average of 30 msg a day.
>
> Any ideas would be helpful,
> I am using netscape 3.0 ver 8 beta
>
> thanks,
>
> Roger Breckon
>
>


Larry  -  The Internet Ramp Helpdesk     http://www.tir.com/~darkstar
```

---

169. Re: [APRSSIG:4433] PicoPacket BBRAM

```
From: randyh@gvgadg.gvg.tek.com (Randy Hall)
Date: Thu, 05 Sep 1996 10:07:13 -0700
To: aprssig@tapr.org
Message-ID: <9609051700.AA26620@gvgadg.gvg.tek.com>
Rendered body type: text/plain
```

```
>I'm having a problem with my PicoPacket (2 serial port /DCD model)
>defaulting on the RAM settings when the power is turned off.  The jumper is
>in place and the lithium battery voltage is O.K.  Has anyone else had this
>problem?  Since the default is LOC =0, setting it up as a "standalone"
>beacon with my GPS-20 is a bit of a pain.
>--------
>Stacey E. Mills

You may need to send it back to Paccomm for upgrade.
My Pico also had this problem.
```

Randy
WA2AGE

---

170. How about a Virtual Conference?

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 5 Sep 96 13:09:44 -0400
To: <aprssig@tapr.org>
Message-ID: <199609051706.NAA24674@bridge.net>
Rendered body type: text/plain

>I'd like to see a siminar on Paths (WIDE WIDE WIDE?) On Digi Setups
>(KPC-3's) On Remote WX staions/digis. Which brings me to the question
>again, has anyone set up a remote combination digi/WX station? Hopefully
>using a KPC-3 and the U2000?
>

Yea, there are four up now in the Florida Keys, plus mine when I'm not there (when I'm there I leave a computer on running MacAPRS). Email me if you have questions.

>The subjects on siminars are simple, take each and every command and talk
>about it for and hour or two! Then, when we all wake up we'll be a bit
>smarter! hihi
>

OK, so why not have people, instead of preparing and giving a talk, write it up? Do it as an html file (I'll volunteer to turn anyone's text file into html if they can't). Then we collect all these files, link them together, put them up on the TAPR server and other places. Sounds like that would be whole lot more useful than a one shot conference...it would be a virtual conference that keeps on giving....Sort of a FAQ on steroids.

We'd need a coordinator to collect the files, link and FTP them. I'd think about doing it if no one else wants to (but I'd rather not...I'd much rather work on javAPRS). If the group does decide to do this, we'll need some rules to slow the inevitable degeneration into flame-wars... These would need to be agreed upon prior to starting.

Ground rules I'd propose:

(These are just suggestions...there needs to be a lot of discussion about this.) The rules hopefully can be agreed upon after discussion by consensus but if there reains significant disagreement, a vote can be held. (See below)

The virtual conference coordinator position is by calendar year, decided by vote if more than one candidate wants the job. Voting open to any ham (valid license required, no non-ham relatives!) registered on the aprs sig when the vote is held, say first week in December). Votes would be emailed with callsign to some trusted 3rd party, maybe TAPR, for verification. First year would be for what is left of 96 and all of 97.

The structure of the overall site and the graphic layout, would be the sole responsibility of the coordinator. The coordinator could make cosmetic changes in submissions to preserve a common the look and feel.

The coordinator would maintain a listing (preferable available on the internet) of who is working on a given topic, to prevent unneeded duplication of effort. However, no one "owns" a topic, and no one is to be discouraged from writing about something that interests them.

If the coordinator wanted to contribute subject matter, it would be on the same basis as everyone else, no priority!

All submissions are identified by name and callsign in a stardard manner designed by the coordinator, and can, at the author's choice, be a single URL link (for example an http: link to the authors home page or a mailto: link to their email address). The date of submission would also be clearly displayed.

When more than one person contributes on a single subject, all contributions will used (i.e. no censorship). The way the contributions would be combined would be up to the coordinator, but any priority would be based on time of submission. For example, if two people submitted multi-page writeups on a command, the coordinator might elect to creat a page in the conference that briefly summarized the two submission and had links to them. A page talking about unproto paths with dozens of relatively short contributions might have all comments on a long single page, in order they were recieved, with a table of contents at the top.

When an author changes his material on a certain subject, he loses his

```
priority over others, and only a single submission per person on a given
topic. This is designed to prevent people from turning in something
really fast and ugly just to have the first slot.

No one may modify or reuse the material submitted by another without
their permission, however if you submit material you agree to it's
distribution as part of the whole, on internet, CD ROM, or any other
means, in perpetuity. (You can't take your marbles and go home!)

Material can only be removed at the request of the author, or after a set
time period (say 1 year), if it has not been updated by the author, and
the coordinator feels it is out of date. The author should be notified of
this in advance and given a chance to update it if desired.

I think it would be really great to see the sig do something useful like
this. Comments???

Steve KO4HD
```

---

171. Re: [APRSSIG:4430] Re: National APRS Conference

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 5 Sep 96 13:57:40 -0400
To: <aprssig@tapr.org>
Message-ID: <199609051754.NAA28693@bridge.net>
Rendered body type: text/plain

```
*** Begin non APRS related stuff ***
>I would vote for having a national APRS meeting in late October down in
>Steve's Haven of Key West. As part of proficiency training we could track
>the most exceptional body painted individuals.(thats a hint as to why I
>choose Key West in October)
>
Sorry to disappoint all, but the Key West City Council banned body
painting this year. Next year, when the businessmen complain about the
lost revenue, it will be legal again. We've been through this cycle
before (body painting has been banned for 3 of the last 10 years, and is
always overturned the next year.) Politics.

For those of you who aren't following this, see:

http://www.bridge.net/~sdimse/fantfest.html

*** End non APRS related stuff ***

Insert Flames here:

Then mail it to yourself, you'll feel better, hi!

Steve KO4HD
```

---

172. Re: [APRSSIG:4433] PicoPacket BBRAM

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Sep 1996 12:59:11 -0500
To: <aprssig@tapr.org>
Message-ID: <199609051811.NAA08861@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> I'm having a problem with my PicoPacket (2 serial port /DCD model)
> defaulting on the RAM settings when the power is turned off.  The jumper
is
> in place and the lithium battery voltage is O.K.  Has anyone else had
this
> problem?  Since the default is LOC =0, setting it up as a "standalone"
> beacon with my GPS-20 is a bit of a pain.
> --------
> Stacey E. Mills

Look for the obvious...... is the battery in upside down? Is it making
contact? Have you tried another one?
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
```

---

173. Re: [APRSSIG:4431] Re: C Meeting (was Too much time on my hands)

From: Bill Lefler <wo0e@sky.net>
Date: Thu, 5 Sep 1996 13:46:09 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960905134229.23498A-100000@sky.net>
Rendered body type: text/plain

```
I would also like to add (perhaps Support would be the more appropriate
term) to the flurry of Subject matters to be discussed at a Gathering. I
agree with the suggestion of making maps. There are many maps available,
but it would be nice to make my own. Also a wider knowledge base would
allow those with the time to be able to contribute. Just my $0.02 worth.


*********************************************
wo0e@sky.net  - Bill Lefler - Kansas City KS
Amateur Radio -  WO0E  (Dub-Yo-Zeree)
"Life is a Reach! Sheet in and Hike Hard!"
*********************************************
```

---

174. Re: How about a Virtual Conference?

From: Mark Sproul <sproul@ap.org>
Date: Thu, 5 Sep 1996 14:22:43 -0400
To: aprssig@tapr.org
Message-ID: <v03007809ae54c9b4c8aa@[165.1.27.20]>
Rendered body type: text/plain

```
>OK, so why not have people, instead of preparing and giving a talk, write
>it up? Do it as an html file (I'll volunteer to turn anyone's text file
>into html if they can't). Then we collect all these files, link them
>together, put them up on the TAPR server and other places. Sounds like
>that would be whole lot more useful than a one shot conference...it would
>be a virtual conference that keeps on giving....Sort of a FAQ on steroids.
>>time period (say 1 year), if it has not been updated by the author, and
>the coordinator feels it is out of date. The author should be notified of
>this in advance and given a chance to update it if desired.
>

[much deleted]


>I think it would be really great to see the sig do something useful like
>this. Comments???
>
>Steve KO4HD



I have done a little of this already for WinAPRS, and will continue to do
so. I of course will not get directly involved with dosAPRS but would
volunteer to be the web cordinator and maintain the web pages.  Keith and I
have already put ALL of the dosAPRS docs in HTML form, they are on our
CD-ROM.  And as most of you know, the ONLY docs on WinAPRS are in HTML.

Though out the WinAPRS docs, I have taken peoples questions, coments, etc
to heart when doing the documentation, one person, (Arthur Martin, N2QAE)
did a real nice write up of the Win32S instalation, I made it into HTML,
made it look like the rest of the docs, put his name and gave him credit,
and included in the general WinAPRS docs.  I would very much like to
continue this as per Steves comments and do invite submissions now for more
info on Mac/WinAPRS.  I will maintian the dosAPRS stuff as well if asked.


Mark

____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

---

175. WX digi paths!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Sep 1996 15:00:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960905145138.25054B-100000@arctic>
Rendered body type: text/plain

On Thu, 5 Sep 1996, William Nolle wrote:

> [..most] of the messages i have seen regarding digi path's have been from Skywarn people!. This is a great service and should .. be helped to grow. But ... if this is so vital as a public service then why bother being on 145.790 in the first place?.

APRSdos REPLY/COMMENT: THis is a good point, and since we are working on a new solar powered stand-alone WX-MIM which is a complete remote WX station, TNC, radio, antenna, and solar power system all rolled into one, it is time to consider getting a coordinated UHF freq in each area for these remote WX sites. WX is a local phenomenon and FIXED locations, so different freqs in each kingdom is just fine... Go get your UHF freq while you can!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

176. Re: [APRSSIG:4445] How about a Virtual Conference?

From: John M Domblewski <wendysue@global2000.net>
Date: Thu, 05 Sep 1996 14:57:51 -0400
To: aprssig@tapr.org
Message-ID: <322F22AF.3B06@global2000.net>
Rendered body type: text/plain

Steve Dimse wrote:

> > I'd like to see a siminar on Paths (WIDE WIDE WIDE?) On Digi Setups (KPC-3's) On Remote WX staions/digis. Which brings me to the question again, has anyone set up a remote combination digi/WX station? Hopefully using a KPC-3 and the U2000?
>
> Yea, there are four up now in the Florida Keys, plus mine when I'm not there (when I'm there I leave a computer on running MacAPRS). Email me if you have questions.
>
> > The subjects on siminars are simple, take each and every command and talk about it for and hour or two! Then, when we all wake up we'll be a bit smarter! hihi
>
> OK, so why not have people, instead of preparing and giving a talk, write it up? Do it as an html file (I'll volunteer to turn anyone's text file into html if they can't). Then we collect all these files, link them together, put them up on the TAPR server and other places. Sounds like that would be whole lot more useful than a one shot conference...it would be a virtual conference that keeps on giving....Sort of a FAQ on steroids.
>
> We'd need a coordinator to collect the files, link and FTP them. I'd think about doing it if no one else wants to (but I'd rather not...I'd much rather work on javAPRS). If the group does decide to do this, we'll need some rules to slow the inevitable degeneration into flame-wars... These would need to be agreed upon prior to starting.
>
> Ground rules I'd propose:
>
> (These are just suggestions...there needs to be a lot of discussion about this.) The rules hopefully can be agreed upon after discussion by consensus but if there reains significant disagreement, a vote can be held. (See below)
>
> The virtual conference coordinator position is by calendar year, decided by vote if more than one candidate wants the job. Voting open to any ham (valid license required, no non-ham relatives!) registered on the aprs sig when the vote is held, say first week in December). Votes would be emailed with callsign to some trusted 3rd party, maybe TAPR, for verification. First year would be for what is left of 96 and all of 97.
>
> The structure of the overall site and the graphic layout, would be the sole responsibility of the coordinator. The coordinator could make cosmetic changes in submissions to preserve a common the look and feel.
>
> The coordinator would maintain a listing (preferable available on the internet) of who is working on a given topic, to prevent unneeded duplication of effort. However, no one "owns" a topic, and no one is to be discouraged from writing about something that interests them.
>
> If the coordinator wanted to contribute subject matter, it would be on the same basis as everyone else, no priority!
>

```
> All submissions are identified by name and callsign in a stardard manner
> designed by the coordinator, and can, at the author's choice, be a single
> URL link (for example an http: link to the authors home page or a mailto:
> link to their email address). The date of submission would also be
> clearly displayed.
>
> When more than one person contributes on a single subject, all
> contributions will used (i.e. no censorship). The way the contributions
> would be combined would be up to the coordinator, but any priority would
> be based on time of submission. For example, if two people submitted
> multi-page writeups on a command, the coordinator might elect to creat a
> page in the conference that briefly summarized the two submission and had
> links to them. A page talking about unproto paths with dozens of
> relatively short contributions might have all comments on a long single
> page, in order they were recieved, with a table of contents at the top.
>
> When an author changes his material on a certain subject, he loses his
> priority over others, and only a single submission per person on a given
> topic. This is designed to prevent people from turning in something
> really fast and ugly just to have the first slot.
>
> No one may modify or reuse the material submitted by another without
> their permission, however if you submit material you agree to it's
> distribution as part of the whole, on internet, CD ROM, or any other
> means, in perpetuity. (You can't take your marbles and go home!)
>
> Material can only be removed at the request of the author, or after a set
> time period (say 1 year), if it has not been updated by the author, and
> the coordinator feels it is out of date. The author should be notified of
> this in advance and given a chance to update it if desired.
>
> I think it would be really great to see the sig do something useful like
> this. Comments???
>

> Steve KO4HD

I'd really like to see something like this done .  Conference or not!


John << N2OJY >>
```

---

177. Re: [APRSSIG:4426] Re: WX display formats

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Thu, 05 Sep 1996 22:07:20 GMT
To: aprssig@tapr.org
Message-ID: <322f4eb0.424612614@vaxxine.com>
Rendered body type: text/plain

```
On Thu, 5 Sep 1996 09:38:13 -0500 (CDT), you wrote:

>APRSdos REPLY/COMMENT: WX fade to gray will be fixed in 77a and the WIND
>direction indicator now only shows up if there IS wind.  Makes no sense
>otherwise, just confusing.
>
>Reply mail addr:  wb4apr@amsat.org

Bob where can I obtain a copy of 77a, I have been looking for it
for the past week on TAPR upload directory but it has not shown
up, I would like to see myself on the screen....
73
Regards, Ron ...                          73 de Ron
         Internet: rkramer@vaxxine.com (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

178. Re: [APRSSIG:4445] How about a Virtual Conference?

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 5 Sep 1996 17:52:47 -0400
To: aprssig@tapr.org
Message-ID: <199609052152.RAA19101@grumpy.magg.net>
Rendered body type: text/plain

```
I am game. I am also game for a bi-weekly IRC chat channel. If enough users
have PPP access this should be quite interesting. I have never used a IRC
channel but am willing to learn if it means a bi-weekly "meeting" or so.

snip***
>OK, so why not have people, instead of preparing and giving a talk, write
>it up? Do it as an html file (I'll volunteer to turn anyone's text file
```

>into html if they can't). Then we collect all these files, link them
>together, put them up on the TAPR server and other places. Sounds like
>that would be whole lot more useful than a one shot conference...it would
>be a virtual conference that keeps on giving....Sort of a FAQ on steroids.

>I think it would be really great to see the sig do something useful like
>this. Comments???
>
>Steve KO4HD
>
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net (E-Mail)
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
http://www.magg.net/~n2czf/brothers.html (Brothers to the Rescue Human
Rights Group)

---

179. Laptop computer vehicle mounts

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Thu, 5 Sep 1996 17:03:09 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960905170309.204200f9@exame2.dseg.ti.com>
Rendered body type: text/plain

A couple of weeks ago I asked for any information or experience that was available about mounting laptop computers in a car. Thanks to those who responded with their information and experience. I've kept looking around for more options, since I still didn't have a clear idea of how to do what I needed to do. Today I ran across a company whose entire business is specialized mounts for computers, radios, cellular phones, and various electronic equipment in vehicles! As yet I can't vouch for this company, but am posting the information about it here so that others can tap this information if they wish to.

Gamber-Johnson
801 Francis Street
Stevens Point, WI 54481
1-800-456-6868

http://www.coredcs.com/~gamberj/ Web page

gamberj@chaos.coredcs.com e-mail

I called their 800 number this afternoon, spoke with a very pleasant young lady, and they are mailing me a copy of their catalog. It even turns out that they have a basic mount specifically designed for a Chevy Caprice, which is the car I need to put the equipment in!

There is an awful lot of what you need out there, somewhere - the problem is FINDING it! Enjoy.

73, Claude
K5DTN

---

180. MFJ 1270C Problem

From: RGervenack@aol.com
Date: Thu, 5 Sep 1996 18:21:05 -0400
To: APRSSIG@tapr.org
Message-ID: <960905182104_195159386@emout09.mail.aol.com>
Rendered body type: text/plain

I am using the following:

12 volt battery
12 volt to 5 volt converter to Garmin 20
Garmin 20 + antenna
MFJ 1270C
Alinco DR-130 transciever, 145.790

I have been unable get the MFJ 1270C to transmit data to the Alinco DR-130.
Am I missing a command?
I sure would appreciate any help so I my get going mobile.

73, GERVIE

181. Re: [APRSSIG:4405] Re: WIDE,WIDE,WIDE?

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 5 Sep 1996 18:47:50 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609051833.B20730-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Thanks Steve, a good reply.  APRS was written, I believe, with the mobile
user in mind where the mobile station may not know the call signs or
paths.  Multiple wides is the only recourse.
73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Wed, 4 Sep 1996, Steve Dimse wrote:

> >20 to 30 miles apart, that's realy close (And to close to be using 3 wide's,
> >come on now. Play the games by the rules or don't play at all. Not trying to
> >flame you but 3 wides is asking for problems. Get a better antenna that's
> >what it sounds like you need. I get stations 160 miles away, Just before
> >getting on here i was keyboarding with a user in Atlanta and the digi i was
> >using was 102 miles away and i was not using 3 wides.
>
> Yes, but here in the flatlands, where the digis are 100-200 feet high, 30
> miles is just about right. Not everyone can put digis on mountains, and
> space on the few really big towers costs really big bucks! The name of
> the game here is communication, and you have to do what works. Sure, I'd
> love to live in a place where the digis were 2000 feet up and 100 miles
> apart. But if we put one digi every hundred miles in South Florida we'd
> never see each other. Also, you seem to forget that APRS is about
> tracking things, not keyboarding. Sure, high power and a big beam antenna
> will work further than a mobile, but it's not what I want in APRS. You
> really ought to be more tolerant of other people's needs.
>
> Steve KO4HD
>
```

---

182. Re: [APRSSIG:4403] WIDE,WIDE,WIDE, GATE, and ERROR MESSAGES

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Thu, 05 Sep 1996 19:28:26 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960905232826.0070da08@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 10:04 PM 9/4/96 -0500, you wrote:
>In APRSSIG digest 681 it twas written regarding WIDE,WIDE,WIDE:
>
>>   Bob, Mark, and Keith,
>>     It's too bad the APRS software can't check the unproto path for this
>> condition and put up an error message( smirk..smirk.. hint.. hint).
>
>This is not an error.  It may not be the best operating procedure, but
>it's not an error.  The last thing we need is another stupid message
>like the one for a vhf station running GATE.
>
>First, regarding the WIDE,WIDE,WIDE.  There are times when a station
>could be in the middle of a string of WIDE's and using that path to
>propagate two or more directions MAY be correct, just like there are
>times when using RELAY or WIDE is really acceptable for the 1st digi in
>the path for a Base station, or RELAY is acceptable for the last station
>in a digi path, or etc., etc., etc.
>
>I spent several hours a few weeks ago in a mobile where the only way to
>get the traffic to me was by using a RELAY on the end of the incoming
>path, because I could only hear one of two base stations at a time, but
>they both could hear the WIDE, and could not hear each other.  If the
>last digi had been a particular station, then I would have been cut off
>from the world at certain times.  We can't make concrete rules because
>they always need to be broken.
>
>Second, regarding the message that VHF users should not use GATE in
>their path.  There are times that a VHF user SHOULD use GATE, like when
>I am 500 miles from home and use WIDE,GATE,GATE,Call in my path 5% of
>the time to get a position report or a message back home.  I'm certainly
>not choking the net anymore than the inane stuff that I am treated to
```

```
>every day by HF stations that do not know (or do not care to learn) how
>to set their path properly (reference the routine message traffic
>between two HF stations using a path of GATE, WIDE, WIDE!)
>
>The point is: We don't need another message in the program telling us
>what is right or wrong.  VHF users have been using GATE in their paths
>for months and ignoring the message, like the VHF bozo in the Chicago
>area using RELAY, WIDE, GATE, WIDE, WIDE (an impossible path by the
>way.)  This guy refuses to change his path, so we just budlist him.
>
>Users should learn how to set their path correctly, and more important,
>how paths REALLY operate.  This is the responsibility of the local user
>group to educate new users in proper paths, since the documentation is
>sorely lacking on this topic (one of the things that should be a seminar
>topic at the National APRS Convention!)
>
>In addition, the DosAPRS message about VHF users on the GATE should be
>removed because 1: it is ignored, 2: it is not accurate, 3: it and the
>program logic to compute and display it wastes precious memory space.
>
>Don't bother sending me mail or posting to the SIG on this topic unless
>you have an excellent understanding of digipath operations.  I have been
>working on them for almost two years and understand more than most users
>do on the subject.
>
>Henry
>N9WMM
>henryvb@dpliv.com
>
>
>Henry: What source would you recommend that a newcomer like me could
       get the most out of?

 ronald@cyberstreet.com
73 cu Ron"KD4AMS"
```

---

183. Re: [APRSSIG:4452] Re: WX display formats

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Sep 1996 23:47:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960905234441.23081C-100000@arctic>
Rendered body type: text/plain

```
On Thu, 5 Sep 1996, Ronald Kramer wrote:

> Bob where can I obtain a copy of 77a, I have been looking for it
> for the past week on TAPR upload directory but it has not shown
> up, I would like to see myself on the screen....

APRSdos REPLY/COMMENT: Sorry for the delay.  I just got a WeatherMAX unit
and was going to wait until I added the WXmax interface.  Probably be
finished in middle of next week.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

184. Re: APRS77 question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Sep 1996 23:52:31 -0400 (EDT)
To: KD1E@aol.com
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960905234852.23081D-100000@arctic>
Rendered body type: text/plain

```
I can explain it!  In order not to have to re-do the entire CONFIG file,
and since I never finished the AMTOR implementation, I re-defined that
single variable to be the indicator for the "type of WX display"
variable. (or some such new variable I needed recently)

 So if you are going back and forth betwen 77 and earlier versions, the
older versins may intermret the config file as AMTOR mode!


 On Thu, 5 Sep 1996 KD1E@aol.com wrote:

> Hi Bob
>
> I have the problem with 77 that I can't explain.  It's probably something I
> missed somehow.  When I pring up the system, a few minutes later it indicates
```

> I'm in the AMTOR mode. If I do an Alt S the FORMAT command is missing in the setup string. If I quit the system and get back in the FORMAT command is there and I can do an APRSonly command and everthing runs fine from then on. (Ecexpt my Wx symbol fades to grey, as been reported). Something evidently is changing me to the AMTOR mode. I am using a KPC-3, as I have for years. Any suggestions?
>
> Hey the Wx zero wind speed indicator (dot) really clears up the confusion. The NWS guys love it, and so do my operators. Thanks & 73 John
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

185. APRS @ ARRL Natl Conv in Peoria 13-15 Sept

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Sep 1996 00:18:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960906001057.23081I-100000@arctic>
Rendered body type: text/plain

On Thu, 5 Sep 1996, henryvb wrote essentially the following:

> It turns out that there is one "APRS" booth in Peoria for everyone APRS-related to share. Bob and Keith will be there with DOS/Win/Mac stuff and the guy who wrote the Mac mapmaking program will be there, and it looks like NIAN will be there also.
>
> NIAN folks will bring computers and an overhead display unit to show DosAPRS, along with GPS stuff, our usual show materials.

APRSdos REPLY/COMMENT: Well this is starting to look like a GREAT opportunity!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

186. part 3/4 APRS L3 (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Fri, 6 Sep 1996 01:19:11 -0500
To: aprssig@tapr.org
Message-ID: <199609060619.BAA11519@admin.inetport.com>
Rendered body type: text/plain

L3 APRS part 3/4

DIGIS.TXT 7.4c AUTOMATIC PACKET REPORTING SYSTEM DIGIPEATERS
(APRS .txt file continued::

********** WIDE-N ALL DIRECTION GENERIC DIGIPEATING! ****************
THE ULTIMATE SOLUTION FOR MOBILE POSITION REPORTING

This may be the simplest mechanism for making an order of magnitude improvement in APRS status and position reporting networks. In a WIDE-N network, each WIDE digi simply repeats ANY packet with the VIA address of WIDE-N; but ONLY ONCE. If it keeps a copy of the last 30 seconds of packets, (or at least a copy of the FCS) and compares each new packet that it hears with the LAST one that it digipeated, then it could decide NOT TO TRANSMIT it again! This would completely eliminate the multiple round-robin multiplication of packets generated when a mobile station uses the present generic path of WIDE,WIDE,WIDE. As it is now, such a 3 tier path launched in the middle of 3 WIDE digipeaters that all hear each other can generate as many as 3x3x3 or 27 duplicates in the area. If each WIDE-N only digipeated the packet once, then there would only be 3 local copies generated, and the packet would still propagate outward 3 levels in all directions in the usual manner! Since this algorithm has uses on ALL amateur packet networks needing a FLOODing mechanism for special packets of interest to everyone, I am calling it the FLOOD-N algorithm. For APRS, however, I will still refer to it as the WIDE-N algorithm.

NUMBER OF HOPS: Using the via path of WIDE-N, each DIGI that repeats the packet decrements the WIDE-SSID by one. This way, each packet carries along with it information on how many times it has bounced through the network. The user specifies how far it goes, by the initial setting of the SSID! If he sets it to WIDE-7, then the packet could be digipeated as many as seven times outward. A local commuter might select WIDE-2 to cover his area while limiting DX QRM.

NEW TNC COMMANDS REQUIRED: To make this work, there are three new TNC commands needed:

MYFlood: This command, similar to MYAlias, sets up the callsign at the digipeater to be used as the FLOOD-N callsign. In APRS networks, we will use WIDE. THIS IS FOR UI FRAMES ONLY! That plus the AGELimit below, makes it un-useable for connected frames, and for abuse.

HOPLimit: This is a SYSOP parameter that can be used to limit the maximum number of HOPS permitted in a network. Already the maximum number of hops is limited to 7, since the upper bit of the SSID is reserved for future use. However, on NON-APRS networks, some SYSOPS may feel empowered to limit the maximum number of hops to some smaller number.

AGELimit: The WIDE-N digi has to keep a copy of all digipeated packets for a brief period for comparison with new packets heard. This is the key to the WIDE-N algorithm. Every digi that hears a UI packet will digipeat it, BUT ONLY ONCE. To do this, it compares each new packet with all packets digipeated in the last X seconds. This X age-limit needs to be a variable depending on the speed of the network. If the time is too long, then the list is big, If it is too short, then there is the chance that a packet may propogate in a circle and get repeated again. My guess is that 30 seconds is a good default value for 1200 baud channels. Howie Goldstein, N2WX has improved the effeciency of this idea, by only saving and comparing the CHECKSUM of the packets, instead of the whole packet.

If ALL APRS WIDE area digipeaters changed over to the WIDE-N code, we would HAVE THE ULTIMATE GENERIC MOBILE GPS NETWORK! Metropolitan area commuters could set their digi paths to WIDE-2 and Mobiles on extended trips within a 200 mile radius of home could be tracked with a path of WIDE-5, without fear of clogging the network! This WIDE-N algorithm is so powerful that it could even be added to ALL TNC's as a FLOOD-N mode. It would only work on UI frames and would default to the generic callsign of FLOOD. That way, on ANY packet frequency, a UI frame launched into the air, could be seen by EVERYONE!

-----TexNet comment: I will have to think about this one carefully, first to make sure I understand it 100.00% and also to determine if I can successfully implement all of it without storing and comparing lots of buffers, which is otherwise deterimental to the functioning of the node. Also, I am unsure how the FCS compare would work for us if the packet is modified from one repeat to the next. I don't see how it could. The first two parameters are no problem.

Or if this is a digipeat-only issue, it may be irrelevant to nodes, except that it may be necessary also for the node to act as WIDE-N digi locally. I am still thinking about that issue, Maybe Bob B. can help here.

The file refers to ssid-s 7 and below, implying that 8-15 are reserved by something somewhere. Unless this is an APRS limit, I don't know what it is referring to. I've been using all 16 SSID's for a dozen years now, as far as I know they work as advertised.

LEVEL FOUR and TheNET CONSIDERATIONS:

----TexNet comment: what this text file calls level four in the arena of Thenet and its compatibles is generally considered layer three in the TexNet implementation. Other than the syntax, they are performing roughly equivalent functions, and there are variations in the methods and commands. TexNet does have imbedded applications, such as the disk based servers, the debugger, etc, and although not documented as such internally, they are layer 7 entities. Mostly this is all syntax gobbledygook for the critical reader.-------

Since NODES are so much smarter than digipeating, the ultimate solution is to have the NODES do all UI frame routing. The APRS station simply sends his UI frame TO APRS VIA HOME; Any NODE hearing that transmission that has knowledge of the route to HOME, will send the single packet via the NODE network (internode, level 4) to the HOME node! When it arrives at the HOME node, it is transmitted once as a UI frame. With this arrangement, a mobile only has to specify his one intended destination, no matter where he travels!

------TexNet comment: This is the basic method I would like to implement, but as explained earlier I don't have a real friendly way to specify "HOME" in a way that it will relate to some

destination network node without making it cryptic to the user.

The G8BPQ TheNET code for the DataEngine includes a DIGIon command that can restrict Digipeating to UI frames only. This is very useful, in that it allows SYSOPS to leave DIGI ON without inviting LEVEL-3 connects to use it which is detrimental to normal level-4 operation. The problem, however, is that the generic APRS RELAY and WIDE aliases cannot be used on a NODE, since the digipeat ALIAS is the same as the NODE alias, and you cannot operate more than one NODE with the same ALIAS on the same frequency or even in the same network! I got a call yesterday, 22 Nov 95 that G8BPQ has now agreed to add two more UI digipeater aliases that are not tied to any of the node functions.

-----TexNet comment: It MIGHT be possible in our situation to either specify just the first 1-6 characters and hope the 7th is non-ambiguous, or to actually use some fixed name, like "HOME", literally as a default, and it would be directed in the network as defined as a default in the node eprom. Comments? ----------------

DIGI/NODE COMPATIBILITY: Since the user should not have to change his digi path as he drives from one area to another, he should be able to specify a path that is compatible with both nodes and digipeaters. This is easily accomplished by assuming that the LAST field in an UNPROTO digi list is the HOME NODE and should be the ultimate destination for the UI frame through any level 4 network. Any and all preceeding fields are assumed to be DIGI's only. With this arrangement, the user could use an UNPROTO path of APRS VIA WIDE, HOME so that any generic WIDE digipeaters would repeat his position to their local area as would any WIDE NODES in the usual digi fashion. Only the node that hears the direct packet would also forward it through the network at level 4 to the HOME NODE. If only one field is included in the digipeater string, it would be interpreted as both a digi and a HOME destination without any difficulty. Digi's and NODEs would digipeat it, and nodes (hearing it direct) would forward it at level-4. It is important that NODES hearing digipeated UI frames from other digis do NOT enter the packet into the network, to eliminate duplication. Only the ones hearing the direct signal should be repsonsible for doing the level 4 routing..

------TexNet comment: The idea of mobiles transmitting the same address string as they drive from node to node is probably just fine. The idea of sending the direct path only downline on the network assumes that the network node site will unconditionally be able to hear mobiles, and they won't need a relay. Possibly I could intrepret this to mean the direct, OR the repeated copy, but then I have to keep track of duplications, and I sure don't want to put dupes onto a loaded network, memory safety valve or not. Comments??---------------------

EXAMPLE: A typical mobile just wanting to keep his spouse informed of his whereabouts might want to just use the UNPROTO path of APRS VIA HOME. Then his UI frames will be digipeated by the local HOME node or digi and will also be routed back to HOME by all NET-NODES along his travels. If he also wants to be seen by most HAMS in the areas of his travels, then he sets his path to APRS VIA WIDE,HOME. If he travels through a region that has both DIGIs and NODES, he might choose APRS VIA WIDE,WIDE,HOME. This way any areas with digis would digipeat via WIDE,WIDE and if he gets to an area with nodes which are aware of the path to HOME, then they will forward his packet there.

Finally, since most regional area Tracking networks are dedicated to APRS, the node should also permit the SYSOP to turn off other level 4 routing. Without this feature, such a network could be swamped if all of the BBS and other CONNECTED protocol users began to use it, and the original purpose of the network would be defeated.

------TexNet comment: TexNet has a provision for a sysop-controlled network-wide alert mode. When enabled, new connects are greeted with an extra message on the screen that the network is handling emergency traffic at node: xxxxxxx and to disconnect if you aren't participating, also the behavior of the network idle-user-timeout is inverted, and the PMS will deliver automatically to an addressee if he is on the server. Other things could be tied to it if necessary. My logic is based on the assumption that TexNet APRS support would exist on an existing network common with other applications, but ought to be configureable to accomodate the priorities of a parallel and dedicated APRS network. Comments?---------------

Still, most of these APRS support ideas could be included in all NODES so that a minimum of APRS tracking could be supported by ALL networks on all frequencies, especially where there is not yet a dedicated APRS TRACKING NETWORK. I think there are other undeveloped applications for shipping UI frames through ALL networks which have not yet been explored. The capability should be there, in any case, so that experimentation can proceed. Time will tell. These few paragraphs were primarily written to the NODE CODE writers such as John G8BPQ and Mr. Roberts of X1-J. But are included here in general distribution for all to read.

-------------end of that excersize------------

Continued in part 4/4

73 de Bob
Robert Morgan
WB5AOH
Austin, Texas
morganb@admin.inetport.com

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187. part 4/4 APRS L3 (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Fri, 6 Sep 1996 01:19:18 -0500
To: aprssig@tapr.org
Message-ID: <199609060619.BAA11523@admin.inetport.com>
Rendered body type: text/plain

L3 APRS part 4/4

Now for some of my general questions and comments-
First, I need to know what the APRS I-field length limits are.

Second, I need to discuss routing. I presume it would recognize that a UI addressed to APRS needed to be processed. It would possibly have some addressing that needs to be acted on. It possibly would have been received without all of the "repeat" bits filled in, and under the APRS digipeating schemes, these may need to be processed. Then that brings up the question of duplications and whether or not to repeat them and how to filter them if so. I detest the idea of holding on to copies of packets already processed. The internal structure of the whole program is that it analyzes one packet at a time, and completes all actions connected with that packet, and then disposes of it and works on the next one in the receive queue. Any packets already worked on that generated transmissions are already locked away in a transmit queue for a radio port, and essentially unretriveable. Perhaps I could hold onto the FCS's of recent packets, as discussion in the above text file comments referred to, but then I would have to acquire the FCS, and presently I am pitching it, not buffering it up for analysis. I would be very tempted to only use one byte of it, not both, and that probably ought to be useable for the purpose of the last 5 or 10 packets or so. But I am still in doubt that the FCS is sufficient, because changing the repeated-bits in the addresses will change the FCS, so the whole idea may be useless. (One possibility is to COMPUTE, under control of the CPU, an independent checksum of just the I-field, instead of juggling the FCS from the SIO/SCC which of course sees the whole packet including addresses. That one only would use CPU computing time resources, not gobs of memory, and might be able to compare possibly a dozen previous packets, and would be lots more palatable, IF it didn't burn too much CPU time). Otherwise that means we might have to make a decision to repeat on some condition of completion of a certain part of the repeat process. That might be on the FIRST or the LAST, or some intermediate, or the Next-to-last, or something. Probably would have to be optional for each node, not just hardcoded. Suggestions??

Next issue is the form of the destination specification. It could be a default for each node. If addressed to NWS instead of APRS, it might assume a different default known to that node to be the node used by the particular NWS office, and general APRS might go elsewhere on a separate default. To make it work at the destination, the rebroadcast of a NWS report could still be to APRS. Also, since TexNet can specify up to 4 radio ports per node, one might want to specify some port info, maybe as a destination "SSID" like APRS-1 for port 1 for instance. It would probably NOT change the SSID of the destination since it would be regenerated

from a parameter string at the destination node, so it would be sent just to APRS.
(In most TexNet nodes, port 1 is the usual 2M user radio port).

Suppose one wants to direct APRS to some particular node, which is the general case of interest anyway. This sort of implies that a digi field be used to specify a destination node. That address would presumeably be the one FOLLOWING whatever address triggered the source node to process the packet as input. An address field is any 6 characters and an SSID, but a TexNet nodename happens to be any 7 unique characters, alphanumeric uppercase, so already we have a problem. There is another method, but it is not real user friendly. TexNet node NAMES are translated into 8-bit integers or nodenumbers, which are unique assignments within the network, and are usually seen in the routing tables to users as 3 digit decimal numbers. For instance, AUSTIN is 009, LUBBOCK is 014, and so forth. The idea I have is some field like T02014 and it is pretty cryptic, and runs something like this: the first 02 means network #02 (the network number within the whole planet Earth assigned to Texas-Okla-Ark-Mo is net #2, the GL-NET in Ind-Mich is #05, etc), and then the nodenumber 014 means Lubbock. I guess that port number info could be specified as an SSID, (sort of conflicts an earlier comment above) so to specify port 1 at Lubbock, one could specify T02014-1. Is that cryptic and unfriendly enough? Try to remember all of that while driving down the road pecking away on the laptop. Any better ideas? To make this a little more complex, I need to apply this same or similar trigger method to the modification I need to specify a TCP-IP connect, and that problem has to be worked on at the same time and be compatible. I have to completely specify THOSE connects in the first connect command to the network by the user, That process doesn't get a chance to use a command prompt. So it gets a little complex, and I am open to some suggestions. (Back in the days when we had codespace, our philosophy was to make the network easy to use and make the node CPU do all the nasty work for the user, which made the programmer have to figure it all out in advance).

There may be cases it may be desired to "broadcast" to more than one destination node. TexNet does have an inherent internal broadcast mechanism, and it also being used for external broadcast of severe-weather alerts and EOC-type warnings, but those things generate LOTS of trunk packets that fan out in all directions, and may duplicate if the network contains loops. We use them only for internal routing controls and for emergency alerting to the amateur community. When these broadcasts occur, sometimes the network is partially paralyzed for a few seconds. Unless they are triggered by NWS severe WX files, they are under SYSOP permission only. Comments??

There are internal partition capabilities to limit the geographical distribution of these alert broadcasts, for instance we don't send weather alerts across the Tex-Okla border (even when our problematic red-river trunk is operating).

I presume that under some if not all circumstances, it might be desireable to locally repeat the inbound APRS packet as any other WIDE or WIDE-N digi might do, in addition to forwarding it downline. This could be a configureable option. (discussed above also) Comments?

A little bit of info on parameters and options. TexNet is primarily an EPROM parameter system, but some parameters are adjustable remotely, either with commands like a remote route change, or by stuffing bytes into RAM with the remote debugger. We issue a standard image for EPROMS, which an administrator patches to make a particular image for a particular node, and the callsign, nodename, nodenumber, digi parameters, and the L2 parameters (T1, T2, T3, N2, TXD, DW, etc) get burned into the particular EPROM. Some of them like the L2 parameters, load into RAM on a reset and are changeable if one carefully uses the remote debugger, and we do so from time to time to trim performance problems. The route tables are built dynamically to match the network

as it exists at any given time (they are added/modified, but not deleted or timed-out) and also changeable by command, which sometimes take the form of master route files that are uploaded. The general intent is that the network should come up by itself and init itself in a useful manner, and that remote adjustments are limited to performance enhancing tweaks.

TexNet is inherently a network that is designed to a given area and given set of sites, and is of course expandable, and we in our area are still expanding territory. It is NOT given to daily expanding and contracting with propagation, although we have a few trunks that are propagation dependant. The route tables don't follow propagation by shrinking up as nodes become unreachable. The design assumes that they are available all the time. If the network is broken, you of course get a trunk-down error message from the node at which the break has occured.
(If you are CONNECTED. The UI would have NO mechanism to return errors).
More of the parameters are in Eprom, and less are in Ram, and all those that are in RAM are initialized from Eprom. There is no RAM configuration needing to be maintained, but it is patchable with remote commands or memory changes, which are not preserved through resets at the present time. This has been an ongoing debate.
Possibly in a few later revisions, after the effectiveness of some RAM data-preservation routines are field proven, we might opt for some of these parameters. The present RAM data-preservation routine has been observed to have corrupted a few times, and would need improvement. This may be undertaken again with the availability of the new TAPR TNC-xx (name is under discussion now) which includes a nonvolatile writeable memory device.

APRS support will generate more parameters needing to be set.
What should they be, and which should be EPROM and which should be RAM based, and how set, or any made dynamic?
Comments?

Since TexNet is based on 9600b trunks, I will also field questions on that subject, and TexNet inplements modems in somewhat different formats (usually incompatible) than others that are available, for instance the G3RUH. With the exception of the notorious trunk across the Red River, these trunks give good performance year round 24 hours per day, over paths of 30 to 60 miles long.
If one wants to use existing modems of different design, they of course can be connected to the hardware and will function, however it will NOT work to mix different types of modems on the AIR.
For instance the Paccomm SPRINT/SPIRIT has modem jumper settings compatible with the TexNet modem format.

As I previously noted, I am working without a whole lot of available code-space on some (not all) of the available platforms. I would like to come to some consensus for a simple eficcient method that will address most of the immediate concerns, at least on the first cut. Some of the bells and whistles will have to wait or not happen at all. But it is hard to predict in advance which will be hard and which will be easy, so I wanted to throw all of it on the table and look at it. (I would rather avoid storing packets for comparison of duplicates, THAT one does use lots of resources).
I will apologize in advance for the bandwidth this file uses, and I don't think it will happen too often (Please reply in small chunks, one issue or two at a time).

Part 4/4 END.

73 de Bob
Robert Morgan
WB5AOH
Austin, Texas
morganb@admin.inetport.com

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188. part 2/4 APRS L3 (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Fri, 6 Sep 1996 01:19:05 -0500
To: aprssig@tapr.org
Message-ID: <199609060619.BAA11516@admin.inetport.com>
Rendered body type: text/plain

L3 APRS part 2/4

Next, I am going to insert selected paragraphs of an APRS distribution text file on Digi's and reply to it as I would to the e-mails.

Please comment here too.

DIGIS.TXT 7.4c AUTOMATIC PACKET REPORTING SYSTEM DIGIPEATERS

To satisfy the objective of a distributed network without dependence on specific nodes, APRS stations are designed to begin operating without any prior knowledge of the network. This is done by having all APRS digipeaters and home stations initialized to act as a digipeater with the alias of RELAY and to send all UI frames via the UNPROTO path of RELAY. With this form of generic digipeating (RELAY), a mobile, or new station does not have to know anything about the network in advance in order to be seen by adjacent nodes. After 10 minutes and his map begins to show the location of all stations and digipeaters on frequency, he can then customize his outgoing Unproto path to specific digipeaters to cover his intended area without as much QRM.

-------TexNet comment: The node is eprom based, and the calls, aliases and most parameters will be determined (at network node design time) and fixed in the eprom. They should be well planned, and it is assumed that the node will be in an advantageous fixed location.-------

CAUTION:------snip------

It is important in any mature APRS network that FIXED stations should avoid using the generic RELAY addressing. Although mobiles should usually begin their path with RELAY,WIDE, the path of RELAY should rarely be used after the first hop, and never after a WIDE.------snip-------

Although digipeating is not good practice for AX.25 level 2 connections, it is ideal for APRS operation using UI frames only. All along the east coast we have more than a dozen WIDE area DIGI's on the frequency of 145.79 acting as a backbone for mobile position reporting. The low duty cycle of this mode, also permits Keyboard QSO's and other UI frame applications. Even Personal mail boxes are welcome on the frequency, since mail is posted at keyboard rates and is NOT read back by radio. Users are NOT welcome to READ PBBS mail on the frequency. Other CONNECTED mode operation of BBS's, mail forwarding, file transfers, TCP-IP and DX clusters are discouraged.

----For TexNet, it should be feasible to define a radio port to not permit connected mode operations by application, meaning no network access, no conf bridges, no PMS, etc. My only question at this point is if/how we would permit a weather spotter to initiatite and maintain a connected mode QSO with an EOC or NWS net. Or is this a consideration? And maybe another idea MIGHT be to create a regional network-level NWS kbd conference bridge, and permit access only to it and no other connects on the APRS port. Also I need to research my code to see if the existing mechanism operates on both source and destination ends of a connect.----------------------------------

APRS DIGIPEATERS: In addition to all the home station RELAYS, additional APRS RELAY digipeaters can be installed where ever needed to provide solid mobile coverage on all major access routes into your city. These sites provide the first hop (via RELAY) for all mobiles. Next, a few well elevated and WIDEly separated digipeaters should be installed which have not only the RELAY alias, but also a WIDE alias. These WIDE sites link to other cities and provide a backbone for wide area coverage.

WIDE DIGIPEATING: Since these WIDE area digipeaters are located at excellent locations, they should not only provide the WIDE backbone function for the long-haul, but should also have the RELAY alias as well for nearby mobiles and new stations. Many recent TNCs can be set up to digipeat either of these generic RELAY/WIDE packets. The new PacComm TNC's can support up to 4 aliases!. Set MYAlias to WIDE and set one of the other TNC functional callsigns to RELAY (such as MYnode, or MYhost, etc). If you use the KPC-3 and the MYnode call, be sure to set USERS to 1 and NUMNODES to 1. If your TNC does not have dual aliases, AND yours is the only WIDE around, you can temporarily make its MYcall be WIDE and its MYalias be RELAY, but be sure to put the FCC callsign in the BText to keep it legal. You can also have one other DIGI with the opposite MYcall RELAY and MYalias WIDE without confusion. These WIDE/ RELAY backbone Digi's should be spaced several tens of miles apart depending on topology so that they are as widely separated while still being able to hit their adjacent other WIDE digi's. All mobiles then can set their UNPROTO path to APRS VIA RELAY,WIDE and it will not matter whether they are near a DIGI or someone's home station to be picked up by the network.

------TexNet comment: The callsign structure of the code lends itself to addition of additional digi addresses, and at code-compile time it would be feasible to provide 2 or more digi aliases to be programemd for whatever the administrator wanted to burn into them. That one I think is almost a no-brainer in the code. I can imagine that there are a few spare control bits that could be used to flag some new-to-be-written code hooks to also cause these packets to be transferred over the network, as well as repeated on freq. also to control whether connected mode or just UI's are to be repeated. ---

Even if these WIDE/RELAY backbone nodes are 30 to 50 miles apart, as long as every home station and local RELAY digipeater can hit at least one WIDE, then the mobile path of RELAY,WIDE can cover as far as 100 miles! Wider ranging mobiles can use the RELAY,WIDE,WIDE path without causing too much QRM. Yes, RELAY,WIDE,WIDE should NEVER be used by a home station, but since a mobile can rarely, if ever, hit more than 1 digi the first time, the number of repeats is not much worse than a typical home station via WIDE,WIDE.

CAUTION:---------snipped lots------------

DEDICATED WIDE AREA APRS DIGIPEATER SET UP

To set up a WIDE area APRS digi, simply connect a TNC to a radio, and put it as high as you can get it. Set the following minimum commands:

```
cmd:   MY W3XYZ-x                 (the digipeater call and SSID)
       MYA WIDE                   (this makes it digipeat WIDE packets)
       MYN RELAY                  (This works on KPC-3s as a second alias
       MYG RELAY                  (on PK-12)
       UNPROTO APRS VIA WIDE,WIDE,DIGI3...     (so the whole net sees it)
       B E 60                     (Sets Beacon to once every 10 minutes)

       BT !DDMM.mmN/DDDMM.mmW#PHG5360/WIDE-RELAY...(identifying comments)
            |         |      | | ||||  |___|_ makes station show up green
            |         |      | | ||||________ Omni (Direction of max gain)
            |         |      | | |||_________ Ant gain in dB
            |         |      | | ||__________ Height = log2(HAAT/10)
           LAT      LONG     | | |___________ Power = SQR(P)
                             | |_____________ Power-Height-Gain PHG indicator
                             |_______________ # is symbol for digipeater
```

As you can see by the integers in the POWER-HEIGHT-GAIN (PHG) string, there are only 9 plus 0 possible values for each of these fields as follows:
----snip-----

----TexNet comment: Probably all feasible, and a secondary periodic beacon string will have to be defined to resemble the example. I presume it can go into eprom, since we are assuming a fixed node site?? Now for a dumb question on my part: if we had some live data acq (wx sta, etc) on node-site, would that data go into this frame also? Or a different frame? ----------------------------

HEIGHT ABOVE AVERAGE TERRAIN: -----n/a----
NOTE ABOUT POWER LEVELS: -----n/a----

X1J DIGIPEATERS: You may set up an X1J node to act as a generic WIDE area APRS digi, depending on whether the ALIAS callsigns are not already in use. The X1J permits 5 callsigns. The first two are the NODE callsign and the NODE alias. These pertain to level-4 NODE operation and can NEVER be made WIDE or you will LOCK-UP the network. The next three ALIASES are for a BBS, DXCLUSTER or HOST mode operation. By enabling two of these extra aliases to WIDE and RELAY, then the node will digipeat APRS UI frames as long as the following commands are also performed:

```
   PARM / 23 1   Digipeat enable  (info provided by WA4HEI 906 341-5718)
   MODE / 14 1   Extra alias monitoring enable
   MODE / 17 3   Refuse digipeated L2 node uplinks & downlinks
```

------TexNet comment: As above, I think it practicable to provide extra digi aliases, and I think that I could specify their behavior.---

OPERATIONS WITH RELAY AND WIDE:

Although the GENERIC WIDE/RELAY digipeating works well to get an APRS net going, once you have more than two WIDES, the generic calls should be avoided by all fixed stations to minimize unnecessary duplicates and collisions. Using SPECIFIC callsigns significantly reduces QRM.

While building a new network, APRS has a special SETUP-WIDE command that permits some well situated stations to change their default RELAY alias to WIDE. This command should be used with caution and with the agreement of all stations on the net. Too many WIDE's, too close together causes too much QRM. When you use the SETUP-WIDE command, the word WIDE will be installed in your POSIT comment field. This signals all stations to display your station symbol as GREEN (which indicates a WIDE alias). This color will be lost, however, if you have a weather station hooked up to COM2, since it re-writes the POSIT string every few minutes. Also, every time you switch from HF to VHF or the reverse, your ALIAS is re-written to RELAY or ECHO.

SEE README.HF for setting up your UNPROTO path for HF and HF/VHF gateways..
--------TexNet comment: appears to be irrelevant to the node----------

73 de Bob
Robert Morgan
WB5AOH
Austin, Texas
morganb@admin.inetport.com

---

189. The Cross Country Trip, an APRS Adventure!

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 6 Sep 96 04:04:33 -0400
To: <aprssig@tapr.org>, "Carol Dimse" <carold@cmhhospital.org>, <danasclan@aol.com>
Message-ID: <199609060801.EAA02608@bridge.net>
Rendered body type: text/plain

Hello gang...

Well, it's almost time for the Digital Communication Conference, and again I will be driving. An unusual drive, since I will go, quite literally, from one corner of the country to the other (Key West to Seattle). I will be running APRS on both HF and VHF all the way. The van also has a second HF rig for voice, a station for normal packet, and a dual band rig for VHF/UHF voice. Then there are the two computers (connected via an AppleTalk network), CD ROM drive, cell phone, audio CD changer...you get the idea. After the conference I'll head south down the coast to Southern Cal to visit friends and family, and finally take I-8/10 home in a mad rush to get back before I have to go back to work. Here is the itinerary...

Fri 9/13 Miami, Orlando, Atlanta
Sat 9/14 Nashville, St. Louis, Kansas City
Sun 9/15 Omaha. Souix Falls
Mon 9/16 Badlands Nat'l Park, Mt Rushmore
Tue 9/17, Wed 9/18 Yellowstone Nat'l Park
Thu 9/19 to Sun 9/22 Seattle
Sun 9/22 Olympic Nat'l Park, Port Angeles
Mon 9/23 Ho Rain Forest, Portland, Redwood Nat'l Park
Tue 9/24 Golden Gate
Wed 9/25 Carmel
Thu 9/26 San Luis Obisbo, Santa Barbara, Ventura (Mom's house)
Fri 9/27 to Sun 9/29 Family stuff!
Mon 9/30 LA
Tue 10/1 San Diego
Wed 10/2 Tuscon, El Paso
Thu 10/3 San Antonio, Houston
Fri 10/4 New Orleans, Mobile, Tallahassee, Orlando
Sat 10/5 Home sweet home.

All this is subject to change, as for most of it I'm just out having a good time sightseeing. I'd like to hear from folks along the route, especially about favored voice repeaters, packet channels, and non-standard APRS 2 meter frequencies. I'd also enjoy visiting with APRS'ers along the way, so let me know if you are interested.

I'll have a computer in view while I'm driving, and of course, MacAPRS speaks incoming messages to me, so I'll get your mail. The driving comes first, so I may not be able to answer you right away! And whenever I get to a phone I'll be checking my email here. Also, there will be a javAPRS page displaying the trip (not up yet, but before I leave), with archived data as I get a chance to upload it, and live data from Dale's

server...hopefully at least some of my packets will get through a GATE in
Atlanta, and the server has a special feature that holds onto a few
packets from KO4HD-9 longer than others!

http://wa4dsy-3.wa4dsy.radio.org/Xaprs/trip.html

Hope to see you out there!

Steve KO4HD

---

190. Re: [APRSSIG:4429] Re: WIDE,WIDE,WIDE?

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Fri, 06 Sep 1996 07:07:41 -0700
To: aprssig@tapr.org
Message-ID: <3230302D.580@worldnet.att.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Kevin Heyboer wrote:
> >
> > William Nolle wrote:H> Oh come on, Bill, wake up.  Texas is like Florida, flat as a
>

 OK!!! How about the Condo dweller who can"t have an antenna and is
working with a small indoor antenna.  I'm 13 elements might crowd the
livingroom!!!

Bud (WB4LTF)
```

---

191. Re: [APRSSIG:4463] part 2/4 APRS L3 (TexNet)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Sep 1996 10:34:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960906101144.29016B-100000@arctic>
Rendered body type: text/plain

```
On Fri, 6 Sep 1996, Robert B. Morgan wrote about his mods to support APRS
UI frames in his TEXNET code:

> ----For TexNet, it should be feasible to define a radio port to
>     not permit connected mode operations based on application...
>     ... should we permit a weather spotter to have a connect QSO with
>     an EOC or NWS net?

*** REPLY:  Good question.  If TexNet operates on the principal of
user freqs separate from link freqs, then a complete network can be
dedicated to WX and emergency services alone, and the user freqs can be
all different.  And then I think that user keyboard connects can and
should be supported.  This is along the idea of WX is a fixed site kinda
thing. But as soon as you want to track mobiles, you are back to wanting
a single freq...  But if only user end packets are on the freq, without
the duplicity of digipeates (beacuse the nodes are backboning all of the
DX trafic, then I think user keyboard node connects could also be
supported on the same freq...

> ------TexNet comment:  The callsign structure of the code lends itself
>    to addition of additional digi addresses at code-compile time.

*** REPLY:  PacComm has provided for 4 in their TNC's, tho 2 is just fine
>
>        BT !DDMM.mmN/DDDMM.mmW#PHG5360/WIDE-RELAY...(identifying comments)
>
> ----TexNet comment:  The above POSITION BEACON is feasible, and a
>     secondary periodic beacon string will have to be defined for it.
>     I presume it can go into eprom, since we are assuming a fixed
>     node site??  Now for a dumb question on my part:  if we had some
>     live data acq (wx sta, etc) on node-site, would that data go into this
>     frame also?   Or a different frame? -----------------------------

APRSdos REPLY/COMMENT: Fixed in EPROM is fine. the position never changes.
Any additional BEACON will also be captured by all APRS stations, so you
can independently sned out other live packets too.  If it is raw WX in the
U-II format, then APRS will capture that WX data and re-assemble your
POSIT/WX report on the receive end.  If it is ANY OTHER packet not
otherwise recognized as an APRS format, then it will be captured and will
overwrite the single line display for that station on my LATEST-LIST.

In otherwords, othern than stn-to-stn messages and bulletins, APRS only
```

captures and retains TWO packets per station. One is the POSIT (which can contain WX) and the other is ANYTHING ELSE. Oh, there are two more. An ID packet is retained if it is the first packet heard, but ignored all other times, and an APRS TELEMETRY packet is separately captured and displayed on the TELEMETRY page. Here is where you can reports lots of stuff going on at the node site. 5 Anaolg values and 8 bits of status...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

192. Re: [APRSSIG:4461] part 3/4 APRS L3 (TexNet)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Sep 1996 11:22:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960906103549.29016C-100000@arctic>
Rendered body type: text/plain

On Fri, 6 Sep 1996, Robert B. Morgan continued to write about the WIDE-N algorithm and other aspects for consideration in TexNet:

> -----TexNet comment: I will have to think about this one carefully, of the node. Also, I am unsure how the FCS compare would work for us if the packet is modified from one repeat to the next.

*** APR REPLY: True, you would have to do a CHECKSUM on only the INFO part of the packet, since the DIGI fields will be changing.

> The file refers to ssid-s 7 and below, implying that 8-15 are reserved by something somewhere...

*** APR REPLY: The 4th bit indicates "directional digipeating". If it is set, then the 1st and 2nd bits indicate one of four directions N, S, E, or West and the 3rd bit indicates DX or not. DX means to forward the packet in the given direction one extra hop at the end... For this to work, each digi (or node) has 4 preset paths for each cardinal direction. It selects one of those unproto paths to add to the packet. IF DX bit is set, then it adds a WIDE at the end.

> APR DESCRIPTION of LEVEL 3/4 ROUTING: ....is to have the NODES do all UI frame routing. The APRS station simply sends his UI frame TO APRS VIA HOME; Any NODE hearing that transmission that has knowledge of the route to HOME, will send the single packet via the NODE network to the HOME node!
>
> ------TexNet comment: This is the basic method I would like to implement, but as explained earlier I don't have a real friendly way to specify "HOME" in a way that it will relate to some destination network node without making it cryptic to the user.

*** APR REPLY: The word "HOME" is the network name of the NODE closest to his house or wherever he wants his reports to go. If it is DALLAS, and there is a node named DALLAS then he would send his UI packets TO APRS VIA DALLAS...

> ------TexNet comment: The idea of mobiles transmitting the same address string as they drive from node to node is probably just fine. The idea of sending the direct path only downline on the network assumes that the network node site will unconditionally be able to hear mobiles, and they won't need a relay.

APR COMMENT: I think direct only, or keep a copy of the LAST heard packet and compare only to that one. When you hear the direct and a digipeated packet, they almost 100% always occur back to back because a digi packet gets priority...

> ------TexNet comment: TexNet has a provision for a sysop-controlled network-wide alert mode. When enabled, new connects are greeted with an extra message on the screen that the network is handling emergency traffic at node: xxxxxxx and to disconnect if you aren't participating, also the behavior of the network idle-user-timeout is inverted, and the PMS will deliver automatically to an addressee if he is on the server. Other things could be tied to it if necessary. My logic is based on the assumption that TexNet APRS support would exist on an existing network common with other applications, but ought to be configureable to accomodate the priorities of a parallel and dedicated APRS network. Comments?---------------
>

APRS REPLY/COMMENT: In my humble opinion, I think ALL networks might
consider handling a minimum level of UI position reports...???

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

193. Re: [APRSSIG:4462] part 4/4 APRS L3 (TexNet)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Sep 1996 11:53:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960906112316.29016D-100000@arctic>
Rendered body type: text/plain

```
On Fri, 6 Sep 1996, Robert B. Morgan wrote a final whole mouthfull
about APRS in TexNet:

> First, I need to know what the APRS I-field length limits are.

*** APR REPLY: Maximum length of the data field is currently on the order
of 80 limited by the current (and not likely to change) display pages
of the DOS implementation..   lemme check for sure...

> Second, I need to discuss routing.  I presume it would
> recognize that a UI addressed to APRS needed to be processed.

*** APR REPLY:  Currently there are lots of acceptible TO addresses.
THese have been expanded so that "subnets" of activity can take place on
the same frequency independent of each other.  In this case, it could be
used to indicate that a person desires to have his packets go via TEXNET
by addressing them there.  Or you could accept several such as SKYWRN,
APRS, SPCL, etc and even use these flags to slightly modify NODE handling
of the packet.

> schemes, these may need to be processed.  Then that brings up the
> question of duplications and whether or not to repeat them
> and how to filter them if so.  I detest the idea of holding
> on to copies of packets already processed. ...   (One possibility is to
> COMPUTE an independent checksum of just the I-field, instead
> of juggling the FCS from the SIO/SCC

*** APR REPLY:  Yes, simple checksum of I-field only...
>
> Next issue is the form of the destination specification.
> It could be a default for each node.

*** APR REPLY:  No, user always specifies the ultimate destination...
usualy the NODE name closest to where he wants his reports to go..

> There may be cases it may be desired to "broadcast" to more
> than one destination node....

*** APR REPLY:  This is needed and is a challenge.  I think it can be
simplified to just a few possibilities:
   1) PRESENT NODE ( I think that all nodes should digi the original
      packet to others in the local area as a matter of routine)
   2) LOCAL AREA:  It is broadcast to all adjacent NODES (one hop)
   3) WIDE AREA:   It is broadcast out two hops in all directions
   4) EMERGENCY:   THis is only possible via SYSOP.  GOes everywhere
Anything beyond the WIDE AREA should use a directed packet to a given
node, such as the state EOC or something like that...

> I presume that under some if not all circumstances, it might
> be desireable to locally repeat the inbound APRS packet as any
> other WIDE or WIDE-N digi might do...

*** APR REPLY:  Yes, I agree..
>
> A little bit of info on parameters and options.  TexNet
> is primarily an EPROM parameter system...  WHich parameters need to be
> remotely configurable?

*** APR REPLY:  I see no reason why most are not permanent... (worst case)
but some may need to be remote..

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

194. Re: [APRSSIG:4464] The Cross Country Trip, an APRS Adventure!

From: George Salinas <saltair@hargray.com>
Date: Fri, 06 Sep 1996 12:15:21 -0400
To: aprssig@tapr.org
Message-ID: <32304E19.1A69@hargray.com>
Rendered body type: text/plain

Steve Dimse wrote:
>
> Hello gang...
>
> Well, it's almost time for the Digital Communication Conference, and
> again I will be driving. An unusual drive, since I will go, quite
> literally, from one corner of the country to the other (Key West to
> Seattle). I will be running APRS on both HF and VHF all the way. The van
> also has a second HF rig for voice, a station for normal packet, and a
> dual band rig for VHF/UHF voice. Then there are the two computers
> (connected via an AppleTalk network), CD ROM drive, cell phone, audio CD
> changer...you get the idea. After the conference I'll head south down the
> coast to Southern Cal to visit friends and family, and finally take
> I-8/10 home in a mad rush to get back before I have to go back to work.
> Here is the itinerary...
>
> Fri 9/13 Miami, Orlando, Atlanta
> Sat 9/14 Nashville, St. Louis, Kansas City
> Sun 9/15 Omaha. Souix Falls
> Mon 9/16 Badlands Nat'l Park, Mt Rushmore
> Tue 9/17, Wed 9/18 Yellowstone Nat'l Park
> Thu 9/19 to Sun 9/22 Seattle
> Sun 9/22 Olympic Nat'l Park, Port Angeles
> Mon 9/23 Ho Rain Forest, Portland, Redwood Nat'l Park
> Tue 9/24 Golden Gate
> Wed 9/25 Carmel
> Thu 9/26 San Luis Obisbo, Santa Barbara, Ventura (Mom's house)
> Fri 9/27 to Sun 9/29 Family stuff!
> Mon 9/30 LA
> Tue 10/1 San Diego
> Wed 10/2 Tuscon, El Paso
> Thu 10/3 San Antonio, Houston
> Fri 10/4 New Orleans, Mobile, Tallahassee, Orlando
> Sat 10/5 Home sweet home.
>
> All this is subject to change, as for most of it I'm just out having a
> good time sightseeing. I'd like to hear from folks along the route,
> especially about favored voice repeaters, packet channels, and
> non-standard APRS 2 meter frequencies. I'd also enjoy visiting with
> APRS'ers along the way, so let me know if you are interested.
>
> I'll have a computer in view while I'm driving, and of course, MacAPRS
> speaks incoming messages to me, so I'll get your mail. The driving comes
> first, so I may not be able to answer you right away! And whenever I get
> to a phone I'll be checking my email here. Also, there will be a javAPRS
> page displaying the trip (not up yet, but before I leave), with archived
> data as I get a chance to upload it, and live data from Dale's
> server...hopefully at least some of my packets will get through a GATE in
> Atlanta, and the server has a special feature that holds onto a few
> packets from KO4HD-9 longer than others!
>
> http://wa4dsy-3.wa4dsy.radio.org/Xaprs/trip.html
>
> Hope to see you out there!
>
> Steve KO4HD

It looks like you have everything pretty well covered Steve. The
itinerary looks swell also.

OOps what about 6 meters? How about communications with the truckers
for local road conditions? Ha! enjoy.

73, KD4FJ George.

195. Re: [APRSSIG:4465] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Fri, 06 Sep 1996 12:08:41 -0700
To: aprssig@tapr.org
Message-ID: <323076B9.7C69@cris.com>
Rendered body type: text/plain

B.G. Gotshall wrote:
>
> William Nolle wrote:
> >
> > Kevin Heyboer wrote:
> > >
> > > William Nolle wrote:H> Oh come on, Bill, wake up. Texas is like Florida, flat as a
> >
>
> OK!!! How about the Condo dweller who can"t have an antenna and is
> working with a small indoor antenna. I'm 13 elements might crowd the
> livingroom!!!
>
> Bud (WB4LTF)

I hate to say it, but you moved there. There is such a thing as
installing a digi somewhere else near your location. To many depend on a
very few to do all the work and spend the money to install digi's at
great expense then just sit back and complain because they can't hit them
with a rubber ducky hooked to an HT. Maybe if some folks would start
supporting the installations of those didi's you wouls see more of them
(Closer to your location Hi). I also noticed this with registering APRS.
There are some that i know of that have been using APRS for several
years, but just refuse to spend a couple of dollars to register the
software, but then complain because something isn't working to their
liking. Good morning Sig.

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

---

196. Re: [APRSSIG:4316] Mouse problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Sep 1996 13:42:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960906134011.8517C-100000@arctic>
Rendered body type: text/plain

The mouse problem was found to occur whenever you went past midnight for
sure! (but you implied it takes less time... hummh...) But was clearly a
clock rollover problemmm

Can you make it occur some time other than after a midnight has passed?

I also suspect that it will occur if you reset the clock to anytime
EARLIER than current time...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

197. Minuturization Efforts?

From: robert <rambrose@unm.edu>
Date: Fri, 6 Sep 1996 13:14:26 -0900 (PDT)
To: APRS SIG <aprssig@tapr.org>
Message-ID: <Pine.PCW.3.91.960906130108.6575B-100000@ppp_056.unm.edu>
Rendered body type: text/plain

Does anyone know if there are any efforts to miniturize a GPS
recevier, TNC, and transmitter into an extremely small package that
could be carried by a bird? No, I'm not crazy, please read on. In
addtion to being a Ham, I am also falconer. Telemetry is
currently used by falconers to locate lost birds so equipped. Use of
APRS for this purpose would be enormously more productive by an order of
magnitude!

I'm currently in the middle of an argument with other falconers
about this possibilty. Most don't have the faintest idea about GPSs,

TNCs, or APRS, and it's tough convincing them that "real time" tracking
is possible without thousands of dollars expense.

I'm facinated about this potential and unique application of APRS.
Please let me know your thoughts.

---

198. Re: Mouse problem

From: kf4dys@juno.com (Joe Foor)
Date: Fri, 6 Sep 1996 14:51:39 PST
To: aprssig@tapr.org
Message-ID: <19960906.145739.8239.0.kf4dys@juno.com>
Rendered body type: text/plain

On Fri, 6 Sep 1996 12:40:15 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>The mouse problem was found to occur whenever you went past midnight
>for
>sure! (but you implied it takes less time... hummh...) But was
>clearly a
>clock rollover problemmm

I thought it might have been related to a long period of keyboard inactivity, as it only happened when I left the software running overnight. I didn't think about the clock rollover.

This brings up another minor bug. When it happened to me the first time (several months ago), I thought I was messing up, due to inexperience, but on the last evening of August, at about 2230 local, it happened again. I was entering new data from an NWS advisory of 010300z. APRS was dead reckoning the storm position for about 2 extra days movement (I don't remember exactly how much it figured out to be, but it was more than 24 hours extra). I worked around it by entering the report time in local time. After midnight, when the computer date turned over, I re-entered the data using zulu time and the problem no longer existed.

regards,
Joe

---

199. MAJOR APRS PROBLEM ! ! !

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 6 Sep 1996 15:41:02 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609062042.PAA28747@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Bob, I've been using your program (registered of course) for a year and a half and have NEVER complained about APRS. Well....... here is my first complaint!

My closest neighbor, who lives 2 miles away, comes home from work about 2 a.m. each morning. He invariably wakes up his wife, who happens to be pregnant. So, she gets up and relieves herself. The flushing of the toilet, however, also wakes up half of his 12 other kids, who also have to get up and relieve themselves. Now, with all this going on, thier family dog thinks it's morning so he begins to bark. The barking of a neighoring dog is all that my 13 hounds can stand and must reply in an excited state. Hearing all this barking, my grandmother, who lives across the holler, wakes up and instantly thinks someone is "snooping" around. So, naturally she picks up the phone and calls the neighbors "to see if they saw anything". Then after 10 minutes of talking she hangs up and calls me. I naturally have been sound asleep, oblivious of the "houndspeak" going on outside, and wake up to the sweet sound of a telephone ringing by the bed. I then reach over to pick up the phone, but instead hit the mike button on the 2 meter radio. This causes the repeater to i.d. and I, not wanting to be a curchunker, must also i.d.

OK, so how does APRS fit in all this? What's the problem? Well, the problem is that at 2:30 a.m., when grandma is barking in one ear and the hounds are barking at the neighbors dogs and I'm shouting at the dogs to shut up, I can't resist looking at the (H)eard list screen! And THAT is the problem! It has become a habit! At 2:30 am the propogation is so good that I can hit St. Louis and Kansas City at the same time. So, the REAL problem is, that I can't leave it alone! I've got to sit there and play with this thingy till I either fall back asleep at the keyboard or it's daylight! Shame on you, Bob! This thing is still too much fun!

BTW, This DID happen a few nights ago and I really DO have 13 hounds!

--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

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200. Re: [APRSSIG:4470] Re: WIDE,WIDE,WIDE?

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 6 Sep 96 17:04:58 -0400
To: <aprssig@tapr.org>
Message-ID: <199609062101.RAA22228@bridge.net>
Rendered body type: text/plain

>I hate to say it, but you moved there. There is such a thing as
>installing a digi somewhere else near your location. To many depend on a
>very few to do all the work and spend the money to install digi's at
>great expense then just sit back and complain because they can't hit them
>with a rubber ducky hooked to an HT. Maybe if some folks would start
>supporting the installations of those didi's you wouls see more of them
>(Closer to your location Hi). I also noticed this with registering APRS.
>There are some that i know of that have been using APRS for several
>years, but just refuse to spend a couple of dollars to register the
>software, but then complain because something isn't working to their
>liking. Good morning Sig.

Wait a minute...didn't this start out with this same person complaining that there were too many digis too close together? Now he's saying the answer is to put up more digis, and the problem is other people are too cheap and/or lazy? Jeez...at least be consistant!

Steve KO4HD

---

201. Power supply protection for the GPS-20

From: Joe Scalet - WK0G <jscalet@sound.net>
Date: Fri, 06 Sep 1996 16:13:47 -0500
To: aprssig@tapr.org
Message-ID: <3230940B.671F@sound.net>
Rendered body type: text/plain

I had my GPS-20 up and running for the last two months and have been very pleased with it. About two weeks ago I went to turn it off and noticed the dicast case above the GPS-20 board was getting very hot. Strangely,where the regulator was heat sinked the case was cool. At this point I noticed the GPS-20 had quit working. When I took the case apart the GPS-20 was still very hot. It had gotten hot enough that the labels on it had melted. Further investigation revealed that the 5V regualator was a dead short and the full 12 volts of the car power supply had dumped into the GPS-20. Garmin was very helpful and swapped the unit for $45.00 exchange for a new one. This was especially convenient since I only live 3 blocks from Garmin's new headqaurters.

When I first packaged the unit I thought about incorporating some sort of power supply protection but got in a hurry and didn't. Besides the cigarette lighter plug had a one amp fuse in it and I had added the usual caps and ferrite beads between the three terminals. In the past I had never had a problem with these regulators. Surprise ! The dead GPS-20 only drew 600ma at 13.2 volts so the fuse never blew.

I decided to incorporate some sort of fail safe protection for the new unit. I bread boarded a zener and an SCR as a "crowbar" to blow the supply fuse if the power supply went high. The problem with this is that you need to incorporate a darlington pair to get the circuit to turn on hard enough to protect the GPS-20. It is also hard to get this set up to trigger at a precise voltage (example 5 volts plus 5% to stay within the Garmin spec of 5volts +/- 5%.). A zener does not make a very good voltage refernce !.

I'm always one to avoid reinventing the wheel so with a little research I came across the Motrola MC3423 Overvoltage Crowbar Sensing Circuit. All you need to use this little jewel is the chip itself (an 8 pin dip that can accept a supply voltage of 4.5 to 40 volts) 2 esistors (three if the trip voltage is to be abouve 11 volts) and an SCR plus whatever you want to use to interupt the current flow (ex. a fuse, a mosfet, a circuit breaker, etc.). The MC3423 can be across the GPS-20 input and the SCR can be placed before the voltage regulator if you want. The chip even has output for an indicator if you want.

        The problem was finding a source for these chips that would sell to an end user. Plus there is the added cost of shipping, minimum order size etc. I ordered a tube of 50 of these chips because I have a number of uses for them and shipping was half the cost. If any one wants one and doesn't want to got to the trouble of tracking them down I'll make some available pretested with the 2 resistors to set it for around 5.4 to 5.5 volts plus copies of the data sheets from Motorola for $3 postage included. I figure that will just cover my cost of copying and mailing and running around to get the rest of the parts. You can get the SCR and fuse or whatever at Radio Shack. If you want one or more of these please email me directly at jscalet@sound.net. I will then give you my snail mail address. Do not reply in care of the forumn please.

73 and remember Smokie says "Only you can prevent FLAME wars."

---

202. Re: [APRSSIG:4472] Minuturization Efforts?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 6 Sep 1996 16:05:14 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609062105.QAA04004@solar.cs.tamu.edu>
Rendered body type: text/plain

robert sez:

>
>
> Does anyone know if there are any efforts to miniturize a GPS
> recevier, TNC, and transmitter into an extremely small package that
> could be carried by a bird? No, I'm not crazy, please read on. In
> addtion to being a Ham, I am also falconer. Telemetry is
> currently used by falconers to locate lost birds so equipped. Use of
> APRS for this purpose would be enormously more productive by an order of
> magnitude!

Having ruggedized a package that was placed on a herd of cows, I've some ideas about something like this.

I think that, using a MIM module and a GPS, you sought to be able to get something started. You'd probably end up using something like a Motorola VP OnCore 8 channel receiver. It's a 5volt receiver, and talks TTL levels.

Wasn't there something (Joe Argelo?) about a TNC (transmit only) and low power transmitter on a chip? That's another ideal application tool.

The gotcha will be battery. I've done some work with that, and think you will have to develope some timing mechanism where the thing fires off every _n_ minutes for _x_ minutes, and shuts back down. GPS receivers are power hogs.

All in all, some of the miniturization issues are coming together. Trimble has GPS on a PCMCIA card, so it's pretty small. Motorola announced a GPS on a single monolithic chip about 18 months ago. Getting the data transmitted, as well as collaring the birds for the hardwre, plus power requirements, strike me as the challenges.

73, gerry

---

203. Re: [APRSSIG:4428] Re: APRS Airshow

From: rwf <rwf@mindspring.com>
Date: Fri, 06 Sep 1996 08:32:51 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960906123251.0068401c@atl.mindspring.com>
Rendered body type: text/plain

KB9JTT wrote:

>
>I don't think that's true, either, Ralph. IIRC, Garmin's non-
>aviation handhelds, both marine (45) and otherwise (38/40,)
>do indeed shut down at approx. 99 knots; their non-handhelds,
>like the TrackPacs and the GPS20 and GPS25 OEM boards,
>do not. Am I somehow missing information on a Garmin
>unit?

Maybe just a difference in terminolgy. In my head, I consider the 40 and other variations on the 45 engine a marine unit like the 45. The 35/trackpack and its cousins the 20 engine, etc I consider to be land units. The 90 and 100 (I think the 100 is the indash aviation unit, but I could be wrong) I consider to be aviation units.

>
>BTW, if anybody out there has built some interesting
>device with a GPS20, you won't believe how much better
>the GPS25 board is! Wow!

I have been using the 35 and think it is pretty fantastic, and I think it is
a 20 engine. Is there a trackpack made of the 25?

I had some GPS 35 trackpack/KPC-3 combinations here that were only used 3
weeks during a major summer sporting event that had no events in Cobb
County. We sold the packages for 350.00 each. Pretty good deal, eh?

If anymore become available, I'll notify the SIG.

---

204. Re: [APRSSIG:4436] Re: APRS Airshow

From: rwf <rwf@mindspring.com>
Date: Fri, 06 Sep 1996 08:32:56 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960906123256.0068fe28@atl.mindspring.com>
Rendered body type: text/plain

At 11:17 AM 9/5/96 -0500, you wrote:

>Whoe Now! It was a legit word of caution. Anyway, we're using Garmin 55
>AVD (AViation Device). Please don't get into a shooting match over this!
>

Yes, no shooting matches, just making point about the differences in certain
Garmins and which ones shut down. Could care less about aviation unit or
TSO, as no one in the sig has mentioned using them for *navigation* anyway.

---

205. Re: [APRSSIG:4475] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Fri, 06 Sep 1996 18:20:49 -0700
To: aprssig@tapr.org
Message-ID: <3230CDF1.1D12@cris.com>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >I hate to say it, but you moved there. There is such a thing as
> >installing a digi somewhere else near your location. To many depend on a
> >very few to do all the work and spend the money to install digi's at
> >great expense then just sit back and complain because they can't hit them
> >with a rubber ducky hooked to an HT. Maybe if some folks would start
> >supporting the installations of those didi's you wouls see more of them
> >(Closer to your location Hi). I also noticed this with registering APRS.
> >There are some that i know of that have been using APRS for several
> >years, but just refuse to spend a couple of dollars to register the
> >software, but then complain because something isn't working to their
> >liking. Good morning Sig.
>
> Wait a minute...didn't this start out with this same person complaining
> that there were too many digis too close together? Now he's saying the
> answer is to put up more digis, and the problem is other people are too
> cheap and/or lazy? Jeez...at least be consistant!
>
> Steve KO4HD

Again you acting like a little child. No that wasn't me that started the
question about the 3 wides. If you can read which i'm starting to doubd,
read your saved messages and check before putting your foot in your mouth

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--oOO-(_)-OOo--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

206. Bug in 7.7??

From: WB4LTF@aol.com
Date: Fri, 6 Sep 1996 19:32:38 -0400
To: aprssig@tapr.org
Message-ID: <960906193236_195991860@emout10.mail.aol.com>
Rendered body type: text/plain

```
I have been running 7.7 for about a week now and it appears that the P report
is transmitting about every 2.5 to 3 minutes even though the to go indicates
>9.  I never see the time count down.
The B report seems to work correctly.
I have and alternate digi path set at 50% but I didn't think this would
change the timing.
The BE is set to zero.
Has anyone else noticed this problem???
Is there a way to change the rate???

wb4ltf@aol.com
or
b.gotshall@worldnet.att.net
```

---

207. WX parsing and slow op on fast computer

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Fri, 06 Sep 1996 19:25:54 -0500
To: aprssig@tapr.org
Message-ID: <199609070020.AAA157461@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

```
I've been working toward being able to setup my TNC and Ultimeter 2000 to do
their thing sans computer.  Well, tonight, I've finally had some success.  I
ended up using the GPS mode of my PK232.  Before that, I tried using the
Ultimeter's packet mode.  I had that working just fine from my station's
point of view.  However, I had (DOS)APRS running in another part of the
house to monitor what's going on.  When APRS received the WX packet, it
apparently caused some sort of parsing error which displayed in the middle
of the map.  I didn't write down the actual message but it seemed to refer
to some parsing subsystem, gave some info, and asked if I wanted to continue
or quit.

Any ideas, Bob?  BTW, running 7.6f.

Also, I've been playing with mapfix to make some of my own maps.  I started
doing it on our "main" computer, a 486-120 with 32MB.  It was excrutiatingly
slow, especially the mouse operation.  The mouse was nearly unusable.  I
later ran it on the shack computer, a 486DX33, and it ran just fine.  I've
also noticed that APRS itself suffers some of the same symptoms but to a
lesser degree.

Thanks and 73.
Tony Drumm
ARS AA0SM
```

---

208. Re: [APRSSIG:4470] Re: WIDE,WIDE,WIDE?

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Fri, 6 Sep 1996 21:31:24 -0400
To: aprssig@tapr.org
Message-ID: <199609070131.VAA08912@babbage.csee.usf.edu>
Rendered body type: text/plain

```
At 12:19 PM 9/6/96 -0500, you wrote:

>I hate to say it, but you moved there. There is such a thing as
>installing a digi somewhere else near your location. To many depend on a

Well, not everyone can move anywhere they want.  Having antennas is a
consideration of where I live, but not the deciding factor.  We have a good
digi here in Largo, Florida (KF4FOH-10) at this time sponsored by the local
RACES group.  It is quite usuable on fairly low power all over.

>There are some that i know of that have been using APRS for several
>years, but just refuse to spend a couple of dollars to register the
>software, but then complain because something isn't working to their
>liking. Good morning Sig.

I know there are ungrateful people.  I co-sysop a BBS, and the biggest
whiners don't do a darn thing but whine but its their consience and not mine.

Luckly, it seems, the majority of regular APRS users in this area are
registered.  We did a group registration last year and we hope to be able to
```

provide a registration site at the Suncoast Convention in Tampa in November.

73 Paul
Paul E. Knupke, Jr.
Largo, Florida
Amateur Radio KR4YL

209. Re: part 1/4 APRS L3 (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Fri, 6 Sep 1996 20:53:25 -0500
To: aprssig@tapr.org
Message-ID: <199609070153.UAA03201@admin.inetport.com>
Rendered body type: text/plain

Well, I have posted part 1/4 TWICE, and it hasn't turned up. I am beginning to guess that the SIG must have some sort of filesize limit, as it happens to be about 18K and the other 3 were 10-12K. (It didn't seem to bother those executables that were posted a couple of weeks ago, or maybe it is a new limit? Or maybe something else is wrong.)

If THIS little msg propagates successfully, I will go back and split part 1/4 into a 1A/4 and a 1B/4, and repost it that way. That first file was the one which had the general comments that were consolidated from this SIG. Stay tuned.

Comment to APR. TexNet has been designed and applied from the beginning as a separate user and trunk system. It is intended to support multiple users at 1200b by use of a 9600b common trunk. We have very actively discouraged the implementation of a trunk on the user frequency in direct competition with its users. The trunk wins hands down every time, and I suppose it stabilizes on a busy channel where it limits traffic on the trunk by pushing users off the frequency. (Does this sound familiar to anyone? If it does, separate the trunks!)

We started out applying one user freq in a locality. It could be anywhere, at local discretion, on any band. In larger traffic locales, we have added ports either on the same node, or added nodes as necessary, to add ports to support BBS forwarding, and later on did the same thing with additional ports in some locales to support DXC networking. I would presume the next logical thing would be to add some APRS ports (and I am not speaking for any other except myself here). Decisions to add ports to OUR own network rests with those who support it, which is our policy at TPRS to be a local matter. Of course, anyone can go put up a parallel network.

Presently, as far as I am aware, we don't have any user ports on 145.79.

73 de Bob
WB5AOH

210. Part 1B/4 APRS L3 (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Fri, 6 Sep 1996 23:34:06 -0500
To: aprssig@tapr.org
Message-ID: <199609070434.XAA07295@admin.inetport.com>
Rendered body type: text/plain

L3 APRS part 1B/4 (TexNet)

-----Well here is the other half of 1/4.-------

From: DDOBBINS@aol.com
Date: Thu, 29 Aug 1996 10:05:43 -0400
To: morganb@admin.inetport.com
Subject: Re: [APRSSIG:4135] APRS L3 Networking (TexNet)

Hi Bob de Dave/WH6YC qth Seattle. I lived in San Angelo for 3 years and was the APRS coordinator for TX while there. I don't know who's got the glamorous job now. I created a number of TX maps, and GPS error corrected many of them while driving, primarily, in WTX. Maps I have have been posted to the TAPR APRS SIG something like TXMAPS##.ZIP. I think I may have some updates since then. Good luck with the TEXNET-APRS connectivity. You may try KB5EDB/David Eaton in San Angelo, or AA5PK/Glenn Miller also in San Angelo. They are both avid APRS people. There is also a WX station on their system, which is on 145.01, digi thru SAG. Let me know if I can be of further assistance. Dave.

--------thanks Dave (Jim WA5LHS got me started in APRS)--------

From: KG5QD@aol.com

Date: Thu, 29 Aug 1996 20:37:17 -0400
To: morganb@admin.inetport.com
Subject: Re: [APRSSIG:4135] APRS L3 Networking (TexNet)

Seems to me the best way to interface the transport layer to APRS is to put
the TEXNET or other L3 stuff in the Middle of the digi path- I E
KG5QD>APRS,Wide,Wide,(Texnet input node name), (TexNet output Node),Wide
,Wide:[data]
Texnet node recognizes its call(or Name) in a <UI> frame - then encapsulates
the
Sending call along with the rest of the digi path after the TexNet output
node call
--and the data in the aprs packet-- in a standard ax.25 connected packet AS
DATA--
then on the other end the output TexNet Node strips the L3 stuff back off--
bit shifts and all that stuff the Header left in the Data --and sends it on
the aprs freq as a <UI>
frame . The sending station has control over the path as far as the Aprs and
will not care how the TexNet part gets there. The area where the packet
orginated will see
the packet digi-ed only as far as the input node call where the "sent Bit"
will not be set so no more repeats.
The packet can have up to 8 Digis- so this scheme would allow 3 on each end
with
2 for the L3 layer.
Best of Luck on this project 73 de kg5qd Dale Marco Island Fl (U T Ex)

---------reply comments-----------
This one is different, and brings up some real issues. First,
I don't want to sound like I am replying negatively, but
it raises some issues that I don't think I can handle, or at
least on a first approach. I still want to thank Dale for
the comments. As for the issues, they needed to be addressed
anyway.

There are several concern areas here, not the least of
which is the 8-digi field. Way back when (as Harry N0CCW says,
when the world was flat) when TexNet originated, as of course
a connected networking alternative to digipeating of
connected stations in a crowded environment, digipeating
out to 8 repeats was unworkable. W3IWI wrote a classic treatise
on the exponential failure of multihop digis past about 3 or
so repeaters. TexNet has a RAM memory structure which trades
I-field buffer memory against the number of possible repeat
fields in the address space, and we set the address length
field at a maximum of 4 digis, since any more than that
were unusable from a practical standpoint anyhow. So any packet
that comes along with 5 or more digis is pitched out, in
fact it aborts the reception when the address field gets
past that point. It can be made longer by specifying a
variable during the compile process, but I don't know that I
am ready to change it for lots of reasons, the biggest of
which is the performance cost of less memory space to buffer
up packets in a queue for the trunks. I recognize that using
the address fields here is actually splitting the digipeat
process in such a way as to make it much more reliable, so
that isn't the issue here. The fields are just being used to
contribute routing information, not to launch more digipeats
into the ether to step on each other.
Next comment is that splitting the field in half implies
that the second half of the address field is to be shipped
to the destination to be reused for further addressing. THAT
implies that the L3 datagram has to carry the address info
in addition to the I-field, and that brings up the question of
how long the I-field is, for ANY APRS transmission. First,
I have to subtract 5 bytes of overhead for a L3 datagram
header (destination node/user, source node/user, and function
code), which leaves 251 bytes max. Now if I have to subtract
7 bytes for each required field, which could be up to maybe
6 or 7 addresses, that could be another 49 bytes, leaving
around 200 or so. I have skimmed over the APRS doc's but I would
like Bob Bruniga or someone to tell me a definitive number
of bytes that APRS would ever send in one packet. Maybe it
is already 256, if so, we are looking at a possible problem,
since I have to subtract 5 bytes at a very minimum.
Next comment I have to make, which is necessary at this point,
is the issue of packet splitting. TexNet has to split
any (connected) user packet for transmission on the network if
it happens to exceed 251 bytes. If it does, it splits it

roughly in half, and prefixes the L3 header to each, and squirts
both of them down the trunk. At present, we don't bother to
glue them back together, we assume that all users are working
off a bytestream of I fields. That isn't true of TCP-IP
connects, which is why they don't work on TexNet. That issue
is one I am trying to solve now, and it is somewhat related
to this issue, although it may not be apparent to outsiders.
It revolves around the addressing methods and space allocations
and whether or not to re-assemble split packets, etc. I
anticipate solving both problems together in the same release.
The direct issue here is whether or not to split a UI
packet for transmission over the network, and my first
approach is instintively not to do so. Here's why-
Presumeably the APRS receive user has to have a one-to-one
correspondence between the packet address header and the
represented data. It expects one full I-field on each, not
a split pair of packets with half the data in each. So they
would have to be glued back together. Since it is UI this
implies: no user circuit table at the destination and no
guaranteed delivery was intended.   Since it is a UI, no
assurance that there is a mechanism to establish what to
do with multiple split packets arriving from more than one
sourcenode, and some possible demands for memory buffer to
hold the first half waiting for the second, if it ever could be
determined which halves went together. ALSO, there will
probably be some sort of priority mechanism as suggested in
some of the existing APRS docs, so as to not overload the
network with too many UI's. I have a mechanism now that
can be used to determine if the node has some free memory
for discretionary acceptance of data, and it will have
to be used to determine if the APRS UI's will be accepted or
rejected to begin with, also to determine if the packets
will continue to be forwarded at all intermediate nodes.
If I don't do that, the network could be swamped to shutoff
by too many UI's input to it, so I have to implement this
to protect itself. Then THAT raises the question of what to
do with the half of a packet that does make it to a destination
when it's other half has been deleted, never to arrive.
I can't store them or I will run out of memory. I can only
store the first half of split packets for Connected Stations,
not UI's, since these can be supervised by connection
terminations as failures occur. The memory is released
when a connected station loses connection. UI's provide none
of this, since they don't show up in a connection table.
So, I have to come around to the previous question: what will
the max I field of an APRS packet be? I can't make many
more steps in design planning without knowing. If for instance it
were around 80-100 bytes, there would be no problems forseen.
Or another approach is to recognize that feeding through
the network would limit the sender to a reduced length
in case we just decide to truncate at 251 bytes, or maybe some
lower number if we have to transport addressing.
---------guess that is the end of that reply, for now--------

Continued in part 2/4.

73 de Bob
Robert Morgan
WB5AOH
Austin, Texas
morganb@admin.inetport.com

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211. Re: [APRSSIG:4483] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Fri, 06 Sep 1996 23:34:31 -0700
To: aprssig@tapr.org
Message-ID: <32311777.431B@cris.com>
Rendered body type: text/plain

Paul Knupke Jr. wrote:
>
> At 12:19 PM 9/6/96 -0500, you wrote:
>
> I know there are ungrateful people. I co-sysop a BBS, and the biggest
> whiners don't do a darn thing but whine but its their consience and not mine.
>
> Luckly, it seems, the majority of regular APRS users in this area are
> registered. We did a group registration last year and we hope to be able to
> provide a registration site at the Suncoast Convention in Tampa in November.

>
> 73 Paul
> Paul E. Knupke, Jr.
> Largo, Florida
> Amateur Radio KR4YL

Well Paul there are ways to get gain antenna's that are compact enough to easely fit in the confined space of an attic, a 3 or 4 element yagi would take up very little room and would double or even tripple the range you get with a omni antenna. The thing i'm saying there's always a way to fix the problem other then 3 wides i think. Maybe that is the only way in some area's of the country but i'm sure glad they don't use it here.

```
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

212. Dissapointed

From: William Nolle <wa8inz@cris.com>
Date: Sat, 07 Sep 1996 00:54:05 -0700
To: aprssig@tapr.org
Message-ID: <32312A1D.7DE6@cris.com>
Rendered body type: text/plain

Boy i am realy dissapointed in the lack of interest in helping others trying to get into APRS that may need some help with getting off to a good start. To many i think forget that they at one time or other have asked someone for help, but how quick we forget. I posted several messages asking for names to add to my dedicated APRS mentor page, Besides Bob Bruninga, Keith Sproul, there where 18 or so others that where good enough to come forward and say they would be glad to help a newcomer in need in their area. I see many messages about having meetings and get togethers, for what well i guess many drink beer so i think it would be better if it was called a beer party. Surely it's not to advance APRS because if that's what it was meant to do forget it. If those users aren't even willing to help someone just starting out in their own area what is such a meeting going to accomplish. I have dedicated, and worked hard on setting up a webpage just for APRS and to help those that need help, fellows that's the only way to make it grow in case you didn't know. It's not having a beer party that does that. I have decided that i'm fighting a loosing battle and will wipe my webpage off of the server since there doesn't seem to be much interest in that sort of thing. Instead i will devote it to something worth while. Thanks to those that did want to help.

Bill Nolle

```
--

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

213. TracPak Engines

From: mbary@nmaa.org (Mark L. Bary)
Date: Sat, 07 Sep 1996 02:20:49 -0700
To: aprssig@tapr.org
Cc: rwf@mindspring.com
Message-ID: <32313E71.2ADA@nmaa.org>
Rendered body type: text/plain

rwf wrote:
>
> I have been using the 35 and think it is pretty fantastic, and I think it is
> a 20 engine. Is there a trackpack made of the 25?

Yes, you can order a TracPak with the GPS-25 (PhaseTrac 12) engine, according to a spec sheet I'm looking at.

One interesting thing strikes me: Under both the GPS-25 and GPS-20 engines it says input voltage is to be "5.0 volts DC +\-5% regulated". But under the TracPak column it says "Just connect TracPak to 10-30 bolts of DC power..." I guess when they put the engines into a TracPak they add the required voltage limiting and regulating circutry.

It appears that if you want the TracPak with the GPS-25 engine you order the model GPS-35.

73
Mark
N4EOC
Germantown, MD

---

214. Re: [APRSSIG:4474] MAJOR APRS PROBLEM ! ! !

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 07 Sep 1996 09:05:49
To: aprssig@tapr.org
Message-ID: <199609071305.JAA30832@mail-e2b-service.gnn.com>
Rendered body type: text/plain

On Fri, 6 Sep Scott Ratchford said that:

>... the problem is that at 2:30 a.m., when grandma is barking
>in one ear and the hounds are barking at the neighbors dogs
>and I'm shouting at the dogs to shut up, I can't resist look-
>ing at the (H)eard list screen ... I can't leave it alone!
>I've got to sit there and play with this thingy till I either
>fall back asleep at the keyboard or it's daylight!

<lol> Don't look now, Scott, but this "malady" is prob'ly a LOT more prevalent than you think! Especially here in what we call the "Northeast Corridor" from Boston to DC, where my "P" list ALWAYS fills up, and I've gotta make room for more, since the dark grays are "taking up useful space!" I think that's the ONE feature I prefer in WinAPRS over APRSDos: when last I looked, WinAPRS allowed you to have 256 stations displayed at any given time. I'm glad Bob let us have the extra page in 7.7 (although I wish it were more, but have no idea [YES, you may read that "No Clue," if you like <hihi>] on how to get around this.)

>* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

I'm including this part of his signature, just wondering how many "fingers" helped lubricate Scott's admittedly GREAT story! ;-) 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.

---

215. Re: [APRSSIG:4487] Dissapointed

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 07 Sep 1996 09:45:32
To: aprssig@tapr.org
Message-ID: <199609071345.JAA01918@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi Bill,

On Sat, 7 Sep you were:

>Dissapointed
>
>... I'm fighting a loosing battle and will wipe my webpage off
>of the server ...

Aw, c'mon Bill. Isn't that throwing out the baby with the bathwater? There are those 18 of us that came forward and were willing to have their e-mail addresses PUBLISHED, and I'm sure there are plenty more of us that do exactly the same thing you and I do when we see a new station on the screen but, for one reason or another, DON'T care to dissemniate their e-mail address any more than absolutely necessary. Perhaps they're concerned about spamming, maybe they don't check their mail very often (how many on the SIG just check the mail once a week,) or any one of a myraid of reasons.

You know as well as I that the great majority of hams are always (oh, okay ... USUALLY) willing and glad to offer a hand to the newbie, to increase his proficiency, promote the hobby and encourage good operating practices. This is the ancient (in electronics & computer terms) concept known as ELMERING.

I've only been in this hobby for a couple of years and was NOT elmered in. I had to learn it myself. After I got my ticket and was on the air I was delighted by the amounts of assistance I received when I stepped on my own (or others'!) toes or put my foot in my mouth. All of us have, at one time or another, received such hand-holding.

So please don't be disappointed by what you see here on the SIG. There are LOTS more of us out here than you may realize. They just may be reluctant to have their e-mail boxes filled with what may seem like inane questions on APRS. Some years ago I learned an important lesson about such questions: The only "stupid" questions are the ones that AREN'T ASKED!

73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.

---

216. Re: [APRSSIG:4474] MAJOR APRS PROBLEM ! ! !

From: jaym1@soho.ios.com (Jay Millard)
Date: Sat, 7 Sep 1996 10:28:55 +0000
To: aprssig@tapr.org
Message-ID: <v01510100ae56fe40a493@[206.20.7.7]>
Rendered body type: text/plain

J. Scott Ratchford wrote:

<snip for bandwidth police>

> Shame on you, Bob! This thing is still too much fun!
>
>BTW, This DID happen a few nights ago and I really DO have 13 hounds!

I wish that every day I could start with the smile on my face that this story gave me!

Happy MacAPRSing too de Jay.

Jay Millard
Harmill Communications Inc.
** Amateur Radio Station KD1LY **
Darien, Connecticut 06820

---

217. Re: Dissapointed

From: ad4bl@juno.com (Linda G Mullen)
Date: Sat, 7 Sep 1996 11:12:23 CDT
To: aprssig@tapr.org
Message-ID: <19960907.101340.3406.5.ad4bl@juno.com>
Rendered body type: text/plain

In answer so your statement.....

Most of us are busy elmering new stations in our own areas,
we know when a new station comes on the air and climb all
over them to assist.
We have a strong District group here in East Panhandle, and
are connected by a vhf net that will reach the whole District.
When a station wants to begin operating APRS, all they have
to do is mention it on the net.
I think your webpage idea is great but how many NEW APRS
stations know to check into the webpage or the TAPR group?
Keep up the good work.

Linda Mullen AD4BL DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
Everything worth doing is scary

---

218. Re: [APRSSIG:4490] Re: Dissapointed

From: rbost@itexas.net (Roy Bost)
Date: Sat, 7 Sep 1996 10:24:24 -0500
To: <aprssig@tapr.org>
Message-ID: <19960907152719632.AAA122@rbost.itexas.net>
Rendered body type: text/plain

If you got 18 people to sign up, I thinkg you're doing very well. From what i've seen on this SIG, 18 people is a good percentage of the aactive people on the sig! I mean , it always seems to be the same names on the messages every day! And yes you can add my name to your list! By the wqy, Ive helped double the number of Aprs stations on the air in Hood County......one to two and one more trying to get on the air! :-) Anyone know any tricks on getting a KAM and WinAPRS working?

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

---

219. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from mail.nmaa.org (mail.nmaa.org [204.91.49.10]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id
KAA16334 for <aprssig@tapr.org>; Sat, 7 Sep 1996 10:43:49 -0500 (CDT)
Received: from ppp47.nmaa.org ([204.91.49.47]) by mail.nmaa.org
          (post.office MTA v1.9.1 ID# 0-11620) with SMTP id AAA210
          for <aprssig@tapr.org>; Sat, 7 Sep 1996 11:46:45 -0400
Message-ID: <3231C1D5.5E8@nmaa.org>
Date: Sat, 07 Sep 1996 11:41:25 -0700
From: mbary@nmaa.org (Mark L. Bary)
X-Mailer: Mozilla 2.01 (Win16; I)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4464] The Cross Country Trip, an APRS Adventure!
References: <199609060801.EAA02608@bridge.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Steve Dimse wrote:

>
> Hello gang...
>
> Well, it's almost time for the Digital Communication Conference, and
> again I will be driving. An unusual drive, since I will go, quite
> literally, from one corner of the country to the other (Key West to
> Seattle). I will be running APRS on both HF and VHF all the way. The van
> also has a second HF rig for voice, a station for normal packet, and a
> dual band rig for VHF/UHF voice. Then there are the two computers
> (connected via an AppleTalk network), CD ROM drive, cell phone, audio CD
> changer...you get the idea. After the conference I'll head south down the
> coast to Southern Cal to visit friends and family, and finally take
> I-8/10 home in a mad rush to get back before I have to go back to work.
> --slash--
> Hope to see you out there!
>
> Steve KO4HD

Gee whiz Steve, just how many second-ops you going to go through on this trip?! With all that gear to operate you must be planning to emulate the old Pony Express method of picking up a fresh one at every other stop or so...!!

Oh, and I just bought a bunch of shares in the company that makes No-Doz!

Have a great trip, take notes, drive safe!

73
Mark
N4EOC
Germantown, MD

```
(See y'all at the Gaithersburg Hamfest tomorrow!)
```

---

220. Re: [APRSSIG:4486] Re: WIDE,WIDE,WIDE?

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Sat, 7 Sep 1996 11:47:57 -0400
To: aprssig@tapr.org
Message-ID: <199609071547.LAA28680@babbage.csee.usf.edu>
Rendered body type: text/plain

```
At 11:59 PM 9/6/96 -0500, you wrote:

>Well Paul there are ways to get gain antenna's that are compact enough to
>easely fit in the confined space of an attic, a 3 or 4 element yagi would take
>up very little room and would double or even tripple the range you get with a
>omni antenna. The thing i'm saying there's always a way to fix the problem
>other then 3 wides i think. Maybe that is the only way in some area's of the
>country but i'm sure glad they don't use it here.

That is true.  Luckly I'm not in the situation.  The only time WideX3 is
used here is if something very important needs to get out to a large area.

After seeing Dale's javAPRS application in metro Atlanta, I can see why
wideX3 would be a problem in land'o'big mountains.... and not small hills.

Here to get 150 miles we have to direct our packets to at least 3 digis, and
sometimes 4.  At night we can see alot of Florida but during the day we
don't see Orlando much even.

Also where the wides are located has a great deal to do with what you can
and cannot do.  Being on the west coast I can direct my packets easier than
someone in Lakeland or Orlando who wants to go both ways across Florida.  We
don't hear the Orlando digi here frequently but we do hear Lakeland,
Sarasota and Brooksville (and the deaf Tampa digi) so we can get around.
Our network isn't busy by any stretch of the imagination though.  Compared
to AL/GA/TN we're pretty scarce really.  Though from Key West up to Palm
Beach they are a bit ahead of us in population of the APRS network.  Still
our usage isn't extremely high.  yet.... maybe after the coming hamfests
this year where APRS'ers will be promoting our favorite packet application!







>
>--
>     Check out my A.P.R.S Web Page.
>       Totally Devoted to APRS
>   To go straight to the Mentor Page:
>http://www.concentric.net/~wa8inz/NEWPAGE.HTM
>    http://www.concentric.net/~wa8inz
>
>                 \////
>                 (o o)
>           *--o00-(_)-00o--*
>             Bill WA8INZ
>           wa8inz@cris.com
>           wa8inz@amsat.org
>
>
Paul E. Knupke, Jr.
Largo, Florida
Amateur Radio KR4YL
```

---

221. Re: [APRSSIG:4492] Re: Dissapointed

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Sat, 7 Sep 1996 11:58:12 -0400
To: aprssig@tapr.org
Message-ID: <199609071558.LAA28948@babbage.csee.usf.edu>
Rendered body type: text/plain

```
At 10:33 AM 9/7/96 -0500, you wrote:

>We have a strong District group here in East Panhandle, and
>are connected by a vhf net that will reach the whole District.

I wish we had ARES districts period.  What we seem to be doing with APRS all
```

all based on local groups in the Southern Section. (Since my county borders
NFL, we do have strong ties to both sections luckly.) We sometimes get more
input from NFL folks than SFL folks :-(

>When a station wants to begin operating APRS, all they have
>to do is mention it on the net.

Thats true here. If I hear questions I'm always glad to step up to bat and
help.

>I think your webpage idea is great but how many NEW APRS
>stations know to check into the webpage or the TAPR group?
>Keep up the good work.

Heck there are alot of hams who don't even do email, or surf the web. I
know hams who have TNC's that don't have modems even. This is changing though.
Paul E. Knupke, Jr.
Largo, Florida
Amateur Radio KR4YL

---

222. CHANGE EMAIL ADDRESS

From: DDOBBINS@aol.com
Date: Sat, 7 Sep 1996 12:03:59 -0400
To: aprssig@tapr.org
Message-ID: <960907120357_1175904706@emout14.mail.aol.com>
Rendered body type: text/plain

Hi to the SIG. Due to non-availability of a local access number where I now
live, I've had to change my e-mail address. For those of you who have me in
their address book, the new address is: ddobbins@juno.com.

Thanks. Dave/WH6YC.

---

223. Re: [APRSSIG:4497] CHANGE EMAIL ADDRESS

From: (unknown sender)
Date: Sat, 7 Sep 1996 16:34:57 PST
To: aprssig@tapr.org
Rendered body type: text/plain

Message-ID: <19960907.164445.4647.0.wa4mej@juno.com>
References: <960907120357_1175904706@emout14.mail.aol.com>
X-Mailer: Juno 1.00
X-Juno-Line-Breaks: 0-16
From: wa4mej@juno.com (john w dent)

DAVE GOOD FOR YOU

On Sat, 7 Sep 1996 11:13:39 -0500 (CDT) DDOBBINS@aol.com writes:
>Hi to the SIG. Due to non-availability of a local access number where
>I now
>live, I've had to change my e-mail address. For those of you who have
>me in
>their address book, the new address is: ddobbins@juno.com.
>
>Thanks. Dave/WH6YC.
>
>

---

224. Re: Dissapointed

From: wa4mej@juno.com (john w dent)
Date: Sat, 7 Sep 1996 16:39:49 PST
To: aprssig@tapr.org
Message-ID: <19960907.164445.4647.1.wa4mej@juno.com>
Rendered body type: text/plain

SOME TIMES OUR HAMS DON'T UNDERSTAND HOW PROPERGATION WORKS
THE WEST PAN OF FLA IS DOING IT RIGHT TAKE A A LOOK AT WHAT THEY ARE
DOING

WA4MEJ

On Sat, 7 Sep 1996 11:09:22 -0500 (CDT) "Paul Knupke Jr."
<knupke@babbage.csee.usf.edu> writes:

```
>At 10:33 AM 9/7/96 -0500, you wrote:
>
>>We have a strong District group here in East Panhandle, and
>>are connected by a vhf net that will reach the whole District.
>
>I wish we had ARES districts period.  What we seem to be doing with
>APRS all
>all based on local groups in the Southern Section.  (Since my county
>borders
>NFL, we do have strong ties to both sections luckly.)  We sometimes
>get more
>input from NFL folks than SFL folks :-(
>
>>When a station wants to begin operating APRS, all they have
>>to do is mention it on the net.
>
>Thats true here.  If I hear questions I'm always glad to step up to
>bat and
>help.
>
>>I think your webpage idea is great but how many NEW APRS
>>stations know to check into the webpage or the TAPR group?
>>Keep up the good work.
>
>Heck there are alot of hams who don't even do email, or surf the web.
>I
>know hams who have TNC's that don't have modems even.  This is
>changing though.
>Paul E. Knupke, Jr.
>Largo, Florida
>Amateur Radio KR4YL
>
>
```

---

225. Re: WIDE,WIDE,WIDE?

From: wa4mej@juno.com (john w dent)
Date: Sat, 7 Sep 1996 16:44:41 PST
To: aprssig@tapr.org
Message-ID: <19960907.164445.4647.2.wa4mej@juno.com>
Rendered body type: text/plain

```
YOU ARE LUCKEY ,, FOR AN ANT . AT  100 FT YOUR EXPETED RADIO RANGE WOULD BE +- 30 MILES WITH OUT THE
ADDED  FOR POWER  ANT GAIN. ETC..
DO NOT TELL OTHERS ABOUT THE RADIO RANGE IN AN AREA YOU HAVE  IN SIGHT
ABOUT


On Sat, 7 Sep 1996 10:57:17 -0500 (CDT) "Paul Knupke Jr."
<knupke@babbage.csee.usf.edu> writes:
>At 11:59 PM 9/6/96 -0500, you wrote:
>
>>Well Paul there are ways to get gain antenna's that are compact
>enough to
>>easely fit in the confined space of an attic, a 3 or 4 element yagi
>would take
>>up very little room and would double or even tripple the range you
>get with a
>>omni antenna. The thing i'm saying there's always a way to fix the
>problem
>>other then 3 wides i think. Maybe that is the only way in some area's
>of the
>>country but i'm sure glad they don't use it here.
>
>That is true.  Luckly I'm not in the situation.  The only time WideX3
>is
>used here is if something very important needs to get out to a large
>area.
>
>After seeing Dale's javAPRS application in metro Atlanta, I can see
>why
>wideX3 would be a problem in land'o'big mountains.... and not small
>hills.
>
>Here to get 150 miles we have to direct our packets to at least 3
>digis, and
>sometimes 4.  At night we can see alot of Florida but during the day
>we
>don't see Orlando much even.
>
```

```
>Also where the wides are located has a great deal to do with what you
>can
>and cannot do.  Being on the west coast I can direct my packets easier
>than
>someone in Lakeland or Orlando who wants to go both ways across
>Florida.  We
>don't hear the Orlando digi here frequently but we do hear Lakeland,
>Sarasota and Brooksville (and the deaf Tampa digi) so we can get
>around.
>Our network isn't busy by any stretch of the imagination though.
>Compared
>to AL/GA/TN we're pretty scarce really.  Though from Key West up to
>Palm
>Beach they are a bit ahead of us in population of the APRS network.
>Still
>our usage isn't extremely high.  yet.... maybe after the coming
>hamfests
>this year where APRS'ers will be promoting our favorite packet
>application!
>
>
>
>
>
>
>
>>
>>--
>>     Check out my A.P.R.S Web Page.
>>       Totally Devoted to APRS
>>   To go straight to the Mentor Page:
>>http://www.concentric.net/~wa8inz/NEWPAGE.HTM
>>    http://www.concentric.net/~wa8inz
>>
>>                 \////
>>                 (o o)
>>           *--o00-(_)-00o--*
>>             Bill WA8INZ
>>           wa8inz@cris.com
>>           wa8inz@amsat.org
>>
>>
>Paul E. Knupke, Jr.
>Largo, Florida
>Amateur Radio KR4YL
>
>
```

---

226. test

From: kc4zgq@ix.netcom.com (JOHN F. KRAUS II)
Date: Sat, 7 Sep 1996 15:00:43 -0700
To: aprssig@tapr.org
Message-ID: <199609072200.PAA15154@dfw-ix8.ix.netcom.com>
Rendered body type: text/plain

Just a short note to test the lag time from send to receive.
sent 1800 edt 9/7/96. I am getting the sig in digest mode and seem to
be losing my own posts.

73 john KC4ZGQ

---

227. Re: [APRSSIG:4477] Re: Minuturization Efforts?

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Sat, 7 Sep 1996 18:11:55 -0400 (EDT)
To: Gerald J Creager <gerry@cs.tamu.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.SV4.3.91.960907180721.10228B@outland.dtcc.edu>
Rendered body type: text/plain

I am working on a person portable tacker in the same vain as your
Cows-In-Space project Gerry. Batteries are definiately teh problem. I
wanted to have GPS running continuously and a 5 watt transmitter as
well. The MIM with a GPS-20 and Maxon form the basis for my package.
The MIM,20 and Maxon fit into a reasonably small box. The remainder of
the space is taken up by two 12 volt 3 amp-hour batteries. One for the
GPS/MIM and the other for the Maxon. This takes up three fourths of the
space in the enclosure of my system. Your idea is the way to go to
conserve battery power.
Sam K3BY

On Fri, 6 Sep 1996, Gerald J Creager wrote:

> robert sez:
> >
> >
> > Does anyone know if there are any efforts to miniturize a GPS
> > recevier, TNC, and transmitter into an extremely small package that
> > could be carried by a bird? No, I'm not crazy, please read on. In
> > addtion to being a Ham, I am also falconer. Telemetry is
> > currently used by falconers to locate lost birds so equipped. Use of
> > APRS for this purpose would be enormously more productive by an order of
> > magnitude!
>
> Having ruggedized a package that was placed on a herd of cows, I've some ideas
> about something like this.
>
> I think that, using a MIM module and a GPS, you sought to be able to get
> something started. You'd probably end up using something like a Motorola VP
> OnCore 8 channel receiver. It's a 5volt receiver, and talks TTL levels.
>
> Wasn't there something (Joe Argelo?) about a TNC (transmit only) and low power
> transmitter on a chip? That's another ideal application tool.
>
> The gotcha will be battery. I've done some work with that, and think you will
> have to develope some timing mechanism where the thing fires off every _n_
> minutes for _x_ minutes, and shuts back down. GPS receivers are power hogs.
>
> All in all, some of the miniturization issues are coming together. Trimble
> has GPS on a PCMCIA card, so it's pretty small. Motorola announced a GPS on a
> single monolithic chip about 18 months ago. Getting the data transmitted, as
> well as collaring the birds for the hardwre, plus power requirements, strike
> me as the challenges.
>
> 73, gerry
>
>

```
*****************************************************************
Dr. Sam Guccione        Delaware Technical & Community College
302-741-2802            1832 North duPont Highway
ARS K3BY                Dover, DE  19901
*****************************************************************
```

228. Re: [APRSSIG:4294] NYC <>DC Mobile

From: SKedney@aol.com
Date: Sat, 7 Sep 1996 18:58:49 -0400
To: aprssig@tapr.org
Message-ID: <960907185848_517897888@emout08.mail.aol.com>
Rendered body type: text/plain

NTS net on 147.300 Every day at 19:30 local no pl

Sean
N9EBJ

229. Re: [APRSSIG:4487] Dissapointed

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sat, 07 Sep 1996 19:50:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960907235008.00717cf0@mail.cyberstreet.com>
Rendered body type: text/plain

At 12:58 AM 9/7/96 -0500, you wrote:
>Boy i am realy dissapointed in the lack of interest in helping others
>trying to get into APRS that may need some help with getting off to a
>good start. To many i think forget that they at one time or other have
>asked someone for help, but how quick we forget. I posted several
>messages asking for names to add to my dedicated APRS mentor page,
>Besides Bob Bruninga, Keith Sproul, there where 18 or so others that
>where good enough to come forward and say they would be glad to help a
>newcomer in need in their area. I see many messages about having meetings
>and get togethers, for what well i guess many drink beer so i think it
>would be better if it was called a beer party. Surely it's not to advance

>APRS because if that's what it was meant to do forget it. If those users
>aren't even willing to help someone just starting out in their own
>area what is such a meeting going to accomplish. I have dedicated, and
>worked hard on setting up a webpage just for APRS and to help those that
>need help, fellows that's the only way to make it grow in case you didn't
>know. It's not having a beer party that does that. I have decided that
>i'm fighting a loosing battle and will wipe my webpage off of the server
>since there doesn't seem to be much interest in that sort of thing.
>Instead i will devote it to something worth while. Thanks to those that
>did want to help.
>
>Bill Nolle

```
>--
>
>                 \////
>                 (o o)
>           *--o00-(_)-00o--*
>             Bill WA8INZ
>           wa8inz@cris.com
>           wa8inz@amsat.org
>
>
```

Bill: Sleep on it for a night. You know how human nature works. Just try
a different approach. Worth a try. Do not take your page off the net!! ron
73 cu Ron"KD4AMS"

---

230. Re: [APRSSIG:4415] Re: WIDE,WIDE,WIDE?

From: Lorie and/or Al Zelna <ldajz@epix.net>
Date: Sat, 07 Sep 1996 22:13:03 +0000
To: aprssig@tapr.org
Message-ID: <3231F370.6EAE@epix.net>
Rendered body type: text/plain

William Nolle wrote:
>
> I should be more tolerant, you realy mean not to voice my opinion right. If all
> i could do is sit here in front of my computer and watch vehicles moving around
> and couldn't keyboard as you are suggesting i would wipe APRS off of my system
> instantly. To each his own, but Steve you should be more tolerant about a person
> doing some keyboarding since that's one of the features many of the users in
> this area prefer to do. Sorry if my message upset you but it wasn't meant to.
> But i will continue to voice my opinion as the posting warrants. Not everyone
> will aggree. But hopefully this is a Free Speach Sig.

I firmly agree with a NEED to be able to keyboard with another
user<<<<BUT>>>> the biggest problem I have seen is the users inability,
or lack of interest, in changing UNPROTO paths FOR THE OCCASION.

An example UNPROTO of via N3ZZZ,WIDE,WIDE should be fine for a general
beacon, but if a keyboarding opportunity occurs, the user should know
how, and be willing to IMMEDIATELY shorten or alter their UNPROTO
accordingly. When 73's are given, the UNPROTO could be changed back to
a generic beacon format which is acceptable for that area.

"Technology is great... now let's learn how to use it".

Al Zelna, N3KAE

---

231. Re: [APRSSIG:4485] Part 1B/4 APRS L3 (TexNet)

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 07 Sep 1996 03:28:01 -0400
To: aprssig@tapr.org
Message-ID: <199609080328.XAA18883@grumpy.magg.net>
Rendered body type: text/plain

This was the one thing that I was always wondering about when APRS finally
was going to go "backbone". I know it is a problem and Dale has some good
ideas but....

Don't take this as being negative from here also but... (again) do we really
think that some (many maybe most) of the APRS users could handle such a
system. I don't want to be rough on anyone but the truth is that many of the
users that I have spoken with or seen on the air have NO IDEA what a UI
FRAME or UNPROTO path is! The majority of the ones that do are old timers
like me that were on packet before anyone even dreamed of the word NODE, and
BBS's were still run on TRS-80's!

Many now have learned that you set your UNPROTO to APRS VIA

```
WIDE,WIDE,GATE,GATE,WIDE,WIDE or APRS VIA WIDE,WIDE,WIDE,WIDE that is why
they get out. (PLEASE PEOPLE DO THIS BUT DO NOT DO THIS YOURSELF!) They have
learned or seen this in use and now they use it but how many station that
you know  do understand that if you go WIDE,GATE and there is no WIDE you
will never get to a GATE.Not because the GATE is too far, the GATE can be
next door but because the path has been broken.  Heck I have seen an awful
lot of people recently using RELAY,GATE and WIDE,GATE on HF. I think that
unless someone comes up of a GREAT way of teaching everyone what is going on
with UNPROTO paths and UI Frames that such a system will be way too
difficult for many to comprehend. There may not be a better way than Dale's
approach, or maybe there is but something has got to be done.


MAJOR Snip*****
>L3 APRS part 1B/4 (TexNet)

>From: KG5QD@aol.com
>Date: Thu, 29 Aug 1996 20:37:17 -0400
>To: morganb@admin.inetport.com
>Subject: Re: [APRSSIG:4135] APRS L3 Networking (TexNet)
>
>Seems to me the best way to interface the transport layer to APRS is to put
>the TEXNET or other L3 stuff in the Middle of the digi path- I E
>KG5QD>APRS,Wide,Wide,(Texnet input node name), (TexNet output Node),Wide
>,Wide:[data]
>Texnet node recognizes its call(or Name) in a <UI> frame -  then encapsulates
>the
>Sending call along with the rest of the digi path after the TexNet output
>node call
>--and the data in the aprs packet-- in a standard ax.25 connected packet AS
>DATA--
>then on the other end the output TexNet Node strips the L3 stuff back off--
>bit shifts and all that stuff the Header left in the Data --and sends it on
>the aprs freq as a <UI>
>frame . The sending station has control over the path as far as the Aprs and
>will not care how the TexNet part gets there. The area where the packet
>orginated will see
>the packet digi-ed only as far as the input node call where the "sent Bit"
>will not be set so no  more repeats.
>The packet can have up to 8 Digis- so this scheme would allow 3 on each end
>with
>2 for the L3 layer.
>Best of Luck on this project 73 de kg5qd Dale Marco Island Fl (U T Ex)
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                (E-Mail)
http://www.magg.net/~n2czf                           (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

232. Re: [APRSSIG:4504] Re: Dissapointed

From: Mike Stickney <michael@calweb.com>
Date: Sat, 07 Sep 1996 20:29:30 -0700
To: aprssig@tapr.org
Message-ID: <32323D9A.74AD@calweb.com>
Rendered body type: text/plain

```
Hi Bill,

Great idea, needs some time.  Post requests for Elmers on a periodic
basis.  It'll fill up.  Heck, I volunteer for just about everything, I
just don't think I'm experienced enough to offer advice.  I'm sure a good
majority of listeners out there are in the same boat.  Once I can answer
75% of the questions asked on this SIG, I'll send ya my name.

--
Mike Stickney   Mail: mailto:michael@calweb.com
KM6PX           Home: http://www.calweb.com/~michael
              Packet: km6px.#nocal.ca.usa.noam
                  IP: 44.2.0.132
```

233. Re: [APRSSIG:4505] Re: WIDE,WIDE,WIDE?

From: William Nolle <wa8inz@cris.com>
Date: Sat, 07 Sep 1996 22:42:53 -0700
To: aprssig@tapr.org
Message-ID: <32325CDD.2975@cris.com>

Rendered body type: text/plain

```
Lorie and/or Al Zelna wrote:
> I firmly agree with a NEED to be able to keyboard with another
> user<<<<BUT>>>> the biggest problem I have seen is the users inability,
> or lack of interest, in changing UNPROTO paths FOR THE OCCASION.
>
> An example UNPROTO of via N3ZZZ,WIDE,WIDE should be fine for a general
> beacon, but if a keyboarding opportunity occurs, the user should know
> how, and be willing to IMMEDIATELY shorten or alter their UNPROTO
> accordingly.  When 73's are given, the UNPROTO could be changed back to
> a generic beacon format which is acceptable for that area.
>
> "Technology is great... now let's learn how to use it".
>
> Al Zelna, N3KAE

You are so right AL. Whenever i keyboard locally i use a path of None
whenever i see i can hear that user direct, if not i use the local digi
path only, also i make it a point to switch antenna's when needed, from a
simple Discone at 30 ft and 1 watt to my stacked 13B2's and  300watt. But i
have noticed this also that many users NEVER change their path. I see
messages coming out of Florida that where meant to stay local, and i'm as
far north as you can go in Alabama.

--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

234. Re: [APRSSIG:4501] test

From: Mike Stickney <michael@calweb.com>
Date: Sat, 07 Sep 1996 20:26:45 -0700
To: aprssig@tapr.org
Message-ID: <32323CF5.3D78@calweb.com>
Rendered body type: text/plain

```
JOHN F. KRAUS II wrote:
>
> Just a short note to test the lag time from send to receive.
> sent 1800 edt 9/7/96. I am getting the sig in digest mode and seem to
> be losing my own posts.
>
> 73 john KC4ZGQ

Not bad, I received it before you sent it...  (West Coast)

--
Mike Stickney   Mail: mailto:michael@calweb.com
KM6PX           Home: http://www.calweb.com/~michael
              Packet: km6px.#nocal.ca.usa.noam
                  IP: 44.2.0.132
```

235. Re: [APRSSIG:4507] Re: Dissapointed

From: William Nolle <wa8inz@cris.com>
Date: Sun, 08 Sep 1996 00:11:23 -0700
To: aprssig@tapr.org
Message-ID: <3232719B.4A22@cris.com>
Rendered body type: text/plain

```
Mike Stickney wrote:
>
> Hi Bill,
>
> Great idea, needs some time.  Post requests for Elmers on a periodic
> basis.  It'll fill up.  Heck, I volunteer for just about everything, I
> just don't think I'm experienced enough to offer advice.  I'm sure a good
> majority of listeners out there are in the same boat.  Once I can answer
> 75% of the questions asked on this SIG, I'll send ya my name.
>
```

```
> --
> Mike Stickney   Mail: mailto:michael@calweb.com
> KM6PX           Home: http://www.calweb.com/~michael
>               Packet: km6px.#nocal.ca.usa.noam
>                   IP: 44.2.0.132

Ok Mike, great to hear things like that. I have had many messages of
support so have decided to leave it up for a while longer to see if it does
any good or not. Yes you and others have convinced me that i may have been
jumping the gun because it does take a while to buildup something like that
i suppose. Again Thanks Mike, and all the other users that have sent
messages of support.
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

---

236. Re: [APRSSIG:4497] CHANGE EMAIL ADDRESS

From: aa7ya@juno.com
Date: Sun, 08 Sep 1996 01:54:46 EDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <19960907.235225.5383.1.aa7ya@juno.com>
Rendered body type: text/plain

```
On Sat, 7 Sep 1996 11:13:39 -0500 (CDT) DDOBBINS@aol.com writes:

>Hi to the SIG. Due to non-availability of a local access number where
>I now live, I've had to change my e-mail address. For those of you who
have
>me in their address book, the new address is:  ddobbins@juno.com.
>
>Thanks. Dave/WH6YC.

Hi Dave,

Is that effective after this message?  I need to know, since I have
been keeping in touch with you for the PNW APRS happenings here
in my neck of the woods... I thought that I would send it to the SIG,
so that you would see this one way or another.  I currently have your
AOL address in my address book... Please advise.

73 - Stacey
```

---

237. comments Version 77 aprs

From: "Don Murray" <james-m@ix.netcom.com>
Date: Sun, 8 Sep 1996 05:20:54 -0400
To: <aprssig@tapr.org>
Message-ID: <199609080920.CAA21082@dfw-ix9.ix.netcom.com>
Rendered body type: text/plain

```
Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
Wx beacon

My station is showing the following after the normal location info
_289/000/T076/R000p000b0107h00g000U2k

I have also noted that no matter how you enter the beacon comments, it is
stored as uppercase characters..

Just a little think BOB, but maybe something you may want to fix before 77a
release..

Thanks
Don
AE4BR
```

---

238. Re: [APRSSIG:4512] comments Version 77 aprs

From: William Nolle <wa8inz@cris.com>
Date: Sun, 08 Sep 1996 05:35:09 -0700
To: aprssig@tapr.org
Message-ID: <3232BD7D.6856@cris.com>
Rendered body type: text/plain

```
Don Murray wrote:
>
> Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
> Wx beacon
>
> My station is showing the following after the normal location info
> _289/000/T076/R000p000b0107h00g000U2k
>
> I have also noted that no matter how you enter the beacon comments, it is
> stored as uppercase characters..
>
> Just a little think BOB, but maybe something you may want to fix before 77a
> release..
>
> Thanks
> Don
> AE4BR

Strange i have been running version 77 and haven't seen that problem. Maybe
system related.
--
     Check out my A.P.R.S Web Page.
       Totally Devoted to APRS
   To go straight to the Mentor Page:
http://www.concentric.net/~wa8inz/NEWPAGE.HTM
    http://www.concentric.net/~wa8inz

                 \////
                 (o o)
           *--o00-(_)-00o--*
             Bill WA8INZ
           wa8inz@cris.com
           wa8inz@amsat.org
```

---

239. Re: WIDE,WIDE,WIDE?

From: ad4bl@juno.com (Linda G Mullen)
Date: Sun, 8 Sep 1996 06:34:31 CDT
To: aprssig@tapr.org
Message-ID: <19960908.055347.3406.1.ad4bl@juno.com>
Rendered body type: text/plain

```
On Sat, 7 Sep 1996 21:12:02 -0500 (CDT) Lorie and/or Al Zelna
<ldajz@epix.net> writes:
>William Nolle wrote:
>>
>> I should be more tolerant, you realy mean not to voice my opinion
>right. If all
>> i could do is sit here in front of my computer and watch vehicles
>moving around
>> and couldn't keyboard as you are suggesting i would wipe APRS off of
>my system
>> instantly. To each his own, but Steve you should be more tolerant
>about a person
>> doing some keyboarding since that's one of the features many of the
>users in
>> this area prefer to do. Sorry if my message upset you but it wasn't
>meant to.
>> But i will continue to voice my opinion as the posting warrants. Not
>everyone
>> will aggree. But hopefully this is a Free Speach Sig.



>
>I firmly agree with a NEED to be able to keyboard with another
>user<<<<BUT>>>> the biggest problem I have seen is the users
>inability,
>or lack of interest, in changing UNPROTO paths FOR THE OCCASION.
>
>An example UNPROTO of via N3ZZZ,WIDE,WIDE should be fine for a general
>beacon, but if a keyboarding opportunity occurs, the user should know
>how, and be willing to IMMEDIATELY shorten or alter their UNPROTO
>accordingly.  When 73's are given, the UNPROTO could be changed back
>to
```

```
>a generic beacon format which is acceptable for that area.
>
>"Technology is great... now let's learn how to use it".
>
>Al Zelna, N3KAE

The APRS program has a neat feature - it will store up to 10 different
digi paths,
using the Opps-Digi command...with 2-letter designators for each path.
When
using this method type in the callsign of the station you are sending to
followed
by the designator.   AB3XZY/AB [for example].  this makes it easy to
change
paths to the stations you are communicating with.  Works great.


Linda Mullen  AD4BL  DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
Everything worth doing is scary
```

---

240. Re: [APRSSIG:4510] Re: Dissapointed

From: John M Domblewski <wendysue@global2000.net>
Date: Sun, 08 Sep 1996 09:02:24 -0400
To: aprssig@tapr.org
Message-ID: <3232C3E0.21AC@global2000.net>
Rendered body type: text/plain

```
William Nolle wrote:
>

>
> Ok Mike, great to hear things like that. I have had many messages of
> support so have decided to leave it up for a while longer to see if it does
> any good or not. Yes you and others have convinced me that i may have been
> jumping the gun because it does take a while to buildup something like that
> i suppose. Again Thanks Mike, and all the other users that have sent
> messages of support.
> --
>      Check out my A.P.R.S Web Page.
>        Totally Devoted to APRS
>    To go straight to the Mentor Page:
> http://www.concentric.net/~wa8inz/NEWPAGE.HTM
>     http://www.concentric.net/~wa8inz
>
>                  \////
>                  (o o)
>            *--o00-(_)-00o--*
>              Bill WA8INZ
>            wa8inz@cris.com
>            wa8inz@amsat.org


Hi Bill

I think that newbi's like me will get up to speed and join the list. It
( the list  ) should grow over time. I also believe that perhaps a post
on the newsgroup rec.radio.amateur.digital.misc might help to get more
people involved. Personally I would gage the success of your list buy
how many people access and use it to get involved than by how many sign
up to be Elmers. I think that the current lack of elmering is the
biggest problem we as a group (amateur radio)have. so i would encourage
all who can help to do so and I would certainly send you an "ATA BOY"
for your efforts!!!

73 & keep up the good work!


John
```

---

241. Another 7.7 Bug?

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 08 Sep 1996 10:03:32
To: aprssig@tapr.org
Cc: help@paccomm.com
Message-ID: <199609081404.KAA00784@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi Bob,

I think I've noticed a bug in APRS version 7.7 concerning my GPS position. I look at the screen first thing in the morning and find I've "grayed-out." This happens after I've been running APRS for several days (ie: it doesn't seem to happen every midnight) and I've tried to Alt-S-T(nc) to no avail.

I've also O(perations)-C(omms)-T(nc)'d to manually reset the TNC's parameters with the same result. While I'm in this screen, I see that APRS hasn't properly set the TNC's U(nproto), as if it's truncating the information it's sending during the Alt-S-T(nc) I'd tried earler.

When this happens, APRS is not getting (or maybe it's not recognizing) the $GPGGA data from the TNC, as it's not transmitting a POSITion (either automatically by timer, or when I press X(mit)-P(osition,)) nor is the F8 key getting (or, at the least, not displaying) that information.

I did not look at the P(ositions) screen to see when my last valid position string was sent (this was before I'd had my coffee,) so I don't know exactly when this happened, but I'll be sure to look (now that I'm twigged to it) next time.

System specifications:

- Toshiba Satellite 105CS laptop computer
- 75 MHz Pentium processor
- 8 Mb EDO RAM
- Windows 95 build 950a
  - (all the latest updates from Micro$oft's website)
- APRS version 7.7 (with 1,925 maps ... getting there!)
- PaccComm PicoPacket Firmware release 3.2.10 (5/29/96)
  - (dual-port, battery pack version)
- Trimble S-Vee-Six GPS unit built into above TNC)

Oh, and I also noticed (this, I think, is unrelated to the above) the mouse (okay, that eraser-thing between the G, H & B keys) "coming back." I think (can't be sure) that it happened after a midnight had passed.

I hope the information above is sufficient. I'll try to see if there's anything I missed and advise you if I do. 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.

---

242. Re: [APRSSIG:4345] Re: ACARS

From: "Theodore J. Katz" <theojkat@voicenet.com>
Date: Sun, 08 Sep 1996 10:30:38 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960908143038.0068d354@voicenet.com>
Rendered body type: text/plain

I now have aprsair, I am trying to run it on a Toshiba 286 portable T3200.
The 3200 is a 286 with 4MB memory and a 20 MB disk. (a 1989 laptop).
I am using dos 6.22
I am running w/diskdbl.

Aprs run great no problems, with aprs air a get constant errors, the app seems to be looking for a file called aprs.dat. I can't find this file and see no way to generate it.
The eror is in the upper rt hand cor of the screen and writes over the beocon message with aprs.dat bad.

tns again for any help.

Ted Katz N3OWM,Phila,Pa
tedk@formail.formation.com
theojkat@voicenet.com
n3owm@ke3cz.epa.pa.usa
40.01.05 N
75.03.75 W

243. Re: [APRSSIG:4515] Re: Dissapointed

From: William Nolle <wa8inz@cris.com>
Date: Sun, 08 Sep 1996 09:57:13 -0700
To: aprssig@tapr.org
Message-ID: <3232FAE9.3107@cris.com>
Rendered body type: text/plain

```
John M Domblewski wrote:
>
> William Nolle wrote:
> >
>
> >
> > Ok Mike, great to hear things like that. I have had many messages of
> > support so have decided to leave it up for a while longer to see if it does
> > any good or not. Yes you and others have convinced me that i may have been
> > jumping the gun because it does take a while to buildup something like that
> > i suppose. Again Thanks Mike, and all the other users that have sent
> > messages of support.
> > --
> >      Check out my A.P.R.S Web Page.
> >        Totally Devoted to APRS
> >    To go straight to the Mentor Page:
> > http://www.concentric.net/~wa8inz/NEWPAGE.HTM
> >     http://www.concentric.net/~wa8inz
> >
> >                  \////
> >                  (o o)
> >            *--o00-(_)-00o--*
> >              Bill WA8INZ
> >            wa8inz@cris.com
> >            wa8inz@amsat.org
>
> Hi Bill
>
> I think that newbi's like me will get up to speed and join the list. It
> ( the list  ) should grow over time. I also believe that perhaps a post
> on the newsgroup rec.radio.amateur.digital.misc might help to get more
> people involved. Personally I would gage the success of your list buy
> how many people access and use it to get involved than by how many sign
> up to be Elmers. I think that the current lack of elmering is the
> biggest problem we as a group (amateur radio)have. so i would encourage
> all who can help to do so and I would certainly send you an "ATA BOY"
> for your efforts!!!
>
> 73 & keep up the good work!
>
> John

Thanks John, your right of course and i will work on it! By the way updated
some of the pages and added a page that i'm working on for myself (Just in
case Hi). Check it out, it now starts with a menu screen.
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

244. Re: [APRSSIG:4513] Re: comments Version 77 aprs

From: Demos Doulou <ddoulou@gte.net>
Date: Sun, 08 Sep 1996 11:13:20 -0400
To: aprssig@tapr.org
Message-ID: <3232E290.100D@gte.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Don Murray wrote:
> >
> > Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
> > Wx beacon
> >
> > My station is showing the following after the normal location info
> > _289/000/T076/R000p000b0107h00g000U2k
> >
> > I have also noted that no matter how you enter the beacon comments, it is
> > stored as uppercase characters..
> >

I too have that problem.
```

---

245. Re: CHANGE EMAIL ADDRESS

From: ddobbins@juno.com (David S Dobbins)
Date: Sun, 8 Sep 1996 09:01:08 PDT
To: aprssig@tapr.org
Message-ID: <19960908.090756.4439.0.ddobbins@juno.com>
Rendered body type: text/plain

```
It's effective immediately, although I will continue to monitor my AOL
account for the meantime. Aloha, Dave.
```

---

246. Re: [APRSSIG:4513] Re: comments Version 77 aprs

From: "Don Murray" <james-m@ix.netcom.com>
Date: Sun, 8 Sep 1996 14:00:02 -0400
To: <aprssig@tapr.org>
Message-ID: <199609081801.LAA09455@dfw-ix4.ix.netcom.com>
Rendered body type: text/plain

```
Thanks Bill, I have checked everything, but will recheck to see if it is
something I am doing wrong.. I have twice installed version 77 and this
occurred both times.. Will take a closer look at it and see if I can figure
out where I am screwing up..

Don


----------
> From: William Nolle <wa8inz@cris.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4513] Re: comments Version 77 aprs
> Date: Sunday, September 08, 1996 6:40 AM
>
> Don Murray wrote:
> >
> > Bob, I have noticed on version 7.7 that the mixed upper/lower case in
the
> > Wx beacon
> >
> > My station is showing the following after the normal location info
> > _289/000/T076/R000p000b0107h00g000U2k
> >
> > I have also noted that no matter how you enter the beacon comments, it
is
> > stored as uppercase characters..
> >
> > Just a little think BOB, but maybe something you may want to fix before
77a
> > release..
> >
> > Thanks
> > Don
> > AE4BR
>
> Strange i have been running version 77 and haven't seen that problem.
Maybe
> system related.
> --
>      Check out my A.P.R.S Web Page.
>        Totally Devoted to APRS
>    To go straight to the Mentor Page:
> http://www.concentric.net/~wa8inz/NEWPAGE.HTM
>     http://www.concentric.net/~wa8inz
>
>                   \////
>                   (o o)
>             *--o00-(_)-00o--*
>               Bill WA8INZ
>             wa8inz@cris.com
>             wa8inz@amsat.org
>
```

247. WinAPRS/TNC/GPS

From: Joe Agrelo <jagrelo@concentric.net>
Date: Sun, 08 Sep 1996 14:10:46 -0700
To: aprssig@tapr.org, winaprs@tapr.org
Message-ID: <32333656.4624@concentric.net>
Rendered body type: text/plain

```
Hi

I have been trying to get WinAPRS to work with my GPS-45 and TNC
together, but have been very unsucsessful. I can get the TNC to work ok
by itself or the GPS to work by itself, but never the two together. I
tried using the DFjr/MPA/GPS45 with a single PC port, if I open TNC
under settings that works fine, I can see the GPS data at the bottom of
the screen as it comes in also. If I try to open the GPS port while the
VHF TNC port is open, I get a COMM PORT warning and visa versa. I guess
the problem is that you can only open one port at a time, I even have
GPS & TNC set to auto open under APRS settings.

What am I doing wrong?

Thanks

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

248. Re: [APRSSIG:4512] comments Version 77 aprs

From: Gary Wells <gwells@nbn.net>
Date: Sun, 08 Sep 1996 19:30:09 -0400
To: aprssig@tapr.org
Message-ID: <32335701.1D7@nbn.net>
Rendered body type: text/plain

```
Don Murray wrote:
>
> Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
> Wx beacon
>
> My station is showing the following after the normal location info
> _289/000/T076/R000p000b0107h00g000U2k
>
> I have also noted that no matter how you enter the beacon comments, it is
> stored as uppercase characters..
>
> Just a little think BOB, but maybe something you may want to fix before 77a
> release..
>
> Thanks
> Don
> AE4BR


I have had the same problem.  I have edited the cfig77.apr file (where
the becon text is stored) so I can get lower case becon text on the air.

Gary
N3HCP
```

---

249. Richmond found!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Sep 1996 21:17:31 -0400 (EDT)
To: aprssig@tapr.org
Cc: seal2cc@aol.com
Message-ID: <Pine.GSO.3.95.960908211443.19077A-100000@arctic>
Rendered body type: text/plain

```
I was visiting in RIchmond and ran in to KT4KE who is a new APRS user for
a week, and it seems that he is interested in spreading APRS in that area.
```

If we can get a DIGI up high in RIchmond, then not only will this finally put APRS coverage over the I-95 corridore, but it may finally tie in Norfolk, and N.Carolina in to the rest of the atlantic network! Welcome chris... Oh, I will bne maing a Richomond map tonight after I read a few HOURS of mail...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

250. SPCL mode works!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Sep 1996 21:22:20 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960908212052.19077B-100000@arctic>
Rendered body type: text/plain

DOnt overlook using the ALT-SETUP-MODES-SPECIAL so that you can work an emergency on frequency without having to see everything else...
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---------- Forwarded message ----------
Date: Fri, 6 Sep 1996 14:56:54 PST
From: Joe Foor <kf4dys@juno.com>
To: wb4apr@amsat.org
Subject: Re: Bertha: lessons learned (long)

When the extra FRAN packets started showing up, I tried your suggestion of using SPCL mode. It worked like a charm. Thanks for the suggestion.

regards,
Joe

---

251. Burned by PK-12 again!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Sep 1996 21:28:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960908212224.19077C-100000@arctic>
Rendered body type: text/plain

Visiting a new station (also the 1st station on the air in a new city), I drove to his DRIVEWAY and he still couldnt see me! We pulled our hair out, and his rig would hear otehr stations but ignore my packets.

How soon we forget..... I finally remembered that the stupid PK-12 (older version) does *NOT* display packets that it itself digipeats! (Is this still true? How about other AEA products???)

So of course, his station had the alias of RELAY, and sicne he was the only one in town, I was transmitting via RELAY... ERGO the PK-12 digipeated my packets but never passed them along to the PC!

I was in a rush to meet family committments, but we couldnt find the command in the manuual before I had to leave. But ther is a command in the PK-12 so that it will monitor packets that it digipeats, too bad it defaults to OFF!!!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

252. Re: [APRSSIG:4472] Minuturization Efforts?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Sep 1996 21:31:21 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960908212855.19077D-100000@arctic>
Rendered body type: text/plain

On Fri, 6 Sep 1996, robert wrote:

> Does anyone know if there are any efforts to miniturize a GPS
> recevier, TNC, and transmitter into an extremely small package that
> could be carried by a bird?

APRSdos REPLY/COMMENT: You could make it about thes size of a pack of cigarettes using off the shelf stuff. For enough $$$ you could do it the size of a match box probably... But might be easier to use your existing transmitters and then buy a buch of the automatic DF units and tie them into APRS so you get an instant triangualted fix everytime the bird

```
transmitter pings...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

253. Re: [APRSSIG:4505] Re: WIDE,WIDE,WIDE?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 8 Sep 1996 22:10:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960908220522.21031B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sat, 7 Sep 1996, Lorie and/or Al Zelna wrote:
>
> I firmly agree with a NEED to be able to keyboard with another
> user<<<<BUT>>>> the biggest problem I have seen is the users inability,
> or lack of interest, in changing UNPROTO paths FOR THE OCCASION.
>
> An example UNPROTO of via N3ZZZ,WIDE,WIDE should be fine for a general
> beacon, but if a keyboarding opportunity occurs, the user should know
> how, and be willing to IMMEDIATELY shorten or alter their UNPROTO
(snip)

This thread has taken off in a COMPLETLY different direction from it
origination (I made the original post!)

Maybe I didn't say it clearly enough.....I repeat:

I see HF stations GATEing into my local area with MOSTLY Unproto paths
including WIDE,WIDE,WIDE.

I thought this was a NO NO. Why are HF stns doing this? (just because
they see EVERYONE else doing it?)

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

254. Re: [APRSSIG:4513] Re: comments Version 77 aprs

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 8 Sep 1996 22:13:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960908221149.21031C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
> Don Murray wrote:
> >
> > Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
> > Wx beacon
> >
> > My station is showing the following after the normal location info
> > _289/000/T076/R000p000b0107h00g000U2k

(snip)

> Strange i have been running version 77 and haven't seen that problem. Maybe
> system related.

I HAVE noticed stations running 77 with the same format of WX data.
(still running 75 myself)

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

255. Re: [APRSSIG:4526] Burned by PK-12 again!

From: Roger Breckon <n8chb@tir.com>
Date: Mon, 09 Sep 1996 02:30:18 -0700
To: aprssig@tapr.org
Message-ID: <3233E3AA.4055@tir.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Visiting a new station (also the 1st station on the air in a new city), I
> drove to his DRIVEWAY and he still couldnt see me!  We pulled our hair
> out, and his rig would hear otehr stations but ignore my packets.
>
> How soon we forget.....   I finally remembered that the stupid PK-12
> (older version) does *NOT* display packets that it itself digipeats!
> (Is this still true?  How about other AEA products???)
>
> So of course, his station had the alias of RELAY, and sicne he was the
> only one in town, I was transmitting via RELAY...   ERGO the
> PK-12 digipeated my packets but never passed them along to the PC!
>
> I was in a rush to meet family committments, but we couldnt find the
> command in the manuual before I had to leave.  But ther is a command in
> the PK-12 so that it will monitor packets that it digipeats, too bad it
> defaults to OFF!!!
>
> Reply mail addr: wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

================================================================
Bob,

I have a 88 card and a pk900 and don't believe they will print to the
screen digipeated packets.
All I see is my rig s red tx lamp go on. Not real cool!
If anyone does know how to do this please let me know?

73,

Roger n8chb
```

256. Re: [APRSSIG:4522] WinAPRS/TNC/GPS

From: rsellers@firecraker.com (Roger Sellers)
Date: Sun, 8 Sep 1996 21:43:17 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609090243.VAA21926@tapr.org>
Rendered body type: text/plain

```
>
>Hi
>
>I have been trying to get WinAPRS to work with my GPS-45 and TNC
>together, but have been very unsucsessful. I can get the TNC to work ok
>by itself or the GPS to work by itself, but never the two together. I
>tried using the DFjr/MPA/GPS45 with a single PC port, if I open TNC
>under settings that works fine, I can see the GPS data at the bottom of
>the screen as it comes in also. If I try to open the GPS port while the
>VHF TNC port is open, I get a COMM PORT warning and visa versa. I guess
>the problem is that you can only open one port at a time, I even have
>GPS & TNC set to auto open under APRS settings.
>
>What am I doing wrong?
>
>Thanks
>
>73 De Joe N2OOC (new address & phone effective 8/15)

  To my knowledge, the MPA or HSP switched dont work with the windows
version of APRS(WinAPRS) yet. The only way I have gotten it to work is by
having a 2nd serial port available. I think I remember hearing guys that
have done it manually though. I had to buy a PCMCIA serial port card (about
$130) to have a 2nd serial port. I can not get it to work with the MPA or
Kantronics HSP or Paccom HSP. But the 2nd serial port worked fine.
   I don't think Keith and Mark have support yet active for a MPA or HSP.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

257. (no subject)

From: (unknown sender)
Date: Sun, 8 Sep 1996 22:33:09 -0500
Message-ID: <199609090333.WAA19962@tbc1.tbcnet.com>
Rendered body type: text/plain

```
To: aprssig@tapr.org
From: davidc@tbcnet.com (David Chesser)

Subject: ARRL Convention Announcement
```

NIAN (Northern Illinois APRS Network) will have booth space at the ARRL national Convention. See URL http://tbcnet.com/~davidc/aprs.html for details!

---

258. Re: [APRSSIG:4531] Re: WinAPRS/TNC/GPS

From: Joe Agrelo <jagrelo@concentric.net>
Date: Sun, 08 Sep 1996 23:57:25 -0700
To: aprssig@tapr.org
Message-ID: <3233BFD5.2F0@concentric.net>
Rendered body type: text/plain

```
Roger Sellers wrote:
>
> >
> >Hi
> >
> >I have been trying to get WinAPRS to work with my GPS-45 and TNC
> >together, but have been very unsucsessful. I can get the TNC to work ok
> >by itself or the GPS to work by itself, but never the two together. I
> >tried using the DFjr/MPA/GPS45 with a single PC port, if I open TNC
> >under settings that works fine, I can see the GPS data at the bottom of
> >the screen as it comes in also. If I try to open the GPS port while the
> >VHF TNC port is open, I get a COMM PORT warning and visa versa. I guess
> >the problem is that you can only open one port at a time, I even have
> >GPS & TNC set to auto open under APRS settings.
> >
> >What am I doing wrong?
> >
> >Thanks
> >
> >73 De Joe N2OOC (new address & phone effective 8/15)
>
>   To my knowledge, the MPA or HSP switched dont work with the windows
> version of APRS(WinAPRS) yet. The only way I have gotten it to work is by
> having a 2nd serial port available. I think I remember hearing guys that
> have done it manually though. I had to buy a PCMCIA serial port card (about
> $130) to have a 2nd serial port. I can not get it to work with the MPA or
> Kantronics HSP or Paccom HSP. But the 2nd serial port worked fine.
>    I don't think Keith and Mark have support yet active for a MPA or HSP.
>
> 73,
>
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@rockford.com
>              kb9lbu@juno.com
> E-Mail Work: rsellers@snds.com


Thanks Roger, I will see if I can find a PCMCIA serial port card for my
Compaq Aero.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

259. Re: [APRSSIG:4533] Re: WinAPRS/TNC/GPS

From: rsellers@firecraker.com (Roger Sellers)
Date: Mon, 9 Sep 1996 07:22:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609091222.HAA18687@tapr.org>
Rendered body type: text/plain

```
>
>Roger Sellers wrote:
>>   To my knowledge, the MPA or HSP switched dont work with the windows
>> version of APRS(WinAPRS) yet. The only way I have gotten it to work is by
>> having a 2nd serial port available. I think I remember hearing guys that
>> have done it manually though. I had to buy a PCMCIA serial port card (about
>> $130) to have a 2nd serial port. I can not get it to work with the MPA or
>> Kantronics HSP or Paccom HSP. But the 2nd serial port worked fine.
>>    I don't think Keith and Mark have support yet active for a MPA or HSP.
>>
>
>
>Thanks Roger, I will see if I can find a PCMCIA serial port card for my
>Compaq Aero.
>
 If you need one, check mail order catalogs. I couldnt find one locally and
check 7-8 stores. I found them in most catalogs though. I've noticed prices
from $119 up.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

260. Re: [APRSSIG:4529] Re: comments Version 77 aprs

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Mon, 9 Sep 1996 09:42:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960909093957.25d761f2@mosquito.com>
Rendered body type: text/plain

```
At 21:25 9/8/96 -0500, you wrote:
>> Don Murray wrote:
>> >
>> > Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
>> > Wx beacon
>> >
>> > My station is showing the following after the normal location info
>> > _289/000/T076/R000p000b0107h00g000U2k
>
>(snip)
>
>> Strange i have been running version 77 and haven't seen that problem. Maybe
>> system related.
>
>I HAVE noticed stations running 77 with the same format of WX data.
>(still running 75 myself)
>
>Richard Amirault              N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"
>
>

W2HOB REPLY:  Hi folks... check out line 205 in WX.TXT to find out about new
weather beacon formatting. It's almost always in the docs!

----------------------------
Have fun es 73 de Boyd
w2hob@mosquito.com (new adr)
----------------------------
----------------------
Have fun es 73 de Boyd
w2hob@mosquito.com
----------------------
```

---

261. Re: [APRSSIG:4533] Re: WinAPRS/TNC/GPS

From: Mark Sproul <sproul@ap.org>
Date: Mon, 9 Sep 1996 09:38:54 -0400
To: aprssig@tapr.org
Message-ID: <v03007805ae59ce1a4085@[165.1.27.20]>
Rendered body type: text/plain

```
>>   To my knowledge, the MPA or HSP switched dont work with the windows
>> version of APRS(WinAPRS) yet. The only way I have gotten it to work is by
>> having a 2nd serial port available. I think I remember hearing guys that
>> have done it manually though. I had to buy a PCMCIA serial port card (about
>> $130) to have a 2nd serial port. I can not get it to work with the MPA or
>> Kantronics HSP or Paccom HSP. But the 2nd serial port worked fine.
>>    I don't think Keith and Mark have support yet active for a MPA or HSP.
>>

WinAPRS does NOT currently support HSP mode, last week I FINALLY made some
progress and now can say that it should be completed in a few more weeks.
```

Keith is going to the ARRL convention this weekend and the DCC the next
weekend, so it will be after that.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

---

262. Re: [APRSSIG:4525] SPCL mode works!

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 9 Sep 1996 08:23:30 -0500
To: <aprssig@tapr.org>
Message-ID: <199609091350.IAA13396@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Would it be possible to add ALT-SETUP-MODE-SKYWARN? It was suggested (on
this sig) that we should set-up our own freq. Well, here in "hillbilly"
Arkansas that's not feasible or financially possible. (I know a few hams
around that still use "outdoor" pumbing! Needless to say that they also
use batteries!) I haven't looked but there may already be a WX modea but
that is fine for everyday weather monitoring. I'm suggesting a specific
SKYWARN for use in hurricans, tornados and such. Suggestions Please?

BTW, thanks for the replies to the "other" message! (Axuse de spell'n, I
iz edumecated in Arkysaw)
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4525] SPCL mode works!
> Date: Sunday, September 08, 1996 8:35 PM
>
> DOnt overlook using the ALT-SETUP-MODES-SPECIAL so that you can work an
> emergency on frequency without having to see everything else...
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
> ---------- Forwarded message ----------
> Date: Fri, 6 Sep 1996 14:56:54 PST
> From: Joe Foor <kf4dys@juno.com>
> To: wb4apr@amsat.org
> Subject: Re: Bertha: lessons learned (long)
>
> When the extra FRAN packets started showing up, I tried
> your suggestion of using SPCL mode. It worked like a
> charm. Thanks for the suggestion.
>
> regards,
> Joe

---

263. Re: [APRSSIG:4505] Re: WIDE,WIDE,WIDE?

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 9 Sep 1996 08:10:53 -0500
To: <aprssig@tapr.org>
Message-ID: <199609091350.IAA13393@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> An example UNPROTO of via N3ZZZ,WIDE,WIDE should be fine for a general
> Al Zelna, N3KAE

Wait a min! Not being critical of you, Al. But, shouldn't that be
WIDE,WIDE,N3ZZZ? Or have I got it backasswards?
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

264. Re: [APRSSIG:4502] Re: Minuturization Efforts?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Sep 1996 09:55:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960909095344.26546F-100000@arctic>
Rendered body type: text/plain

```
On Sat, 7 Sep 1996, Dr Samuel Guccione wrote:

> I am working on a person portable tacker in the same vain as your
> Cows-In-Space project Gerry.  Batteries are definiately teh problem.  I
> wanted to have GPS running continuously and a 5 watt transmitter as
> well.

APRSdos REPLY/COMMENT:  For stolen item recovery or logistics tracking of
some objects, we have discussed making a MIM that will power up the GPS
only once a day to get a new fix, but it will transmit its posit once an
hour.  It could run for a year on one set of D Cells...  A month on AA
cells.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

265. Re: [APRSSIG:4512] comments Version 77 aprs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Sep 1996 10:18:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960909101629.26546L-100000@arctic>
Rendered body type: text/plain

```
On Sun, 8 Sep 1996, Don Murray wrote:

> I have noticed on ver 7.7 mixed upper/lower case in the Wx beacon
> My station is showing the following after the normal location info
> _289/000/T076/R000p000b0107h00g000U2k
>
> I have also noted that no matter how you enter the beacon comments, it is
> stored as uppercase characters..

APRSdos REPLY/COMMENT:  That is the new WX format.  Lower case separators
to make room for a 4 digit baro and the wind GUST field...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

266. APRS SKYWARN

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 9 Sep 1996 11:36:35 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Cc: "Jim Duncan" <ku0g@sprynet.com>, "Bob Bruninga" <wb4apr@amsat.org>
Message-ID: <199609091637.LAA15864@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Please allow me to push this issue once again! Here in Arkansas we have a
broken down SKYWARN (Voice)Net. It all started out with good intensions
and actually worked for a while. However, it has ended up with disasterous
results. Skywarn storm spotters have been unable to report to the NWS
which either directly or indirectly resulted in deaths due to lack of
"public warnings". This is fact.

As an engineer, I can't stand to see a problem unresolved, such as this,
and feel it is our duty to solve this or drop the SKYWARN Net all
together. The latter in not feasable so we must try to find a solution. I
am proposing the APRS system for the following reasons:

IDEA: The SKYWARN Voice Net began two years ago as an idea that if you
installed a two meter radio in the NWS office and gave them the control
codes to a Central Net Control (CNC) repeater, which connects to any other
2m repeater in Ark, then they could advise and receive reports as needed.

PROBLEM: The NWS would connect to more than one repeater (in most cases
not by choice but by design) which caused numerous crashes on the net as
well as "unwanted" (I'll get to that in a min.) control by the CNC.
"Unwanted" was the term used by a club which was unable to disconnect the
repeater from the net when the storm had past and was "forced to listen to
the damn thing" as the storms continued across the state. (NOTE: The CNC
at one time stated that each repeater could be dropped at the will and
pleasure of the owners. Which didn't happen. So, this was a legit
```

complaint.) As it turned out the CNC repeater was privately owned and the owner shut it down after the above mentioned statment.
POSSIBLE SOLUTION: Just about every club here runs its own Emergency Net either through the local repeater and/or via local packet. Many are run through the local EC. The NWS continues today to train and have weather spotters courses all around the state. They continue to rely on hams (not as an "official" SKYWARN net) to spot storms, mainly in a local area around Little Rock. The NWS wishes to find a solution to the SKYWARN problem as quickly as possible. Enter APRS. I am to meet with the NWS in Little Rock to work out a packet solution. APRS will be my proposed backbone to the solution. It has already recieved a warm welcome by the NWS and many clubs around the state. However, again the problem arises about net crashes, control and activation.
QUESTIONS:
1. Is it possible to add to APRS a special mode called SKYWARN?
2. Is it possible to have a APRS SKYWARN NET remotely activated? In other words, the NWS calls a net by sending an activation code which in turn causes each station to report weather conditions automatically to the NWS.
3. Would all this need to be on a structured system such as the TexNet?

In part this is both a proposal and a fact gathering message. It could also be a basis for a siminar or workshop that can be held at a convention, such as an mid-america APRS convention if we have one!

I welcome all constructive comments and suggestions and realize that some if not most are not interested. And that I can understand and appreciate. However, please understand that this is a serious problem here and can be as much elsewhere. "nuff said"

73 and thanks in advance,
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

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267. Update APRS L3 (TexNet)

From: morganb@admin.inetport.com (Robert B. Morgan)
Date: Mon, 9 Sep 1996 11:55:28 -0500
To: aprssig@tapr.org
Message-ID: <199609091655.LAA01193@admin.inetport.com>
Rendered body type: text/plain

Well, here's where we stand with the L3 investigation: I had given up trying to get the part 1A of last week's dissertation to post on the SIG. I checked with Greg Jones, he advised uploading to the aprssig/upload area. I spent a couple of hours tinkering with that unsuccessfully, so until I figure THAT job out, I may ship the whole thing to one of the locals who offered to stick it on a webpage of his (Lansing, KB5USG), and also e-mail part 1A to whoever individually requested it. I haven't the foggiest notion why it won't go onto the sig, but assume it is content related.
I originally wanted to post it all as one work, but the sig appears to be keeping me from doing it without fragmenting it up anyway.
Filesize is now less than the others that did post. Look for that later on in a day or so....

One matter has come up that I think is worthwhile discussing-

I think that Bob Bruniga may have just highly simplified the possible nightmares of network UI broadcast transporting, by boiling the requirements down to the following simple list. If indeed the requirements fit this concept, it looks entirely feasible. Read on...

Per Bob Bruniga:

```
>> There may be cases it may be desired to "broadcast" to more
>> than one destination node....
>
>*** APR REPLY:  This is needed and is a challenge.  I think it can be
>simplified to just a few possibilities:
>   1) PRESENT NODE ( I think that all nodes should digi the original
>      packet to others in the local area as a matter of routine)
>   2) LOCAL AREA:  It is broadcast to all adjacent NODES (one hop)
>   3) WIDE AREA:   It is broadcast out two hops in all directions
>   4) EMERGENCY:   THis is only possible via SYSOP.  GOes everywhere
>Anything beyond the WIDE AREA should use a directed packet to a given
>node, such as the state EOC or something like that...
```

With TexNet, this might be pretty feasible. I am pleased to say that item (4) was implemented in 1995 under vers 1.72 and later. It is hardcoded to send a UI to address of WX from an address of ARES on all ports of all nodes of the network (there is a provision for a state line or region partition). It does require SYSOP permission on the network, meaning of course that one must CONNECT to the network to use it. It also is triggered on an automated basis by the saving of a NWS special (unscheduled) product message on the weather server that is a part of the network (presently active from Tulsa on the OK-AR-MO partition of TexNet), where the I-field is the heading of the message. For the manually initiated version it is whatever the person types at the keyboard following the command. The UI prefixes the bell character and a c/r to that line when broadcasting it. Someone that wants to monitor these may set his Budlist to capture them on address ARES (note: that's ARES not APRS). The internal broadcast mechanism of TexNet is used to spread them throughout the network, and under some combinations of routing throughout a network containing loops they may be duplicated once or more times, although some of the loops have propagation filters to prevent certain directions of broadcasts. Since it is a connected network datagram within the network, it is not subject to being lost as a UI would be. It does not become a UI until it is sent off the individual local ports. It is not checking for a minimum of free memory, it sends it unless absolutely choked.

The severe weather watch/warning broadcasts on the OK/AR/MO portion of TexNet have been taking place for a little over a year now. I don't think anyone has yet made use of the manual input method. I got curious over the weekend and tested it real late one night, from AUSTIN, asking for anyone monitoring to leave me a message. Someone in LUBBOCK responded, and reported he happened to see both trials. Entirely no advance planning, all spontaneous.

I think that will meet most of the requirements of (4), but might need some tuning, and I am open to some comments. In particular I am interested in the from/to callsigns of the UI and do we need maybe one "WIDE" on the tail end, also should the bell char be moved to the end of the line or next line so as not to confuse APRS parsing, etc... It still needs to be compatible with the dumb-terminal user in an EOC monitoring for civil emergency type stuff. Do we need one format for ARES and another for APRS? Is it even applicable to APRS, requiring a connection and establishment of permissions (user has to respond from a code-table) ?

Item (1), just digipeating as a matter of routine, should come along with the process.

Items (2) and (3) appear feasible. There is a hopcounting process inherent in the broadcast routing process, and it should be feasible to preset a maximum hopcount that will cause the termination of these broadcasts. It probably wouldn't be effective until all of the nodes firmware were updated, but it would act in the interim to allow the propagation to continue to expand.

One comment I might need is to have some suggestion as to how to trigger the variable nature of the range. I presume it could be done with SSID's, and I assume that one will use a predetermined and unique address in a digi field to trigger it to begin with. Maybe a NWIDE-x or NFLOOD-x might be appropriate, where -x is an SSID representing a hop radius? Here NWIDE/NFLOOD represent network-wide, etc.
Again, I would need to have some sort of I-field checksum protection on duplicates, and minimum free memory acceptance checks. The radius ssid -x would probably take on valid values of -1 to maybe up to -3 or so, and -0 (default blank) would probably assume a radius of 1. Or maybe we could use the same trigger ID for all functions, and ssid -0 means no radius, just local repeat? Comments?

Here again, I ought to remind everyone of one basic constraint to which all the ideas are subject: little codespace. Still, I think it is worthwhile discussing, and I think something will come of it.

TPRS has an upcoming conference this fall in Austin, which we sponsor every year or so. It deals with technical issues on Packet and TexNet within TPRS, as opposed to beginners packet seminars, and I suspect that the APRS stuff might be a topic on the agenda. Tentative date I think is set for Nov 9. (That already conflicts with the local SET and the monthly foxhunt, but I think our options were limited).

73 de Bob
WB5AOH

Robert Morgan
Austin Texas
morganb@admin.inetport.com

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268. Rock Bound GATE Radio

From: dkaszubski@why.net (dkaszubski)
Date: Mon, 09 Sep 1996 12:38:29 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <32347235.2E86@why.net>
Rendered body type: text/plain

After months being frustrated and seeing only 6 or 8 APRS stations on my map in the Dallas/Fort Worth area, I decided to put up an HF/VHF gateway at my home in Benbrook. WOW! What a difference. I now see 75 to 80 stations all over the country and beyond. Hopefully, everyone else in the area will see the same thing on 145.79Mhz and this may spawn more APRS activity.

BUT: This means dedicating an expensive HF radio to be locked on one frequency most of the time. Not my idea of fun. So, after scrounging around a bit, I came across an old Motorola rock bound hf rig that appears to be based on the Micor series. Unfortunately, since it was in commercial service, it only operates on USB, even though it has crystals for frequencies below 14 Mhz. After reading the DosAPRS docs, it appears this won't be a problem, just crystal it up for 10.1493Mhz USB and it should work fine with the KAM currently in service.

Questions:
1. Is this frequency a correct assumption?
2. Does anybody know any tricks to tuning up this rig?
3. Any experience with crystal companies for this setup? (I usually deal with Intenational Crystal out of Oklahoma)

Any comments or suggestions would be appreciated.

--
Dave Kaszubski   WB3FYV
dkaszubski@why.net   also: ustuia6v@ibmmail.com
Benbrook, Texas N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/

---

269. Re: [APRSSIG:4541] APRS SKYWARN

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 09 Sep 1996 13:41:10 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960909184110.006c80c4@tbcnet.com>
Rendered body type: text/plain

At 11:48 9/9/96 -0500, you wrote:
>Please allow me to push this issue once again! Here in Arkansas we have a
>broken down SKYWARN (Voice)Net. It all started out with good intensions
>and actually worked for a while. However, it has ended up with disasterous
>results. Skywarn storm spotters have been unable to report to the NWS
>which either directly or indirectly resulted in deaths due to lack of
>"public warnings". This is fact.

On this topic, is it fair to suggest that the APRS/WX/Skywarn capabilities be separated from the APRS/GPS group. Not so much on a different freq., but perhaps as a separate body?

After all, the APRS/WinAPRS/MacAPRS programs provide for a good tool for both interests, but there seems to be enuf diversity within the overall program to justify a separate WX/Skywarn group.

Just a thot.

jbl

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157

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270. (no subject)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Sep 1996 14:46:57 -0400 (EDT)
To: "Robert B. Morgan" <morganb@admin.inetport.com>
Cc: aprssig@tapr.org
Rendered body type: text/plain

```
Subject: Re: [APRSSIG:4542] Update APRS L3 (TexNet)
In-Reply-To: <199609091655.LAA01193@admin.inetport.com>
Message-ID: <Pine.GSO.3.95.960909144336.17062C-100000@arctic>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Yes, I think using the SSID as a hop counter makes sense.  I have been
proposing the WIDE-N algorithm for almost 2 years now where -N is the op
counter up to 7 and then becomes a routing indicator 8 and above.  But I
have always maintained that the DIGI code should allow the user
specification of this CALLSIGN.  APRS would probably use "WIDE" as the
default, but you could also use TEXNET-N or any other netname and this
would be a callsign that TEXNET's would do what-ever with...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

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271. Re: [APRSSIG:4543] Rock Bound GATE Radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Sep 1996 14:51:17 -0400 (EDT)
To: dkaszubski <dkaszubski@why.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960909144812.17062D-100000@arctic>
Rendered body type: text/plain

```
It depends on the audio tones of your KAM!  If it is an old KAM that uses
1600 and 1800 hz tones (1700 center) then subtract 2 * 1700 or 3400 HZ to
get the USB.  If it uses the new 2100 hz tones, then subtract 4200 Hz.

I have been trying to talk TEN-TEC into making a single freq HF radio just
ofr packet.  THey are interested if the demand is high.  CALL TEN TEC! and
ask to speak to their marketing manager...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

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272. Re: [APRSSIG:4513] Re: comments Version 77 aprs

From: Gary Arnold <garnold@naples.net>
Date: Mon, 09 Sep 1996 19:21:59 -0700
To: aprssig@tapr.org
Message-ID: <3234D0C7.12E7@naples.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Don Murray wrote:
> >
> > Bob, I have noticed on version 7.7 that the mixed upper/lower case in the
> > Wx beacon
> >
> > My station is showing the following after the normal location info
> > _289/000/T076/R000p000b0107h00g000U2k
> >
> > I have also noted that no matter how you enter the beacon comments, it is
> > stored as uppercase characters..
> >
> > Just a little think BOB, but maybe something you may want to fix before 77a
> > release..
> >
> > Thanks
> > Don
> > AE4BR
>
> Strange i have been running version 77 and haven't seen that problem. Maybe
> system related.
> --
>      Check out my A.P.R.S Web Page.
>        Totally Devoted to APRS
>    To go straight to the Mentor Page:
> http://www.concentric.net/~wa8inz/NEWPAGE.HTM
>     http://www.concentric.net/~wa8inz
```

```
>
>                  \////
>                  (o o)
>            *--o00-(_)-00o--*
>              Bill WA8INZ
>            wa8inz@cris.com
>            wa8inz@amsat.org
```

All caps here...all computers tried...
73,
Gary

--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary

---

273. Re: [APRSSIG:4543] Rock Bound GATE Radio

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Mon, 09 Sep 1996 14:31:03 -0500
To: aprssig@tapr.org
Message-ID: <3.0b15.32.19960909143101.006e17b4@144.188.134.33>
Rendered body type: text/plain

Don't order those crystals just yet. 10.1493 Mhz is the "proper" freq for 30 m aprs alright, proper for the average of the mark and space (1600/1800 or is it 1800/1600 hz) tones. When using a KAM+, the radio is usually dialed to 10.1510 Mhz LSB, which then puts the average of the two tones on 10.1510 - 0.0017 = 10.1493 Mhz. I believe the KAM+ has the ability to interchange mark and space by issuing a command, thus it should be possible to put the radio on 10.1493 - 0.0017 = 10.1476 Mhz USB. If you want I can try this at home tonight and let you know if it works. Has anybody done this?

By the way, radios that are of recent enough age so as to not allow "out of band" TX, will give you a problem when pressed into 30 aprs service. This is because the radio dial says 10.151 which of course is 1Khz out of band, and it will not TX. A simple "MARS" modification can fix that.

At 12:51 PM 9/9/96 -0500, you wrote:
.> After reading the DosAPRS docs, it appears
>this won't be a problem, just crystal it up for 10.1493Mhz USB and it
>should work fine with the KAM currently in service.
>
>Questions:
>1. Is this frequency a correct assumption?
Paul, WD9ABE

---

274. APRS77a.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Sep 1996 17:20:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960909171754.15798A-100000@arctic>
Rendered body type: text/plain

I just posted aprs77a.zip and the upgrade files 77to77a and 76to77a.zip

These fix several of the recent problems, but it does not yet contain the code to support the WeatherMAX weather instrument. I got no feedback that anyone was using this WX station so I wanted to go ahead with 77a anyway.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

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275. Re: [APRSSIG:4548] Re: Rock Bound GATE Radio

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 9 Sep 96 17:15:36 -0400

To: <aprssig@tapr.org>
Message-ID: <199609092112.RAA09594@bridge.net>
Rendered body type: text/plain

```
>Don't order those crystals just yet. 10.1493 Mhz is the "proper" freq for
>30 m aprs alright, proper for the average of the mark and space (1600/1800
>or is it 1800/1600 hz) tones. When using a KAM+, the radio is usually
>dialed to 10.1510 Mhz LSB, which then puts the average of the two tones on
>10.1510 - 0.0017 = 10.1493 Mhz. I believe the KAM+ has the ability to
>interchange mark and space by issuing a command, thus it should be possible
>to put the radio on 10.1493 - 0.0017 = 10.1476 Mhz USB. If you want I can
>try this at home tonight and let you know if it works. Has anybody done this?
>
Don't need to do that...(someone correct me if I get this wrong), but
information in HF and VHF packet is conveyed by transitions in the tones,
not in the tone itself. It doesn't matter if the radio is tuned to upper
or lower sideband.

>By the way, radios that are of recent enough age so as to not allow "out of
>band" TX, will give you a problem when pressed into 30 aprs service. This
>is because the radio dial says 10.151 which of course is 1Khz out of band,
>and it will not TX. A simple "MARS" modification can fix that.
>
I've been using USB on my Kenwood 870 for just that reason, I haven't
seen the mod for it yet. My Yaseu FT-900, even before the mod, worked
from 10.000 - 10.500, so not all radios will have this problem.

Steve KO4HD
```

---

276. Re: [APRSSIG:4544] Re: APRS SKYWARN

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 9 Sep 96 17:42:09 -0400
To: <aprssig@tapr.org>
Message-ID: <199609092139.RAA11827@bridge.net>
Rendered body type: text/plain

```
>On this topic, is it fair to suggest that the APRS/WX/Skywarn capabilities
>be separated from the APRS/GPS group.  Not so much on a different freq., but
>perhaps as a separate body?
>
>After all, the APRS/WinAPRS/MacAPRS programs provide for a good tool for
>both interests, but there seems to be enuf diversity within the overall
>program to justify a separate WX/Skywarn group.
>
Are you proposing a separate sig and/or mailing list? If so, I vote
no...I think the weather aspect of APRS is something that affects and
interests many, if not most, people on this sig. I belong to too many
mailing lists already, hi.

Steve KO4HD
```

---

277. Re: [APRSSIG:4543] Rock Bound GATE Radio

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 08 Sep 1996 22:04:53 -0400
To: aprssig@tapr.org
Message-ID: <199609092205.SAA24764@grumpy.magg.net>
Rendered body type: text/plain

```
Very interesting! Could you please send me the model number of this radio ?
It may be a keeper for the hamfest list and browsing thru the back of trade
journals. I am in the trade and wound not mind doing some research on it and
see if I can find a source for these. I would guess that they are not too
popular on the used market so the price may be right if we can find a stash
of them sitting in some warehouse.

SNIP>>>
>BUT:  This means dedicating an expensive HF radio to be locked on one
>frequency most of the time.  Not my idea of fun.  So, after scrounging
>around a bit, I came across an old Motorola rock bound hf rig that
>appears to be based on the Micor series.  Unfortunately, since it was in
>commercial service, it only operates on USB, even though it has crystals
>for frequencies below 14 Mhz.  After reading the DosAPRS docs, it appears
>this won't be a problem, just crystal it up for 10.1493Mhz USB and it
>should work fine with the KAM currently in service.
>
>
>Dave Kaszubski      WB3FYV
>dkaszubski@why.net     also:  ustuia6v@ibmmail.com
>Benbrook, Texas  N 32 40.319'   W 097 26.844'
```

>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net   (E-Mail)
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html   (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)

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278. Re: Rock Bound GATE Radio

From: wa4mej@juno.com (john w dent)
Date: Mon, 9 Sep 1996 17:09:29 PST
To: aprssig@tapr.org
Message-ID: <19960909.170933.4607.0.wa4mej@juno.com>
Rendered body type: text/plain

I HAVE A PROBLEM
by suggesting one to put there carrier out side the band with out
knowing what type of equipment it is is a NO NO i ,for one will not TX
on 10151,carrier freq, due to the fact my ticket does not include that
freq. does your's???
have fun...
  HELLO   NOT IN ALL CAPS   take a hike and a cocoe......
john
On Mon, 9 Sep 1996 14:43:15 -0500 (CDT) Paul Moller
<Paul_Moller@csg.mot.com> writes:
>Don't order those crystals just yet. 10.1493 Mhz is the "proper" freq
>for
>30 m aprs alright, proper for the average of the mark and space
>(1600/1800
>or is it 1800/1600 hz) tones. When using a KAM+, the radio is usually
>dialed to 10.1510 Mhz LSB, which then puts the average of the two
>tones on
>10.1510 - 0.0017 = 10.1493 Mhz. I believe the KAM+ has the ability to
>interchange mark and space by issuing a command, thus it should be
>possible
>to put the radio on 10.1493 - 0.0017 = 10.1476 Mhz USB. If you want I
>can
>try this at home tonight and let you know if it works. Has anybody
>done this?
>
>By the way, radios that are of recent enough age so as to not allow
>"out of
>band" TX, will give you a problem when pressed into 30 aprs service.
>This
>is because the radio dial says 10.151 which of course is 1Khz out of
>band,
>and it will not TX. A simple "MARS" modification can fix that.
>
>At 12:51 PM 9/9/96 -0500, you wrote:
>.> After reading the DosAPRS docs, it appears
>>this won't be a problem, just crystal it up for 10.1493Mhz USB and it
>
>>should work fine with the KAM currently in service.
>>
>>Questions:
>>1. Is this frequency a correct assumption?
>Paul, WD9ABE
>
>

---

279. Re: [APRSSIG:4544] Re: APRS SKYWARN

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 08 Sep 1996 22:16:03 -0400
To: aprssig@tapr.org
Message-ID: <199609092216.SAA25307@grumpy.magg.net>
Rendered body type: text/plain

I agree that a seperate frequency may be a good idea for mature APRS areas
but two things must be thought of.

1) Non Mature areas may not have enough users to upport two systems. Some
may chose to be part of one group while others will chose another. There are
not enough of us out there yet to support two groups with enough interest to
keep 2 frequencies alive. I am not talking about just the SE but the whole
East Coast in general, with all the sig members sometimes we lose sight that
we are still a "small" number of amateurs. The sig makes APRS look like
there are thousands of users out there all over the country.

2) A Skywarn net does need a large coverage area. Reports from the local area are good but not good enough considering you want to have enough data to make this useful. Heck doppler radar gives us a lot of data as is, we need to offer the NWS more than just limited local reports to be useful. I do not know about you but frequencies are NOT a dime a dozen in this area and neither is money. To build another APRS network that has a viable range would require both of that. Not only is it expensive to get the equipment but difficult to find good sites, I am not talking about "Joe's 35ft Tower" I am speaking about 200+ feet. I think it would be a waste of money, users, and resources to split up.

Some day it may be necessary but in this area we have our hands full scraping up enough money for what we have and the users to make it worth while. I can't see any of us trying to do it all over again just to accomplish what we can already do. The frequencies are bad enough to boot, I do not want to add to the mess with more transmitters than are needed to get the job done.

snip**
>On this topic, is it fair to suggest that the APRS/WX/Skywarn capabilities
>be separated from the APRS/GPS group. Not so much on a different freq., but
>perhaps as a separate body?
>
>After all, the APRS/WinAPRS/MacAPRS programs provide for a good tool for
>both interests, but there seems to be enuf diversity within the overall
>program to justify a separate WX/Skywarn group.
>
>Just a thot.
>
>jbl
>---
>J Barry Leonard/N9VJQ
>DeKalb IL
>E-MAIL: jleonard@tbcnet.com
>WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
>American Red Cross Disaster Services - DeKalb Co Chapter
>DR444 DR157
>
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net (E-Mail)
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
http://www.magg.net/~n2czf/brothers.html (Brothers to the Rescue Human Rights Group)

280. Re: [APRSSIG:4515] Re: Dissapointed

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 09 Sep 1996 18:58:14
To: aprssig@tapr.org
Message-ID: <199609092259.SAA11254@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

On Sun, 8 Sep John M Domblewski wrote:

>... I also believe that perhaps a post on the newsgroup
>rec.radio.amateur.digital.misc might help to get more
>people involved ...

Oh, NO! I don't know about anybody else who've chosen to be on Bill's "elmer" list, but I, for one, DON'T want that to be connected with the usenets! I just left AOL because of all the SPAM I was getting there. Imagine the volumes of garbage we'd receive given that kind of distribution.

Let's keep such access limited to those who've expressed interest in APRS (by following Bill's links) rather than being open to general consumption by the hordes. I'll be glad to assist ANYBODY who actually needs or wants it, but I DON'T want tons of SPAM, nor the riff-raff often associated with usenet. That's why, whenever the thread comes up here as to whether we should open the SIG up to that venue or leave it here it always gets voted down. 73

Arte Booten <N2ZRC@gnn.com>

```
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.
```

281. Re: [APRSSIG:4551] Re: APRS SKYWARN

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 09 Sep 1996 18:20:00 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960909232000.006c1b98@tbcnet.com>
Rendered body type: text/plain

```
Nope!  Just letting the WX people run APRS to suit the WX/SKYWARN needs.
And the GPS people doing their thing.

I think we all can co-exist.

jbl


At 17:00 9/9/96 -0500, you wrote:
>>On this topic, is it fair to suggest that the APRS/WX/Skywarn capabilities
>>be separated from the APRS/GPS group.  Not so much on a different freq., but
>>perhaps as a separate body?
>>
>>After all, the APRS/WinAPRS/MacAPRS programs provide for a good tool for
>>both interests, but there seems to be enuf diversity within the overall
>>program to justify a separate WX/Skywarn group.
>>
>Are you proposing a separate sig and/or mailing list? If so, I vote
>no...I think the weather aspect of APRS is something that affects and
>interests many, if not most, people on this sig. I belong to too many
>mailing lists already, hi.
>
>Steve KO4HD
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

282. Macon Ga Digi

From: kc4zgq@ix.netcom.com (JOHN F. KRAUS II)
Date: Mon, 9 Sep 1996 17:45:49 -0700
To: aprssig@tapr.org
Message-ID: <199609100045.RAA20129@dfw-ix5.ix.netcom.com>
Rendered body type: text/plain

```
This is the fourth attempt to send this to the sig.  I get it at my other isp with
no problem but it does not show on the sig. appoloies if the other copies show
later.



>Now if we could just get the folks in Macon GA and South to put up digis
>(and in Macon's case: a real digi) we can begin to see I-75 coverage for 3-4
 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
To Ralph and the SIG I have placed on the air a dedicated station that is
working reliably as a WIDE-RELAY digi.  WB4BDP and I are the only stations
that routinely run on a twenty four hour basis.

I have been unable to locate a site on a tower and am unable to afford
to buy my own.  If Ralph has any suggestions I would like to hear them.
About a year ago I e-mailed him but was not answered.

I would also like to know what he considers a "REAL DIGI".
Most likely about a grands worth of surplus commercial gear, hardline,
cavity filters, and access to a commercial site on a mountain top.

My definition of a "REAL DIGI" is one that is placed and maintained
on the air for the enjoyment of the ham community.  It should be open to
all who wish to use it.  It should be available on a reliable basis with
only minor down-time for maintenance.  It should be taken off the air or
worked into the system if a better option becomes available.

The MACON Wide-Relay digi has been in operation for over a year on a
```

continuous 24 hour a day basis. I am using a beam to reach the atlanta area; this precludes coverage to the south along I-75. I would like to improve this situation but can not do it alone. To date I have made several offers to various ham groups locally to hold training sessions. The last offer was to bring a computer to a pending SKYWARN Training session to demo APRS before or after the meeting. I was told that the timing would not work. If a site can be found I am willing to work with anyone to get a good permanent digi on the air. When this is accomplished I will be the first to set my station to conform to the new network.

>states down here. It would also be great to see the Savannah folks in the
>"rest" of the net.

I absolutely agree.

Ralph Fowler
rwf@mindspring.com

Ralph please do not consider this a flame. It is a response to your attack on my attempt to fill a need in the central georgia area. I find the situation as frustrating as you do. When I placed my station on the air it was with the hope that it might stimulate some interest.

I posted this to the SIG due to that venue being the first place complaints were aired. I have always attempted to use correct paths and to set the system to fit within the net. If I can improve this I will.

Unless comments are related to the aprssig please reply directly to:

<KC4ZGQ@IX.NETCOM.COM> OR <JKHAM@INTERNETMCI.COM> JOHN F. KRAUS II

---

283. APRS & APRS SKYWARN

From: Lorie and/or Al Zelna <ldajz@epix.net>
Date: Mon, 09 Sep 1996 21:06:26 +0000
To: aprssig@tapr.org
Message-ID: <323486D2.347B@epix.net>
Rendered body type: text/plain

I've begun reading the threads on this topic and am a bit concerned. It seems that general concensus is for seperate frequencies since SKYWARN is a "regional" problem. I think this is wrong.

Here in NE PA we are still in the infancy stage of APRS, but have a strong following of Hams who are active both in Packet and SKYWARN. We are also lucky to have licensed staff at our NWS office in Binghamton, NY. (ie: no need to worry about control op's) This just happens to be one our biggest future attractors for boosting APRS involvement. Instead of shunning those interested in "helping" a SKYWARN net from the rest of the "regional" action, why not utilize a TNC's dual-alias capability in a different way than originally professed. This is a spin-off of the WIDE-n idea.

For example: Let's say we have an NWS office station; N3XXX, two WIDEs that can hear the NWS; WA3ABC and WA3XYZ, and another WIDE that hears both of those WIDEs, but not the NWS; AA3ZZ. Of course, the best laid plans often fail, but if a SKYWARN-participating digi would use the aliases of WIDE and WX# this plan may work and limit overloading the frequency.

The NWS station would set an UNPROTO of APRS VIA WX1,WX2 etc. (NO WIDEs). If WA3ABC was set as WX1 and AA3ZZ was set as WX2, SKYWARN info could be passed to those areas interested without "disturbing" the WA3XYZ area. This chain could be extended to WX3 and WX4 if the owner of the digis allowed those aliases to be added/edited, as long as they were spaced and named properly. This would also work if another "chain was decided to go in a different direction. (ie: starting at WX1).

Coordination and cooperation is the key in every aspect of our chosen hobby. It is up to those involved and concerned with its well-being to take strides in accomodating change and improvement in it.

Flame if you must,

73 de N3KAE

---

284. Re: [APRSSIG:4530] Re: Burned by PK-12 again!

From: Tom Carpenter <wb8vji@tir.com>
Date: Mon, 09 Sep 1996 21:16:29 +0500

To: aprssig@tapr.org
Message-ID: <32344270.3600@tir.com>
Rendered body type: text/plain

```
Roger Breckon wrote:
>
> Bob Bruninga wrote:
> >
> > Visiting a new station (also the 1st station on the air in a new city), I
> > drove to his DRIVEWAY and he still couldnt see me!  We pulled our hair
> > out, and his rig would hear otehr stations but ignore my packets.
> >
> > How soon we forget.....   I finally remembered that the stupid PK-12
> > (older version) does *NOT* display packets that it itself digipeats!
> > (Is this still true?  How about other AEA products???)
> >
> > So of course, his station had the alias of RELAY, and sicne he was the
> > only one in town, I was transmitting via RELAY...   ERGO the
> > PK-12 digipeated my packets but never passed them along to the PC!
> >
> > I was in a rush to meet family committments, but we couldnt find the
> > command in the manuual before I had to leave.  But ther is a command in
> > the PK-12 so that it will monitor packets that it digipeats, too bad it
> > defaults to OFF!!!
> >
> > Reply mail addr: wb4apr@amsat.org
> > See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
> ================================================================
> Bob,
>
> I have a 88 card and a pk900 and don't believe they will print to the
> screen digipeated packets.
> All I see is my rig s red tx lamp go on. Not real cool!
> If anyone does know how to do this please let me know?
>
> 73,
>
> Roger n8chb
Hi Tom here in Owosso Mi.  Set mdigi to on.


73  Tom Carpenter
WB8VJI
wb8vji@tir.com
```

---

285. ROCK BOUND ON 10.151

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Mon, 9 Sep 96 21:00 EDT
To: aprssig@tapr.org
Message-ID: <m0v0HCF-000QgcC@nevets.oau.org>
Rendered body type: text/plain

```
John wrote:
-------------------------
Date: Mon, 9 Sep 1996 17:27:31 -0500 (CDT)
From: alfred!ucf-cs!juno.com!wa4mej (john w dent)
To: aprssig@tapr.org
Subject: [APRSSIG:4553] Re: Rock Bound GATE Radio

I HAVE A PROBLEM
by suggesting one to put there carrier out side the band  with out
knowing what type of equipment it is is a NO NO  i ,for one will not TX
on 10151,carrier freq,  due to the fact my ticket does not include that
freq. does your's???
have fun...
  HELLO                 NOT IN ALL CAPS    take a hike and a cocoe......
john

=========================================================================

John,

It is really 10.151 Lower Sideband.

Back to the abacus!

                             Geoffrey, wa4ikq@nevets.oau.org
```

286. SHIRTS

```
From: KD4EMI@aol.com
Date: Mon, 9 Sep 1996 22:08:42 -0400
To: aprssig@tapr.org
Cc: Aprs-fl@tapr.org
Message-ID: <960909220840_281348940@emout19.mail.aol.com>
Rendered body type: text/plain
```

```
It is funny how things happen...

Went to get shirts...they had big iron like scorches on them...
NO GOOD....  Got into a pissing contest with them and said F it..

Drove by another place... Gave them the idea for the logo, they made it right
then as I waited in a TWO COLOR version for same price !!

Shirts will be ready FRIDAY !!

See you at the hamfest !
Michael
(ps for the FL Group hooters sounds great !! )
```

---

287. Re: [APRSSIG:4538] Re: WIDE,WIDE,WIDE?

```
From: Joseph Willis <jwillis@vir.com>
Date: Mon, 09 Sep 1996 22:43:49 -0400
To: aprssig@tapr.org
Message-ID: <3234D5E5.CF6@vir.com>
Rendered body type: text/plain
```

```
> Wait a min! Not being critical of you, Al. But, shouldn't that be
> WIDE,WIDE,N3ZZZ? Or have I got it backasswards?

The word is 'bassackwards".  Thank you.
```

---

288. APRS77a *STOP*

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Sep 1996 23:01:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960909225851.28493A-100000@arctic>
Rendered body type: text/plain
```

```
ARGH. after hours of uploading and copying, I just decided to recall 77a.
It has a bug when responding to a prompt if you just hit carriage return.
In this case, it will not give you the default...

I decided to cut it off at the knees!  If you already downloaded it,
please go ahead an use it and report any further bugs ASAP.  But If you
dont have it, then wait...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

289. Re: [APRSSIG:4552] Re: Rock Bound GATE Radio

```
From: dkaszubski@why.net (dkaszubski)
Date: Mon, 09 Sep 1996 22:37:56 -0700
To: aprssig@tapr.org
Message-ID: <3234FEB4.439D@why.net>
Rendered body type: text/plain
```

```
Richard Garcia wrote:
>
> Very interesting! Could you please send me the model number of this radio ?
> It may be a keeper for the hamfest list and browsing thru the back of trade
> journals. I am in the trade and wound not mind doing some research on it and
> see if I can find a source for these. I would guess that they are not too
> popular on the used market so the price may be right if we can find a stash
> of them sitting in some warehouse.

It's a Motorola Model L70SGC1180BM, looks like a Micor mobile unit
stuffed into a big (6h x 18w x 24d) case with a power supply, speaker,
and all the usual front panel controls.  This one is a 12 channel with an
S/RF meter.  The whole thing weighs about 100 pounds and I have seen them
at hamfests for about a dollar a pound, albeit rarely.  This case would
probably fit any of the Micor trunk mount modules, the PA cooling fins
hang out the back.  I got this one from the recycle heap of the company I
work for so I gotta put it to Ham Radio Club use, not personal.  That
just means I'll move the GATE to our repeater site in Glen Rose one of
these days ;-)  The last time I had it turned on it put out about 150
```

```
watts, the built in time-out timer limited key down to 3 minutes but it
didn't even get warm after that much time.  This thing had "Remote
Location" written all over it!  I think the crystal elements are pretty
common, but if you find one with a couple elements already it it,
crystals are typically $15 - $20.   Any info would be appreciated!



--
Dave Kaszubski      WB3FYV
dkaszubski@why.net     also:  ustuia6v@ibmmail.com
Benbrook, Texas  N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/
```

290. Re: [APRSSIG:4558] APRS & APRS SKYWARN

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Mon, 09 Sep 1996 23:48:21 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960910034821.0068e710@bluenet.net>
Rendered body type: text/plain

```
At 08:14 PM 9/9/96 -0500, you wrote:
>I've begun reading the threads on this topic and am a bit concerned.  It
>seems that general concensus is for seperate frequencies since SKYWARN
>is a "regional" problem.  I think this is wrong.
>
I happen to agree. The more useful communications that we can get out on
APRS will not only boost our cause but show a need for the software. ARES
and RACES and SKYWARN are all welcome in North Carolina on 145.790 as long
as using APRS for nessecary communications only. No hour long rag chews.
Just the facts and the info that is important to the Storm, fire, flood, etc...

Be more tolerant. Digital hams want storm info too..

73,
Jamie R. Dean - KE4HTM

DALNet IRC Channel: #rag_chew

+----------------------------------------+
|            Jamie R. Dean               |
|             P.O. Box 942               |
|   Rutherford College, North Carolina   |
|                28671                   |
|        Amateur Radio:   KE4HTM         |
|        E-Mail: ke4htm@bluenet.net      |
+----------------------------------------+
```

291. Re: [APRSSIG:4555] Re: Dissapointed

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 10 Sep 1996 00:44:33 -0400
To: aprssig@tapr.org
Message-ID: <3234F231.48E9@global2000.net>
Rendered body type: text/plain

```
Arte Booten wrote:
>
> Hi All,
>
> On Sun, 8 Sep John M Domblewski wrote:
>
> >... I also believe that perhaps a post on the newsgroup
> >rec.radio.amateur.digital.misc might help to get more
> >people involved ...
>
>      Oh, NO!  I don't know about anybody else who've chosen to
> be on Bill's "elmer" list, but I, for one, DON'T want that to
> be connected with the usenets!  I just left AOL because of all
> the SPAM I was getting there.  Imagine the volumes of garbage
> we'd receive given that kind of distribution.
>
>      Let's keep such access limited to those who've expressed
> interest in APRS (by following Bill's links) rather than being
> open to general consumption by the hordes.  I'll be glad to as-
> sist ANYBODY who actually needs or wants it, but I DON'T want
> tons of SPAM, nor the riff-raff often associated with usenet.
> That's why, whenever the thread comes up here as to whether we
> should open the SIG up to that venue or leave it here it always
> gets voted down.  73
>
>                Arte Booten <N2ZRC@gnn.com>
>  (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> I am initiating an inverted tachyon pulse to those coordinates now.


Hello Art

I have only one question: How do we increase the number of hams involved
with APRS if we don't tell anybody?


TNX

John
```

---

292. Re: [APRSSIG:4557] Macon Ga Digi

From: William Nolle <wa8inz@cris.com>
Date: Tue, 10 Sep 1996 00:53:48 -0700
To: aprssig@tapr.org
Message-ID: <32351E8C.2F67@cris.com>
Rendered body type: text/plain

```
JOHN F. KRAUS II wrote:
>
>
> The MACON Wide-Relay digi has been in operation for over a year on a
> continuous 24 hour a day basis.  I am using a beam to reach the atlanta
> area; this precludes coverage to the south along I-75.  I would like to
> improve this situation but can not do it alone.  To date I have made
> several offers to various ham groups locally to hold training sessions.
> The last offer was to bring a computer to a pending SKYWARN Training
> session to demo APRS before or after the meeting.  I was told that the
> timing would not work.  If a site can be found I am willing to work with
> anyone to get a good permanent digi on the air.  When this is accomplished
> I will be the first to set my station to conform to the new network.
> ------------------- SNIP -------------

John don't let that bother you, i don't want to start a flame but take it with
a grain of salt. It's not any good unless it's controlled by Atlanta people i
guess. I don't have any problem with your digi showing here in North Alabama at
all, as far as i can see it works just great. Yes i agree there could be more
digi's but then again we have some pretty good once. Then we have one that's in
a perfect location that's realy messing things up here in North Alabama. The
one located on Mnt Cheaha is a great digi if it could only hear. It sends out a
great signal (I can hear it direct) but it can't receive worth a darn, if it
could that would be a great link from Alabama to Georgia. Anyway John hang in
there your doing ok in my book.

--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

293. Re: [APRSSIG:4565] Re: APRS & APRS SKYWARN

From: William Nolle <wa8inz@cris.com>
Date: Tue, 10 Sep 1996 01:06:29 -0700
To: aprssig@tapr.org
Message-ID: <32352185.6739@cris.com>
Rendered body type: text/plain

```
Jamie R. Dean wrote:
>
> At 08:14 PM 9/9/96 -0500, you wrote:
> >I've begun reading the threads on this topic and am a bit concerned.  It
```

> >seems that general concensus is for seperate frequencies since SKYWARN
> >is a "regional" problem. I think this is wrong.
> >
> I happen to agree. The more useful communications that we can get out on
> APRS will not only boost our cause but show a need for the software. ARES
> and RACES and SKYWARN are all welcome in North Carolina on 145.790 as long
> as using APRS for nessecary communications only. No hour long rag chews.
> Just the facts and the info that is important to the Storm, fire, flood, etc...
>
> Be more tolerant. Digital hams want storm info too..
>
> 73,
> Jamie R. Dean - KE4HTM
>

Jamie i agree but not all of it, What one person consideres nessecary, may
not be so to another. And hour long rag chews are very common here, and it
has been that way ever since there where only two of running APRS here in
North Alabama. I don't agree with the idea that we should curtail our use of
the way we have been using APRS in the past and present. This is exactly why
i am saying it would be a good idea to have a comitted frequency for those
very important functions like Skywarn, Races etc. You can't expect someone
300 or 400 miles away to clear the frequency because there's some bad
weather in a distant location (They didn't for us when 13 people got killed
in a tornado here). I just think it would make good sence to make a move
now.

```
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

294. Re: APRS & APRS SKYWARN

From: n8chb@juno.com (Roger Breckon)
Date: Tue, 10 Sep 1996 05:44:28 PST
To: aprssig@tapr.org
Message-ID: <19960910.054429.7758.1.n8chb@juno.com>
Rendered body type: text/plain

Nope I do not agree.

As much as I like and support the use of aprs software I don't feel
anyone can dictate
to other amateurs what kind of commercial software they can or can not
use on ham bands.

thanks,

Roger n8chb

295. Re: [APRSSIG:4540] Re: comments Version 77 aprs

From: "Don Murray" <james-m@ix.netcom.com>
Date: Tue, 10 Sep 1996 02:04:21 -0400
To: <aprssig@tapr.org>
Message-ID: <199609100604.XAA02980@dfw-ix1.ix.netcom.com>
Rendered body type: text/plain

I think what had me puzzled was the mixed upper and lower case.. Not a big
deal by any means, just something that I had noticed.. Think your doing and
excellent job, and by all means keep up the good work..

Don

> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4540] Re: comments Version 77 aprs
> Date: Monday, September 09, 1996 10:31 AM
>
> On Sun, 8 Sep 1996, Don Murray wrote:

```
>
> > I have noticed on ver 7.7 mixed upper/lower case in the Wx beacon
> > My station is showing the following after the normal location info
> > _289/000/T076/R000p000b0107h00g000U2k
> >
> > I have also noted that no matter how you enter the beacon comments, it
is
> > stored as uppercase characters..
>
> APRSdos REPLY/COMMENT:  That is the new WX format.  Lower case separators
> to make room for a 4 digit baro and the wind GUST field...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

---

296. Re: APRS SKYWARN freq

From: jack swift <jswift@up.net>
Date: Tue, 10 Sep 1996 08:06:55 -0500
To: aprssig@tapr.org
Message-ID: <9609101205.AB14061@btc1>
Rendered body type: text/plain

```
At 05:34 PM EST 9/9/96 -0500, you wrote:
>I agree that a seperate frequency may be a good idea for mature APRS areas
>but two things must be thought of.
>
>1) Non Mature areas may not have enough users to upport two systems.

i've got to agree with this wholeheartedly! we don't even have 145.79
operating yet! we two users of the program are on the local lan frequency
with a few (5) people beaconing their posits out of politeness for us and we
share the lan with an msys bbs and two active mailboxes.
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

297. Re: [APRSSIG:4537] Re: SPCL mode works!

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Tue, 10 Sep 1996 07:31:37 -0500
To: <aprssig@tapr.org>
Message-ID: <9609101308.AB05513@dfw.dfw.net>
Rendered body type: text/plain

```
From: J. Scott Ratchford, KC5JGV <jratchf@bulldog.afsc.k12.ar.us>

> Would it be possible to add ALT-SETUP-MODE-SKYWARN? It was suggested (on
> this sig) that we should set-up our own freq. Well, here in "hillbilly"
---snip!
>I'm suggesting a specific
> SKYWARN for use in hurricans, tornados and such. Suggestions Please?
---snip!
> J. Scott Ratchford - KC5JGV - Marshall, Arkansas

This sounds interesting.  If not labeled SKYWARN mode, how about Emergency
Services Mode...  Ya, ya, I'm going to search the doc's for Special mode
now.

Cheers, Bill Neal
http://www.dfw.net/~wmn3/
```

---

298. Re: [APRSSIG:4564] Re: Rock Bound GATE Radio

From: David Wells <davew@cruzio.com>
Date: Tue, 10 Sep 1996 08:38:59 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9609100634.aa03663@cruzio.com>
Rendered body type: text/plain

```
>
>It's a Motorola Model L70SGC1180BM, looks like a Micor mobile unit
>stuffed into a big (6h x 18w x 24d) case with a power supply, speaker,
>and all the usual front panel controls.  This one is a 12 channel with an
>S/RF meter.  The whole thing weighs about 100 pounds and I have seen them
>at hamfests for about a dollar a pound, albeit rarely.  This case would
```

>probably fit any of the Micor trunk mount modules, the PA cooling fins
>hang out the back. I got this one from the recycle heap of the company I
>work for so I gotta put it to Ham Radio Club use, not personal. That
>just means I'll move the GATE to our repeater site in Glen Rose one of
>these days ;-) The last time I had it turned on it put out about 150
>watts, the built in time-out timer limited key down to 3 minutes but it
>didn't even get warm after that much time. This thing had "Remote
>Location" written all over it! I think the crystal elements are pretty
>common, but if you find one with a couple elements already it it,
>crystals are typically $15 - $20.   Any info would be appreciated!
>
>
>
>--
>Dave Kaszubski   WB3FYV
>dkaszubski@why.net   also: ustuia6v@ibmmail.com
>Benbrook, Texas N 32 40.319'   W 097 26.844'

Can you get the spec's on the sideband offset xtal and obtain another one that will place it on LSB?

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA

---

299. SKYWARN PART 2

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 10 Sep 1996 08:53:31 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609101356.IAA30192@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

First, Thanks for all the replies to the original message, both on the sig and private.

There are several very intersting idea out there that should be reviewed. Please allow me my replies:

Here is a quote from the March 1995 issue of QST, p. 114.

"This goal of this Special Interest Group (SIG) is to provide a forum for people interested in APRS so that they can ask questions, compare notes and exchange ideas. They'll discuss things pertaining to APRS, such as GPS, GPS units, applications of GPS and APRS (eg, automatic weather-reporting APRS used by hams who report the progress of hurricanes to the National Weather Service Hurricane Information Center in Miami), using APRS in public events like bike-athons, and in emergencies."

I have always concidered SKYWARN as an emergency service that we volunteer for. I've also always looked at APRS as a potential tool for use in SKYWARN. Let me let you in on another little secret while we're on this subject. According to the NWS in Little Rock, Doppler radar has an effective tornatic detection radius of only 80 miles! Case in point: the F5 tornado in Ft. Smith in which neither NWS office in Little Rock nor Tulsa were able to detect and warn those people. There was NO "offical" warning! However, there were several hams spotting WELL in advance! The doppler radar in Little Rock is also placed at a LOWER elevation that I am here and we have serval mountains in between us! They have admitted that the radar cannot "see" below 10,000 feet in this area. That is just the way it is. I'm sure there are other simular areas around the country and people are unaware of the exact coverage. Go visit your local NWS office and see if they are able to observe the weather down to the 2,000 foot level. I';m not trying to beat down the system, that is not the goal here. I just wanted you to know that we rely too much on the doppler radar and take it for granted that it "sees" all! Not so. But that is why we still have the SKYWARN Nets and spotters like us. Again, I forsee APRS as a vital tool in that.

Another reason I am bringing this to the forefront of the sig as well as looking for more ideas and suggestions, is that the fall storm season is forthcoming, not to mention the current peak of the hurricane season and all the spin-offs of those things once they make landfall. I'll be heading down to see the NWS after I get back from a a trip to NY state (APRS mobile trip fer sure!) and want to be armed to the hilt with all the answers to the questions that are going to arise. Imposible right!?

As to separate freqs for the "important functions like ARES, RACES and SKYWARN" well I both agree and disagree. There is no reason that all the

APRS stations must give or listen to a freq filled with SKYWARN (or other)
messages. But on the other hand, there is no reason, other that it hasn't
been implemented yet, that there can't be a shared freq that can handle
more than one "dedicated" network. I've seen and read the messages about
"TexNet" and "WX1, WX2...." and I think we're all hitting on the same
thing but need a forum to discuss this in detail. Any suggestions? (I vote
against another sig!) What happened to the APRS conference idea?

Again, thanks for all the sugestions and ideas! Keep them coming!

73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* North Arkansas Amateur Radio Society, Inc.
* Marshall Volunteer Fire Dept./EMS First Responder
* Calf Creek Lodge #426
* E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

---

300. hf operation

From: Roger Breckon <n8chb@tir.com>
Date: Tue, 10 Sep 1996 14:37:34 -0700
To: aprssig@tapr.org
Message-ID: <3235DF6E.4A18@tir.com>
Rendered body type: text/plain

>From time to time I see concern about out of band operations on 30 mtrs

Why is USB out of band and LSB not out of band?

Please check out this location for what I believe is a very good
explanation of Tuning HF Digital Signals and other helpful things
related to rigs etc.

URL:http://prairie.lakes.eom/~medcalf/ztx/tunehf.html

73

Roger n8chb

---

301. APRS Quake monitoring system

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Sep 1996 10:48:37 -0400 (EDT)
To: aprssig@tapr.org
Cc: seismo@sas.org
Message-ID: <Pine.GSO.3.95.960910103909.8502A-100000@arctic>
Rendered body type: text/plain

KJ6BU advises an article in the Amateur Scientist column of May
1996 Scientific American discusses the growing interest in monitoring
RF at the 0.1 to 10 Hz range for detecting earthquakes (at about 4 Hz).
Just hook the output of a 2 foot long rod wound with 50,000 turns of
#30 magnet wire to your sound blaster card via a pre-amp and you
can collect this data. What is needed is a mechanism for distributing
this data. KJ6BU suggests APRS (the Automatic Position Reporting
System which is an amateur radio position reporting network all over
California... and elsewhere).

My reply is that the raw data at 20 samples per second with an
8 bit A/D would require almost 20 bytes per second which would
saturate an APRS net. If, however, you did a FFT of the raw data
and continuously averaged the background noise level, then you
could set a "threshold" that would only transmit data when an
event or signal exceeded that threshold, say by 5%. The last CA
earthquake reportedly produced a signal 300 times the background
level... Periodically, say once every 15 minutes, you would send one
packet showing your background noise level. A packet would consist
of just 40 bytes, each byte representing the magnitude of energy
detected in each 0.25 Hz bin of the FFT. APRS would plot these
reports on the map.

I think that The Sproul Bros and I would be happy to make some
kind of symbol so that would display these magnitudes on the map,
either as color (red being big!) or as vertical BAR graphs at each
location. If you used your mouse cursor to select any station, then
the full FFT data for that station would be displayed.

Also, it would be easy to adapt a MIM telemetry module to do all of
the A/D and FFT and data computation and packetizing. ALl you would need
to do is hook up the rod antenna and preamp to a MIM and a tiny

```
2 meter radio.  This way, you could put the whole thing out in the
woods (Away from 60 Hz and manmade interference!) and run it on
solar power!

    KJ6BU left me no EMAIL address  but his phone number is (805)
649-5412 in Ojai, CA 93023.  The Article referenced this web site:
http://www.thesphere.com/SAS.  There was a REPLY address on this
project as seismo@sas.org.

If anyone wants to take this ball and run with it, go for it!  We need a
consensus on the data rate.  If the filtered data can be reduced to
a background level of about 1 packet every 15 minuntes or so, and maybe
a peak of 10 times that during thunderstorms, then I dont think any APRS
net would mind a 100 times or higher data rate when a REAL earthquake was
detected.  Remember, this signal PRECEEDS the quake!


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

302. Mobile APRS-WX and GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Sep 1996 10:53:57 -0400 (EDT)
To: Jon Brockmeier <brock@brockhouse.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960910104930.8502B-100000@arctic>
Rendered body type: text/plain

```
On Mon, 9 Sep 1996, Jon Brockmeier KB8SWB asked:

> Is there a way using APRS with a computer, TNC, radio, GPS, UltiiMeter
> weather equipment mount to a car, to report the position of the car and the
> true weather conditions

APRSdos REPLY/COMMENT: Not currently, but it could be done easily if there
was enough interest.  My approach would be the old push button manual
method.  APRS would talk to the TNC and GPS normally.  When you want to
make a WX report.  You push and hold a button for 3 seconds.

OOPS.  This would only work single port if you can make the WX sation and
the GPS talk at the same baud rate. (The TNC will work at any baud rate).

Otherwise, it will take a dual serial port laptop...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

303. Re: [APRSSIG:4573] Re: Rock Bound GATE Radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Sep 1996 11:07:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960910110630.8502H-100000@arctic>
Rendered body type: text/plain

```
On Tue, 10 Sep 1996, David Wells wrote:

> >It's a Motorola Model L70SGC1180BM, looks like a Micor mobile unit
> >stuffed into a big (6h x 18w x 24d) case with a power supply, speaker,
> >and all the usual front panel controls.  This one is a 12 channel with an
>
> Can you get the spec's on the sideband offset xtal and obtain another one
> that will place it on LSB?

APRSdos REPLY/COMMENT:  You cant change it to LSB that simply.  Why
bother?  Just use USB and tune twice the value of your TNC tones lower.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

304. Re: [APRSSIG:4553] Re: Rock Bound GATE Radio

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 10 Sep 1996 10:25:44 -0500
To: aprssig@tapr.org
Message-ID: <3.0b15.32.19960910102542.00691fb4@144.188.134.33>
Rendered body type: text/plain

```
My ticket also does NOT allow me to TX on 10.151 Mhz. And to some degree
your point is very valid, but not likely true.
```

The valid part is that I, like most other hams who have not really looked
at the TX signal with a spectrum analyzer, do not really know what the
spectral emissions are of my hf radio. Therefore setting a TX freq out of
the ham band is asking for trouble. On the other hand, the commercially
purchased radio (a Yaesu in my case) had to receive FCC type approval for
emissions. Therefore running SSB suppressed carrier with the dial set out
of band is probably OK in real life as long as one has control of the
modulation side bands and is confident of the radios frequency accuracy.
The same can be said of running less than a khz or two from the edge of the
band which MANY people do: One relies on the manufacturer to ensure that
the unwanted sideband suppression and carrier suppression on your radio are
as good or better as the radio that was submitted to the FCC for type
approval.

In any case there is another possible drawback to the 10.1476 Mhz USB radio
scenerio. That is that the receiver will be seeing more signals in the ham
band, depending on the filters that are available. The point is that the
packet signal is fairly narrow band, and many radios do not have the
flexibility to choose filters that will give you narrow bandwidth centered
1600 hz from the "carrier".

Ham radio is always fun!

At 05:27 PM 9/9/96 -0500, you wrote:
>I HAVE A PROBLEM
>by suggesting one to put there carrier out side the band with out
>knowing what type of equipment it is is a NO NO i ,for one will not TX
>on 10151,carrier freq, due to the fact my ticket does not include that
>freq. does your's???
>have fun...

Paul, WD9ABE

---

305. Re: [APRSSIG:4574] SKYWARN PART 2

From: William Nolle <wa8inz@cris.com>
Date: Tue, 10 Sep 1996 10:54:04 -0700
To: aprssig@tapr.org
Message-ID: <3235AB3C.731C@cris.com>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:
>
> First, Thanks for all the replies to the original message, both on the sig
> and private.
>
> There are several very intersting idea out there that should be reviewed.
> Please allow me my replies:
>
> As to separate freqs for the "important functions like ARES, RACES and
> SKYWARN" well I both agree and disagree. There is no reason that all the
> APRS stations must give or listen to a freq filled with SKYWARN (or other)
> messages. But on the other hand, there is no reason, other that it hasn't
> been implemented yet, that there can't be a shared freq that can handle
> more than one "dedicated" network. I've seen and read the messages about
> "TexNet" and "WX1, WX2...." and I think we're all hitting on the same
> thing but need a forum to discuss this in detail. Any suggestions? (I vote
> against another sig!) What happened to the APRS conference idea?
>
> Again, thanks for all the sugestions and ideas! Keep them coming!
>
> 73
> --
> J. Scott Ratchford - KC5JGV - Marshall, Arkansas
> * North Arkansas Amateur Radio Society, Inc.
> * Marshall Volunteer Fire Dept./EMS First Responder
> * Calf Creek Lodge #426
> * E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

O yes Daniel there is a very good reason to have that type of service on it's
own frequency, you must not have read my message very well. There are very
good reasons not to share freq's with Skywarn, Ares, Races, etc. Already i
have seen messages saying that there's no reason for APRS users to be having
local keyboard sessions, that Skywarn is a more important service etc, etc. I
agree as much as any ham i sure would that Skywarn and all the other related
services are great for what they do, i myself am very involved in this service
and that's why i'm saying it will never work sharing the frequency with other
APRS users, not if you are planning on such a service to grow. Skywarn or
Races or Ares etc cannot expect those users that have been here to make APRS
grow to what it is today to get off or even co-exist with those services,

because i already see a trend for those groups to take over and use the
network that others have built up over time for just that service and kick off
the person (Later) that did all the hard work. Again i'm not flaming, let me
make this clear to those that are ready hands on the keyboard and waiting to
flame me. Just my opinion again!.

```
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

306. Re: [APRSSIG:4576] APRS Quake monitoring system

From: William Nolle <wa8inz@cris.com>
Date: Tue, 10 Sep 1996 11:00:31 -0700
To: aprssig@tapr.org
Message-ID: <3235ACBF.3FBA@cris.com>
Rendered body type: text/plain

Bob Bruninga wrote:

>
>
>   KJ6BU advises an article in the Amateur Scientist column of May
> 1996 Scientific American discusses the growing interest in monitoring
> RF at the 0.1 to 10 Hz range for detecting earthquakes (at about 4 Hz).
> Just hook the output of a 2 foot long rod wound with 50,000 turns of
> #30 magnet wire to your sound blaster card via a pre-amp and you
> can collect this data. What is needed is a mechanism for distributing
> this data. KJ6BU suggests APRS (the Automatic Position Reporting
> System which is an amateur radio position reporting network all over
> California... and elsewhere).
>
>   My reply is that the raw data at 20 samples per second with an-------------------------- SNIP

SNIP ----------------------------------

Another excelent reason for that type of service to have it's own frequency.
can you imagine all this on 145.790, I can't.

```
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

307. Re: [APRSSIG:4576] APRS Quake monitoring system

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 10 Sep 1996 09:06:48 -0700 (PDT)
To: aprssig@tapr.org
Cc: Bill Lake <wlake@silcom.com>
Message-ID: <Pine.GSO.3.95.960910090216.17651A-100000@spork.callamer.com>
Rendered body type: text/plain

Now this is something that I think we in Central California could be
interested in! I am in Morro Bay some 80 miles from Ojai and WB6RIJ in
Santa Barbara some thirty miles. The "rod" antennas are constructed per
Scientific Amnerican. The big problem is no two meter path whatever.
Interesting idea tho! Cliff Buttschardt K7RR
On Tue, 10 Sep 1996, Bob Bruninga wrote:

>
>   KJ6BU advises an article in the Amateur Scientist column of May
> 1996 Scientific American discusses the growing interest in monitoring
> RF at the 0.1 to 10 Hz range for detecting earthquakes (at about 4 Hz).
> Just hook the output of a 2 foot long rod wound with 50,000 turns of
> #30 magnet wire to your sound blaster card via a pre-amp and you
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> this data. KJ6BU suggests APRS (the Automatic Position Reporting

> System which is an amateur radio position reporting network all over
> California... and elsewhere).
>
>   My reply is that the raw data at 20 samples per second with an
> 8 bit A/D would require almost 20 bytes per second which would
> saturate an APRS net. If, however, you did a FFT of the raw data
> and continuously averaged the background noise level, then you
> could set a "threshold" that would only transmit data when an
> event or signal exceeded that threshold, say by 5%. The last CA
> earthquake reportedly produced a signal 300 times the background
> level... Periodically, say once every 15 minutes, you would send one
> packet showing your background noise level. A packet would consist
> of just 40 bytes, each byte representing the magnitude of energy
> detected in each 0.25 Hz bin of the FFT. APRS would plot these
> reports on the map.
>
>   I think that The Sproul Bros and I would be happy to make some
> kind of symbol so that would display these magnitudes on the map,
> either as color (red being big!) or as vertical BAR graphs at each
> location. If you used your mouse cursor to select any station, then
> the full FFT data for that station would be displayed.
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>   Also, it would be easy to adapt a MIM telemetry module to do all of
> the A/D and FFT and data computation and packetizing. ALl you would need
> to do is hook up the rod antenna and preamp to a MIM and a tiny
> 2 meter radio. This way, you could put the whole thing out in the
> woods (Away from 60 Hz and manmade interference!) and run it on
> solar power!
>
>   KJ6BU left me no EMAIL address but his phone number is (805)
> 649-5412 in Ojai, CA 93023. The Article referenced this web site:
> http://www.thesphere.com/SAS. There was a REPLY address on this
> project as seismo@sas.org.
>
> If anyone wants to take this ball and run with it, go for it! We need a
> consensus on the data rate. If the filtered data can be reduced to
> a background level of about 1 packet every 15 minuntes or so, and maybe
> a peak of 10 times that during thunderstorms, then I dont think any APRS
> net would mind a 100 times or higher data rate when a REAL earthquake was
> detected. Remember, this signal PRECEEDS the quake!
>
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
>

308. Re: [APRSSIG:4574] SKYWARN PART 2

From: Gary Arnold <garnold@naples.net>
Date: Tue, 10 Sep 1996 16:20:33 -0700
To: aprssig@tapr.org
Message-ID: <3235F7C1.1F36@naples.net>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:
>
> First, Thanks for all the replies to the original message, both on the sig
> and private.
>
> There are several very intersting idea out there that should be reviewed.
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> and exchange ideas. They'll discuss things pertaining to APRS, such as
> GPS, GPS units, applications of GPS and APRS (eg, automatic
> weather-reporting APRS used by hams who report the progress of hurricanes
> to the National Weather Service Hurricane Information Center in Miami),
> using APRS in public events like bike-athons, and in emergencies."
>
> I have always concidered SKYWARN as an emergency service that we volunteer
> for. I've also always looked at APRS as a potential tool for use in
> SKYWARN. Let me let you in on another little secret while we're on this
> subject. According to the NWS in Little Rock, Doppler radar has an
> effective tornatic detection radius of only 80 miles! Case in point: the
> F5 tornado in Ft. Smith in which neither NWS office in Little Rock nor

> Tulsa were able to detect and warn those people. There was NO "offical" warning! However, there were several hams spotting WELL in advance! The doppler radar in Little Rock is also placed at a LOWER elevation that I am here and we have serval mountains in between us! They have admitted that the radar cannot "see" below 10,000 feet in this area. That is just the way it is. I'm sure there are other simular areas around the country and people are unaware of the exact coverage. Go visit your local NWS office and see if they are able to observe the weather down to the 2,000 foot level. I';m not trying to beat down the system, that is not the goal here. I just wanted you to know that we rely too much on the doppler radar and take it for granted that it "sees" all! Not so. But that is why we still have the SKYWARN Nets and spotters like us. Again, I forsee APRS as a vital tool in that.
>
> Another reason I am bringing this to the forefront of the sig as well as looking for more ideas and suggestions, is that the fall storm season is forthcoming, not to mention the current peak of the hurricane season and all the spin-offs of those things once they make landfall. I'll be heading down to see the NWS after I get back from a a trip to NY state (APRS mobile trip fer sure!) and want to be armed to the hilt with all the answers to the questions that are going to arise. Imposible right!?
>
> As to separate freqs for the "important functions like ARES, RACES and SKYWARN" well I both agree and disagree. There is no reason that all the APRS stations must give or listen to a freq filled with SKYWARN (or other) messages. But on the other hand, there is no reason, other that it hasn't been implemented yet, that there can't be a shared freq that can handle more than one "dedicated" network. I've seen and read the messages about "TexNet" and "WX1, WX2...." and I think we're all hitting on the same thing but need a forum to discuss this in detail. Any suggestions? (I vote against another sig!) What happened to the APRS conference idea?
>
> Again, thanks for all the sugestions and ideas! Keep them coming!
>
> 73
> --
> J. Scott Ratchford - KC5JGV - Marshall, Arkansas
> * North Arkansas Amateur Radio Society, Inc.
> * Marshall Volunteer Fire Dept./EMS First Responder
> * Calf Creek Lodge #426
> * E. Daniel Hardware "3 Fingers" Bourbon & Liars Club

Weather events are not local incidents. As an Emergency Manager, I WANT to know what's happening around me, because odds are the weather that is hammering my neighbors will probably effect me in the very near future. Case in point: winter cold fronts in Florida tend to be rather strong, triggering severe weather with frontal passage. If I see severe weather in the Tampa Bay area now, I can be fairly sure that in 3-5 hours, we will be getting the same thing. I can't rely on the next county west of me...it's in Texas, some 600 miles away! The closest radars are in Miami (100 miles east), Key West (100 miles south) and Ruskin (130 miles north).

In our business we try to educate people that hurricanes are not points on a map; they're huge weather generators that cover radii of hundreds of miles, areas of tens of thousands of square miles. Severe thunderstorms rarely are isolated events. They tend to travel in clusters, or along squall lines, with an impact on portions of, or entire states.

What is affecting Colorado now, will probably affect Missouri tomorrow, Ohio the day after and New England the following day. If you want a valid weather forecast for the weekend, look at what is happening 1000 miles west today.

SKYWARN use of APRS, like keyboard use, needs refinement. Minimal digi paths for crosstown keyboarding...longer paths and shorter QSO's for considerate use of the freq over longer distances...wide area, less frequent updates for severe weather, with expiration, so a short lived cluster of thunderstorms doesn't stay on the screen for two days after the event has ended...standards for tropical wx plots, that don't leave a storm sitting on a map in nine different locations over a week...

These are solvable "challenges." Frankly I'd rather see fresh updates where severe weather is 1000 miles away, than repeated spots of fixed stations that never move...but at least those fixed stations may move if the severe weather picks up the QTH and tosses it across town! I'd rather that wasn't my first clue that something was afoot!
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
-- Steven Wright, perpipheral visionary

---

309. Re: [APRSSIG:4574] SKYWARN PART 2

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 10 Sep 1996 12:35:35 -0400
To: aprssig@tapr.org
Message-ID: <323598D7.62A8@co.pinellas.fl.us>
Rendered body type: text/plain

J. Scott Ratchford, KC5JGV wrote:
According to the NWS in Little Rock, Doppler radar has an
> effective tornatic detection radius of only 80 miles! Case in point: the
> F5 tornado in Ft. Smith in which neither NWS office in Little Rock nor
> Tulsa were able to detect and warn those people. There was NO "offical"
> warning! However, there were several hams spotting WELL in advance!

As this issue has been hotly debated on the WX-TALK special interest
group on the iternet, I think it is important to clarify something you
said....The NWS DID ISSUE A TORNADO WARNING FOR FT. SMITH ARKANSAS 15
MINUTES IN ADVANCE OF THE STRIKE...HOWEVER, the EMA office in Ft. Smith
never received the warning because the same storm knocked out the
telephone line carrying that warning. Too bad they didn't have a NOAA
Weather Radio with alert feature.....and one further point: The exact
same amount of damage would have occurred in Ft. Smith, even if the
warning sirens had been sounded. Of course, some lives might have been
saved....that is hard to know.
****
From: Kevin Heyboer   E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR   Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
****

---

310. out of band on 10.151.5

From: n8chb@juno.com (Roger Breckon)
Date: Tue, 10 Sep 1996 16:37:14 PST
To: aprssig@tapr.org
Message-ID: <19960910.163715.10246.0.n8chb@juno.com>
Rendered body type: text/plain

I made a typing error the correct url is
URL:http://prairie.lakes.com/~medcalf/ztx/tunehf.html

73

Roger n8chb

---

311. APRS77b loaded

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Sep 1996 12:54:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960910125101.5339A-100000@arctic>
Rendered body type: text/plain

The following files were posted in tapr/SIG/aprssig/files/upload

aprs77b.zip 1.05 meg
76to77b.zip 660k
77to77b.zip 250k

Ver 77b: 77a had a bug that caused incorrect selection of the default
response during a prompt. It was fixed and immediately re-relesed as 77b.
* New definitions of first POSIT character: (pending Sproul's agreement)
```
  / = TNC only     M = MacAPRS     X = Xaprs
  @ = APRSdos      W = WinAPRS     J = javAPRS
```

* JUST-TYPES command will display station TYPE (above) instead of symbol.
* Fixed WX fade-to-gray
* Fixed mouse to sleep problem
* Fixed ALT-BTEXT being forced to UCASE

Ver 77
* New MAPFIX27.EXE cleans up some minor old glitches!
* Fixed DAVIS bug with remote U-II's
* Contains new WX parsing scheme for Natl Huricane Center
* Can now set WX-METRIC for KPH and Celsius formats
* Consolidated Prompt code to one subroutine. Hopefully transparent
* alt-S-OTHER-REDRAW can now set period independent of BEACON rate
* Increased L/P lists to 6 pages by eliminating the cabability to
  accept long L-LIST lines (used to accept up to 120 chars with line wrap)
* Added SPCL-RUNNER symbol ([). Changed BBS/TCPIP to circles with B/I.
* RV'w now show up when you do a JUST-MOBILES on the map or P-LIST

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

312. Concerning 10.151 LSB

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Sep 1996 13:16:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960910125956.5339D-100000@arctic>
Rendered body type: text/plain

This message is the periodic educational message we have to send out every few months to educate some HF operators how an SSB radio works. Unless your radio is broke or you are overdriving it badly, 10.151 LSB modulation with 1600/1800 HZ tones produces only two RF emissions at 10.151 (-) minus the tones. These are well within the band. The 40 dB width of these packets at 300 baud is less th 700 Hz. There is no carrier at 10.151. This is SSB, (suppressed carrier) remember.

If you want to prove this, tune in the guys at 10.151 LSB, and then ZEROBEAT their packets. Now read the dial. It should be 10.149.3. Dont be confused with the MARS stations operating at 10.153 LSB who occassionally have tones that zero beat at 10.151 or so...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

313. DOSaprs site & Alinco DR-150

From: "Ron Malinowski, Jr." <weather@xnet.com>
Date: Tue, 10 Sep 1996 12:21:27 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609101721.MAA05953@mail.xnet.com>
Rendered body type: text/plain

Hi Gang,
I had two quick questions, if you can help, i appreciate it.

1. Everyone seems to be talking about version 7.7 or 7.7a, whenever I goto the tapr ftp site, they only have version 7.5c or something quite lower, is there a site where you can get the latest and greatest, I always thought TAPR, was the place to go, unless Im looking inthe wrong area.

2. I am looking for a radio to use in thecar for APRS, or maybe in the home for
packet, I am looking at the Alinco DR-150, for the fact, real mic jack, 3 power levels, and TOT, and another feature I think will do what I think is be able to monitor visually 6 other frequency to see if there is activity. This radio is ready for 9600 also, what I need though, is any complaints, recommendations, and the pin out of the microphone jack to KPC-3, so I can have a cable ready for
Peoria this year, first thing I plan to buy and get running in the car, also what type of power lead does it come with, is it the standard T-shape, \kinda spade type? I have existing Yaesu leads in the car think they might work.
Ron
weather@xnet.com

---

314. Re: [APRSSIG:4577] Mobile APRS-WX and GPS

From: tfleming@madison.tec.wi.us (Tom Fleming)
Date: Tue, 10 Sep 1996 13:08:35 -0500
To: aprssig@tapr.org
Message-ID: <v01530505ae5b18a2ff2b@[198.150.211.6]>

Rendered body type: text/plain

```
>On Mon, 9 Sep 1996, Jon Brockmeier KB8SWB asked:
>
>> Is there a way using APRS with a computer, TNC, radio, GPS, UltiiMeter
>> weather equipment mount to a car, to report the position of the car and the
>> true weather conditions
>
Remember to add an electronic compass so you do not have to point the car
the same direction every time.

_______________________________________
Tom Fleming       Network Tech
Postmaster
Madison Area Tech College
(608) 246-6140
Internet:tfleming@madison.tec.wi.us
N9SZF
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
"To see tomorrow's PC, look at today's Macintosh." BYTE 10-1995
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

---

315. Re: [APRSSIG:4580] Re: SKYWARN PART 2

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 10 Sep 1996 13:19:14 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960910181914.006d7a58@tbcnet.com>
Rendered body type: text/plain

```
At 10:58 9/10/96 -0500, you wrote:


> There are very good reasons not to share freq's with Skywarn, Ares, Races,
etc.

Ok, what are they?


 Skywarn or
>Races or Ares etc cannot expect those users that have been here to make APRS
>grow to what it is today to get off or even co-exist with those services,
>because i already see a trend for those groups to take over and use the
>network that others have built up over time for just that service and kick off
>the person (Later) that did all the hard work.

The writer assumes that the system was set up for reasons other than Skywarn
or other emergency services.  In fact, in Northern IL, one of the reasons
that APRS took off so well was in late winter of 95 (I think) at a meeting
in the Rochelle EOC, Dupage Co/Multi-Co Severe Storm Warning System took a
serious look at APRS as an adjunct to its existing methods of warning,
having learned lessons from the Plainfield IL tornado in 90.

But what was initially a WX effort got diluted by the interest in GPS.

This is NOT to degrade GPS!  It all attracts APRS users.

And what applies to No IL doesn't necessarily apply to AL, or Chicago, for
that matter.


jbl


-------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

---

316. APRS Station & Peet Wx Station

From: Miami Network <0004818186@mcimail.com>
Date: Tue, 10 Sep 96 15:02 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <32960910200223/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

Does anyone know if it is possible to have the TNC running at one speed say 4800 on one COM port and the Wx Station [Peet] on the other at 2400 bps.

At the time of sign on APRS asks for the speed of the TNC and I'm wondering if this speed is being set for both COM ports?

73, Seymour, KC4NMY

---

317. Re: [APRSSIG:4576] APRS Quake monitoring system

From: mcinnis@austin.ibm.com (McInnis)
Date: Tue, 10 Sep 1996 15:06:32 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9609102006.AA17962@babe01.austin.ibm.com>
Rendered body type: text/plain

```
>
>
>      KJ6BU advises an article in the Amateur Scientist column of May
> 1996 Scientific American discusses the growing interest in monitoring
> RF at the 0.1 to 10 Hz range for detecting earthquakes (at about 4 Hz).
> Just hook the output of a 2 foot long rod wound with 50,000 turns of
> #30 magnet wire to your sound blaster card via a pre-amp and you
> can collect this data.  What is needed is a mechanism for distributing
> this data.  KJ6BU suggests APRS (the Automatic Position Reporting
> System which is an amateur radio position reporting network all over
> California... and elsewhere).
>....
```

I didn't read the article, but in case they didn't cover this, this will probably do nasty things to your computer if you have a nearby lightning strike, due to the lightning currents inducing currents in the coil.

Of course, you'd want to be somewhat concerned about sending false alarms. (i.e. "Local Ham operators predict earthquake. Film at 11.") (Assuming the press screws up and reports the RF monitoring as earthquake prediction.)

The other idea that occurred to me is to hook up some sort of actual very simple "shake detector". Something with an object that can fall over when shaken, triggering a switch closure, etc. The idea would be that if one station "shakes", ignore it, it's probably the cat. If 40 different APRS stations report "shakes" within a few minutes, something is probably happening and you'd know the area involved. (Or there's a widespread cat conspiracy in progress.)

You could also do something by having some sort of "heartbeat" system. Each APRS station (with or without a "shaker") would periodically transmit a "I'm OK" signal. You'd need to have APRS check and report that a station that transmitted before has stopped transmitting in some predefined time period. (e.g. Transmitted withing the last hour but not within the last 5 minutes.)

If a large percentage of the APRS stations in an area suddenly stop transmitting, you have something happening, like a change in propogation, a power outage, or something serious. This could be helpful in an emergency to tell you what areas are affected by earthquakes, power outages, floods, etc.

You could also have these "heartbeat" stations have some sort of human enterable status indication, e.g. "0-normal 1-noticable affects (I felt the ground shake) 2-mild effects (some damage, but I'm OK)... 6-I'm abandoning my position 7-send help, people are dieing... You'd probably want to keep the number of different status indicators small, but you could also allow a text message to be attached.

This would require that you have enough APRS stations around to make the data meaningful.

--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.

---

318. Re: SKYWARN PART 2

From: "John W.(Bill) Hays" <billh@netins.net>
Date: Tue, 10 Sep 1996 22:40:47 +0000
To: aprssig@tapr.org

```
Message-ID: <3235EE6F.76FD@netins.net>
Rendered body type: text/plain
```

```
John B. Leonard, Jr wrote:
>  In fact, in Northern IL, one of the reasons
> that APRS took off so well was in late winter of 95 (I think) at a meeting
> in the Rochelle EOC, Dupage Co/Multi-Co Severe Storm Warning System took a
> serious look at APRS as an adjunct to its existing methods of warning,
> having learned lessons from the Plainfield IL tornado in 90.
>
> But what was initially a WX effort got diluted by the interest in GPS.
>
> This is NOT to degrade GPS!  It all attracts APRS users.
>
> And what applies to No IL doesn't necessarily apply to AL, or Chicago, for
> that matter.
>
> jbl
>
> -----------------------------------------------------------------
> J Barry Leonard/N9VJQ
> DeKalb IL
> E-MAIL:  jleonard@tbcnet.com
> WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
> American Red Cross Disaster Services - DeKalb Co Chapter
> DR444 DR157

I concur. WX spotting AND GPS together gave the impetus to get
APRS going in Quad Cities Iowa/Illinois.
73,
Bill
```

319. WA2JNF-4 (Brooklyn NY) down

```
From: Arte Booten <N2ZRC@gnn.com>
Date: Tue, 10 Sep 1996 18:50:02
To: APRSSIG@tapr.org
Message-ID: <199609102250.SAA25834@mail-e2b-service.gnn.com>
Rendered body type: text/plain
```

```
Hi all,

     This morning I looked at APRS and found Stu's WIDE-RELAY
(WA2JNF-4) station was apparently down.  I'm trying to get in
touch with him in case he's unaware of it.  In the meantime, I
have set my KPC-3 with an MYAlias of WIDE and MYNode of RELAY.
I expect this to be a temporary situation and my BText reflects
this.

     Unfortunately, I do not hear as well as Stu (my antenna is
on the roof at 80' HAAT, his is on a tower 200' HAAT!)  None-
theless, I'll see what I can do.  As of now, my digipath is:
W2HPM,WIDE,WIDE which will lead stuff more into the northeast
than towards the south.  Any suggestions on this would be ap-
preciated.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.
```

320. NHC News Report and APRS

```
From: n2czf@magg.net (Richard Garcia)
Date: Mon, 09 Sep 1996 22:53:28 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <199609102253.SAA00123@grumpy.magg.net>
Rendered body type: text/plain
```

```
Well as usual when a storm hits or is about to hit the 6pm news interviews a
ham with radios in the background.
Tonight was not different with Hortense on it's way but what was different
is that the report was done at the National Hurricane Center in Mi ami. Nice
fancy Yaseu station decked out to the max, even a Yaseu clock! hi hi.
After all the chit chat as they were panning to the internet corner right
next to the ham station.. wait! what was that.. yes it is a APRS screen! A
momentary blast past what seemed to be 2 monitors with APRS on it! Sure was
a shame that no one spoke about it to the media, would have been a great
```

opportunity but I do not know if they were interested or not. It was only
1-2 seconds but to the "trained APRS eye" the screens did not seem to show
anything on the map! Oh well yesterday was the peak of the Hurricane season,
maybe we will get another opportunity soon.

73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net   (E-Mail)
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html   (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)

---

321. Re: [APRSSIG:4530] Re: Burned by PK-12 again!

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 10 Sep 1996 18:58:29 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609101820.A2031-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

We went through this at the Hurricane Center at Miami with their PK12.
There is a command, besides headerln, that needs to be set, and it deals
with TAPR style BBS messeges. The command is BBSMSGS, if I remember, and
it must be in the OFF state, I think. Also, remember to have MON set to
4 and nothing higher. The extra characters interfere with the APRS style
packets.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Sun, 8 Sep 1996, Roger Breckon wrote:

> Bob Bruninga wrote:
> >
> > Visiting a new station (also the 1st station on the air in a new city), I
> > drove to his DRIVEWAY and he still couldnt see me! We pulled our hair
> > out, and his rig would hear otehr stations but ignore my packets.
> >
> > How soon we forget.....   I finally remembered that the stupid PK-12
> > (older version) does *NOT* display packets that it itself digipeats!
> > (Is this still true? How about other AEA products???)
> >
> > So of course, his station had the alias of RELAY, and sicne he was the
> > only one in town, I was transmitting via RELAY...   ERGO the
> > PK-12 digipeated my packets but never passed them along to the PC!
> >
> > I was in a rush to meet family committments, but we couldnt find the
> > command in the manuual before I had to leave. But ther is a command in
> > the PK-12 so that it will monitor packets that it digipeats, too bad it
> > defaults to OFF!!!
> >
> > Reply mail addr: wb4apr@amsat.org
> > See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
> ==
> Bob,
>
> I have a 88 card and a pk900 and don't believe they will print to the
> screen digipeated packets.
> All I see is my rig s red tx lamp go on. Not real cool!
> If anyone does know how to do this please let me know?
>
> 73,
>
> Roger n8chb
>

---

322. Re: [APRSSIG:4576] APRS Quake monitoring system

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Tue, 10 Sep 96 19:15:33 EDT
To: aprssig@tapr.org
Message-ID: <m0v0c1r-0001M3C@wa4mei.radio.org>

Rendered body type: text/plain

On Tue, 10 Sep 1996 09:57:34 -0500 (CDT) you wrote:

```
>
>     KJ6BU advises an article in the Amateur Scientist column of May
>1996 Scientific American discusses the growing interest in monitoring
>RF at the 0.1 to 10 Hz range for detecting earthquakes (at about 4 Hz).
>Just hook the output of a 2 foot long rod wound with 50,000 turns of
>#30 magnet wire to your sound blaster card via a pre-amp and you
>can collect this data.  What is needed is a mechanism for distributing
>this data.  KJ6BU suggests APRS (the Automatic Position Reporting
>System which is an amateur radio position reporting network all over
>California... and elsewhere).
```

Before you get all excited about an automatic earthquake early
warning system you should read this quote from the article.

Quote:

"The idea that low-frequency electromagnetic waves could be precursors
to temblors remains controversial. Not all earthquakes release telltail
electromagnetic signals before striking., and many reasearchers consider
the data statistically unconvincing.

Amateur scientists might be able to contribute to this debate with the
easy-to-build detector described here. If the low-frequency electromagnetic
waves really do preceed earthquakes, this device will detect them."

End Quote

So, the theory behind AQRS (auotmatic quake reporting system) hasn't
even been proven yet although APRS could play a role in determing
it's validity.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp Connect.

---

323. GPS_20 Update

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 10 Sep 1996 18:16:12 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing), tapr-bb@tapr.org (TAPR-BB mailing)
Cc: ka5dwr@tapr.org (Dorothy Jones)
Message-ID: <199609102316.SAA18677@tapr.org>
Rendered body type: text/plain

We are beginning to start the process of ordering the GPS-20 from Gramin.

As of today -- we have 75 of the 100 orders required. That leaves TAPR with
an additional 25 units to offer.

We plan on shipping shortly after the DCC, since the power connectors and
coax are due in the first of October.

If the Garmin units arrive before the DCC, we will plan on bringing a few
to the conference to sale and plan on shipping the coax and connectors after
the conf. For those that just can;t wait for their unit.

If you want to pickup your unit, minus the coax and power connector, be sure
to let Dorothy know before hand so we can plan on having your unit
there...this is all based on Garmin getting us the units before we leave for
the conference. We will then ship the coax and power connector to you after
the conference when they arrive.

Cheers - Greg

---

324. Re: [APRSSIG:4591] APRS Station & Peet Wx Station

From: Les Blalock <lcb911@apex2000.net>
Date: Tue, 10 Sep 1996 18:40:14 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960910183754.1c47a6d2@apex2000.net>
Rendered body type: text/plain

At 03:12 PM 9/10/96 -0500, you wrote:
>Does anyone know if it is possible to have the TNC running at one speed say
4800
>on one COM port and the Wx Station [Peet] on the other at 2400 bps.
>
>At the time of sign on APRS asks for the speed of the TNC and I'm wondering if
>this speed is being set for both COM ports?
>
>
>73, Seymour, KC4NMY
>

Seymour,

The TNC baud rate is just that - only the tnc. Your Peet Wx station spits out data a 2400 baud - it's not adjustable by the user. Unless you run your tnc at 2400 baud (to the computer) the two com ports are always set for different baud rates.

73 de Les/N5KOA

---

325. Re: [APRSSIG:4578] Re: Rock Bound GATE Radio

From: dkaszubski@why.net (dkaszubski)
Date: Tue, 10 Sep 1996 18:57:37 -0700
To: aprssig@tapr.org
Message-ID: <32361C91.56E0@why.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Tue, 10 Sep 1996, David Wells wrote:
>
> > >It's a Motorola Model L70SGC1180BM, looks like a Micor mobile unit
> > >stuffed into a big (6h x 18w x 24d) case with a power supply, speaker,
> > >and all the usual front panel controls. This one is a 12 channel with an
> >
> > Can you get the spec's on the sideband offset xtal and obtain another one
> > that will place it on LSB?
>
> APRSdos REPLY/COMMENT: You cant change it to LSB that simply. Why
> bother? Just use USB and tune twice the value of your TNC tones lower.
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

That's what I'm going to do. Been operating with another rig on 10.1476
USB for a while and it works fine.
Thanks for the help!

--
Dave Kaszubski WB3FYV
dkaszubski@why.net also: ustuia6v@ibmmail.com
Benbrook, Texas N 32 40.319' W 097 26.844'

President of the Texas Utilities Amateur Radio Club,
Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/

---

326. TNC digi methods Was: Update APRS L3 (TexNet)

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Tue, 10 Sep 1996 21:19:15 -0500
To: aprssig@tapr.org
Message-ID: <199609110212.CAA220580@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

>Yes, I think using the SSID as a hop counter makes sense. I have been
snipped

Along similar lines...

Last night we had a big band opening in the upper midwest. I noticed lots of DX on my mobile voice radio, so when I got home, I started up the station computer. I've been running my WX station using the TNC w/o computer via the GPS mode. Wow! Lots of stations from IA, WI, IL, MO heard here in southeast MN. Many I would hear on the first digi. Some I heard direct. BTW, I think APRS lies sometimes on the DIGI page - it often shows gated stations as heard direct (asterisk by the station name) that I know can't be. And, I saw some of the initial packets for a few stations that I did not hear direct but they also got the asterisk. Not consistent, though.

Anyway, when we have an opening, and even occassionally when we just have above average propagation, what I wish I knew was the real id of the WIDE that I'm hearing. It would be useful if the digipeater, when resending something through its alias ID, could replace that alias with its true ID. This would help those trying to figure out how a packet got here and would also make it easy for a TNC to avoid resending a packet it has already digipeated. I don't know how feasible this would be - any CRC info would have to be regenerated. But it would be nice...

73.
Tony Drumm
ARS AA0SM

---

327. Re: comments Version 77 aprs

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 10 Sep 1996 22:29:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960910222552.5264A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Tue, 10 Sep 1996, Don Murray wrote:

> I think what had me puzzled was the mixed upper and lower case.. Not a big
> deal by any means, just something that I had noticed.. Think your doing and
> excellent job, and by all means keep up the good work..
>
> Don

(snip)

> > > I have noticed on ver 7.7 mixed upper/lower case in the Wx beacon
> > > My station is showing the following after the normal location info
> > > _289/000/T076/R000p000b0107h00g000U2k

(snip)

> > APRSdos REPLY/COMMENT: That is the new WX format. Lower case separators
> > to make room for a 4 digit baro and the wind GUST field...

Is this new WX format compatable with AutoWX???? There is an AutoWX user near me reporting "strange readings".... haven't been over to see just what he means as yet.

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

---

328. Dayton HamVention Home Page

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Tue, 10 Sep 1996 23:11:35 -0400
To: "Sig APRS" <aprssig@tapr.org>
Message-ID: <199609110311.XAA03788@eri.erinet.com>
Rendered body type: text/plain

Hard to believe that the folks at Dayton are already making their plans for the HamVention 1997. However, if you don't get your room reservations in before the first of the year, you may have trouble finding lodging.

Check out their home page for details at
http://www.hamvention.org

Vry 73 de Tru K8JUG

---

329. Baja, Mex, & CentAm maps

From: KSwaggart@aol.com
Date: Tue, 10 Sep 1996 23:22:49 -0400
To: aprssig@tapr.org
Message-ID: <960910232248_305682268@emout06.mail.aol.com>
Rendered body type: text/plain

I've uploaded BajaMaps.zip and .txt to
tapr.org:/tapr/SIG/aprssig/files/upload

This file contains Maplist.MX and maps from San Diego to the Panama Canal, most at the 256 mile scale. They were created to support Rick, KN6KB, on his upcoming trip from San Francisco to Miami via the canal, and any other APRS /MM operations in that area.

Countries covered include: Mexico (Pacific coast), Honduras, El Salvador, Nicaragua, Costa Rica, Belize, and Panama.

These maps were created from 1:2,000,000 scale aeronautical Jet Navigation Charts (JNC), and concentrate primarily on the Pacific coastal areas. Some Caribbean coverage from the canal up to the Yucatan is also included. The JNCs are Lambert Conformal type projections, so some errors will exist but I've have tried to minimize them.

Using pkunzip -dn will put the new MAPLIST.MX and the maps in their proper directories.

73, Ken, W7KKE
kswaggart@aol.com

330. Yet another possibly stupid question

From: "Don Murray" <james-m@ix.netcom.com>
Date: Tue, 10 Sep 1996 23:28:34 -0400
To: <aprssig@tapr.org>
Message-ID: <199609110328.UAA04492@dfw-ix10.ix.netcom.com>
Rendered body type: text/plain

What are the consequences if any of ignoring the "Com buffer overflow error" that occasionally pop up from time to time. I have had these error occur with a 386laptop, a compaq 386, a packard bell 486, an Acer pentium computer. More often on the 386's but they have occurred on the pentium also.. What happen if I choose to simply ignore the error message??

Thanks in advance..
Don

331. Macon digi

From: kc4zgq@ix.netcom.com (JOHN F. KRAUS II)
Date: Tue, 10 Sep 1996 20:37:48 -0700
To: aprssig@tapr.org
Message-ID: <199609110337.UAA21296@dfw-ix7.ix.netcom.com>
Rendered body type: text/plain

I feel that I owe Ralph a public apology.
While I feel that his comments concerning the macon digi were inapropriate. My response should have been direct to him rather than via the sig. He has replied privatly and I have answered. Maybe some good will come of it in the end.

73 KC4ZGQ JOHN F KRAUS II <KC4ZGQ@IX.NETCOM.COM>

332. Upgrading APRS 7.3d to 7.7 HELP!

From: kb8pff@juno.com (John E Santmire)
Date: Wed, 11 Sep 1996 01:44:20 EDT
To: aprssig@tapr.org
Message-ID: <19960911.002325.4839.1.kb8pff@juno.com>
Rendered body type: text/plain

Looking for some help,   I haven't upgraded my APRS in sometime and
want to go from APRS 7.3d
to 7.7   I have downloaded the 7.7 and just tried to copy the
"aprs77.exe" into my aprs dir. when I tried
to run it I got the following on my screen.

```
CAN'T FIND MAPS!
STOP IN LINE 0 OF MODULE APRS76W AT ADDRESS 059F:6C79
```

What is the best way to upgrade to 7.7 from 7.3d

kb8pff@juno.com   A REGISTERED USER!
  4103.49N
08338.71W

333. Re: [APRSSIG:4605] Yet another possibly stupid question

From: "Tom Devine" <epdkr@hurricane.net>
Date: Wed, 11 Sep 1996 01:24:00 -0700
To: <aprssig@tapr.org>
Message-ID: <199609110814.BAA28226@wind.hurricane.net>
Rendered body type: text/plain

> From: Don Murray <james-m@ix.netcom.com>
> To: aprssig@tapr.org

> Subject: [APRSSIG:4605] Yet another possibly stupid question
> Date: Tuesday, September 10, 1996 8:40 PM
>
> What are the consequences if any of ignoring the "Com buffer overflow
> error" that occasionally pop up from time to time. I have had these
error
> occur with a 386laptop, a compaq 386, a packard bell 486, an Acer pentium
> computer. More often on the 386's but they have occurred on the pentium
> also.. What happen if I choose to simply ignore the error message??

One draw back is you lose data! In a Windows 3.1xx versions where DOS is
active, you can
increase the com buffers.... try that- if you still having trouble slow the
port down, i.e., go from say 9600 baud to 4800, etc.

This may help or may not-

Also consider upgrading you I/O board to include a better UART chip...

73 Tom

334. WIDE Repeater Callsigns

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Wed, 11 Sep 1996 07:43:01 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB9FB4.DF9DA1C0@gwyn.paccomm.com>
Rendered body type: text/plain

Tony Drumm[SMTP:TonyDrumm@ibm.net] said, among other things:

>what I wish I knew was the real id of the WIDE
>that I'm hearing. It would be useful if the digipeater, when resending
>something through its alias ID, could replace that alias with its true ID.
>This would help those trying to figure out how a packet got here and would
>also make it easy for a TNC to avoid resending a packet it has already
>digipeated.

That is exactly what we did in our Intelligent Border Markers for the
Bosnian forces (see our web page). We've dubbed it 'Digipeat Callsign
Substitution.' When a packet modem repeats a frame which was addressed to
one of its alias callsigns, it substitutes its MYCALL for the alias
callsign in the outgoing frame header.

Our purpose was to allow a generic digipeat when we don't know the actual
callsigns of the surrounding units, but once a frame actually gets to the
end station, an exact return path is known. Once a reply is sent to the
originating unit, it also knows an exact path to the end station and if
that path is saved, there is no longer a need to use generic addressing.

I've been talking with Bob (APR) about this for some time and he is pushing
us to release this in our amateur code. We will, but can't say how soon.
We're kinda overloaded with industrial coding work right now, so this has
to wait for the next break in the workload.

335. Re: [APRSSIG:4595] NHC News Report and APRS

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 11 Sep 1996 07:23:45 -0500
To: <aprssig@tapr.org>
Message-ID: <199609111244.HAA14903@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> From: Richard Garcia <n2czf@magg.net>
>
> Well as usual when a storm hits or is about to hit the 6pm news
interviews a
> ham with radios in the background.
> Tonight was not different with Hortense on it's way but what was
different
> is that the report was done at the National Hurricane Center in Mi ami.
Nice
> fancy Yaseu station decked out to the max, even a Yaseu clock! hi hi.
> After all the chit chat as they were panning to the internet corner
right
> next to the ham station.. wait! what was that.. yes it is a APRS screen!
A
> momentary blast past what seemed to be 2 monitors with APRS on it! Sure
was
> a shame that no one spoke about it to the media, would have been a great

```
> opportunity but I do not know if they were interested or not. It was
only
> 1-2 seconds but to the "trained APRS eye"  the screens did not seem to
show
> anything on the map! Oh well yesterday was the peak of the Hurricane
season,
> maybe we will get another opportunity soon.
>
> 73's Rich N2CZF

I saw somthing very simular back in March (I tink) on the Discovery
Channel. There was a program about storm spotters that ran around in this
exeptionally well laid out van. In it were multiple radio sets and 2 APRS
screens. It was nice to see that as I was over at a freinds place showing
off the mobile APRS at that time. It I'm not mistaken they indicated that
it was the first time it had been used in the field but wasn't in the NWS
office as yet. At any rate it was nice to see it on Discovery and to see
the reaction of my friend. (He now has his ticket!)

73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
*  North Arkansas Amateur Radio Society, Inc.
*  Marshall Volunteer Fire Dept./EMS First Responder
*  Calf Creek Lodge #426
*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
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336. Re: [APRSSIG:4602] Re: comments Version 77 aprs

From: Les Blalock <lcb911@apex2000.net>
Date: Wed, 11 Sep 1996 08:02:31 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960911075824.1fdfca32@apex2000.net>
Rendered body type: text/plain

```
At 09:39 PM 9/10/96 -0500, you wrote:
>On Tue, 10 Sep 1996, Don Murray wrote:
>(snip)
>> > > I have noticed on ver 7.7 mixed upper/lower case in the Wx beacon
>> > > My station is showing the following after the normal location info
>> > > _289/000/T076/R000p000b0107h00g000U2k
>(snip)
>Is this new WX format compatable with AutoWX????  There is an AutoWX user
>near me reporting "strange readings".... haven't been over to see just
>what he means as yet.
>
>Richard Amirault               N1JDU            Boston, Massachusetts USA
>amirault@tiac.net        "Go Fly A Kite"


AutoWx version 4.x  is compatible with the new beacon format.


Les/N5KOA
```

---

337. Re: [APRSSIG:4588] DOSaprs site & Alinco DR-150

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 09:33:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911093234.25098C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 10 Sep 1996, Ron Malinowski, Jr. wrote:

> 1.  Everyone seems to be talking about version 7.7 or 7.7a, whenever I goto
> the tapr ftp site, they only have version 7.5c or something quite lower.
*** Try it today and look for 77b.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

338. 77b=77a confusion abounds

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 09:38:49 -0400 (EDT)
To: "Alan K. Unangst" <alanwc7r@primenet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911093437.25098E-100000@arctic>
Rendered body type: text/plain

On Tue, 10 Sep 1996, Alan K. Unangst wrote:

> Just a quick note to inquire if in 7.7b you meant to leave the version #
> 7.7a in the Logo??

APRSdos REPLY/COMMENT: ARGH! I knew I could not make a release without a bug! But I had to get 77b in to replace 77a asap.   I made the bug fix but FORGOT TO CHANGE THE LOGO. I believe the name of the EXE is APRS77b.exe however... It will still show as 77a on the HELP screen too...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

339. Re: [APRSSIG:4592] Re: APRS Quake monitoring system

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 09:45:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911094031.25098G-100000@arctic>
Rendered body type: text/plain

On Tue, 10 Sep 1996, McInnis wrote:

> The other idea that occurred to me is to hook up some sort of actual
> very simple "shake detector".

*** THe whole idea is that the ELF signals PRECEED the quake by several hours. Presumably a pizzoelectric effect due to compression of the rocks.

> You could also do something by having some sort of "heartbeat" system.

*** My proposal had every sensor sending one packet every 15 minutes to report its background readings. Ten such stations in each APRS network would only occupy about 1% of channel capacity. A warning in ADVANCE of an earthquake would be worth it!

THanks for your comments. I think there is real potential here...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

340. Re: [APRSSIG:4412] Re: Too much time on my hands....

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 06:53:10 -0700
To: aprssig@tapr.org
Message-ID: <199609111353.GAA13255@m1.sprynet.com>
Rendered body type: text/plain

> The I vote for Chicago Suburb Area <grin> We have about 60-70 stations
>in close proximity just in northern illinois and southern Wisconsin. Jim,
>you saw that while you were here.
>
> side note: I changed IP's again. note new e-mail address "just in case"...
>
>73,
>
>Roger Sellers
>Amateur Radio: KB9LBU

True, Roger, but only three people even acknowledged that I was in the Chicago area over Labor Day weekend! I was really disappointed particularly when one guy said they were all at a meeting in Streamwood (where I was passing through at the time!) and didn't even invite me to the meeting or respond when I asked where it was!!!

Maybe I'm wrong here, BUT I would expect that a visiting APRS mobile ought to have been made feel more welcome. In Kansas City we attempt to contact anyone passing through and at least someone says "hey, stop in if you've got time!"

Granted the Chicago area DOES have a lot of users but my initial impression is that they aren't interested in socializing with visitors. I hope I'm wrong because I've met a LOT of wonderful people in Chicago in my may trips there over the past 10 years. I have found that face-to-face Chicagoland people are genuinely nice and eager to make us "furriners" welcome and feel at home! Maybe I expected too much from the amateur community???

Don't take this personal, Chicago folks, I guess I was just really disappointed because Karla and I had planned on taking time to visit and

meet you during our vacation...I hope that it works out better in December
when I come to Midwest Band and Orchestra Clinic right before Christmas!

Best 73 de Jim, KU0G
Kansas City APRS Coordinator
EMail: ku0g@sprynet.com
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO 64428
816) 725-4613

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341. Re: [APRSSIG:4414] Re: National APRS Conference

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 06:58:57 -0700
To: aprssig@tapr.org
Message-ID: <199609111358.GAA14597@m1.sprynet.com>
Rendered body type: text/plain

MBIG SNIP> (using the paper cutter!)
>So, for those of you who think a national APRS convention is important,
>exactly what agenda would you propose? Tell me what you think needs to be
>done, and how you propose to accomplish it in a couple of days. Propose a
>schedule of events...if it's worthwhile, I'll come, and so will a lot of
>others.
>
>Steve KO4HD
>
I would hope that everyone would submit a proposed agenda item, forum
suggestion, etc. so the planners could invite speakers to present, secure
the proper venue and take it from there...Apparently there seems to be
enough interest to look into the possibility further, so I'll refer that on
to our Board of Directors and we'll take a look at the possibilities. Only
concern here is that our treasury, at this point, is quite small and I could
foresee having an advance registration to cover the venue costs or, perhaps,
another APRS group would consider pooling resources with us? (Are you
listening NIAN?)

Anyway, that's about enough on this thread. We'll take the ball and toss
it, see where it lands and get back to the SIG later....

ENDTHREAD.....

Best 73 de Jim, KU0G
KC APRS Coordinator
EMail: ku0g@sprynet.com
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO 64428
816) 725-4613

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342. Re: [APRSSIG:4420] Re: APRS Airshow

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 07:04:42 -0700
To: aprssig@tapr.org
Message-ID: <199609111404.HAA15753@m1.sprynet.com>
Rendered body type: text/plain

I thought that we had documented (from Florida air experiments early 1996)
that the GPS-45 shuts down above 99 knots?

(Help me out here, Rich...)

I hope that I'm mistaken because we have something brewing along those lines
here in KC....

73 de Jim, KU0G
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO 64428
816) 725-4613

---

343. Re: [APRSSIG:4423] Re: Too much time on my hands....

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 07:07:45 -0700
To: aprssig@tapr.org

Message-ID: <199609111407.HAA16317@m1.sprynet.com>
Rendered body type: text/plain

```
>Great! Let's have it in Branson! We can watch Boxcar Willie and talk ARPS
>at the same time. What a joke! Naaaaaaaaa.......... KC is a Great Idea!
>
I hate to admit it, BUT Branson is one of the primary sites I was
considering due to the possibility of having plenty for the non-ham family
members to do while the rest of us sit around chatting about APRS!

73 de Jim, KU0G
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO  64428
816) 725-4613
```

---

344. Re: [APRSSIG:4431] Re: C Meeting (was Too much time on my hands)

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 07:13:51 -0700
To: aprssig@tapr.org
Message-ID: <199609111413.HAA17729@m1.sprynet.com>
Rendered body type: text/plain

```
>Kansas City makes alot of sense.  For those of you who have to fly
>commercial (grin) airfares in and out of KC are CHEAP.  The are reasonable
>rate hotels a free shuttle ride away.  There's alot of open space, clean air
>and BBQ!, but it's a long way from KCI airport (30 miles to KC Masterpiece
>Resturant).  There is also an active APRS community willing to work to set
>it up.

WRONG!  The Plaza location of KCM is only a scant 14 miles from KCI and you
can run interstate highway all but 12.5 of that!!!  Besides, Arthur Bryant's
is the REAL king of KC BBQ and is also right off I-70 east of downtown.
Then there's good ol' #2 Gates & Sons and they're EVERYWHERE now!

>
>The problem with Dayton is it is too little with too much else going on.  I
>could spend hours learning how to:
>1.      Make street level maps
>2.      Design APRS networks (Now was that WIDE or RELAY..humm)
>3.      Learning to NWS acros the country are using APRS
>4.      Having people volunteer to present papers of varies uses of APRS
>5.      Put your subject here.......
>
>APRS has grown to the point that it probably has more users than Oscars at a
>cheaper entry level, yet amsat has annual meetings for paper presentations
>as well as going to Dayton.  Don't get me wrong--I LOVE Dayton and the
>chance to get away but, I could learn so much more in a APRS only environment.

AGREED!  I'm not sure I agree with the "more users than Oscars" statement,
but we are certainly growing at an alarming (?) rate.  That's the main
reason I suggested this in the first place!

PS:  Dave, you can fly that big twin engine into MKC and pick UZQ-Bill and I
up for a free ride to the site if it ends up begin somewhere other than KC!
<snicker>

73 de Jim , KU0G
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO  64428
816) 725-4613
```

---

345. Re: [APRSSIG:4446] Re: National APRS Conference

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 07:17:24 -0700
To: aprssig@tapr.org
Message-ID: <199609111417.HAA18742@m1.sprynet.com>
Rendered body type: text/plain

```
>*** Begin non APRS related stuff ***
>Sorry to disappoint all, but the Key West City Council banned body
>painting this year. Next year, when the businessmen complain about the
>lost revenue, it will be legal again. We've been through this cycle
>before (body painting has been banned for 3 of the last 10 years, and is
>always overturned the next year.) Politics.
```

```
DAMN IT ALL!  And I was SO hoping to see live-action video on Dimse's home
page, too!!!

73 de Jim, KU0G
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO  64428
816) 725-4613
```

---

346. Radio Shack WX station.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 10:30:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911102839.25098I-100000@arctic>
Rendered body type: text/plain

```
On Tue, 10 Sep 1996, Bryan Fair wrote:

> Radio Shack Has announced in their new Weather Station WX200 in their new
> 1997 catalog-pg. 203...... Is APRS ready to go with the weather station?

APRSdos REPLY/COMMENT:  Here is an opportunity to share the work load! hi
hi  Can anyone find out the format of the R.S serial WX data?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

347. Re: [APRSSIG:4605] Yet another possibly stupid question

From: n8chb@juno.com (Roger Breckon)
Date: Wed, 11 Sep 1996 14:26:19 PST
To: aprssig@tapr.org
Message-ID: <19960911.142620.7190.0.n8chb@juno.com>
Rendered body type: text/plain

```
Hello Don,

I've seen that on every program for the last 2 yrs and I just ignore it
also.
If you want when you first fire up the program
Hold down " ALT " and hit  " S " " T "  that will restart the ini * .TNC
file again.

Have fun
73
Roger  n8chb

PS:  have seen this on several computers like you, could be my TNC
needing more time to read?

================================================================
On Tue, 10 Sep 1996 22:40:47 -0500 (CDT) "Don Murray"
<james-m@ix.netcom.com> writes:
>What are the consequences if any of ignoring the "Com buffer overflow
>error" that occasionally pop up from time to time.  I have had these
>error
>occur with a 386laptop, a compaq 386, a packard bell 486, an Acer
>pentium
>computer.  More often on the 386's but they have occurred on the
>pentium
>also.. What happen if I choose to simply ignore the error message??
>
>Thanks in advance..
>Don
>
>
```

---

348. Re: [APRSSIG:4464] The Cross Country Trip, an APRS Adventure!

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 07:34:14 -0700
To: aprssig@tapr.org
Message-ID: <199609111434.HAA22831@m1.sprynet.com>
Rendered body type: text/plain

```
>Hello gang...
>
>Well, it's almost time for the Digital Communication Conference, and
>again I will be driving. An unusual drive, since I will go, quite
```

>literally, from one corner of the country to the other (Key West to
>Seattle). I will be running APRS on both HF and VHF all the way. The van
>also has a second HF rig for voice, a station for normal packet, and a
>dual band rig for VHF/UHF voice. Then there are the two computers
>(connected via an AppleTalk network), CD ROM drive, cell phone, audio CD
>changer...you get the idea. After the conference I'll head south down the
>coast to Southern Cal to visit friends and family, and finally take
>I-8/10 home in a mad rush to get back before I have to go back to work.
>Here is the itinerary...
>
>Fri 9/13 Miami, Orlando, Atlanta
>Sat 9/14 Nashville, St. Louis, Kansas City
>Sun 9/15 Omaha. Souix Falls
>Mon 9/16 Badlands Nat'l Park, Mt Rushmore
>Tue 9/17, Wed 9/18 Yellowstone Nat'l Park
>Thu 9/19 to Sun 9/22 Seattle
>Sun 9/22 Olympic Nat'l Park, Port Angeles
>Mon 9/23 Ho Rain Forest, Portland, Redwood Nat'l Park
>Tue 9/24 Golden Gate
>Wed 9/25 Carmel
>Thu 9/26 San Luis Obisbo, Santa Barbara, Ventura (Mom's house)
>Fri 9/27 to Sun 9/29 Family stuff!
>Mon 9/30 LA
>Tue 10/1 San Diego
>Wed 10/2 Tuscon, El Paso
>Thu 10/3 San Antonio, Houston
>Fri 10/4 New Orleans, Mobile, Tallahassee, Orlando
>Sat 10/5 Home sweet home.
>
>All this is subject to change, as for most of it I'm just out having a
>good time sightseeing. I'd like to hear from folks along the route,
>especially about favored voice repeaters, packet channels, and
>non-standard APRS 2 meter frequencies. I'd also enjoy visiting with
>APRS'ers along the way, so let me know if you are interested.
>
>I'll have a computer in view while I'm driving, and of course, MacAPRS
>speaks incoming messages to me, so I'll get your mail. The driving comes
>first, so I may not be able to answer you right away! And whenever I get
>to a phone I'll be checking my email here. Also, there will be a javAPRS
>page displaying the trip (not up yet, but before I leave), with archived
>data as I get a chance to upload it, and live data from Dale's
>server...hopefully at least some of my packets will get through a GATE in
>Atlanta, and the server has a special feature that holds onto a few
>packets from KO4HD-9 longer than others!
>
>http://wa4dsy-3.wa4dsy.radio.org/Xaprs/trip.html
>
>Hope to see you out there!
>
>Steve KO4HD
>
>
>
>

We'll be watching for you Steve! Hope you have time to stop for a quick
eyeball! What time of day do you plan on coming through? I'm thinking
lunch here....

73 de Jim, KU0G

>
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO 64428
816) 725-4613

---

349. Advanced Surveillance Technologies Conference II

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 11 Sep 1996 9:37:11 -0500 (CDT)
To: aprssig@tapr.org
Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <960911093711.204264f1@exame2.dseg.ti.com>
Rendered body type: text/plain

The following is a excerpt from a message forwarded from Jim Warren's
GovAccess SIG. The conference mentioned deals with the broad subject of
individual privacy vs government surveillance by a distressingly large group

of techniques. I have put the program header and one topic from the program
dealing with vehicle location. Shades of APRS! I have the complete text of
the conference program message and will be happy to forward it privately to
anyone who asks. The whole thing is a little long for the APRSSIG and most
of it is not directly related.

73 Claude Head
K5DTN
chead@exame2.dseg.ti.com

```
>

>                                  PROGRAM
>
>                ADVANCED SURVEILLANCE TECHNOLOGIES CONFERENCE II
>
>                                Sponsored by
>
>                            Privacy International
>                      Electronic Privacy Information Center
>
>                             September 16, 1996
>
>                    Citadel Ottawa Hotel and Convention Centre
>                                Ottawa, Canada
>
>
snip
>
>1:30 pm CONSUMERS AND SURVEILLANCE
>
> INTELLIGENT VEHICLES AND TRACKING
>
>Phil Agre will outline the remarkable variety of technologies of
>surveillance currently being planned or implemented for road travel. The
>motivations for these systems are numerous and include logistics, traffic
>management, law enforcement, pollution control, and marketing. Despite the
>diversity of motivations, certain unifying themes emerge. The vast majority
>of the functionalities provided by these systems can be provided
>anonymously.
>
>        o Phil Agre, University of California, San Diego
>
```

350. Re: [APRSSIG:4474] MAJOR APRS PROBLEM ! ! !

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 07:48:28 -0700
To: aprssig@tapr.org
Message-ID: <199609111448.HAA25867@m1.sprynet.com>
Rendered body type: text/plain

```
>Bob, I've been using your program (registered of course) for a year and a
>half and have NEVER complained about APRS. Well....... here is my first
>complaint!
>
>My closest neighbor, who lives 2 miles away, comes home from work about 2
>a.m. each morning. He invariably wakes up his wife, who happens to be
>pregnant. So, she gets up and relieves herself. The flushing of the
>toilet, however, also wakes up half of his 12 other kids, who also have to
>get up and relieve themselves. Now, with all this going on, thier family
>dog thinks it's morning so he begins to  bark. The barking of a neighoring
>dog is all that my 13 hounds can stand and must reply in an excited state.
>Hearing all this barking, my grandmother, who lives across the holler,
>wakes up and instantly thinks someone is "snooping" around. So, naturally
>she picks up the phone and calls the neighbors "to see if they saw
>anything". Then after 10 minutes of talking she hangs up and calls me. I
>naturally have been sound asleep, oblivious of the "houndspeak"  going on
>outside, and wake up to  the sweet sound of a telephone ringing by the
>bed. I then reach over to pick up the phone, but instead hit the mike
>button on the 2 meter radio. This causes the repeater to i.d. and I, not
>wanting to be a curchunker, must also i.d.
>
>OK, so how does APRS fit in all this? What's the problem? Well, the
>problem is that at 2:30 a.m., when grandma is barking in one ear and the
>hounds are barking at the neighbors dogs and I'm shouting at the dogs to
>shut up, I can't resist looking at the (H)eard list screen! And THAT is
>the problem! It has become a habit!  At 2:30 am the propogation is so good
>that I can hit St. Louis and Kansas City at the same time. So, the REAL
```

```
>problem is, that I can't leave it alone! I've got to sit there and play
>with this thingy till I either fall back asleep at the keyboard or it's
>daylight! Shame on you, Bob! This thing is still too much fun!
>
>BTW, This DID happen a few nights ago and I really DO have 13 hounds!
>
>--
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>*  North Arkansas Amateur Radio Society, Inc.
>*  Marshall Volunteer Fire Dept./EMS First Responder
>*  Calf Creek Lodge #426
>*  E. Daniel Hardware "3 Fingers" Bourbon & Liars Club
>

Yes, even I do this same thing sans dogs, kids and grandmas....Is there a
name for this newly-discovered psychological disorder????

Jim KU0G
Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO  64428
816) 725-4613
```

---

351. Re: [APRSSIG:4616] Re: National APRS Conference

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Wed, 11 Sep 1996 08:51:57 -0600
To: aprssig@tapr.org
Message-ID: <3236D20D.6733@slkc.uswest.net>
Rendered body type: text/plain

```
Jim Duncan wrote:
>
> MBIG SNIP> (using the paper cutter!)
> >So, for those of you who think a national APRS convention is important,
> >exactly what agenda would you propose? Tell me what you think needs to be
> >done, and how you propose to accomplish it in a couple of days. Propose a
> >schedule of events...if it's worthwhile, I'll come, and so will a lot of
> >others.

How about shooting for representation from all of the popular tnc
manufacturers and developers of software such as NOS, so that the
aliasing issues which have been flying back and forth the past couple of
weeks can start being resolved?

Doug
KC7CO
```

---

352. APRS & WX & GPS & freqs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 11:06:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911103101.25098J-100000@arctic>
Rendered body type: text/plain

```
Please conisder ignoring fools and stupidity on this SIG and don't feel
compelled to show how right you are and how wrong someone else is with
your brilliant diatribe. I dont have time to read this stuff.   Just hit
delete!      Now... my turn, hi hi :-).

All I said was, that serious WX users should *consider* getting a UHF freq
coordinated for APRS WX.  Why does everyone have to then demand that
everyone else do it their way?

1) Having 145.79 as a common freq is ideal if you can get it.  Both
   WX and GPS can share it.  WHy argue that point!  SOme areas are
   more interested in WX, some more in GPS.  That's their choice!

2) If you think APRS is NOT growing, and that a single 1200 baud channel
is sufficient then FINE!  Dont try to force your views on someone else!

3)  If you think APRS is going to grow both in WX and GPS and Earthquakes
and ARES and RACES and telemetry and you want to have some control over
your piece of that network, then simple self preservation should tell YOU
to start doing something NOW.  It aint easy to get a freq.  You will never
pull off the coup that was used in some areas to get 145.79 again...

Thinking that you are going to be able to demand that your network do only
what you want is not going to work in the long run.
```

Everything should be considered. New freqs, new bands, 9600, backbones, new routing schemes, crosslinks, gateways... etc. Yes, we absolutely need to see distant WX. But the routing path is FIXED! DOesnt that suggest that operating on what ever freq you can GET is solvable?

Just do something, ORGANIZE, *THINK*, make decisions based on your areas needs. Take advantage of the differences in applications, dont try to force every application to one solution.

SOAP OFF.. hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

353. Re: Burned by PK-12 again!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 11:10:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911110833.25098L-100000@arctic>
Rendered body type: text/plain

On Tue, 10 Sep 1996, John W Wilson wrote:

> We went through this at the Hurricane Center at Miami with their PK12.
> There is a command, besides headerln, that needs to be set, and it deals
> with TAPR style BBS messeges. The command is BBSMSGS, if I remember, and
> it must be in the OFF state, I think. Also, remember to have MON set to
> 4 and nothing higher.

APRSdos REPLY/COMMENT: Early PK-12's had a bug and need BBSMSGS ON to work with APRS. Later ones should be OK and work better with BBSMSGS OFF. (I thhink)

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

354. Re: [APRSSIG:4597] Re: APRS Quake monitoring system

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 11:18:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911111253.25098M-100000@arctic>
Rendered body type: text/plain

On Tue, 10 Sep 1996, Dale Heatherington wrote:

> "The idea that low-frequency electromagnetic waves could be precursors
> to temblors remains controversial. Not all earthquakes release telltail
> electromagnetic signals before striking., and many reasearchers consider
> the data statistically unconvincing.

APRSdos REPLY/COMMENT: Agreed 100%, but if a tree falls in the woods and no one is listening, does it make noise?   Maybe there weren't enough sensors in the right places...

I am a skeptic about most pseudo science, but the realization that a BIC lighter can generate a 10,000 volt spike by simply striking a piece of quartz and that quartz is rock, gives me the gut feel that the bazillions of PSI building up in rock prior to a quake could quite easily generate electromagnetic signals. Anyway, a good sicence project, hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

355. DIGI return path ID

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 11:23:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911112053.25098N-100000@arctic>
Rendered body type: text/plain

On Tue, 10 Sep 1996, Tony Drumm wrote:
>
> Anyway, when we have an opening, and even occassionally when we just have
> above average propagation, what I wish I knew was the real id of the WIDE
> that I'm hearing. It would be useful if the digipeater, when resending
> something through its alias ID, could replace that alias with its true ID.

APRSdos REPLY/COMMENT: Great idea! PacComm has been doing this for a year
in their commercial code. We are still waiting for the new amateur APRS
WIDE-N digipeater with the auto-return-ID feature... hi hi Gwyn?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

356. Re: [APRSSIG:4614] Re: APRS Quake monitoring system

From: mcinnis@austin.ibm.com (McInnis)
Date: Wed, 11 Sep 1996 10:21:49 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9609111521.AA25202@babe01.austin.ibm.com>
Rendered body type: text/plain

Your comments make me realize that there is a core difference here.
The ELF stuff is possibly predictive, but somewhat speculative. i.e.
"We've got ELF, but does that mean we're going to have an earthquake?"
Of course, if enough ELF detectors are spread around we might prove or
disprove the ELF-earthquake connection.

The heartbeat system would be an after-the-fact assessment tool. It
would tell you what areas had been affected by the event one or two
"heartbeat" cycles later.

The shaker or manual status entry could be nearly real time. I would
expect a "shaker" alarm to be sent out nearly immediately after triggered.

73 de KB5YAC

wb4apr@amsat.org wrote
>
>...
>
> *** THe whole idea is that the ELF signals PRECEED the quake by several
> hours. Presumably a pizzoelectric effect due to compression of the rocks.
>
> > You could also do something by having some sort of "heartbeat" system.
>
> *** My proposal had every sensor sending one packet every 15 minutes
> to report its background readings. Ten such stations in each APRS network
> would only occupy about 1% of channel capacity. A warning in ADVANCE of
> an earthquake would be worth it!
>
> THanks for your comments. I think there is real potential here...
>
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>

--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.

357. Re: [APRSSIG:4605] Yet another possibly stupid question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 11:27:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911112607.25098P-100000@arctic>
Rendered body type: text/plain

On Tue, 10 Sep 1996, Don Murray wrote:

> What are the consequences if any of ignoring the "Com buffer overflow
> error" that occasionally pop up from time to time.

APRSdos REPLY/COMMENT: Ignore them all the time... you lost a packet is
all. It will come around again.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

358. Re: Re: C Meeting (was Too much time on my hands)

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Wed, 11 Sep 1996 10:37:46 -0500

To: <aprssig@tapr.org>
Message-ID: <9609111556.AA13578@dfw.dfw.net>
Rendered body type: text/plain

```
Dave (WNX), can you come down here too?  DFW is a FUN place!
Cheers, Bill Neal/N0NSA
wmn3@dfw.net
http://www.dfw.net/~wmn3/

----------
> From: Jim Duncan <ku0g@sprynet.com>
> To: aprssig@tapr.org
--snip!!!
> PS:  Dave, you can fly that big twin engine into MKC and pick UZQ-Bill
and I
> up for a free ride to the site if it ends up begin somewhere other than
KC!
> <snicker>
>
> 73 de Jim , KU0G
> Frank Steinbeck, Computer Tech/Coordinator
> West Nodaway R-1 School
> P. O. Box 260
> Burlington Jct., MO  64428
> 816) 725-4613
```

359. Re: National APRS Conference

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Wed, 11 Sep 1996 12:39:43 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BB9FDE.4FE22F40@gwyn.paccomm.com>
Rendered body type: text/plain

```
Doug Wetzel[SMTP:dwetzel@slkc.uswest.net] said:

>How about shooting for representation from all of the popular tnc
>manufacturers and developers of software such as NOS, so that the
>aliasing issues which have been flying back and forth the past couple of
>weeks can start being resolved?

I've been attending hamfests and conferences (as a manufacturer) for 11
years and have yet to see any issues resolved at such locations. They are
great for meeting people, conjuring up neat new ideas, eating and drinking,
etc. but not good for planning or resolving... In other words, things get
started there, but they don't get finished there. Nearly every idea that
comes up which is worth pursuing is set aside with an 'we ought to continue
this via e-mail after we get home and work out the details.'

This forum (with appropriate private messages) is probably the most
effective coordination medium.

My inpression of the National APRS Conference discussion so far is that it
is a local to regional event with national in its name .... I'm still
watching to see what develops, but I'm pretty tired of travel. Almost
didn't go to the TAPR/ARRL DCC this year, and that is an established
national event.
```

360. KO4HD Plz Contact Me

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 11 Sep 1996 10:54:58 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19960911165458.0067fe64@mailhost.primenet.com>
Rendered body type: text/plain

```
KO4HD, Please send me your E-mail address. I have some questions about JAVAAPRS.

Thanks, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV
```

361. APRS for MFJ 1278

From: Gordo42@aol.com
Date: Wed, 11 Sep 1996 14:32:44 -0400
To: aprssig@tapr.org
Message-ID: <960911143244_199281856@emout12.mail.aol.com>
Rendered body type: text/plain

I was wondering if you had a program that would work on the MFJ 1278 or the
MFJ 1270.

The MFJ 1278 is set for 7 bit and all of the APRS programs I have found so
far will not work due to the fact that they are written for 8 bit.

Due you know where I can find a copy that will run on the MFJ 1278.

I am presently using APRS66 on a borrowed Kantronics TNC.

Any help would be appreciated.

Thank you,
AA8GV

---

362. Re: [APRSSIG:4635] KO4HD Plz Contact Me

From: Joe Agrelo <jagrelo@concentric.net>
Date: Wed, 11 Sep 1996 15:01:21 -0700
To: aprssig@tapr.org
Message-ID: <323736B1.7244@concentric.net>
Rendered body type: text/plain

Alan K. Unangst wrote:
>
> KO4HD, Please send me your E-mail address. I have some questions about JAVAAPRS.
>
> Thanks, Alan
> Alan K. Unangst, WC7R
> E-mail: alanwc7r@primenet.com
> Amateur Radio Packet: WC7R @ KB7FRV

Hi Alan,

Whos e-mail address are you lokking for?

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

363. Re: [APRSSIG:4635] KO4HD Plz Contact Me

From: Joe Agrelo <jagrelo@concentric.net>
Date: Wed, 11 Sep 1996 15:35:38 -0700
To: aprssig@tapr.org
Message-ID: <32373EBA.1B13@concentric.net>
Rendered body type: text/plain

Alan K. Unangst wrote:
>
> KO4HD, Please send me your E-mail address. I have some questions about JAVAAPRS.
>
> Thanks, Alan
> Alan K. Unangst, WC7R
> E-mail: alanwc7r@primenet.com
> Amateur Radio Packet: WC7R @ KB7FRV

Please disregard my last message, your looking for KO4HD's e-mail. I
missed the call, duh!

PS-javAPRS is now at our web site, I did it between the hour of 1 and
2am. It was easy for me since all I had to do was copy and paste.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com

```
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

364. 7.7b bug report?

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Wed, 11 Sep 1996 14:40:34 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0v0v9H-00003uC@ernest.itg.ti.com>
Rendered body type: text/plain

```
I noticed two 'bugs' in 7.7b.

1) File->DOS gave me an 'illegal function call' error.  APRS aborted.

2) The version on the logo screen says 7.7a.  I ftped aprs77b.zip
from tapr on Tuesday.


--
Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-214-575-6427                        6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

365. Re: [APRSSIG:4636] APRS for MFJ 1278

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Sep 1996 15:59:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960911155912.21674A-100000@arctic>
Rendered body type: text/plain

```
Just set your 1278 to 8 bits...  I think it is the 8bit on command.


APRSdos REPLY/COMMENT:

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

366. Re: [APRSSIG:4629] Re: APRS Quake monitoring system

From: Paul Christenson <paulc@cyclades.com>
Date: Wed, 11 Sep 1996 13:20:16 -0700
To: aprssig@tapr.org
Message-ID: <32371F00.628275F3@cyclades.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:

> I am a skeptic about most pseudo science, but [...]

It's been documented many times that animals often behave strangely
shortly before an earthquake.  This indicates that *something* is
happening before the quake.  We just haven't found it yet.  Most living
things, including us, are sensitive to EM fields in subtle ways.

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

367. Electronic devices in aircraft

From: dbbrumm@mtu.edu (Doug Brumm)
Date: Wed, 11 Sep 1996 16:27:30 -0400
To: aprssig@tapr.org
Message-ID: <199609112026.QAA25852@pobox.ee.mtu.edu>
Rendered body type: text/plain

```
Hi all,

The September issue of IEEE Spectrum has a feature article on this topic. It
might cause you to stop flying until the rules are stiffened/enforced!!

73 de Doug    K8LHM    Calumet, MI    dbbrumm@mtu.edu
```

368. Re: [APRSSIG:4580] Re: SKYWARN PART 2

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 14:17:38 -0700
To: aprssig@tapr.org
Message-ID: <199609112117.OAA05158@m1.sprynet.com>
Rendered body type: text/plain

```
>O yes Daniel there is a very good reason to have that type of service on it's
>own frequency, you must not have read my message very well. There are very
>good reasons not to share freq's with Skywarn, Ares, Races, etc. Already i
>have seen messages saying that there's no reason for APRS users to be having
>local keyboard sessions, that Skywarn is a more important service etc, etc. I
>agree as much as any ham i sure would that Skywarn and all the other related
>services are great for what they do, i myself am very involved in this service
>and that's why i'm saying it will never work sharing the frequency with other
>APRS users, not if you are planning on such a service to grow. Skywarn or
>Races or Ares etc cannot expect those users that have been here to make APRS
>grow to what it is today to get off or even co-exist with those services,
>because i already see a trend for those groups to take over and use the
>network that others have built up over time for just that service and kick off
>the person (Later) that did all the hard work. Again i'm not flaming, let me
>make this clear to those that are ready hands on the keyboard and waiting to
>flame me. Just my opinion again!.
>
>--
You're missing the point here, Bill.  It's not about sharing resources, it's
about getting along and recognizing that there ARE, indeed, times when one
service should yield to the other.  Separate networks are ONLY needed where
the users
refuse to get along.

In DOS APRS there is ALWAYS the SPCL net.  Everyone sees you but SPCL group
doesn't see anything else except stuff sent to SPCL.  Then there is the
closed network feature.  There is absolutely no reason why there should be
separate frequencies!

I can, however, see that in a MATURE SKYWARN network where a full-blown
system of remote WX sites, spotters, trackers, NWS office and so forth are
using APRS for Full-Time WX work that there couldbe the need for an
alternate frequency.

Again, the bottom line is COOPERATION.  Keyboarding should cease during any
emergency situation (on APRS or ANY other network).  That's in the rules,
isn't it?
Intentionally impeding emergency communications by failure to yield to
emergency traffic is malicious interference, pure and simple.

Folks has just gotta larn to work together!

73 de Jim, KU0G
```

---

369. Re: [APRSSIG:4593] Re: SKYWARN PART 2

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 14:24:56 -0700
To: aprssig@tapr.org
Message-ID: <199609112124.OAA07440@m1.sprynet.com>
Rendered body type: text/plain

```
>I concur. WX spotting AND GPS together gave the impetus to get
>APRS going in Quad Cities Iowa/Illinois.
>73,
>Bill

And it's about to do the same thing again in Kansas City!  (you know
"everything's up to date in Kansas City")  Our NWS station will be on the
air sometime very soon when NWS finishes installing its new computer
network.  Space is already allocated and awaits our equipment!  Next thing
we'll see are storm-spotters with stand-alone trackers or MIM modules to
report their exact position back to NWS along with verbal reports!

Exciting time to be in amateur radio and packet, isn't it guys!

(Nice to see you on the SIG, Bill!  I passed through QC Labor Day Monday and
didn't see a soul live on 145.79....Had hoped to at least say a quick HI to
you all)

73 de Jim, KU0G)
>
```

370. Blackjack Run Commencing!

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 11 Sep 1996 14:27:47 -0700
To: aprssig@tapr.org
Message-ID: <199609112127.OAA08088@m1.sprynet.com>
Rendered body type: text/plain

All of you that have made reservations for the second run of the BLACKJACK GPS ANTENNA should send your payment and order in NOW! The work has begun and units will begin shipping in about 14 days.

Send CASHIERS CHECK or MONEY ORDER (made payable to James Duncan) in the amount of $43.00 per unit (includes shipping and handling) to:

BLACKJACK ANTENNA
13 N.W. Barry Road, #141
Kansas City, MO 64155

Sorry to waste bandwidth but needed to get this out today. I'll do personal EMail to all who have reservations tomorrow!

73 de Jim, KU0G
Blackjack GPS Antennas

---

371. Re: [APRSSIG:4608] Re: Yet another possibly stupid question

From: "Don Murray" <james-m@ix.netcom.com>
Date: Wed, 11 Sep 1996 17:51:21 -0400
To: <aprssig@tapr.org>
Message-ID: <199609112152.OAA02557@dfw-ix1.ix.netcom.com>
Rendered body type: text/plain

Thanks Tom for the quick reply, I will try your suggestions, The only one that I am sure that I can do tho is decrease the com port baud rate.. I currently am running APRS in the Windows 95 background on an ACER Pentium computer. It has the 16550 uart chips I believe.

Anyways, Thanks again for the suggestions.
Don

> From: Tom Devine <epdkr@hurricane.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4608] Re: Yet another possibly stupid question
> Date: Wednesday, September 11, 1996 4:37 AM
>
>
>
> ----------
> > From: Don Murray <james-m@ix.netcom.com>
> > To: aprssig@tapr.org
> > Subject: [APRSSIG:4605] Yet another possibly stupid question
> > Date: Tuesday, September 10, 1996 8:40 PM
> >
> > What are the consequences if any of ignoring the "Com buffer overflow
> > error" that occasionally pop up from time to time. I have had these
> error
> > occur with a 386laptop, a compaq 386, a packard bell 486, an Acer
pentium
> > computer. More often on the 386's but they have occurred on the
pentium
> > also.. What happen if I choose to simply ignore the error message??
>
>
> One draw back is you lose data! In a Windows 3.1xx versions where DOS is
> active, you can
> increase the com buffers.... try that- if you still having trouble slow
the
> port down, i.e., go from say 9600 baud to 4800, etc.
>
> This may help or may not-
>
> Also consider upgrading you I/O board to include a better UART chip...
>
> 73 Tom
>

---

372. Re: [APRSSIG:4607] Upgrading APRS 7.3d to 7.7 HELP!

From: rwf <rwf@mindspring.com>
Date: Wed, 11 Sep 1996 18:29:43 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960911222943.006feaf0@mindspring.com>
Rendered body type: text/plain

```
For one thing, the maplists need to now be in a directory by themselves.
Read the "newnotes.txt" file.
(I think that is its name)



At 01:30 AM 9/11/96 -0500,KB8PFfwrote:
   I have downloaded the 7.7 and just tried to copy the
>"aprs77.exe" into my aprs dir. when I tried
>to run it I got the following on my screen.
>
>CAN'T FIND MAPS!
>STOP IN LINE 0 OF MODULE APRS76W AT ADDRESS 059F:6C79
>
>What is the best way to upgrade to 7.7  from  7.3d
>
```

---

373. Re: [APRSSIG:4617] Re: APRS Airshow

From: rwf <rwf@mindspring.com>
Date: Wed, 11 Sep 1996 18:29:44 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960911222944.006f875c@mindspring.com>
Rendered body type: text/plain

```
Yes I have personally verified it in private aircraft AND ON DELTA (for
knutt, the pilot).
It does shut down!
Ralph



At 09:27 AM 9/11/96 -0500,KU0G wrote:
>I thought that we had documented (from Florida air experiments early 1996)
>that the GPS-45 shuts down above 99 knots?
```

---

374. (no subject)

From: rwf <rwf@mindspring.com>
Date: Wed, 11 Sep 1996 18:29:46 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960911222946.006e6e40@mindspring.com>
Rendered body type: text/plain

```
Since someone here usually posts certain messages from here over to the
coordinator's mailing list, I thought I'd let you see this message from that
list.  The Author is the fone of the original Directors and Incorporators of
the National Frequency Coordinator's Council, who is acting as the new SPOC
(Single Point of Contact) organization.

 Someone may need to explain to him that most APRS users are cognizant of
the proximity and take measures to avoid interference.  Hopefully the
satellite does the same  ;-) <wink>.



From: WhitBrown@aol.com


Whit quoted Werner:

In a message dated 96-09-10 08:07:20 EDT, WERNER.W.F-@smtpgty.bwi.wec.com
(WERNER.W.F-) writes:

>
>Hey guys, TMARC/DMARC are beginning negotiations about bandplanning -
>trying to make sense of the voice/digital thing.  Would like your comments
>on the following:
>
>1.) 2 meters, how about digital in 144.3 to 144.5?  Repeater directory
>shows as satellite but our satellite folks disavow any knowledge of its use
>for this purpose. Rumor has it that other areas have designated this for
>packet/simplex.
>
```

```
Then Whit said:

  Bill, My satellite sources says there is indeed satellite activity on
144.3-144.5, much of is it nonpublished command frequencies, and is so
alloted by most countries. I hope this doesn't turn into another
inconsiderate digital excursion into satellite uses like the APRS moving into
145.79...right up against 'em.
```

---

375. Re: [APRSSIG:4643] Re: SKYWARN PART 2

From: William Nolle <wa8inz@cris.com>
Date: Wed, 11 Sep 1996 18:20:06 -0700
To: aprssig@tapr.org
Message-ID: <32376546.3CF0@cris.com>
Rendered body type: text/plain

```
Jim Duncan wrote:
>
> >O yes Daniel there is a very good reason to have that type of service on it's
> >own frequency, you must not have read my message very well. There are very
> >good reasons not to share freq's with Skywarn, Ares, Races, etc. Already i
> >have seen messages saying that there's no reason for APRS users to be having
> >local keyboard sessions, that Skywarn is a more important service etc, etc. I
> >agree as much as any ham i sure would that Skywarn and all the other related
> >services are great for what they do, i myself am very involved in this service
> >and that's why i'm saying it will never work sharing the frequency with other
> >APRS users, not if you are planning on such a service to grow. Skywarn or
> >Races or Ares etc cannot expect those users that have been here to make APRS
> >grow to what it is today to get off or even co-exist with those services,
> >because i already see a trend for those groups to take over and use the
> >network that others have built up over time for just that service and kick off
> >the person (Later) that did all the hard work. Again i'm not flaming, let me
> >make this clear to those that are ready hands on the keyboard and waiting to
> >flame me. Just my opinion again!.
> >
> >--
> You're missing the point here, Bill.  It's not about sharing resources, it's
> about getting along and recognizing that there ARE, indeed, times when one
> service should yield to the other.  Separate networks are ONLY needed where
> the users
> refuse to get along.
>
> In DOS APRS there is ALWAYS the SPCL net.  Everyone sees you but SPCL group
> doesn't see anything else except stuff sent to SPCL.  Then there is the
> closed network feature.  There is absolutely no reason why there should be
> separate frequencies!
>
> I can, however, see that in a MATURE SKYWARN network where a full-blown
> system of remote WX sites, spotters, trackers, NWS office and so forth are
> using APRS for Full-Time WX work that there couldbe the need for an
> alternate frequency.
>
> Again, the bottom line is COOPERATION.  Keyboarding should cease during any
> emergency situation (on APRS or ANY other network).  That's in the rules,
> isn't it?
> Intentionally impeding emergency communications by failure to yield to
> emergency traffic is malicious interference, pure and simple.
>
> Folks has just gotta larn to work together!
>
> 73 de Jim, KU0G

No i don't think i'm missing the point Jim, you stated it yourself above that
keyboarding and all other activity is to stop!. This is why i suggested another
frequency would be better instead of expecting everyone to stop all their activity
because those folk need the frequncy. Would it not be better to aquire a frequency
of it's own where everyone would now not to go there unless there's a reason to
participate. I can understand why they want to, all the hard work of getting a good
network setup is already there and done by others. And i doesn't have anything to
do with getting along with each other. I'm just bringing up some points that would
i'm sure bother more then a few APRS users. And Jim i have FCC part 97 in the shack
here like i'm suppose to have thank you Hi. I had no intention for this to be a
flame, but i'm sure many will take it as such. Like i stated before i had to fight
hard to get this frequency coordinated (By the way i maybe very well the only one
in Alabama that does have a coordinated Digi frequency) to be very concerned about
how it's going to be used and why. I look at it no different then would any other
coordinated packet Digi. But then again if the majority of the users in this area
would agree with using it for Skywarn or whatever would be fine with me, but that
doesn't mean that would be the best thing to do.I'm still convinced that a Skywarn
```

```
APRS frequency would serve the community much better then trying to use an existing
network with already many users on it.

--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

376. Re: [APRSSIG:4642] Electronic devices in aircraft

From: "John W.(Bill) Hays" <billh@netins.net>
Date: Thu, 12 Sep 1996 01:01:29 +0000
To: aprssig@tapr.org
Message-ID: <323760E9.1EA8@netins.net>
Rendered body type: text/plain

```
Doug Brumm wrote:
>
> Hi all,
>
> The September issue of IEEE Spectrum has a feature article on this topic. It
> might cause you to stop flying until the rules are stiffened/enforced!!
>
> 73 de Doug    K8LHM    Calumet, MI    dbbrumm@mtu.edu
Looks like we btr go bk to GCA and Precision RADAR Approaches,
I used to do for 20 years in USAF. Hi
73, Bill
```

---

377. Re: [APRSSIG:4615] Re: Too much time on my hands....

From: rsellers@firecraker.com (Roger Sellers)
Date: Wed, 11 Sep 1996 20:23:12 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609120123.UAA24965@tapr.org>
Rendered body type: text/plain

```
>
>>  The I vote for Chicago Suburb Area  <grin>  We have about 60-70 stations
>>in close proximity just in northern illinois and southern Wisconsin. Jim,
>>you saw that while you were here.
>>
>>  side note: I changed IP's again. note new e-mail address "just in case"...
>>
>>73,
>>
>>Roger Sellers
>>Amateur Radio: KB9LBU
>True, Roger, but only three people even acknowledged that I was in the
>Chicago area over Labor Day weekend!  I was really disappointed particularly
>when one guy said they were all at a meeting in Streamwood (where I was
>passing through at the time!) and didn't even invite me to the meeting or
>respond when I asked where it was!!!
>
>Maybe I'm wrong here, BUT I would expect that a visiting APRS mobile ought
>to have been made feel more welcome.  In Kansas City we attempt to contact
>anyone passing through and at least someone says "hey, stop in if you've got
>time!"
>
>Granted the Chicago area DOES have a lot of users but my initial impression
>is that they aren't interested in socializing with visitors.  I hope I'm
>wrong because I've met a LOT of wonderful people in Chicago in my may trips
>there over the past 10 years.  I have found that face-to-face Chicagoland
>people are genuinely nice and eager to make us "furriners" welcome and feel
>at home!  Maybe I expected too much from the amateur community???
>
>Don't take this personal, Chicago folks, I guess I was just really
>disappointed because Karla and I had planned on taking time to visit and
>meet you during our vacation...I hope that it works out better in December
>when I come to Midwest Band and Orchestra Clinic right before Christmas!
>
>Best 73 de Jim, KU0G
>Kansas City APRS Coordinator
>EMail:  ku0g@sprynet.com
>Frank Steinbeck, Computer Tech/Coordinator
```

```
>West Nodaway R-1 School
>P. O. Box 260
>Burlington Jct., MO  64428
>816) 725-4613
>
>
  Well......  um...er... what can I say. We were all busy washing the car.
Yeah that's it, we were washing our cars. No... that wont work, I used that
last week.
 Hummm... lets see....I know!
    Jim, I used my APRS/GPS equipment to monitor and track you as you left.
We ran an intercept course and caught you before you left Illinois empty
handed. WA9FFL and I had a enjoyable time chatting with you and Karla at
lunch and will look forward to your next trip here.

  How's That? <grin>

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

378. Re: [APRSSIG:4617] Re: APRS Airshow

From: rsellers@firecraker.com (Roger Sellers)
Date: Wed, 11 Sep 1996 20:25:31 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609120125.UAA25040@tapr.org>
Rendered body type: text/plain

```
>
>I thought that we had documented (from Florida air experiments early 1996)
>that the GPS-45 shuts down above 99 knots?
>
>(Help me out here, Rich...)
>
>I hope that I'm mistaken because we have something brewing along those lines
>here in KC....
>
>73 de Jim, KU0G

That is correct a Garmin 45 will not display direction and speed above 99
knots. Here they are there by you, see if you can convince them in the
errors of their logic <grin>.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

379. Re: [APRSSIG:4618] Re: Too much time on my hands....

From: rsellers@firecraker.com (Roger Sellers)
Date: Wed, 11 Sep 1996 20:28:02 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609120128.UAA25138@tapr.org>
Rendered body type: text/plain

```
>>Great! Let's have it in Branson! We can watch Boxcar Willie and talk ARPS
>>at the same time. What a joke! Naaaaaaaaa......... KC is a Great Idea!
>>
>I hate to admit it, BUT Branson is one of the primary sites I was
>considering due to the possibility of having plenty for the non-ham family
>members to do while the rest of us sit around chatting about APRS!
>
>73 de Jim, KU0G
  You know, there is logic in that. It might help sell the idea to a spouse
to gain support.

73,


Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
```

```
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

380. re:APRS SOFTWARE

From: lpchvn@juno.com (Leo-Paul A Chauvin)
Date: Wed, 11 Sep 1996 21:58:25 EDT
To: aprssig@tapr.org
Message-ID: <19960911.211848.4639.2.lpchvn@juno.com>
Rendered body type: text/plain

```
Hi Bob, -Just a note to let you know that I received the APRS SOFTWARE
disk, but I have a problem,I cannot unzip the files,
I printed the INSTALL.TXT  file, and the instructions says, to use a
recent version (1993) of PKUNZIP.EXE, and says that the file,
PKUNZIP.EXE, is omitted on some disks to make room,
I have searched my files, but I do not have that recent version of
PKUNZIP.EXE
any help where I could get that version would be very much appreciated,
                                                      Thanks, Paul ,
KA1QP

lpchvn@juno.com
```

---

381. Re: [APRSSIG:4627] APRS & WX & GPS NETWORK.

From: etjm@ECUA.NET.ec (Ing Teodoro Jaramillo M.)
Date: Wed, 11 Sep 1996 21:50:19 -0500
To: aprssig@tapr.org
Message-ID: <9609120243.AA69152@ecua.net.ec>
Rendered body type: text/plain

```
Hello BOB and readers of APRSSIG
I am a good reader, listener and GOOD STUDENT of digital technologies, and
try to apply them accordingly to the local enviroment
which is "totally VIRGIN LAND" for development.. therefore being the only
sysop in Ecuador and work and practive all possible modes on most bands..
I have been learning for a long time now APRS and all i can do is applaude
loudly to Mr. Bob Bruninga for his works and now his patience .

my request is simple and therefore it will turn inmediately complex:
 I have been requested by the National Civil Defense to design a digital
network ( ecuador is  smaller  than  NEVADA JUST IN CASE) WHICH WILL
CARRY FOR  20 PROVINCES  A NETWORK OF :  SHORT DATA PACKET TYPE, GPS
FIXED,REMOTE, RESCUE,MOBIL, AIR, MARINE, PORTABLE IF NEEDED AND  MOST
IMPORTANT IS THE  NETWORKING OF   WEATHER INFORMATION FROM AND TO ALL
THE PLACES IN THE PROVINCES (20)  GALAPAGOS WILL BE ON HC8   ON H.F.

QUESTIONS:
 1. HOW ADAPTABLE IS THE WEATHER PACKET DATA TO TRAVEL THRU A
FAIR NUMBER OF  DIGITAL REPEATERS ( TO COVER ECUADOR ABOUT 8-10 )

2. THE  RAW  WX DATA SHOULD BE  CAPTURED AND EVALUATED STORED ANALYZED
    ETC IN AT LEAST  4-6  CENTERS  AROUND THE COUNTRY MOSTLY IN THE
     BIG CITIES.

3. LIKEWISE WITH   G.P.S  GATHERED ,CAPTURED  INFORMATION.

4. IT IS POSSIBLE TO ENCLOSE SHORT  PACKET DATA COMMENTS EITHER ON WX AND
    OR  GPS THRU THIS SORT OF  NETWORK...???.

5. WHICH TYPE, BRAND, PROTOCOL, ACCESORIES, FOR  WEATHER AND  ALSO FOR
    G.P.S. WITH  TNC'S ARE THE MOST RELIABLE I HAVE READ OF MANY TYPES
   BRANDS FOR   WEATHER NOT MANY BUT FOR  GPS SEVERAL TNC'SMODEM COMBI
   NATIONS( I AM USING A  PACCOM TINY2-MK2-GPS WITH  KAM+, KPC-3 AND
    SHORTLY  WITH  KANTRONICS  9612.

6.  CAN  HIGHER SPEEDS THAN 1200 BAUD BE ACCOMODATED IN A NETWORK FOR
    THE SAKE OF RELIABILY,SPEED,TIME AND OR IS IT BETTER TO STAY FOR
     RELIABLE KNOWN SPEED 1200 BAUD ON  VHF AND ALSO PERHAPS PRICE AND
     AVAILABILITY OF PARTS FOR  SYSTEM CONFIGURATION. PSE ADVISE.

7.  SITES WE HAVE ALL THE WAY FROM 16000 FT(THAT IS RIGHT) LOOKING AT
     NEARLY 350-400 KILOMETERS COVERAGE OVER THE COAST-LINE FLAT LANDS
    FROM THE ANDES AND FROM SAME SITES PERFECT  DIGI-LINKING OR GOING
     TO DUAL PORTS AND HIGHER SPEEDS IF NEEDED.

8.    MOST OF THE WEATHER INSTRUMENTS WILL BE AT OR NEAR THE  AIRPORTS
      WHERE THERE  IS QUALIFIED PERSONNEL, SAFETY AND INSTALLATIONS ALL
       READY AVAAILABLE, OTHERS IN BUILDINGS AND REMOTE AREAS AS  WELL.
```

9 FREQUENCIESWELL THERE IS NOT MUCH OF A FIGHT... HERE AT ALL AND THERE IS A FEW VOICE REPEATERS SCATERRED IN THE 145- UP TO 148 MHZ. UHF IS CLEAR 43-450 MHZ.

10. LAST QUESTIONS BEFORE MAKING THIS UNREADABLE AND TIRING TO BOB AND OTHERS.... SUGGSTIONS ON EQUIPMENT SINCE MOST OF IT OR ALL OF IT WILL BE NEW... COULD ATTEMPT TO ACQUIRE GOOD FILTERED, REALIABLE, POWER FULL RADIOS (DATA-READY) WHICH COULD BE USED FOR VOICE AND WX-GPS PERHAPS NORMAL PACKET WHENEVER THIS RADIOS-SITES ARE NEAAR OPERATORS AND COULD ALSO CHANGE FRECUENCIES AND DO ""REAL FAST PACKET DATA FOR THE NATIONAL CIVIL DEFENSE ORGANIZATION" INPARALELL WITH THE WX=-GPS AND SHORT DATA COMMENTS...

I CERTAINLY BOB APPRECIATTE YOUR INITIAL COMMENTS, PARTIAL, INITIAL AND IF NEEDED WE SHALL DISCUSS THIS THRU OTHER MEANS, FAX AND OR DIRECT E-MAIL... BUT I AM SURE THAT THE EXPERIENCE FROM MANY APRS=GPS WX THAT I SEE SO ACTIVE IN THE 10.151 WHICH I MONITOR THEIR COMMENTS CERTAINLY WILL BE MORE THAN WELCOME TO BUILD THE BASIS OF THE DESIGN FOR THIS EXITING PROJECT WHICHIS FEASIBLE REGARDING, BUDGET, SITES, ACCESS, POWER, TOWERS, ETC WHICH MAKE IT POSSIBLE TO IMPLEMENT. MY EXPERIENCE IS VERY FAIR IN DIGITAL WORK AND HAVE SEST UP SOME PACKET NETWORKS HERE AND THIS TIME WILL BE BIGGER AND BETTER AND OF A BETTER USEAGE FOR LOCAL, REGIONAL, NATIONAL AMATEUR SUPPORT FOR ALL PARTIES.

PUT ME IN TOUCH WITH MANUFACTURERS AND I SHALL ADDRESS THEM THE PROPER QUESTIONS IN THEIR AREA.. BUT GUIDANCE IS SURELY NEEDED TO CONPREHEND THAT IS POSIBLE TO...... HAVE FLOW OF WEATHER PERIODIC DATA- RATES AND ALSO GPS FLOW AS WELL AS SHORT LINES OF COMMENTS(SUCH AS BEACONS,AND SHORT LOCAL AND OR LONGER DISTANCE QSO'S EXCHANGE OF KEYBOARD TO KEYBOARD.

WATCHING ONLY 10.151 FROM 2200Z THRU 1300Z WITH GOOD ANTENNAS ,RADIO TNC AND LOCATION I ACQUIRE IN A NORMAL EVENING NOT LESS THAN 20-30 SITES, WEATHER, MOBILES(W7LUS) OTHERS, YATCHS AND ALOT OF DIGI-STATIONS RELAY TYPES. PROPAGATION MOSLTY PAINTS FOR MY LOCATION....FROM PANANA TO NORTHERN CANADA THRU THE EASTERN SEA-BOARD AND MOSTLY INTO TEXAS OKLA, WI,OTHERS,,VERY FEW CALIFORNIANS MAKE I SEE BILL WB6LPG SOEM OREGON (KEN) . NEED TO LEARN MORE ON THE GOOD USE OF APRS AND TRICKS... SUCH AS ""SPCL""" ETC.

I READ ALL OF YOUR MESSAGES GUYS AND USUALLY GET A DUMP OF NOT LESS THAN 40-50 A DAY....WILL STAY AS LONG AS I CAN ON THE APRSSIG BUT HONESTLY AT TIME....IT IS DISCOURAGING....COMING FROM AN INTERNATIONAL READER....MOSST GUYS CAN GET TURN ON ANDON ON NOTHING.... AND SUDDENDLY BEING OF NOT IMPORTANCE "" GOES AWAY" BUT ALSO ALOT OF INTERSTING SUBJECTS AND MOSTLY ADMIRE YOUR PATIENCE ""BOB BRUNINGA" WHAT A PROGRAM, WHAT A JOB AND OF COURSE OTHERS HELP IDENTIFY PROBLEMS AND FIND CURES... A GREAT SYSTEM AL IN ALL AND GLAD TO BE INTO APRS-GPS-AND SOON HOPE "WX".

73'S

FOR WRITTEN MATERIAL, SOFTWARE(SHARE ETC) MANUALS, BOOKS THE FORWARDERS ADDRESS :

TED JARAMILLO HC5K
CUENCA - ECUADOR S.A.
C/ O ECUATRAVEL
3 5 6 PALM AVENUE
HIALEAH -FLORIDA 33010 IF ANY CHARGES UPS COD THEY WILL
ACCEPT CALLING 305- 885 7744 MRS DONOSO .

DIRECT MAIL :
TED JARAMILLO HC5K
P.O. BOX DX
CUENCA ECUADOR S.A.

FAX 593-7- 817 082 E-MAIL etjm@az.pro.ec

PACKET BBS : HC5K @ NO8M .#NEOH.OH. USA .NOAM

(NOTE SOON WILL HAVE A MAILBOX-BBS SETUP ON 20 METERS AND OTHER QRG'S. ON CLOVER, PACTOR 1 AND 2 WILL ADVISE.

SORRY FOR THE LONG PLAY ADD, REQUEST,FREE COMMENTS AND OTHERS...

```
ADIOS  TILL THE  GOOD  NEWS  SHOW  UP ON MY SCREEN.... THANKS AHEAD
 SPECIALLY TO BOB WITH MY RESPECTS AND CONGRATULATIONS ALWAYS.

TED  HC5K

    ease conisder ignoring fools and stupidity on this SIG and don't feel
>compelled to show how right you are and how wrong someone else is with
>your brilliant diatribe. I dont have time to read this stuff.   Just hit
>delete!      Now... my turn, hi hi :-).
>
>All I said was, that serious WX users should *consider* getting a UHF freq
>coordinated for APRS WX.  Why does everyone have to then demand that
>everyone else do it their way?
>
>1) Having 145.79 as a common freq is ideal if you can get it.  Both
>   WX and GPS can share it.  WHy argue that point!  SOme areas are
>   more interested in WX, some more in GPS.  That's their choice!
>
>2) If you think APRS is NOT growing, and that a single 1200 baud channel
>is sufficient then FINE!  Dont try to force your views on someone else!
>
>3)  If you think APRS is going to grow both in WX and GPS and Earthquakes
>and ARES and RACES and telemetry and you want to have some control over
>your piece of that network, then simple self preservation should tell YOU
>to start doing something NOW.  It aint easy to get a freq.  You will never
>pull off the coup that was used in some areas to get 145.79 again...
>
>Thinking that you are going to be able to demand that your network do only
>what you want is not going to work in the long run.
>
>Everything should be considered.  New freqs, new bands, 9600, backbones,
>new routing schemes, crosslinks, gateways... etc.  Yes, we absolutely need
>to see distant WX.  But the routing path is FIXED!  DOesnt that suggest
>that operating on what ever freq you can GET is solvable?
>
>Just do something, ORGANIZE, *THINK*, make decisions based on your
>areas needs.  Take advantage of the differences in applications, dont try
>to force every application to one solution.
>
>SOAP OFF..  hi hi
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
>
```

---

382. Re: [APRSSIG:4640] Re: APRS for MFJ 1278

From: Roger Breckon <n8chb@tir.com>
Date: Thu, 12 Sep 1996 02:48:42 +0100
To: aprssig@tapr.org
Message-ID: <32376BF9.722F@tir.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Just set your 1278 to 8 bits...  I think it is the 8bit on command.
>
> APRSdos REPLY/COMMENT:
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
====================================================

Am I glad AA8GV asked the question abt 8 bit.
AEA TNC's 8bitconv defaults "off"

Thanks for the question and the answer.


73

Roger n8chb
```

---

383. RE: [APRSSIG:4653] Re: APRS Airshow

From: Willson Flor <willf@rrgroup.com>
Date: Wed, 11 Sep 1996 21:59:02 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Message-ID: <c=US%a=_%p=RRSystemsGroup%l=RRGROUP3-960912025902Z-2318@rrgroup3.rrgroup.com>
Rendered body type: text/plain

```
Roger Sellers wrote:

>> That is correct a Garmin 45 will not display direction and speed above 99
>> knots.

And even worse, the NMEA data stops, too!

73 de KB9JTT
```

---

384. Need recent hurricane files

From: KD1YV <jimkd1yv@ix.netcom.com>
Date: Wed, 11 Sep 1996 23:30:50 -0300
To: aprssig@tapr.org
Cc: "Chris T. Thompson" <104357.130@CompuServe.COM>
Message-ID: <323775DA.1D54@ix.netcom.com>
Rendered body type: text/plain

```
We are having a hamfest this weekend in Newtown, CT, and I want to run an
APRS demo to try to generate some interest in this area.  Who knows,
maybe we can get enough for a club order :-)

Problem is that the site is in an RF hole, and I have doubts about being
able to run any live demos.  I was thinking that a replay of one of the
recent hurricanes would be a neat demo.  Does anybody have the tracking
files that I could FTP?  Hortense would probably be ideal, since it is so
topical right now, but Fran is probably still fresh in everybody's
memory, too.

I am trying to keep up with the list, but I am travelling this week, so a
copy by private e-mail would be appreciated, if possible.

Thanks in advance and
--
73 de Jim, KD1YV
```

---

385. Re: [APRSSIG:4655] re:APRS SOFTWARE

From: "Arthur J. Martin" <amartin@world2u.com>
Date: Thu, 12 Sep 1996 03:15:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609120715.DAA04985@ants3.world2u.com>
Rendered body type: text/plain

```
At 09:11 PM 9/11/96 -0500, you wrote:
>Hi Bob, -Just a note to let you know that I received the APRS SOFTWARE
>disk, but I have a problem,I cannot unzip the files,
>I printed the INSTALL.TXT  file, and the instructions says, to use a
>recent version (1993) of PKUNZIP.EXE, and says that the file,
>PKUNZIP.EXE, is omitted on some disks to make room,
>I have searched my files, but I do not have that recent version of
>PKUNZIP.EXE
>any help where I could get that version would be very much appreciated,
>                                                      Thanks, Paul ,
>KA1QP
>
>lpchvn@juno.com

Hi, Paul....

Sorry to butt in here, but I may be able to help you is a small way. If you
have QBASIC in your copy of DOS, I can send you a message wich will contain
an ASCII file of a QBASIC program that will create a different program
called UUDECODE.UUE  Since you use juno, you probabably will not be able to
get any binary file forwarded to you, even as an attachment. I will send you
a copy of a simple UUDECODE program writtem for QBASIC, if you wish, that
you may compile using your copy of QBASIC and get a binary file called
UUDECODE.COM. Once you have that saved on your computer (it is a pc clone,
isn't it?) I can send you text files of PKUNZIP that are in UUENCODEed
format. Won't cause juno to burp. Just run the UUDECODE program on these
files (they are about 12k bytes in 4 files) keeping them in sequence and
copying them into one large file. Edit the file to remove everything between
the files and leave the "start" or begin line and the end line. The spaces
in between the file sections has to be cleaned out. If you use the DOS EDIT
program, use Control-Y to delete the whole line. Be careful not to remove
any line starting with a uppercase M !!! Then save it. Run UUDECODE, setting
this big file as the input and call the output file PKUNZIP.EXE. You should
end up with a copy of PKUNZIP.EXE, 29,378 bytes long dated 2-1-93. When you
```

use it to install APRS, you MUST you the -d option!!!

If you know the maximum size of a message that you are allowed to receive,
let me know and I'll split them up so that they do not exceed that limit.

What an offer! Just can't refuse, huh? <grin> I'll start if you ask me to
send it. I don't want you to think I was forcing this on you. If you are on
juno, it will come in handy, one day! Take care... (you'll love APRS)

CUL 73 de Art

==================================
From: Arthur J. Martin
TEL: +908+876+3189
Inet: amartin@world2u.com
AX.25: N2QAE@N2QAE.#NNJ.NJ.USA.NA
==================================

386. Oops! Did it again... SRY

From: "Arthur J. Martin" <amartin@world2u.com>
Date: Thu, 12 Sep 1996 03:23:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609120723.DAA05060@ants3.world2u.com>
Rendered body type: text/plain

Sorry for the error in replying instead of sending a personal e-mail to
Paul, but I guess it was the early morning hours that dulled my brains
<sigh> I apologize to all SIG members for wasting the bandwidth. Pleeze
don't send flames... I'm too old for that stuff. I just can't undo what I
have set in motion, so I'll try to be a better netizen in the future. Honest!

73 de Art

==================================
From: Arthur J. Martin
TEL: +908+876+3189
Inet: amartin@world2u.com
AX.25: N2QAE@N2QAE.#NNJ.NJ.USA.NA
==================================

387. Hamfest demo

From: rwf <rwf@mindspring.com>
Date: Thu, 12 Sep 1996 09:59:49 -0400
To: aprssig@tapr.org
Cc: jimkd1yv@ix.netcom.com
Message-ID: <2.2.32.19960912135949.0072f890@mindspring.com>
Rendered body type: text/plain

We had the same problem at the Atlanta Hamfest 2 yrs ago. Since there was
activity in the area, (but no local digi yet) we set up a temporary WIDE in
a car in the parking lot. It brought all the APRS signals from the 40 mile
away digi into the convention center and we had a convincing full live demo
in the PacComm booth.

So convincing that 46 folks registered APRS as a result of it. We handed
out 50-60 sets of disks.

Ralph
Atlanta Ga where every car is a WIDE ;-)

At 10:41 PM 9/11/96 -0500, you wrote:
>Problem is that the site is in an RF hole, and I have doubts about being
>able to run any live demos.

388. Trip & Fact Finding

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 12 Sep 1996 10:40:02 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609121541.KAA05852@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

I'm planning a trip from Marshall AR to Rochester NY. Leaving this
Saturday, I'll be traveling APRS mobile to I-44 in MO to I-70 in IL, IN

```
and OH. Turning north in OH on I-71 to I-90 on to Rochester. I have to be
there on Tuesday. On the way back however, I am taking I-90 across to
South Bend, IN. From South Bend, I am game to any direction that is
sort-of southwest to Arkansas.

During my trip I'd like to meet with anyone interested in the APRS Skywarn
project. I'd also like to make a few stops and just visit with anyone that
is an APRS user. As you might guess, I'm not in any hurry to get there or
return! (of course around here no one gets in a hurry anyway!)

Hope to meet you out there!

73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *
```

389. APRS Callsign changes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 12 Sep 1996 11:57:47 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960912114031.4829L-100000@arctic>
Rendered body type: text/plain

```
On Tue, 10 Sep 1996 KD1E@aol.com wrote:
> With gate 2 of the vanity callsign program opening on Sept 23, how are
> you going to handle the huge demand for callsign changes?
>
> 1.  Require new registrations (full price)
> 2.  Charge 5 or 10 bucks for your trouble
> 3.  Do it for nothing
> 4.  Suggest I keep my old callsign to save you work.
> 5.  Or none of the above.

APRSdos ANSWER:      NUMBER 4!  I've been doing it for free, but
each of these distractions add up and it keeps me from doing what I want
to do... and need to be doing.  Also a legal buddy  said that my kids need
to be actively involved to be considered partners in APRS.  So I'm
going to let them do this part of the paperwork and charge $7.   I
dont like doing it on the internet, because I'm still using a 1980's mail
program and have to manually make notes, compute #s off line and then
re-log on to reply with new #'s...  US mail only please...

See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

390. Verification of "aprssig@hamgate.sunyerie.edu" subscription to TAPR APRSSIG mailing list

From: TAPR Automated List Verification <autoverify@tapr.org>
Date: Thu, 12 Sep 1996 11:55:15 -0500 (CDT)
To: aprssig@hamgate.sunyerie.edu
Message-ID: <199609121655.LAA01760@tapr.org>
Rendered body type: text/plain

```
Dear APRSSIG list subscriber:

This is a periodic message to verify your subscription to the APRSSIG
mailing list and to uncover any bad mail addresses.

If you wish to remain subscribed to this list, simply DELETE this message.
No other action is required.                       -------------------

If you wish to unsubscribe DO NOT REPLY TO THIS MESSAGE.  Send a message to
listserv@tapr.org containing only the following line:

unsubscribe APRSSIG

---

The TAPR mailing list software supports 'digest' mode.  Digest mode
generates a periodic message each day containing multiple messages,
instead of sending you each message individually.  If you feel close to
information overload, you may find digest mode to be very useful.

If you would like to change to digest mode, send a message to
listserv@tapr.org containing only the following line:

set APRSSIG mail digest

---
```

TAPR membership dues pay for this service, as well as for the TAPR FTP, WWW, and other services. If you are a TAPR member, we thank you for your support! If not, please consider joining. Your membership will help us to maintain and improve our services in the future.

Cheers - TAPR

---

391. RELAY on hf

From: n8chb@juno.com (Roger Breckon)
Date: Thu, 12 Sep 1996 17:56:51 PST
To: aprssig@tapr.org
Message-ID: <19960912.175653.9350.0.n8chb@juno.com>
Rendered body type: text/plain

Could someone tell me the scoop on why I am seeing so many stations with
RELAY
in the path on hf 10.151 ?

I'm not trying to be a policeman or anything, I just wonder how they are
getting on
to 30 mtrs. Does someone have their Alias set to RELAY?

```
*CALL-*   >RELAY>BEACON:
*CALL-2   >RELAY*>ID
CALL         >RELAY*>ID
CALL         >RELAY*>APRS:
*CALL       >RELAY*>RELAY*>WIDE>WIDE>WX:
*CALL        >RELAY>WIDE*>WIDE>GATE*>BEACON:
*CALL-3*   >RELAY>W7***>GATE>WIDE>WIDE>APRS:
*CALL*      >RELAY>APRS
```

looks like some are being received direct and some are digipeated.

73

Roger n8chb

---

392. Re: [APRSSIG:4650] Re: SKYWARN PART 2

From: ku0g@sprynet.com (Jim Duncan)
Date: Thu, 12 Sep 1996 11:10:39 -0700
To: aprssig@tapr.org
Message-ID: <199609121810.LAA20649@m1.sprynet.com>
Rendered body type: text/plain

Wild Bill Nolle spluttered thus:
>No i don't think i'm missing the point Jim, you stated it yourself above that
>keyboarding and all other activity is to stop!. This is why i suggested
another
>frequency would be better instead of expecting everyone to stop all their
activity
>because those folk need the frequncy. Would it not be better to aquire a
frequency
>of it's own where everyone would now not to go there unless there's a
reason to
>participate. I can understand why they want to, all the hard work of
getting a good
>network setup is already there and done by others.

BUT WHY RE-INVENT THE WHEEL? (Caps used to emphasize my responses, I'm not yelling...) APRS is FIRST AND FOREMOST a public-service communications tool: a practical use for packet radio above and beyond just rag-chew keyboarding. I enjoy a good rag-chew as much as the next guy but I also have enough common sense and operating courtesy that I am going to cease my rag-chew during a time when emergency communications are taking place. From my point of view as network coordinator for this area of Missouri and Kansas I have to respect the rights of those networks neighboring mine. This means that I need to COOPERATE with them and vice versa in coordinating the activity on frequency. APRS is NOT a free-for-all, do-what-you-want-when-you-want operation neither is any other mode of operation. For me to make a blanket statement and say that the APRS network in Kansas City is only for SKYWARN or TRACKING or CHATTING, Etc. would be completely ludicrous.

> And i doesn't have anything to
>do with getting along with each other. I'm just bringing up some points
that would

>i'm sure bother more then a few APRS users. And Jim i have FCC part 97 in
the shack
>here like i'm suppose to have thank you Hi.

IT REALLY DOES, BILL. Just like on the SIG here. The freedom to disagree
in opinions with others is guaranteed in our form of government but so is
the right of the majority to rule. The bottom line STILL is cooperation.
You may disagree with me and you have that God-given right but the right to
dissent does not also carry with it the right to be outright obstinate.
(Note: This statement is not a direct slam on any particular person/entity
nor on any group of persons/entities. You simply refers to the public in
general!)

>I had no intention for this to be a
>flame, but i'm sure many will take it as such. Like i stated before i had
to fight
>hard to get this frequency coordinated (By the way i maybe very well the
only one
>in Alabama that does have a coordinated Digi frequency) to be very
concerned about
>how it's going to be used and why. I look at it no different then would any
other
>coordinated packet Digi. But then again if the majority of the users in
this area
>would agree with using it for Skywarn or whatever would be fine with me,
but that
>doesn't mean that would be the best thing to do.I'm still convinced that a
Skywarn
>APRS frequency would serve the community much better then trying to use an
existing
>network with already many users on it.

Now, that's a carefully worded opinion and I respect that. Of course, we
all have the right to turn our equipment off if we do not wish to support a
particular type of operation (that is akin to the "taking my toys and going
home" attitude of a 1st graders, though).

Frank Steinbeck, Computer Tech/Coordinator
West Nodaway R-1 School
P. O. Box 260
Burlington Jct., MO 64428
816) 725-4613

---

393. Re: [APRSSIG:4665] Verification of "aprssig@hamgate.sunyerie.edu" subscription to TAPR APRSSIG mailing list

From: wa4mej@juno.com (john w dent)
Date: Thu, 12 Sep 1996 15:11:19 PST
To: aprssig@tapr.org
Message-ID: <19960912.151122.4607.2.wa4mej@juno.com>
Rendered body type: text/plain

yes keep me on   tks wa4mej
On Thu, 12 Sep 1996 12:06:36 -0500 (CDT) TAPR Automated List Verification
<autoverify@tapr.org> writes:
>Dear APRSSIG list subscriber:
>
>This is a periodic message to verify your subscription to the APRSSIG
>mailing list and to uncover any bad mail addresses.
>
>If you wish to remain subscribed to this list, simply DELETE this
>message.
>No other action is required.
>-------------------
>
>If you wish to unsubscribe DO NOT REPLY TO THIS MESSAGE. Send a
>message to
>listserv@tapr.org containing only the following line:
>
>unsubscribe APRSSIG
>
>---
>
>The TAPR mailing list software supports 'digest' mode. Digest mode
>generates a periodic message each day containing multiple messages,
>instead of sending you each message individually. If you feel close
>to
>information overload, you may find digest mode to be very useful.
>

>If you would like to change to digest mode, send a message to
>listserv@tapr.org containing only the following line:
>
>set APRSSIG mail digest
>
>---
>
>TAPR membership dues pay for this service, as well as for the TAPR
>FTP,
>WWW, and other services. If you are a TAPR member, we thank you for
>your
>support! If not, please consider joining. Your membership will help
>us
>to maintain and improve our services in the future.
>
>Cheers - TAPR
>
>

---

394. Re: SKYWARN PART 2

From: wa4mej@juno.com (john w dent)
Date: Thu, 12 Sep 1996 15:37:05 PST
To: aprssig@tapr.org
Message-ID: <19960912.153708.4607.4.wa4mej@juno.com>
Rendered body type: text/plain

LOOK ALL IN CAPS....................................
will every one just stop ALL OF THIS BS.......
aprs is just one form of didital communications now every one thinkes he/she knows all there is ..
go home ------------------------------
ham radio is an form of art not a hobbie we ,i hope, will be able to to
provide ,at least., a small part , the backup communicationg to those who need it and not the who can
key bord to keybord.....................
nuf sed
73
john

On Thu, 12 Sep 1996 13:27:08 -0500 (CDT) ku0g@sprynet.com (Jim Duncan)
writes:
>Wild Bill Nolle spluttered thus:
>>No i don't think i'm missing the point Jim, you stated it yourself
>above that
>>keyboarding and all other activity is to stop!. This is why i
>suggested
>another
>>frequency would be better instead of expecting everyone to stop all
>their
>activity
>>because those folk need the frequncy. Would it not be better to
>aquire a
>frequency
>>of it's own where everyone would now not to go there unless there's a
>reason to
>>participate. I can understand why they want to, all the hard work of
>getting a good
>>network setup is already there and done by others.
>
>
>BUT WHY RE-INVENT THE WHEEL? (Caps used to emphasize my responses, I'm
>not
>yelling...) APRS is FIRST AND FOREMOST a public-service
>communications
>tool: a practical use for packet radio above and beyond just rag-chew
>keyboarding. I enjoy a good rag-chew as much as the next guy but I
>also have
>enough common sense and operating courtesy that I am going to cease my
>rag-chew during a time when emergency communications are taking place.
> From
>my point of view as network coordinator for this area of Missouri and
>Kansas
>I have to respect the rights of those networks neighboring mine. This
>means
>that I need to COOPERATE with them and vice versa in coordinating the
>activity on frequency. APRS is NOT a free-for-all,
>do-what-you-want-when-you-want operation neither is any other mode of
>operation. For me to make a blanket statement and say that the APRS
>network
>in Kansas City is only for SKYWARN or TRACKING or CHATTING, Etc. would
>be

>completely ludicrous.
>
>
>> And i doesn't have anything to
>>do with getting along with each other. I'm just bringing up some
>points
>that would
>>i'm sure bother more then a few APRS users. And Jim i have FCC part
>97 in
>the shack
>>here like i'm suppose to have thank you Hi.
>
>IT REALLY DOES, BILL. Just like on the SIG here. The freedom to
>disagree
>in opinions with others is guaranteed in our form of government but so
>is
>the right of the majority to rule. The bottom line STILL is
>cooperation.
>You may disagree with me and you have that God-given right but the
>right to
>dissent does not also carry with it the right to be outright
>obstinate.
>(Note: This statement is not a direct slam on any particular
>person/entity
>nor on any group of persons/entities. You simply refers to the public
>in
>general!)
>
>>I had no intention for this to be a
>>flame, but i'm sure many will take it as such. Like i stated before i
>had
>to fight
>>hard to get this frequency coordinated (By the way i maybe very well
>the
>only one
>>in Alabama that does have a coordinated Digi frequency) to be very
>concerned about
>>how it's going to be used and why. I look at it no different then
>would any
>other
>>coordinated packet Digi. But then again if the majority of the users
>in
>this area
>>would agree with using it for Skywarn or whatever would be fine with
>me,
>but that
>>doesn't mean that would be the best thing to do.I'm still convinced
>that a
>Skywarn
>>APRS frequency would serve the community much better then trying to
>use an
>existing
>>network with already many users on it.
>
>Now, that's a carefully worded opinion and I respect that. Of course,
>we
>all have the right to turn our equipment off if we do not wish to
>support a
>particular type of operation (that is akin to the "taking my toys and
>going
>home" attitude of a 1st graders, though).
>
>
>Frank Steinbeck, Computer Tech/Coordinator
>West Nodaway R-1 School
>P. O. Box 260
>Burlington Jct., MO 64428
>816) 725-4613
>
>

---

395. Re: [APRSSIG:4667] Re: SKYWARN PART 2

From: byoung@qni.com
Date: Thu, 12 Sep 1996 15:08:54 -0500
To: aprssig@tapr.org
Message-ID: <9609122008.AA08574@qni.com>
Rendered body type: text/plain

Ladies and Gentlemen of the APRS Community,

Another point regarding utilization of a frequency *besides* 145.790
is that some of the equipment dedicated to APRS is single channel
and/or xtal controlled stuff that *won't* goto any other frequency! I
just got several "nice" 20 watt radios (I love the sound of relays
going "click-clunk"...) running for use as trackers, digis, etc... I
can't switch some of my equipment, and don't have enough of the
"expensive" stuff (read that "synthesized") to accomplish everything
I'd need/want to in an emergency. I actually *NEED* to stay on
145.790!

Bill Young
byoung@qni.com
Treasurer/Board Member of Kansas City APRS Working Group
National APRSoholics Anonymous Poster Child
KB0UZQ

---

396. Re: [APRSSIG:4614] Re: APRS Quake monitoring system

From: Norman Davis WB6SHI <normd@cwnet.com>
Date: Thu, 12 Sep 1996 14:26:53 +0000
To: aprssig@tapr.org
Message-ID: <199609121504.PAA20536@sbi1.cwnet.com>
Rendered body type: text/plain

>> The other idea that occurred to me is to hook up some sort of actual
>> very simple "shake detector".
>
 There was quite an exchange about that subject on ca.earthquakes back after
the LA quake.
 The warning they got with P wave detectors (purchased at Home depot) was
about 10 seconds.
 There is a guy in Fresno that has a system hooked to the Hopital paging
system that uses two sensors and will page you and tell you where the quake
is and its magnatude. It would be neat to get that into APRS.

>
>
Norman Davis WB6SHI
Email normd@cwnet.com
Shingle Springs, Ca, USA

---

397. aprs vs ragchewing

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Thu, 12 Sep 1996 14:55:06 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.960912145100.7324A@willow>
Rendered body type: text/plain

I must of missed something along the way. What does ragchewing
(keyboarding) have to do with APRS? Why are hams ragchewing via APRS?
What part of "Position Reporting System" is relevant to keyboarding? Of
all the packet frequencies, nodes, digis, etc all over the country, why
are we ragchewing on 145.79???? So many questions, I know I'll get so
many answers....

Chris, AA7WD
zoom@willow.sps.mot.com

---

398. Re: [APRSSIG:4672] aprs vs ragchewing

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 12 Sep 1996 19:37:50 -0400
To: aprssig@tapr.org
Message-ID: <32389ECE.4177@cyberenet.net>
Rendered body type: text/plain

Actually, APRS does not have anything to do with ragchewing, except that
is has the capability to send msgs between stations. The thing that it
(the APRS network) has going for it (actually against it in this case)
is that the frequency has a fairly low channel load when compared to the
better known and utilized packet freqs, which makes it attractive to
keyboarding that would not be otherwise possible on other freqs. Yes,
you could hold a QSO elsewhere (and SHOULD), but on a normally assigned
packet keyboarding freq you most likely would not have the capability to
QSOing over a 200+ mile distance in near real time. Your msgs (even if
one-liners) would be passed through so many nodes, digis, and backbones
and response times(ACKs) would be very slow when compared to the APRS
network.

73...Bob
www.cyberenet.net/~n2iph/bob.htm

NNNN

---

399. Re: [APRSSIG:4669] Re: SKYWARN PART 2

From: Paul Christenson <paulc@easy1.mediacity.com>
Date: Thu, 12 Sep 1996 16:57:27 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.94.960912165528.9458A-100000@easy1.mediacity.com>
Rendered body type: text/plain

On Thu, 12 Sep 1996, john w dent wrote:

> ham radio is an form of art not a hobbie

Last I looked, it WAS a hobby...

(Wonder if the National Endowment for the Arts [NEA] will buy us all new radios???)

<G>

---

400. APRS & 145.090 digi is back!

From: Joe Agrelo <jagrelo@concentric.net>
Date: Thu, 12 Sep 1996 21:10:39 -0700
To: aprssig@tapr.org
Message-ID: <3238DEBF.17F4@concentric.net>
Rendered body type: text/plain

Hi Bill,

It's been a while, how are you?

We moved our business to the house finaly, life is easier besides I get to see my 6 month old daughter more now.

The first SARA meeting was on APRS and given by Geroge N2AIG, I had WinAPRS running on one end of the room and George had DosAPRS running on the other, I also had a stand alone tracker in my truck, it was lots of fun.

I am getting lots of people interested in APRS locally, so it would be great to see your HF gate once in a while.

```
73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

401. Re: [APRSSIG:4672] aprs vs ragchewing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 12 Sep 1996 22:28:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960912221845.7041C-100000@arctic>
Rendered body type: text/plain

On Thu, 12 Sep 1996, someone wrote:

> I must of missed something along the way. What does ragchewing
> (keyboarding) have to do with APRS?

APRSdos REPLY/COMMENT: SImple. Practice, Practice, Practice.. hi hi. Keyboarding with APRS takes talent and will only work well in times of emergency if all users are familiar with subtleties of communicating with UI frames. Such as:

1) Knowing how to set up custom paths for each message

```
2) Knowing how to select dual paths for your data
3) Knowing to change your UNPROTO path when  you see an incomming
   message that is not using your default path
4) Learning how to be brief
5) Learning what paths work and which ones dont.
6) Learning how to bundle multiple messages along the same path so that
   you are not delayed waiting for APRS to change paths
7) Learning to ERASE un-acked outgoing messages when you see a human
   response form the other station so that your station will send the next
   line and not keep waiting for an ack.

Positions are worth 1000 words, but they are also like watching the news
with the volume turned off!  APRS was designed around FOUR mechanisms:

POSITIONS
STATUS BEACONS
MESSAGES point-to-point
BULLETINS

All must be exercised...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

402. Re: [APRSSIG:4675] Re: SKYWARN PART 2

From: Roger Breckon <n8chb@tir.com>
Date: Fri, 13 Sep 1996 02:23:16 +0100
To: aprssig@tapr.org
Message-ID: <3238B784.202C@tir.com>
Rendered body type: text/plain

```
Paul Christenson wrote:
>
> On Thu, 12 Sep 1996, john w dent wrote:
>
> > ham radio is an form of art not a hobbie
>
> Last I looked, it WAS a hobby...
>
> (Wonder if the National Endowment for the Arts [NEA] will buy us all new
> radios???)
>
> <G>
==================================================
I love it Paul,

Boy! some really get bent out of shape with this stuff
APRS junk as a ham friend of mine calls it   hi hi

keep writing om

73

Roger n8chb
```

---

403. Re: [APRSSIG:4676] APRS & 145.090 digi is back! oops!

From: Joe Agrelo <jagrelo@concentric.net>
Date: Thu, 12 Sep 1996 22:31:10 -0700
To: aprssig@tapr.org
Message-ID: <3238F19E.7F1F@concentric.net>
Rendered body type: text/plain

```
Joe Agrelo wrote:
>
> Hi Bill,
>
> It's been a while, how are you?

Oops!

This wasn't suppose to go to the SIG. Sorry!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
```

```
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

404. Re: [APRSSIG:4672] aprs vs ragchewing

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 12 Sep 1996 21:40:27 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609130240.VAA05300@tapr.org>
Rendered body type: text/plain

```
>I must of missed something along the way.  What does ragchewing
>(keyboarding) have to do with APRS? Why are hams ragchewing via APRS?
>What part of "Position Reporting System" is relevant to keyboarding?
  All of it really I think. I can't "TALK" to most of the guys in Chicago I
can see from Rockford. Il. Yet APRS lets me chat or get "pertainent" info
back and forth. It's also on of the few ways I can make a contact over 100
miles from my QTH.
  I guess if it's not too important to you, it's not an issue and disreguard
any instructions telling you how to send/receive messages. I find it a great
feature.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

405. Re: [APRSSIG:4670] Re: SKYWARN PART 2

From: "Gerald H. Nies" <gnies@rwic.und.edu>
Date: Thu, 12 Sep 1996 21:26:13 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.94.960912210951.16317A-100000@oz.rwic.und.edu>
Rendered body type: text/plain

```
On Thu, 12 Sep 1996 byoung@qni.com wrote:

>
> Bill Young
> byoung@qni.com
> Treasurer/Board Member of Kansas City APRS Working Group

*********************************************
> National APRSoholics Anonymous Poster Child
********************************************

> KB0UZQ
>
Love it, do I see a T-shirt for the national gathering?

Does weather service pay attention to APRS? Yes, or at least they do here.
We have a remote station (more on the way funded by our emergency
manager) 30 miles west of NWS in Grand Fork, ND. During the last weather
event the communicator kept asking the remote station had indicated the
wind change yet. We could easily report when it had because the monitor
for APRS is along side of our remote PUP display.

Gerry
N0NGW

ps keep up the good work Bob and Sproul Bros
```

---

406. Re: [APRSSIG:4666] RELAY on hf

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Thu, 12 Sep 1996 22:55:42 EDT
To: aprssig@tapr.org
Message-ID: <19960912.191326.4503.0.KC7LSP@juno.com>
Rendered body type: text/plain

```
On Thu, 12 Sep 1996 13:25:12 -0500 (CDT) n8chb@juno.com (Roger Breckon)
writes:

>Could someone tell me the scoop on why I am seeing so many stations with
```

RELAY
>in the path on hf 10.151 ?

I imagine it's to facilitate a WIDE area map of stations.

>I'm not trying to be a policeman or anything, I just wonder how they are
getting on to 30 mtrs.

The APRS transmissions are probably originating on HF or maybe someone is
set up to cross-band repeat.   Coulkd it be a frequency that is being
specifically used just for APRS?

>Does someone have their Alias set to RELAY?

That would explain why they are being retransmitted.

---

407. Re: [APRSSIG:4672] aprs vs ragchewing

From: mbary@nmaa.org (Mark L. Bary)
Date: Thu, 12 Sep 1996 23:24:30 -0700
To: aprssig@tapr.org
Message-ID: <3238FE1E.791D@nmaa.org>
Rendered body type: text/plain

Chris Terwilliger wrote:
>
> I must of missed something along the way. What does ragchewing
> (keyboarding) have to do with APRS? Why are hams ragchewing via APRS?
> What part of "Position Reporting System" is relevant to keyboarding? Of
> all the packet frequencies, nodes, digis, etc all over the country, why
> are we ragchewing on 145.79???? So many questions, I know I'll get so
> many answers....
>
> Chris, AA7WD
> zoom@willow.sps.mot.com

Chris,

Speaking for myself only, I will sometimes send a few one-liners to a
friend when I see that station on my map and I haven't run into that
individual in a while. If it looks like it is developing into more than,
say, 4 or 5 exchanges I will suggest we go to a voice repeater.

On VERY RARE occasions I will connect BRIEFLY to another station to get
a point across or to pass a brief message (like during a public service
event such as the Marine Corps Marathon, where I have been assigned to
provide a graphic display of the course (APRS) to the folks at the
Medical Tent AND pass occasional medical traffic to a station at a local
hospital or Red Cross location).

Once in a while I will catch Bob on the air (no doubt testing his many
releases, hi! 8-) and throw a greeting to him or pop a short question
that can be answered succinctly. (Like, "Is WB4APR-1 off the air, or is
it just me?")

And, once in a while, I will send a greeting to a station that is newly
arrived on my map; just to give them a "warm/fuzzy" and let them know
they're showing up.

But ragchew? Naaahhh! That would just bombard the frequency with
unnecessary UI frames, cause collisions, and bring all sorts of other
plagues down upon mankind..... 8-)

73,

Mark
N4EOC
Germantown, MD

---

408. Need map in the Boondox

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Thu, 12 Sep 1996 23:21:11 EDT
To: aprssig@tapr.org
Message-ID: <19960912.193426.4503.1.KC7LSP@juno.com>
Rendered body type: text/plain

All - I would like a map of western Washington, other than the BLANK one
that comes with the
APRS software. I'd appreciate someone sending some info via E-Mail in
UUENCODE or

via AX.25 in 7PLUS format.

The problem is that I'm in an APRS-FREE zone and have received nothing at all.
For your information my coordinates are: 4631.17N / 12255.10W / 380ft

Also, I have information on two amateur radio repeater sites in SW Washington:

1) Columbia Heights (Longview, WA)   4611.50N   /12258.01W
2) Ranier Hill (Rainier, OR)   4603.18N   / 12255.06W

TNX & 73, Kevan

AX.25: KC7LSP@WA7SJN.#WWA.WA.USA.NOAM

409. Re: Lat/Lon. calculations

From: Scott Walsh <n5nys@ix.netcom.com>
Date: Thu, 12 Sep 1996 23:00:33 -0500
To: aprssig@tapr.org
Message-ID: <3238DC61.3A3F@ix.netcom.com>
Rendered body type: text/plain

For simplifcation, I'll use @ to represent degrees theta.

Now...what we want to find is the coordinates of the fox. (Xt, Yt)

Xt=(((X2tan@2)-(X1tan@1))+(Y1-Y2))/(@2-@1)

And now the equation for a line... y=mx+b

Yt=(Xt-X1)tan@1 + Y1

Angles must be in polar form!

410. Re: [APRSSIG:4672] aprs vs ragchewing

From: George Salinas <saltair@hargray.com>
Date: Fri, 13 Sep 1996 01:20:26 -0400
To: aprssig@tapr.org
Message-ID: <3238EF1A.363E@hargray.com>
Rendered body type: text/plain

Chris Terwilliger wrote:
>
> I must of missed something along the way. What does ragchewing
> (keyboarding) have to do with APRS? Why are hams ragchewing via APRS?
> What part of "Position Reporting System" is relevant to keyboarding? Of
> all the packet frequencies, nodes, digis, etc all over the country, why
> are we ragchewing on 145.79???? So many questions, I know I'll get so
> many answers....
>
> Chris, AA7WD
> zoom@willow.sps.mot.com

==

Hi Chris,

I am using the keyboard function on APRS on 145.790 Mhz because the software has that feature and my license allows me to do it.

If all I had to do on aprs was just look at plot positions and not have any human interaction I would take it off of my computer and just look at the weather channel. At least there, somebody is talking to/at you.

I think a more appropriate question should be: "Who in his right mind would dedicate a computer, a tnc and a vhf and hf transceiver to an APRS plot position reporting system only?" I think that would get old real quick.

7e, George KD4FJ.

411. Re: [APRSSIG:4675] Re: SKYWARN PART 2

From: N5RKN@aol.com
Date: Fri, 13 Sep 1996 01:25:21 -0400
To: aprssig@tapr.org
Message-ID: <960913012520_521706588@emout04.mail.aol.com>
Rendered body type: text/plain

```
What a concept!  I vote for new radios from NEA...
   Robert   N5RKN
```

---

412. Re: [APRSSIG:4672] aprs vs ragchewing

From: ad4bl@juno.com (Linda G Mullen)
Date: Thu, 12 Sep 1996 21:26:06 CDT
To: aprssig@tapr.org
Message-ID: <19960912.202730.3422.13.ad4bl@juno.com>
Rendered body type: text/plain

```
Chris,  you may have opened the barn door on this one...hi hi
we use APRS here is this area to send all manner of info as we "ragchew"
with
each other.  We send messages on aprs while we are on voice nets...we are
using
parallel nets here in NFL....voice net with an APRS parallel net...often
we are
conversing on APRS concerning what is being done on the voice net either
on
HF or VHF.  WE use the APRS net to check in on VHF and HF voice nets.
We are working here on ways to incorporate the APRS into our emergency
communications system and like working on a traffic net, if you don't
practice
and learn how to do it...you won't be able to do it during an
emergency...
APRS has possibilities we haven't even scratched to surface of...it is
exciting.
Try it ..you might discover it is a lot of fun!


Linda Mullen  AD4BL  DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
Everything worth doing is scary


On Thu, 12 Sep 1996 17:06:20 -0500 (CDT) Chris Terwilliger
<zoom@willow.sps.mot.com> writes:
>I must of missed something along the way.  What does ragchewing
>(keyboarding) have to do with APRS? Why are hams ragchewing via APRS?
>
>What part of "Position Reporting System" is relevant to keyboarding?
>Of
>all the packet frequencies, nodes, digis, etc all over the country,
>why
>are we ragchewing on 145.79????  So many questions, I know I'll get so
>
>many answers....
>
>Chris, AA7WD
>zoom@willow.sps.mot.com
>
>
```

---

413. RE: [APRSSIG:4624] Advanced Surveillance Technologies Conference II

From: "Elpidio B. Cardenas" <elpidio@aloha.net>
Date: Thu, 12 Sep 1996 20:40:05 -1000
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBA0EA.950D7860@kauai-tcr-161.u.aloha.net>
Rendered body type: text/plain

```
Aloha Claude,
Sounds interesting. Please send me a copy.
Thanks!!

----------
From:   Claude 995-5040 pager 4541[SMTP:CHEAD@exame2.dseg.ti.com]
Sent:   Wednesday, 11 September, 1996 00:01
To:     aprssig@tapr.org
Subject:        [APRSSIG:4624] Advanced Surveillance Technologies Conference II

The following is a excerpt from a message forwarded from Jim Warren's
GovAccess SIG. The conference mentioned deals with the broad subject of
```

```
individual privacy vs government surveillance by a distressingly large group
of techniques. I have put the program header and one topic from the program
dealing with vehicle location. Shades of APRS! I have the complete text of
the conference program message and will be happy to forward it privately to
anyone who asks. The whole thing is a little long for the APRSSIG and most
of it is not directly related.

   73 Claude Head
      K5DTN
      chead@exame2.dseg.ti.com
-------------------------------------------------------------------------------
>
>                                  PROGRAM
>
>                ADVANCED SURVEILLANCE TECHNOLOGIES CONFERENCE II
>
>                                Sponsored by
>
>                            Privacy International
>                      Electronic Privacy Information Center
>
>                             September 16, 1996
>
>                    Citadel Ottawa Hotel and Convention Centre
>                                Ottawa, Canada
>
>
snip
>
>1:30 pm CONSUMERS AND SURVEILLANCE
>
> INTELLIGENT VEHICLES AND TRACKING
>
>Phil Agre will outline the remarkable variety of technologies of
>surveillance currently being planned or implemented for road travel. The
>motivations for these systems are numerous and include logistics, traffic
>management, law enforcement, pollution control, and marketing. Despite the
>diversity of motivations, certain unifying themes emerge. The vast majority
>of the functionalities provided by these systems can be provided
>anonymously.
>
>        o Phil Agre, University of California, San Diego
>
```

414. Re: [APRSSIG:4686] Re: aprs vs ragchewing

From: William Nolle <wa8inz@cris.com>
Date: Fri, 13 Sep 1996 06:58:49 -0700
To: aprssig@tapr.org
Message-ID: <32396899.50ED@cris.com>
Rendered body type: text/plain

```
George Salinas wrote:
>
> Chris Terwilliger wrote:
> >
> > I must of missed something along the way.  What does ragchewing
> > (keyboarding) have to do with APRS? Why are hams ragchewing via APRS?
> > What part of "Position Reporting System" is relevant to keyboarding?  Of
> > all the packet frequencies, nodes, digis, etc all over the country, why
> > are we ragchewing on 145.79????  So many questions, I know I'll get so
> > many answers....
> >
> > Chris, AA7WD
> > zoom@willow.sps.mot.com
>
> ======================================================================
>
> Hi Chris,
>
> I am using the keyboard function on APRS on 145.790 Mhz because
> the software has that feature and my license allows me to do it.
>
> If all I had to do on aprs was just look at plot positions and not
> have any human interaction I would take it off of my computer and
> just look at the weather channel.  At least there, somebody is talking
> to/at you.
>
> I think a more appropriate question should be: "Who in his right mind
> would dedicate a computer, a tnc and a vhf and hf transceiver to an
> APRS plot position reporting system only?" I think that would get  old
> real quick.
>
> 7e, George KD4FJ.

Thanks George couldn't have said it any better.

--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

415. Re: [APRSSIG:4671] Re: APRS Quake monitoring system

From: PETER OUELLETTE <pho@crocker.com>
Date: Fri, 13 Sep 1996 07:20:41 -0500
To: aprssig@tapr.org
Message-ID: <199609131221.IAA06185@rmc1.crocker.com>
Rendered body type: text/plain

```
04:46 PM 9/12/96 -0500, you wrote:
>
>>> The other idea that occurred to me is to hook up some sort of actual
>>> very simple "shake detector".
>>
> There was quite an exchange about that subject on ca.earthquakes back after
>the LA quake.
> The warning they got with P wave detectors ( purchased at Home depot ) was
>about 10 seconds.
> There is a guy in Fresno that has a system hooked to the Hopital paging
>system that uses two sensors and will page you and tell you where the quake
>is and its magnatude. It would be neat to get that into APRS.
>
>>
>>
>Norman Davis WB6SHI
>Email normd@cwnet.com
>Shingle Springs, Ca, USA
>
For those of us on the East Coast, please enlighten us. What's a "P wave"
detector?
Pete Ouellette  N1AGV
```

---

416. Digs,Jabs, and other personal junk

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Fri, 13 Sep 1996 08:21:17 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org>
Cc: aprs-fl@tapr.org
Message-ID: <32397BED.934@worldnet.att.net>
Rendered body type: text/plain

```
It  has taken a while but I think I have finally figured out why there is
so much junk of a personal nature appearing on the SIG.
At first, I thought it was because people were lazy and the easiest way
to respond to a person was to hit the respond button, but I now think
I've stumbled upon the real reason.

It's something like, what Bob B. once referred to as "VANITY Bulletins"
that appear on ASPRS.

These people just want everyone to see their names and how witty they
are. (They my be half right)

If you wish to flame me, for this, you will have to do it directly, as I
will be signing off the sig for a short perion and I don't think the
mailbox will hold all the junk that comes accross daily.

Bud (WB4LTF)
```

---

417. Re: [APRSSIG:4684] Need map in the Boondox

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Sep 1996 10:15:40 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960913101051.14978B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 12 Sep 1996, Kevan J Coleman wrote:

> All -  I would like a map of western Washington, other than the BLANK one
> that comes with the APRS software.

APRSdos REPLY/COMMENT:  Every copy of APRS contains enough maps to at
least show the major highways and interstates.  If you use the MAPS-CHANGE
to enter the WES maplist, then you should get even more detail if you got
the WMAPSxx.zip file.  Now there is a PNWMAP09 file too with even more
maps...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

418. Hobbie, art or ?

From: "Paul Beckmann" <paul@eye.psych.umn.edu>
Date: Wed, 14 Aug 96 09:11:00 CDT
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <9608141411.AA05016@eye.psych.umn.edu>
Rendered body type: text/plain

```
I read through the APRS digest today (I'm an interested bystander at this
point, with a TAPR GPS-20 on order) and wanted to bring one point to light.
It is *very* dangerous to call ham radio a hobby! It is a federally-regulated
service in which we participate. Does that sound too legal-schmegal?? I'll
tell you from what I'm going through right now with my city for a 33 foot
tower with a Mode-B&S trio of antennas on the top that it is not.

  The first thing that the City Council/Planning Commission/anti-ham person
will try to get you to admit is that ham radio is a hobby. Then, they'll
say: "Well Bill and Jane down here on the end of the block say that looking
at the clouds above your house is THEIR hobby and they can't engage in it
if you put this eyesore up for YOUR hobby."

  The FCC protection (preemption) of state and local regulation in the
cases of antenna height (PRB-1) and RF Health and safety are founded on
two basic foundation blocks: 1) we are tested, authorized to operate,
and held accountable by the FCC. That means, when push comes to shove,
the FCC expect YOU to know what the hell you're doing! 2) we are a national
asset. This includes the currently in-operation communications networks
we have set up, the stations we have assembled that we can bring on-line
in time of need, the contributions we make to refining the communications
"art" or "science", and *us*, as people who know how to operate
communications gear, set up stations and communicate in a wide variety of
ways.

  I'll tell you this: I've engaged in the hobby of fly-fishing for stream
trout for the last 12 years. I'm not waiting for the Feds to preempt
a landowner's right to keep me off his land if I want to fish it!

  Be proud and know what an assets we and what we engage in really are to
the USA and the World as a whole.

  Best 73's
  --Paul Beckmann
    wa0rse@amsat.org
```

---

419. Re: [APRSSIG:4687] Re: SKYWARN PART 2

From: "John W.(Bill) Hays" <billh@netins.net>
Date: Fri, 13 Sep 1996 14:42:12 +0000
To: aprssig@tapr.org
Message-ID: <323972C4.34F3@netins.net>
Rendered body type: text/plain

```
N5RKN@aol.com wrote:
>
> What a concept!  I vote for new radios from NEA...
>    Robert   N5RKN
But are we politically correct enough?
```

---

420. Re: [APRSSIG:4691] Re: APRS Quake monitoring system

From: mcinnis@austin.ibm.com (McInnis)
Date: Fri, 13 Sep 1996 10:36:33 -0500 (CDT)
To: aprssig@tapr.org

Message-ID: <9609131536.AA28480@babe01.austin.ibm.com>
Rendered body type: text/plain

```
>...
> For those of us on the East Coast, please enlighten us. What's a "P wave"
> detector?
> Pete Ouellette  N1AGV
>
>

Well, I'm on the middle coast, but I think I can explain it.  Pardon me
if I get the minor details wrong.

Earthquakes put out "P" (Pressure?) waves and "S" (Surface?) waves.
P waves travel faster, but S waves do the most damage.  If you're far
enough from the center, the P waves arrive enough sooner than the more
damaging S waves to give you a few seconds warning before the
dangerous stuff starts.  You MAY have time enough to duck into
a doorway, brace yourself, etc.

I think the P waves are compressional (the earth moves along the
direction of propogation) and S waves are longitudinal ( the earth
moves perpendicular to the direction of propogation, like ripples
on a pond.)

--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.
```

---

421. Re: [APRSSIG:4694] Hobbie, art or ?

From: Bruce Micales <bmicales@facstaff.wisc.edu>
Date: Fri, 13 Sep 1996 10:54:34 -0600
To: aprssig@tapr.org
Message-ID: <v03007800ae5f3f30ab32@[144.92.79.161]>
Rendered body type: text/plain

```
I agree with Paul in that amateur radfio is not a hobby (solely) but also a
service.  We operate our equipment so that we can 1) practice and refine
our operating skills and 2) test our equipment so that it is in good
working order when the need arises.

It is this that often makes amateur radio "appear" to be a hobby.  Although
we may enjoy this (who said a service could not be enjoyable), it is
important for all to realize that what can be provided by amateur radio is
a highly important and useful tool in times of emergency.

If I am asked, is amateur radio a hobby or service, the answer must be
both!  It is providing a service and prepares a service for the public good
(one of many things amateur radio does.).

Sorry, for the distraction from APRS....getting off the soapbox and
returning the SIG to APRS use.


Bruce Micales  ----  bmicales@facstaff.wisc.edu
Anatomy Department  ----  University of Wisconsin - Madison
WA2DEU : WA2DEU-1 on 145.03 MHz
PBBS: WA2DEU@WD9ESU.#SCWI.EN53IE.WI.USA.NOAM
```

---

422. Bitterweed & APRS

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 13 Sep 1996 11:09:01 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609131610.LAA22789@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
This has absolutly nothing to do with APRS! There at least I've said APRS
three times! hihi

This is NOT a flame!

This is yet another amusing little story that happened here in the Ozarks
that I thought I'd leave you with before I head off to New York.

It is a known fact that Cows produce calfs. And calfs nurse from the Cows
utters until they are weened by the "mama" Cow. However, there are times
when there is little to eat, like in dry weather, and the calf continues
to suckle until its almost the size of the "ma" Cow.
```

It is also known that in dry weather conditions, like WE are having now, that the weeds grow like crazy. One of the most common is called Bitterweed. Dairy farmers have a problem in the summer dry weather in that the milk produced is actually bitter from the bitterweed being eaten. Ma Cows that have yearling calfs still sucking will eat the bitterweed intentionally to ween the calf!

The above are "well known facts"! Well known here at least. You just learn these things as you grow up. Now, it is also a fact that if you head out across certain areas of Arkansas, especially in these hills, you'll run across a few hillbillies. Yes, just like the ones on HeeHaw where they are laying around in the yard. Well, one of the ways the hillbilly supports himself is to have lots of children to do the "family chores". But, this causes a problem at the dinner table of not enough food to go around and "things" just happen. Things like the ma cow and calf.

(Here is a true story) One day me and a friend out travelling around the area and ran across and old road we'd never been down. So, we decided to drive on down it and see where it when. It was like HeeHaw never left! There is was, Ma, Pa, Sister, Brother, Sister, Brother, Uncle and Aunt in the front yard! We'd done it! Gone back to the dark ages (about 10 years ago around here)! Naturally we were invited in "fer dinner" (dinner here is lunch, and then there's supper). We went in a had biskets, gravy and squirel. Sat around, talked about the weather, fishing and squirel hunting. As we were talking, a young boy about the age of 10 peeked out from around a door and said, "Ma? Com eere!". I didn't think anything of it, but "Uncle" stepped in and said, "It's his Dinner time, he's still a nurse'n but she's try'n to ween em by rubbin green persimmons on herself". I could hardly keep a straight face! My bud and I looked at each other and decided it was time to go! But, before we could get out of the door, the little boy came running out of the back room yelling, "PA, PA, Ma's been eat'n Bitterweed again!"

73 all
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *

---

423. Re: [APRSSIG:4653] Re: APRS Airshow

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 13 Sep 1996 09:46:58 -0700
To: aprssig@tapr.org
Message-ID: <199609131646.JAA27357@m1.sprynet.com>
Rendered body type: text/plain

>That is correct a Garmin 45 will not display direction and speed above 99
>knots. Here they are there by you, see if you can convince them in the
>errors of their logic <grin>.
>
I tried, they aren't interested in listening at this point. Perhaps letters
from every ham that has a Garmin 45!!!

73 de Jim, KU0G
>

---

424. Re: [APRSSIG:4682] Re: RELAY on hf

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Fri, 13 Sep 1996 13:24:33 -0500
To: aprssig@tapr.org
Message-ID: <3.0b15.32.19960913132431.00705a2c@144.188.134.33>
Rendered body type: text/plain

The default alias for a digipeat on hf is "RELAY". I would say that putting RELAY in an hf path without a VERY good reason is a good way to clog the hf channel even more than it is.
Please try to refrain unless you have a good reason of which frankly I am hard pressed to think of one right now..

At 10:21 PM 9/12/96 -0500, you wrote:
>On Thu, 12 Sep 1996 13:25:12 -0500 (CDT) n8chb@juno.com (Roger Breckon)
>writes:
>
>>Could someone tell me the scoop on why I am seeing so many stations with
>RELAY
>>in the path on hf 10.151 ?
>

```
>I imagine it's to facilitate a WIDE area map of stations.
>
>>I'm not trying to be a policeman or anything, I just wonder how they are
>getting on to 30 mtrs.
>
>The APRS transmissions are probably originating on HF or maybe someone is
>set up to cross-band repeat.   Coulkd it be a frequency that is being
>specifically used just for APRS?
>
>>Does someone have their Alias set to RELAY?
>
>That would explain why they are being retransmitted.
>
>
>
Paul, WD9ABE
```

425. APRS77F.ZIP IS OUT!!!

From: Leroy.Lawhorn@275-17.usbbs.com (Leroy Lawhorn)
Date: 11 Sep 96 22:09:15 -0500
To: aprssig@tapr.org
Message-ID: <0bd_9609131520@usbbs.com>
Rendered body type: text/plain

```
W4VIW's BBS has the latest version of APRS, which is APRS77B.ZIP


                  W4VIW's BBS @ 864-299-6185

                       LeRoy Lawhorn SysSop & UFOlogist

--- WILDMAIL!/WC v4.12
 # Origin: W4VIW's BBS 864-299-6185 Greenville, SC USA  (73:1320/1.0)
--
|Internet: Leroy.Lawhorn@275-17.usbbs.com
|
| Standard disclaimer: The views of this user are strictly their own.
| WoodyWare Software, Inc. - Internet E-Mail Services
|                            Info: info@usbbs.com
```

426. Re: [APRSSIG:4670] Re: SKYWARN PART 2

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 13 Sep 1996 13:11:08 -0700
To: aprssig@tapr.org
Message-ID: <199609132011.NAA18261@m1.sprynet.com>
Rendered body type: text/plain

```
<lawnmower gone berserk....>

> I actually *NEED* to stay on
>145.790!
>
>Bill Young
>byoung@qni.com
>Treasurer/Board Member of Kansas City APRS Working Group
>National APRSoholics Anonymous Poster Child
>KB0UZQ

You'll understand this "poster child" business when we put his ugly (and I
DO mean UGLY!) mug on the KC APRS Home Page.  We'll probably lose our "Safe
Surf" rating, but what the hay!

(with tongue in cheek)
de Jim, KU0G

>
```

427. Re: [APRSSIG:4675] Re: SKYWARN PART 2

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 13 Sep 1996 13:12:45 -0700
To: aprssig@tapr.org
Message-ID: <199609132012.NAA18560@m1.sprynet.com>
Rendered body type: text/plain

```
>On Thu, 12 Sep 1996, john w dent wrote:
>
>> ham radio is an form of art not a hobbie
>
```

```
>Last I looked, it WAS a hobby...
>
>(Wonder if the National Endowment for the Arts [NEA] will buy us all new
>radios???)
>
><G>

ONLY if we start hamming in the nude!  <Big S.E. Grin>

73 de JIm, KU0G


>
```

---

428. Re: [APRSSIG:4681] Re: SKYWARN PART 2

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 13 Sep 1996 13:16:05 -0700
To: aprssig@tapr.org
Message-ID: <199609132016.NAA19171@m1.sprynet.com>
Rendered body type: text/plain

```
>On Thu, 12 Sep 1996 byoung@qni.com wrote:
>
>>
>> Bill Young
>> byoung@qni.com
>> Treasurer/Board Member of Kansas City APRS Working Group
>
>**********************************************
>> National APRSoholics Anonymous Poster Child
>*********************************************
>
>> KB0UZQ
>>
>Love it, do I see a T-shirt for the national gathering?
>
>Does weather service pay attention to APRS? Yes, or at least they do here.
>We have a remote station (more on the way funded by our emergency
>manager) 30 miles west of NWS in Grand Fork, ND. During the last weather
>event the communicator kept asking the remote station had indicated the
>wind change yet. We could easily report when it had because the monitor
>for APRS is along side of our remote PUP display.
>
>Gerry
>N0NGW
>
>ps keep up the good work Bob and Sproul Bros
>
>
Would sure be nice to see ND on HF or even VHF sometime!  Are you guys on
145.79????

73 de Jim, KU0G
Coordinator/KC APRS Working Group
```

---

429. APRS & VOICE ON THE SAME FREQ?

From: Anthony_M._Werdein.Wbst139@xerox.com
Date: Fri, 13 Sep 1996 14:01:48 PDT
To: aprssig@tapr.org
Message-ID: <"13-Sep-96 17:01:38".*.Anthony_M._Werdein.wbst139@Xerox.com>
Rendered body type: text/plain

```
To All,
        At our RAPS (Rochester Amateur Packet Society) meeting one of our
members heard that you could run APRS and Voice on the same frequency (news to
me : ).  And he wanted to know if anybody in the area was available talk about
it.  I spoke to him about your SIG and he doesn't have email, just heard about
it, well I told him that I would inquire and get back to him (which I am
doing).
        Can any and all who can please respond if this is so and how or what ,
or basically more information is hoped to be gathered to be passed on to help a
fellow ham.
        Please respond to me directly as I am not on your SIG mailing.
Thank you all for your consideration, and help.
73
Tony
N2TRV
In the land of Imaging  Rochester, NY
```

430. Re: [APRSSIG:4675] Re: SKYWARN PART 2

From: Bill Lefler <wo0e@sky.net>
Date: Fri, 13 Sep 1996 16:16:12 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960913161008.8351D-100000@sky.net>
Rendered body type: text/plain

```
On Thu, 12 Sep 1996, Paul Christenson wrote:
        Darn! I was so hoping I would be able to keep my mouth shut too!!!
>
> Last I looked, it WAS a hobby...
                  ^^^^^^^^^^^^^^^^ Incorrect (as stated)
It is referred to as "The Amateur Radio Service", not "The Amateur Radio
Hobby". First and foremost we must provide a public service. If we do not,
then all we are is (as my wife used to say before being exposed to the
wonderful world of PS events) "a bunch of old, fat men sitting around
talking on the radio.". The Frequencies we are allocated are a limited and
valuable resource. If you don't think we are privillaged to have so many,
try to apply for a new business allocation! (Sounds of "an old fat man"
stepping off his ponderous soapbox.....) >
> (Wonder if the National Endowment for the Arts [NEA] will buy us all new
> radios???)     ^^^^^^^^^^^^^^^^^^^^^ Put me in for a TS-870!!!!!!!!!!
>
> <G>
>
>
BCNU Lef
*******************************************
wo0e@sky.net  - Bill Lefler - Kansas City KS
Amateur Radio -  WO0E  (Dub-Yo-Zeree)
"Life is a Reach! Sheet in and Hike Hard!"
*******************************************
```

---

431. Solution to Intermod Problem

From: Mark Humphrey <mark@y100.com>
Date: Fri, 13 Sep 1996 19:04:53 -0400
To: aprssig@tapr.org
Message-ID: <3239E895.2BD5@y100.com>
Rendered body type: text/plain

I recall there was a thread going a few months ago about intermod problems, but haven't heard much about this lately. I picked up a PAR Electronics model VHFDN152 2 meter "Intermod Filter" last weekend at the FARfest in Gaithersburg, and want to report it fixed my intermod problem, especially on the 145.79 APRS frequency.

My mobile rig is a Kenwood TM-733, which I chose due to dashboard space constraints. Although I'm generally happy with its features, the intermod rejection on 2 meters is poor. The "AIP" feature (which reduces the gain of the first RF stage) doesn't make much improvement.

I use this rig frequently for mobile APRS, however I've had severe paging interference on 145.79 (although many other amateur 2m frequencies were clean). Within a couple miles of most of the local commercial tower sites, the interference was so bad it would hold the DCD for several minutes and prevent my position packets from being sent. Further investigation explained why 145.79 was being hit so hard...

Two of the "RC Paging" frequencies assigned to Radio Common Carriers in the Philadelphia metro (and most other cities) are 152.24 and 158.70. When these frequencies mix in a receiver's front end, one of the third order intermod products is 145.78, just 10 kHz down from the APRS channel.

(2 X 152.24) - 158.7 = 145.78

Note that the deviation on the lower frequency is doubled, since its second harmonic is what actually mixes with the higher frequency to generate the product. Assuming 5 kHz peak deviation from each paging transmitter, the effective deviation of the product is 15 kHz, which easily spills over to 145.79. The "overdeviation" causes the modulation of the product to sound distorted and obnoxious, not to mention that paging signals are square waves to begin with.

According to the curves, the PAR filter provides a deep notch (nearly -55 dB) at 152.4 and appears to exceed 35 dB attenuation from 152.0 to 153.0 MHz. That easily takes out the lower paging frequency and eliminates the intermod. Below the notch at 145.79, the insertion loss is less than 0.3 dB, and even at the "worst-case" amateur frequency, 148.0, a loss of only 0.6 dB is claimed, which is comparable to most bandpass filters. The loss above the notch frequency is greater, about 4 dB at 160 MHz, but that still lets me listen to NOAA WX, the Broadcast RPU channels, etc. Loss across the 440-450 band is about 0.2 dB, and it will handle 50 watts without melting down.

```
So if you're having paging intermod problems on 145.79, you might want to consider one
of these.  I was skeptical until I tried it.  The manufacturer is PAR Electronics, 6869
Bayshore Drive, Lantana FL 33462.

        73, Mark Humphrey N2CHV
            WPLY-FM Philadelphia
```

---

432. WA2JNF-4 (Brooklyn NY) WIDE-RELAY Down

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 13 Sep 1996 19:15:04
To: aprssig@tapr.org
Message-ID: <199609132314.TAA21136@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi all,

     I've been in touch with Stu, and he assures me that his
WIDE-RELAY (WA2JNF-4) will be back up tomorrow (saturday).  I
hope he's right because I need that rig for the ARRL VHF QSO
Party!

     Temporary WIDE-RELAY N2ZRC will remain on the air until
about 1300 EDT Saturday.  Hopefully Stu will be back up by then.
Of course, if he comes back earlier I will terminate my service
as WIDE-RELAY as soon as I see he's back.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.
```

---

433. Re: [APRSSIG:4697] Re: Hobbie, art or ?

From: Paul Christenson <paulc@cyclades.com>
Date: Fri, 13 Sep 1996 16:17:08 -0700
To: aprssig@tapr.org
Message-ID: <3239EB74.5E043331@cyclades.com>
Rendered body type: text/plain

```
Bruce Micales wrote:
>
> I agree with Paul in that amateur radfio is not a hobby (solely) but
> also a service.

This is getting twisted around a little too much..  Remember that the
original poster stated that ham radio was NOT a hobby, but an art.  I
simply said it WAS a hobby.

I did not say that it was ONLY a hobby.  It certainly is a service...
the Amateur Radio Service.

--
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+---------------------------------------------------+
```

---

434. Re: [APRSSIG:4703] Re: SKYWARN PART 2

From: Paul Christenson <paulc@cyclades.com>
Date: Fri, 13 Sep 1996 16:24:54 -0700
To: aprssig@tapr.org
Message-ID: <3239ED46.2C85242@cyclades.com>
Rendered body type: text/plain

```
> >(Wonder if the National Endowment for the Arts [NEA] will buy us all
> > new radios???)

> ONLY if we start hamming in the nude!  <Big S.E. Grin>

That probably wouldn't work, either..  Maybe if you painted religious
symbols on a California Kilowatt and someone took a picture of you
whizzing on it...

I'd buy a print.. ONLY if the amplifier was turned on, though!

<G>
```

```
--
+--------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation  |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258 |
| Maker of High Performance Multiport Serial Cards  |
+--------------------------------------------------+
```

435. Re: [APRSSIG:4594] WA2JNF-4 (Brooklyn NY) down

From: Mark Humphrey <mark@y100.com>
Date: Fri, 13 Sep 1996 19:18:51 -0400
To: aprssig@tapr.org
Message-ID: <3239EBDB.592@y100.com>
Rendered body type: text/plain

```
Arte Booten wrote:

>      This morning I looked at APRS and found Stu's WIDE-RELAY
> (WA2JNF-4) station was apparently down.  I'm trying to get in
> touch with him in case he's unaware of it.  In the meantime, I
> have set my KPC-3 with an MYAlias of WIDE and MYNode of RELAY.
> I expect this to be a temporary situation and my BText reflects
> this.
>
>      Unfortunately, I do not hear as well as Stu (my antenna is
> on the roof at 80' HAAT, his is on a tower 200' HAAT!)  None-
> theless, I'll see what I can do.  As of now, my digipath is:
> W2HPM,WIDE,WIDE which will lead stuff more into the northeast
> than towards the south.  Any suggestions on this would be ap-
> preciated.  73
>

Arte:

Definitely noticed a difference "down south" here, very few packets are making it down
to SE PA from the NYC area or New England.  Hope Stu gets it fixed soon, it's an
important link.

73, Mark N2CHV
```

436. Bug in 77b ?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 13 Sep 1996 20:34:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960913203126.24639C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
Just trying out 77b (from 75) and may have found a bug...

Once I've enabled Just WX, I can't get out of that mode! If I type Just
Calls (If I remember correctly) then I see all the icons on the screen,
but WITHOUT CALLS. This only lasts until the next screen re-draw, when it
goes back to WX only.

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

437. W4VIW LLBBS APRS77B.ZIP AVAIL

From: k4kep@k4kep.#lux.sc.usa.noam
Date: 12 Sep 96 18:24:00 UTC
To: aprs@allus
Message-ID: <17289_K4KEP@kd4idr.bbs>
Rendered body type: text/plain

```
R:960913/2247z @:KD4IDR.#ENG.FL.USA.NOAM Englewood, FL Z:34224 $:17289_K4KEP
R:960913/2134Z @:WB0TAX.#SHRV.LA.USA.NOAM #:44989 $:17289_K4KEP
R:960913/2107Z @:KA6EYH.#NOCAL.CA.USA.NOAM #:169 [Pacifica] $:17289_K4KEP
R:960913/2202Z @:W7TA.#NONEV.NV.USA.NOAM #:60510 [Reno] $:17289_K4KEP
R:960913/1606Z @:WB7TLS.AZ.USA.NOAM #:6550 [Tucson] $:17289_K4KEP
R:960912/1947Z @:N3BAF.#GRD.SC.USA.NOAM #:13738 [Greenwood] $:17289_K4KEP
R:960912/1824Z @:K4KEP.#LUX.SC.USA.NOAM [GRAY COURT] #:17289 Z:29645


From: K4KEP@K4KEP.#LUX.SC.USA.NOAM
To  : APRS@USA

From: W4VIW@KD4BSL.#PKZ.SC.USA.NOAM
To  : APRS@USA
```

```
Check out my llbbs at 864-299-6185 located in Greenville, SC
```

---

438. Re: Just WX bug in 77b

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 13 Sep 1996 22:03:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960913220155.25853A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
With help on my local APRS net I discovered I needed to use a completely
NEW config file.....works fine now...(so far)

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

439. KO4HD visits Atlanta (web address for photos)

From: rwf <rwf@mindspring.com>
Date: Fri, 13 Sep 1996 22:59:28 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960914025928.006e7e94@mindspring.com>
Rendered body type: text/plain

```
Steve, KO4HD stopped by for dinner tonight while on his way to the Digital
Convention in Seattle.  For a couple of pictures of the varmint, cruise by
the Atlanta APRS Home Page at:

http://www.mindspring.com/~rwf/aprs1.html

73

Ralph
```

---

440. Re: oops!

From: w4wwq@juno.com (Peter J Lascell)
Date: Fri, 13 Sep 1996 22:29:35 PST
To: aprssig@tapr.org
Message-ID: <19960913.225849.5407.0.W4WWQ@juno.com>
Rendered body type: text/plain

```
Is there e-mail software out there that won't let you CLEAR, DELETE, KILL
or otherwise STOP a message you have just written before you send it?  I
have been seeing a lot of mis-addressed messages to the SIG that end up
"Oops" toward the end.

Those of us who use JUNO shouldn't be caught in the trap of not being
able to  remove our foot from our mouth before sending a message.   JUNO
 messages are sent from an Outbox and uploaded all at once rather than
real time on line where a message can't be recalled if there is an error
or Oops.

Pete

On Thu, 12 Sep 1996 21:38:36 -0500 (CDT). . . . . . . . . . . .  writes:
> wrote:
>>
>> Hi....l,
>>
>> It's been a while, how are you?
>
>Oops!
>
>This wasn't suppose to go to the SIG. Sorry!
>
>73 De  . . . . . . . . . . . . . . . . . . . . . . .
```

---

441. Clock speed up

From: "Mike Walker" <mwalker@interlog.com>
Date: Fri, 13 Sep 96 08:37:00 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199609141249.IAA01575@gold.interlog.com>
Rendered body type: text/plain

```
Has anyone seen this problem

I first noticed this during the meteor scatter, when I couldn't keep the clock
running on time.  I kept gaining time, and I thought it was the cpu (Dell
316SX), and I never gave it much thought. I gain several 10's of minutes a day
```

when using aprs.

I then loaded the Pete Bros wx capture program and left it running for a week.
The time is perfect.

So, do we have a problem with APRS v76x and the calls it does to the clock,

Ideas?

many thanks...mike

```
Mike Walker                              mwalker@interlog.com
127 High St. W.                              rf:  va3mw@va3bbs
Mississauga, ON
L5H 1K4
```

---

442. Re: [APRSSIG:4677] Re: aprs vs ragchewing

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 14 Sep 1996 09:41:46
To: aprssig@tapr.org
Message-ID: <199609141343.JAA02529@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

On Thu, 12 Sep 1996 Bob Bruninga wrote:

>2) Knowing how to select dual paths for your data.

>6) Learning how to bundle multiple messages along the same
>path so that you are not delayed waiting for APRS to change
>paths.

Huh? I certainly don't claim to know EVERYTHING there is to know about APRS (espcially since it's always being "tweaked" by Bob) but these two items have escaped me.

How can I "bundle" messages that are intended for two stations that are essentially in opposite directions without causing excessive QRM?

As for "dual paths," this completely confounds me. Please explain this concept. 73

```
               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

I am initiating an inverted tachyon pulse to those coordinates now.

---

443. Help w/DLG (opt.) C-D

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 14 Sep 1996 09:43:46
To: aprssig@tapr.org
Message-ID: <199609141343.JAA18341@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

Well, I finally GOT the USGS C-D for my area so I can make maps. The problem is it won't install!

The disk is 1:100,000-Scale Digital Line Graph (DLG) Data Hydrography and Transportation US GeoData Optional Format dated June 1993 for Area 1. The computer is a PC-clone DX2/50 running Windows 95 (with the latest updates from Mr. Bill's website.) I re-start the computer in MS-DOS mode, then switch to the C-D and try to install it. Every time I do so it says it's copying the files, then says I've got the incorrect DOS version (or words to that effect) after each file has been "copied!" I'm stymied! I'm stuck! HEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEELP! 73

```
               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
```

I am initiating an inverted tachyon pulse to those coordinates now.

444. APRS Mobiles

From: Larry Miller <lmiller@ezl.com>
Date: Sat, 14 Sep 1996 09:06:00 -0500
To: aprssig@tapr.org
Message-ID: <323ABBC8.3EA2@ezl.com>
Rendered body type: text/plain

```
Wow, what a month.  Two mobile APRS out of towners rolling through the
St Louis Metro area in less than a week.

Last weekend had a quick voice QSO with N4NEQ on his way through and
today a chat with KO4HD as he rolled west enroute to Seattle.

Makes me want to work even harder (or find the time to) get the GPS-20
up and working.

73....
--
Larry
   Personal: lmiller@ezl.com
   Ham Radio: n9lbg@kd9sg.#sil.il
   Home Page: http://www.ezl.com/~lmiller
```

445. Re: [APRSSIG:4717] Clock speed up

From: William Nolle <wa8inz@cris.com>
Date: Sat, 14 Sep 1996 09:31:48 -0700
To: aprssig@tapr.org
Message-ID: <323ADDF4.4D8E@cris.com>
Rendered body type: text/plain

```
Mike Walker wrote:
>
> Has anyone seen this problem
>
> I first noticed this during the meteor scatter, when I couldn't keep the clock
> running on time.  I kept gaining time, and I thought it was the cpu (Dell
> 316SX), and I never gave it much thought. I gain several 10's of minutes a day
> when using aprs.
>
> I then loaded the Pete Bros wx capture program and left it running for a week.
>  The time is perfect.
>
> So, do we have a problem with APRS v76x  and the calls it does to the clock,
>
> Ideas?
>
> many thanks...mike
>
> Mike Walker                                mwalker@interlog.com
> 127 High St. W.                                rf:  va3mw@va3bbs
> Mississauga, ON
> L5H 1K4

Now that you mention it Mike i had the exact same problem during the meteor
scatter event, in fact a friend of mine told me i was TX'ing in the wrong time
event time zone. I even called Gateway to complain since it was a brand new
system. I will have to check again because since that i set my clock on a
regular basis (Maybe i don't have to).
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

446. new user (me)

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sat, 14 Sep 1996 08:06:32 -0800
To: aprssig@tapr.org
Message-ID: <199609141504.IAA20309@franc.ucdavis.edu>
Rendered body type: text/plain

Hi all,
   First and foremost let me say thanks to all of you who created this system (APRS) it's just great. Special thanks to the guys who wrote the programs.
   I have 8,943,015,805 questions, but I'll start with just a few. I am running MacAPRS version 2.6.

1. I can't seem to save a map zoom alias, which I read about in one of the docs. Is this possible in my version?
2. I can't seem to find a good explanation of how the unproto functions work. Remember I am a newbie. In order to set my path correctly I need to know what happens to my signal. Eg. I send via "wide,wide". All digi's who hear me repeat my signal (stripping one wide?). All digi's who hear the repeat, repeat again (stripping the second wide?) Or is the method of limiting repeating different. How do gates work? Etc. etc.

    Well, I think this software is worth enhancing. I know that the guys who write the code are loaded to the max and docs are hard to do on top of what they already do, particularly docs that answer every newbie question, like the 6 inch thick books Microsoft writes for a simple word processor. Could we in this sig help fill out the docs? I'd like to go over every menu command and create an explanation that any newbie can understand. If we compiled that kind of stuff, maybe the software authors could review it and add it into the documentation.

Again greetings to all KC6VLR John Lakeland

---

447. Re: [APRSSIG:4720] APRS Mobiles

From: rwf <rwf@mindspring.com>
Date: Sat, 14 Sep 1996 12:12:15 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960914161215.006e8d74@mindspring.com>
Rendered body type: text/plain

I don't think Steve slept last night, as he was having BBQ here in Atlanta with me until about 9PM.
Boy, will he be tired! He passes W7LUS-14 on I-75, but LUS didn't realize it until he got down here.

Yes, mobile, GPS APRS is fun and entertaining while on a car *OR PLANE* trip!

Makes me want to get the mobile HF going next time I take a long drive.
There are a lot of APRS dead areas on VHF!
Memphis TN is an area that is amazingly dead, and so is Missouri, down I-44.
Those KC guys need to get crackin down near Rolla.
, seriously- I am working with a fella on a possible Digi in Rolla.

Ralph

At 09:13 AM 9/14/96 -0500, Larry wrote:
>Last weekend had a quick voice QSO with N4NEQ on his way through and
>today a chat with KO4HD as he rolled west enroute to Seattle.

---

448. AutoWx

From: Les Blalock <lcb911@apex2000.net>
Date: Sat, 14 Sep 1996 11:18:12 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19960914111548.302f886e@apex2000.net>
Rendered body type: text/plain

The new version of AutoWx (supporting the new APRS wx beacon format) has been uploaded to the ftp site.

The file, AW2K40A.ZIP can be found at the tapr/software_lib/upload directory until it is moved to the tapr/software_lib/weather directory.

(AutoWx is a dedicated packet/weather program for logging weather values from Ultimeter home weather stations. It does NOT replace APRS but is used successfully with APRS in many areas.)

Version 4x does not require a weather station to be attached.

Please direct questions/comments about AutoWx via email to me - not the APRS SIG.

---

449. suscribe

From: Don Pendry <dpendry@mail.telis.org>
Date: Sat, 14 Sep 1996 09:18:11 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960914160114.1ab77df0@mail.telis.org>
Rendered body type: text/plain

suscribe
Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California 92252
dpendry@telis.org

---

450. Re: [APRSSIG:4684] Need map in the Boondox

From: ddobbins@juno.com (David S Dobbins)
Date: Sat, 14 Sep 1996 09:06:33 PDT
To: aprssig@tapr.org, kc7lsp@juno.com
Message-ID: <19960914.094702.4439.1.ddobbins@juno.com>
Rendered body type: text/plain

On Thu, 12 Sep 1996 23:01:01 -0500 (CDT) kc7lsp@juno.com (Kevan J Coleman) writes:
All - I would like a map of western Washington, other than the BLANK one that comes with the APRS software. I'd appreciate someone sending some info via E-Mail in UUENCODE or via AX.25 in 7PLUS format.
>
The problem is that I'm in an APRS-FREE zone and have received nothing at all.
For your information my coordinates are: 4631.17N / 12255.10W 380ft
>
Also, I have information on two amateur radio repeater sites in SW Washington:
>
1) Columbia Heights (Longview, WA)   4611.50N   /12258.01W
2) Ranier Hill (Rainier, OR)   4603.18N   / 12255.06W
>
TNX & 73, Kevan, KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
>
>
Greetings from Dave/WH6YC, Pacific Northwest APRS Coordinator.
I'll take Kevan's request for action, and respond WIDE in case it helps others.

Kevan, actually, there is already an area map which includes the Longview area, it's called the ORNWEST.MAP. Going north along I-5 is the Centralia map. The entire I-5 corridor for the PNW has already been mapped. To get these maps, plus all others in the PACNWEST, send me your mailing address and I'll send you a disk. If you had internet access, you would find these updated monthly on the TAPR APRS FTP site.

As for the "boondox" location, this is how APRS starts out in new areas. One person gets going, talks about it on local repeater, gives away copies on disk, etc. It works, and interest grows. You may already be within ear shot of the Portland APRS digi on 145.75. Note, this freq may be moving to 145.79 soon. Change your path (U key) to NWRA,NWRA,NWRA. If you can hit the first digi (AKA PORT), your signal will get to Spokane (YAKI,SPOK are the other alter-aliases). Lucky you. I can't reach that one myself, yet. I hope to extend the Portland signal to Seattle by placing an APRS digi on Bah Faw Peak (AKA Boistfort Peak) west of Chehalis at 3110 ft.

Want to hear more about APRS? I'll be presenting APRS at the Oct 2nd Chehalis Valley Amateur Radio Society (CVARS) meeting, 7:30 pm, at the Baptist Church in Chehalis.I'll bring latest copy of APRS and PNW maps with me. Talk-in 147.06. I routinely monitor this freq; perhaps you can already hit it.

Also, there will be an APRS seminar at the Digital Committee Conference (DCC), Friday, Sep 20th, 4-7 pm, near SeaTac airport. I'll be there, along with a bunch of other hams interested in APRS. Keith Sproul/WU2Z, author of the Macintosh and co-author of the Windows APRS software, will be presenting.

Next, I recommend you leave your station running APRS whenever you don't need the computer or gear for another purpose. Soon as I get settled, and household goods delivered, my station will be on the air full-time. Additionally I'm putting the two schools I work at (Pe Ell and Boistfort) on the air with weather stations. I also go standalone mobile routinely, and now have a Agrelo Engineering DFjr (THIS IS A WAY COOL PIECE OF

EQUIPMENT). If you have HF capability, tune in HF APRS on 10151 LSB. You could even use a SW receiver to process the sigs, if you don't have HF TX capability.

You can email me direct for further assistance, or call me (phone connected 9/16) at 360-291-3707.

Again, send me your address, I'll put disk in mail to you. Welcome to APRS, and don't worry about the loneliness that many of us experienced at first. If it makes you feel any better, just remember that the Pacific Northwest APRS Coordinator lives within an hour of you.

Aloha, Dave Dobbins/WH6YC
POB 553
404 N. Third St.
Pe Ell, WA 98572-0553
tel: 360-291-3707
pager: 1-800-514-7489
email: ddobbins@juno.com
pony express: Stop 3, Chehalis-Aberdeen leg
Cruise Missile coords: 46.58N, 123.3W

---

451. Re: [APRSSIG:4719] Help w/DLG (opt.) C-D

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sat, 14 Sep 1996 12:09:14 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960914170914.006cdad8@tbcnet.com>
Rendered body type: text/plain

Here's what worked for me:

I didn't install anything from the CDRom, I just ran the DLG.bat program on the CD and installed the maps required on my HD.

Make sure you have a directory in your root called DLG. Put only one of the MKMAP*.exe prgms in there and nothing else. I think you can get them from ftp.tapr.org

Put the CD in the drive (assuming it's drive D:)

Go to Start, Run, Browse, go to whatever drive your CDRom is, and pick DLG.bat. Run it.

The biggest problem I had with any DOS based program was when I assumed that I had to go out of 95 and restart in DOS mode. Wrong!

By using Run... or using the Windows Explorer to pick the .exe file in a program that makes the DOS prog. work, then going to Files, Create Shortcut, then starting the DOS prgm from the shortcut, I had a WHOLE lot better luck. There are a few DOS-based prgms (DOOM comes to mind) that I have to modify the shortcut in "Properties, Program, Advanced, MS-DOS mode", that will restart in DOS mode. But 95 does it all. It works great!

Back to the CD...

Start D:\DLG.bat
Within a few seconds a window (DLG - GS Menu) will appear that will give you several options. Take the 1st one, Extract DLG Data..
you'll see a gridded map of the region covered by the DLG CD Rom.

Chose "View Quad" at the top. Move the mouse to the area and click. A more detailed map will appear.

Select Layers... (be careful! These DLG's have a lot of data usually. I would suggest to chose "Roads" to start with). When you're finished, pick "End Selection".

Next, "Choose 15' Cell", pick a cell, then right click when finished.

Next, "Output". A dialogue box will show up, asking you where you want to send the files from the CD. I use C:\DLG.

Hit enter. The CD will copy the maps to the directory you made. The name will be something like "Ar2rdf06". There will be no extension. Leave it that way.

Now, exit the DLG program, and enter the (thru Explorer) the directory where the DLG maps went.

Start the MKMap program. Each will give you different options, but I would suggest using MK100k2a.exe for starters.

Have nothing but the MK*.exe pgrm and the maps the CD put there in the directory.

The program will ask you things like:
1. What is the path to the map files? press Enter for default (c:\dlg), otherwise enter complete path info.

2. Next, depending on what version of MKMap yr using, it will ask for whether or not the file data is from the CD or Internet (blocked or unblocked). Answer showing that the program has to deal with files from the CD.

3. Enter a filename you want the new map to be called (try TEST). Don't add an extension.

4. Enter the latitude of the center of the map. Two important things here: if the center's lat coordinates are 41 deg 55.31 min, enter "41,55.31" (without quote marks). And the center of the map you're about to make HAS to fall in the DLG maps area. Otherwise, the program will crash.

5. Next do the same with the map center's long.

6. You'll next be asked for a number which will be the radius of the map. Enter something big, like 10 to start with. If you feel brave, enter +10.

7. If the program asks you for a multiple of maps, say you only want 1 to begin with.

8. If the numbers change at the top of the screen, and lines appear, you're making a map. If not, you've done something wrong, and you need to start over.

The program will produce TWO files, Test.map and Test.dat (or .raw).

Use MAPFIX to edit, combine, smooth, trim, scrunch, etc., and then you have a map that can used with APRS and WinAPRS usually.

Put it in it's own directory with MKMAPLST.bas. That will get the center coordinates and range. The new file, MAPCEN.txt, is sometimes found in the DOS directory.

Include the center/range into an existing maplist for the area, putting it in hierarchical (sp?) order, found in c:\aprs\maplists\ .

Put the new map, TEST.map, into c:\aprs\maps\

cross your fingers

For WinAPRS, just put the TEST.map into c:\winaprs\maps\. The 3000 pt limit on APRS maps doesn't apply here. MAPFIX can handle bigger maps than 3000 pts., it's just that APRS won't use them.

gud luck

jbl

At 08:54 9/14/96 -0500, you wrote:
>Hi All,
>
>   Well, I finally GOT the USGS C-D for my area so I can make
>maps. The problem is it won't install!
>
>   The disk is 1:100,000-Scale Digital Line Graph (DLG) Data
>Hydrography and Transportation US GeoData Optional Format dated
>June 1993 for Area 1. The computer is a PC-clone DX2/50 running
>Windows 95 (with the latest updates from Mr. Bill's website.)
>I re-start the computer in MS-DOS mode, then switch to the C-D
>and try to install it. Every time I do so it says it's copying
>the files, then says I've got the incorrect DOS version (or
>words to that effect) after each file has been "copied!" I'm
>stymied! I'm stuck! HEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEELP! 73
>

>
>   Arte Booten <N2ZRC@gnn.com>
> (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
> [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
>I am initiating an inverted tachyon pulse to those coordinates now.
>

J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157

---

452. Re: [APRSSIG:4715] KO4HD visits Atlanta (web address for photos)

From: George Salinas <saltair@hargray.com>
Date: Sat, 14 Sep 1996 13:14:04 -0400
To: aprssig@tapr.org
Message-ID: <323AE7DC.3B8A@hargray.com>
Rendered body type: text/plain

rwf wrote:
>
> Steve, KO4HD stopped by for dinner tonight while on his way to the Digital
> Convention in Seattle. For a couple of pictures of the varmint, cruise by
> the Atlanta APRS Home Page at:
>
> http://www.mindspring.com/~rwf/aprs1.html
>
> 73
>
> Ralph

Hi Ralph,
just saw Steve's mug (KO4HD) in the Atlanta APRS home page.

Keep up the good work. Site looks good.

73, George KD4FJ.

---

453. Re: [APRSSIG:4719] Help w/DLG (opt.) C-D

From: William Nolle <wa8inz@cris.com>
Date: Sat, 14 Sep 1996 11:42:56 -0700
To: aprssig@tapr.org
Message-ID: <323AFCB0.3493@cris.com>
Rendered body type: text/plain

Arte Booten wrote:
>
> Hi All,
>
>   Well, I finally GOT the USGS C-D for my area so I can make
> maps. The problem is it won't install!
>
>   The disk is 1:100,000-Scale Digital Line Graph (DLG) Data
> Hydrography and Transportation US GeoData Optional Format dated
> June 1993 for Area 1. The computer is a PC-clone DX2/50 running
> Windows 95 (with the latest updates from Mr. Bill's website.)
> I re-start the computer in MS-DOS mode, then switch to the C-D
> and try to install it. Every time I do so it says it's copying
> the files, then says I've got the incorrect DOS version (or
> words to that effect) after each file has been "copied!" I'm
> stymied! I'm stuck! HEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEELP! 73
>
>   Arte Booten <N2ZRC@gnn.com>
> (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> I am initiating an inverted tachyon pulse to those coordinates now.

Arte why not just install it under DOS, mine runs just fine that way.
I don't know if that software was meant to run under windows!.

```
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

454. My NEW - APRS home page URL

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Sat, 14 Sep 1996 19:02:43 GMT
To: aprssig@tapr.org
Message-ID: <323a45ec.201904293@vaxxine.com>
Rendered body type: text/plain

```
Hi All...
My old ISP has gone under and I have a new
ISP, I have just finished reinstalling my APRS
home page there, the new URL is
http://www.mergetel.com/~rkramer
I try and keep it up to date as soon as I hear
a new version is out.

73 for now de Ron VE3MX

Email: rkramer@mergetel.com
           ve3mx @mergetel.com

Regards, Ron ...                            73 de Ron
         Internet: rkramer@vaxxine.com (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

455. Re: [APRSSIG:4719] Help w/DLG (opt.) C-D

From: Scott Arnold <sarnold@access-net.com>
Date: Sat, 14 Sep 1996 13:23:54 +0000
To: aprssig@tapr.org
Message-ID: <323AB1EA.3FD4@access-net.com>
Rendered body type: text/plain

```
Arte Booten wrote:
>
> Hi All,
>
>      Well, I finally GOT the USGS C-D for my area so I can make
> maps.  The problem is it won't install!
>
>      The disk is 1:100,000-Scale Digital Line Graph (DLG) Data
> Hydrography and Transportation US GeoData Optional Format dated
> June 1993 for Area 1.  The computer is a PC-clone DX2/50 running
> Windows 95 (with the latest updates from Mr. Bill's website.)
> I re-start the computer in MS-DOS mode, then switch to the C-D
> and try to install it.  Every time I do so it says it's copying
> the files, then says I've got the incorrect DOS version (or
> words to that effect) after each file has been "copied!"  I'm
> stymied!  I'm stuck! HEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEELP!  73
>
>                Arte Booten <N2ZRC@gnn.com>
>  (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> I am initiating an inverted tachyon pulse to those coordinates now.

Arte, try looking at the ver of dos that your running. Type ver(return)
then look at the ver# of dos in your io.sys file in the root directory.
some times a new version of dos comes out and it gets loaded to the hard
drive w/out updating the *.sys files.If that is the case you can go to
your sub-directory that dos is in and type "sys c:\"(return) and it
should update your sys files. Or you may need to go back to your
original disk and type "sys a: c:\"(return). I've seen problems like
this after uploading new DOS ver's. Hope this helps.
--
Scott Arnold
Southern Communications Advanced Technology
48 Lott Purvis Road
Hattiesburg, Mississippi 39401
601-582-0730 Voice
601-582-1333 Fax
601-271-4462 Pager
mailto:sarnold@access-net.com
```

456. Motionless "Hurricanes"..

From: "KB8AST" <kb8ast@rush.MWWEB.COM>
Date: Sat, 14 Sep 96 17:43:40 PDT
To: aprssig@tapr.org
Message-ID: <MAPI.Id.0016.00623861737420203030303630303036@MAPI.to.RFC822>
Rendered body type: text/plain

```
In the last couple of weeks, we have had probably 3 (or more) of
these nasty little storms batter the eastern seaboard of the United
States. I don't think I ever saw one of them move on my display. For
some reason, NE Ohio is not in a good location to pickup the info
being sent into the ether by the National Hurricane Center's amateur
relay station...because I still was showing Edwardo off the coastline.

   I know at least one of these drenchers passed through NE Ohio
the weekend of 6/7 of September, and it dumped some hugh amounts
of water into my basement. Is there some way we can get heading
and groundspeed inserted into the beacons? I would also like to suggest to get the maximum amount of
coverage, that the digipeater
list include a WIDE between the two GATE's I am seeing. For storms
of this inportance, I don't think GATE,WIDE,GATE would cause too
much harm to the network. The idea being it would allow more stations
to see the storm activity and perhaps provide better coverage to the
area directly concerned.

   Another problem I am noticing, the names of the storms are being
modified and I end up with 2 or 3 plots of the same storm. The first
letter will be capitalized and the rest all lower case, or there will be a
suffix added, or the name will be abbreviated, or the name will be
either all capitals or all lowercase.

   The floor is now open for discussion...

                 GRIDSQ    --- EN91kr

May you have the pleasure of participating in a challenging existance..
73 from G. R. (Bob) Merchant in Perry Twp, Lake County, Ohio

        Packet     --- kb8ast.#neoh.oh.usa.na
        ampr.org  --- kb8ast@geaugasw.ampr.org
        TCP/IP   --- kb8ast.ampr.org [44.70.248.17]
                         neswch.ampr.org [44.70.248.18]
        INTERNET  --- hi010@cleveland.freenet.edu
                           KB8AST@www.mwweb.com
        PUBLIC ACCESS LANDLINK  ---   216-259-5612
```

457. Re: [APRSSIG:4723] Re: APRS Mobiles

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 14 Sep 96 18:36:31 -0400
To: <aprssig@tapr.org>
Message-ID: <199609142233.SAA14249@bridge.net>
Rendered body type: text/plain

```
>I don't think Steve slept last night, as he was having BBQ here in Atlanta
>with me until about 9PM.
>Boy, will he be tired!  He passes W7LUS-14 on I-75, but LUS didn't realize
>it until he got down here.
>
He IS tired,but he slept from 10 till 2, woke up from the cold...too long
in the tropics. Headed out and saw LUS pass about 2:30...no way to get
his attention though. Drove straight through to Kansas City, met with
Jim, KU0G for a bit, and continued on to Omaha. I'm looking forward to
tomorrow, ham radio gets second billing, sightseeing is number 1.

>Yes, mobile, GPS APRS is fun and entertaining while on a car *OR PLANE* trip!
>
I'll post some detailed comments when I get a chance, but truer words
were never spoken on this sig.

Steve
```

458. wish list

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sat, 14 Sep 1996 17:52:42 -0800
To: aprssig@tapr.org
Message-ID: <199609150051.RAA09895@franc.ucdavis.edu>
Rendered body type: text/plain

Hi all,
    OK here's my wish list (the short version). I would like to see a small program which might be called "APRSrecorder" which can run under Macintosh System 6.0.7, and which interfaces with my TNC (and radio, maybe receive only) and which simply records what it hears. Then when I start up MacAPRS I can read the "recorded" data and I haven't missed anything. I want this so I can use my old Mac SE with two floppy drives and no hard disk to run 24 hrs, thereby saving my better machine from excessive operating hours and making it available for other work without going off the air.

Also, I'd like a "box" which can plug into a serial port and talk to MacAPRS that I can hook up analog instruments to for reporting whatever, weather, radioactivity level, earthquake data, you get the idea (I hope). I can build circuitry to give an analog voltage for about anything, but getting it into the machine is beyond me. I'd be entirely willing to build such a box if I knew how.

73 KC6VLR John Lakeland

459. Re: [APRSSIG:4717] Clock speed up

From: Paul Christenson <paulc@easy1.mediacity.com>
Date: Sat, 14 Sep 1996 17:56:27 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.94.960914174635.11071A-100000@easy1.mediacity.com>
Rendered body type: text/plain

On Sat, 14 Sep 1996, Mike Walker wrote:

> Has anyone seen this problem

> I first noticed this during the meteor scatter, when I couldn't keep the clock
> running on time.

> I gain several 10's of minutes a day when using aprs.

> I then loaded the Pete Bros wx capture program and left it running for a
> week. The time is perfect.

I noticed a similar effect several years ago when I was running one of the KA9q NOS derivatives to sponge news from an nntp server. The machine ran 24/7, and I noticed that the time crept nearly an hour a week.

The machine was running PC-DOS 6, which had a driver available to periodically reset the DOS clock from the CMOS clock. This solved (or at least mitigated) the problem.

I don't know if M$-DOS has a similar utility or not.

460. No. CA APRS activity

From: Paul Christenson <paulc@easy1.mediacity.com>
Date: Sat, 14 Sep 1996 20:23:32 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.94.960914202104.15177A-100000@easy1.mediacity.com>
Rendered body type: text/plain

Is there any activity in the South SF Bay (Silicon Valley) area? If so, what frequency is in use?

de N3EOP/6

461. GPS Chip Article

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 14 Sep 1996 22:29:28 -0500
To: aprssig@tapr.org
Message-ID: <199609150329.WAA18111@tapr.org>
Rendered body type: text/plain

Came across this on the net and thought I'd pass it along:

Global Positional System (GPS) technology, which has long been restricted to military and automotive navigation applications, is quickly heading toward consumer electronics and computer-based applications.

The Sunnyvale, California-based start-up SiRF Technology is positioning its SiRFstar architecture, which consists of a $49.95 chip set with software, as an inexpensive way for designers to deploy GPS in portable computers, cellular phones, and hand-held devices. Although SiRF's is not the first GPS architecture to target consumers--several devices were shown at a recent consumer electronics show--the company is betting that a low price will attract more portable PC manufacturers to GPS solutions.

Originally developed by the U.S. Department of Defense, GPS receivers accept spread-spectrum signals at 1.6 GHz from satellites, which in turn pinpoint the location of the GPS receiver and plot its location via mapping software. Will Strauss, president of the market-research firm Forward Concepts, forecasts a $10 billion market for GPS receivers by the year 2000.

"So far, though," says Strauss, "the receivers have been far too expensive for consumer applications." GPS solutions have also been compromised by inaccuracies caused by signal deflection off buildings and other structures.

SiRF's chip set, designed to detect these inaccuracies, consists of a receiver chip that converts a satellite's spread-spectrum signal into digital inputs for a
companion digital processor chip.

"Among general consumer applications," says SiRF chairman Dado Banatao, "you'll be able use this technology to locate a lost child, find a car in a crowded
parking lot, or dial 911 from a cell phone, knowing that an operator can locate you."

The market on which Banatao says he's especially focused is the portable PC market. But portable PC makers have been slow to adopt GPS. So far, Mitac is the only manufacturer to support the SiRF architecture.

Part of the problem of gaining GPS acceptance in the PC space has come from the lack of standardized digital mapping to serve as a platform for GPS applications. SiRF's software is positioned as such a platform, and its technology is extensible, so applications built around it can eventually incorporate--say--Multiple Listing Service references for real-estate firms.

SiRF officials said they hope to announce software developers and portable PC makers that support its GPS chip set this fall.--Sebastian Rupley

```
---------------------------------------------------------------------
                 David E. Barrett
       barrettd@crpl.cedar-rapids.lib.ia.us
---------------------------------------------------------------------
     If I can't give you a good sound reason
     I'll give you a reason that sounds good


       _
     _( )_
   _(     )_
  (__________)
    \  \  \
      \  \
```

---

462. Comin' to Southern California

From: rwf <rwf@mindspring.com>
Date: Sun, 15 Sep 1996 00:12:51 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960915041251.006c7d90@mindspring.com>
Rendered body type: text/plain

I'll be heading to SOCAL next month for a business conference. Arrival date is Saturday October 5th at about noon. I am supposed to head back to Atlanta on Friday morning the 11th.

I *may* stay a few days extra (if I fly the family out) and travel up as far as the LA/San Bern/Valencia area. (I have a friend who lives on the Mtn at Crestline)

What kind of activity on APRS can I expect, and on what frequency. Should I bother to bring it? If you have any info, or want to schedule an eyeball or other get together, please respond.

Thanks

```
                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
```

```
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
```

---

463. Washington State!

From: James Van Houten <jdvh@jdvh.com>
Date: Sun, 15 Sep 1996 00:19:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609150419.AAA12367@onramp.i95.net>
Rendered body type: text/plain

```
Just wondering are there any APRS users here that are in western Washington?
Please respond via e-mail..

Thanks

73's de KA3TTU

Jim

Bowie, MD soon Western Washington, I think!

-----------------------------------------------------------------
James Van Houten         jdvh@jdvh.com   http://www.i95.net/~jdvh
-----------------------------------------------------------------
```

---

464. Mentor Page

From: William Nolle <wa8inz@cris.com>
Date: Sun, 15 Sep 1996 04:22:36 -0700
To: aprssig@tapr.org
Message-ID: <323BE6FC.1A62@cris.com>
Rendered body type: text/plain

```
Well the Mentor page now has 29 calls on it, so it's growing. Just wanted
to let the group know that i have posted many nmessages on the Sig and
some agree with me and some disagree (And some even are outright nasty),
so haven't you ever wondered what does this old fart look like that
writes some of these contravercial messages, well now you can see because
i have posted a picture of myself on the opening menu screen of the
my dedicated APRS webpage. By the way could use some more Mentors, like
to see one for every state that has APRS users. Guys i'm sure you have
needed help at one time or another, so help someone else if needed.
And by the way flames are welcome, i have learned to deal with them Hi.
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

465. Comin' to Southern Cal (more)

From: rwf <rwf@mindspring.com>
Date: Sun, 15 Sep 1996 08:31:46 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960915123146.006d94d0@mindspring.com>
Rendered body type: text/plain

```
Sorry for the additional message, but I left out an important part:  I will
be arriving in San Diego on the 5th, then staying 5 days and either going
home or th the LA area.Thanks, Ken for pointing that out.

Ralph
```

---

466. Tracker symbol!

From: Joe Agrelo <jagrelo@concentric.net>
Date: Sun, 15 Sep 1996 09:42:26 -0700
To: aprssig@tapr.org
Message-ID: <323C31F2.53E5@concentric.net>
Rendered body type: text/plain

```
Hi All,

I have a stand alone tracker in my truck using a Paccomm Handi Packet,
and I show up on the map as an Ambulance, how can I change this to a
```

truck. Do I need to connect to the TNC via a PC and set the object
parameters to a truck somewhere in the TNC? or what?

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

467. INFO / HELP WITH APRS

From: kb6owl@n0ary.#nocal.ca.usa.noam
Date: 15 Sep 96 03:41:00
To: aprs@allus
Message-ID: <12758_N0ARY@kd4idr.bbs>
Rendered body type: text/plain

R:960915/0455z @:KD4IDR.#ENG.FL.USA.NOAM Englewood, FL Z:34224 $:12758_N0ARY
R:960915/0435Z @:WB0TAX.#SHRV.LA.USA.NOAM #:45445 $:12758_N0ARY
R:960915/0404Z @:KA6EYH.#NOCAL.CA.USA.NOAM #:748 [Pacifica] $:12758_N0ARY
R:960915/0446z @:W6YX.#NOCAL.CA.USA.NOAM Stanford #:106538 Z:94305 $:12758_N0ARY
R:960915/0341 @:N0ARY.#NOCAL.CA.USA.NOAM #:12758 Sunnyvale, CA $12758_N0ARY

THANK YOU FOR READING THIS REQUEST FOR INFORMATION

I am new to APRS (i.e. don't know a thing about it)
Can someone help me to understand how it works and what
I need to operate? I currently am using a terminal program
on an Apple IIgs computer. Will this work?

Any help and guidance will be greatly appreciated.

Best Regards de Tom (KB6OWL) in San Jose, CA
sk

KB6OWL@N0ARY.#NOCAL.CA.USA.NOAM
t_majews@kla.com
73

468. Compaq Lap Top Information

From: carlt@icanect.net (carl taylor)
Date: Sun, 15 Sep 1996 10:17:28 -0400
To: aprssig@tapr.org
Message-ID: <199609151417.KAA16188@foo.icanect.net>
Rendered body type: text/plain

I read in the READ.ME file of APRS that Compaq Lap Tops that have the new
UART Chip may require a change to the Com FIFO 1 turned off. This setting I
believe is in the CMOS.

The Compaq must use some type of proprietary keyboard command in order to
get in to the CMOS. The conventional DEL during boot is not working?

Can anyone offer any suggestions? We are very close to testing out a new
hardware device with APRS that will allow it to work with 1 com port.

73, Carl W9GZU

469. Re: [APRSSIG:4732] Motionless "Hurricanes"..

From: KG5QD@aol.com
Date: Sun, 15 Sep 1996 10:36:13 -0400
To: aprssig@tapr.org
Message-ID: <960915103613_102346713@emout12.mail.aol.com>
Rendered body type: text/plain

The whole problem of the names of Tropical Cyclone object names has to be
addressed this winter- maybe during the Miami Hamfest-
I believe that the Hams at the Hurricane Center are more worried about
getting
information than putting it out (I agree with this) but by next season my
software
should be completely debugged and ready to more over there.
I have software in Beta test to parse the positions automatically with the
ability
to output on 16 seperate paths/freqs. There has been some flack from central
Florida about the format of the positions and the Bulletins but I am more
worried
about the system right now than the bells and whistles. I think I could also
add the
ability to parse a .BK file directly and put it on the internet server at the
NHC.
Ken Swaggart has written a program that is available at the TAPR FTP site (in
the Weather section) that does it that way but his format and mine are
somewhat different regarding the names.
When the system works it is sweet- just do a screen refresh to erase the old
plots
and plot only the latest- all the objects for a storm have the same name from
update to update so no confusion about what plot is the latest info.
73 de Dale Kg5qd

---

470. Re: [APRSSIG:4736] No. CA APRS activity

From: w7lus@juno.com (Peter A Gross)
Date: Sun, 15 Sep 1996 08:19:06 EDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <19960915.082345.7438.0.w7lus@juno.com>
Rendered body type: text/plain

I just sent a msg to the sig abt the area of your concern. And had also
realized I forgot to mention that they are on 145.01.

I think that all networks that are not on the recognized standard freq of
145.79 ought to inform the software authors to create a text file with
that info.

73 Peter w7lus@juno.com

On Sat, 14 Sep 1996 22:36:23 -0500 (CDT) Paul Christenson
<paulc@easy1.mediacity.com> writes:
>Is there any activity in the South SF Bay (Silicon Valley) area? If
>so,
>what frequency is in use?
>
>de N3EOP/6
>
>
>

---

471. Re: [APRSSIG:4736] No. CA APRS activity

From: KSwaggart@aol.com
Date: Sun, 15 Sep 1996 11:55:06 -0400
To: aprssig@tapr.org
Message-ID: <960915115505_522999147@emout03.mail.aol.com>
Rendered body type: text/plain

The coordinated Northern Calif APRS freq is 145.01. Hope to see you on!
There is a new northern Calif map file at tapr.org - NOCAL01.zip in the
uploads directory.
Send me a note if you need any more info.

73, Ken, W7KKE, Foster City, CA
kswaggart@aol.com

---

472. Aliases

From: JOHN.LANGTRY@resonet.com
Date: 15 Sep 1996 15:22:00 +0000
To: aprssig@tapr.org
Message-ID: <"KNGA-2965-1900*/O=ENVOY
100/ADMD=TELECOM.CANADA/C=CA/"@MHS>
Rendered body type: text/plain

Greetings all APRS users !

There have been several messages on the sig which touch on the above topic.

Did I miss something recently ? In the past the alias for general repeat on H.F. was ECHO, whilst on V.H.F. it is RELAY.

Needless to say, with the limited bandwidth on 30 Metres, the use of ECHO at the beginning of a path, should be used only in the most dire circumstances.

Another disaster waiting to happen can be found with the suggestion to use "GATE,WIDE,GATE" in another sig. Why a disaster ? Let's look at the Toronto, Ontario area as an example.

Using that path, and assuming that my station heard your frame, the first GATE would trip my station and shove your frame out on the 2 Metre side. The WIDE would then trip the four VHF APRS digipeaters that I can work directly from my QTH. Each one of those four digipeaters would, in turn, repeat that frame back, and the final GATE, would again trip my station. Result, I would send back into the HF side 4 identical frames ! (Multiply this by all the other GATEs in other cities in N.A. which can also hit one or more WIDEs on the VHF side; and the one frame you send, will neatly clog the HF side.

Okay, having said all of that, I think someone out there with some time, should write a refresher on how Level 2 or unconnected packet works and the significance of what we put into our paths.

Meanwhile, in the interests of growing the interest in APRS, could I again ask all those who operate stations on HF to use GATE,WIDE as your default path ? This way, you'll trip the various GATEs and be seen one APRS digipeater out from the GATE's QTH.

Comments are always appreciated; Oh, and as an old BBS sysop and a biker, I have a rather thick hide (head, too) so flames are also welcomed, hi !

vy 73 de John VE3NEC.

---

473. Re: [APRSSIG:4738] Comin' to Southern California

From: james keck <jkeck@smartlink.net>
Date: Sun, 15 Sep 1996 09:44:44 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960915164444.0069d0bc@smartlink.net>
Rendered body type: text/plain

Ralph,

At 11:15 PM 9/14/96 -0500, you wrote:
>I'll be heading to SOCAL next month for a business conference. Arrival
>date is Saturday October 5th at about noon. I am supposed to head back to
>Atlanta on Friday morning the 11th.

I am in the Valencia area, however, I will be leaving for Hawaii on the morning 5 October and returning after you are back in Alanta.

>I *may* stay a few days extra (if I fly the family out) and travel up as far
>as the LA/San Bern/Valencia area. (I have a friend who lives on the Mtn at
>Crestline)

I assume that you will be in the San Diego area, since you indicate you may travel up as far as LA. You will find some activity on 145.790, although probably not early the quantity that you have in Alanta, based on what I have seen on the Java pages of the internet.

>My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
>me how!

If you are familiar with this area (Valencia), you know of the mountain range between this valley and the San Fernando Valley and another range to the south also. This makes it quite difficult for our group to see anything in the Orange County and San Diego areas.
We have also been plagued with getting 145.790 offically recognized as the APRS Frequency, however, who hasn't.

```
  I doubt if anyone would notice you driving around in the Valencia
area in a vehicle.  There are about 12 of us registered with APRS
but only 3 or 4 who are working it regularily.

   If you ever get the opportunity to be in CA and the Valencia area
on the third Wednesday of a month, you would be very welcome to attend
our club meeting.  Our Web Page is at  www.smartlink.net/~scarc  and you
will find me listed as the webmaster.

   Have fun in SOCA, sorry to miss you.

  73, Jim
```

---

474. Re: [APRSSIG:4716] Re: oops!

From: rsellers@firecraker.com (Roger Sellers)
Date: Sun, 15 Sep 1996 11:45:33 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609151645.LAA10496@tapr.org>
Rendered body type: text/plain

```
>
>Is there e-mail software out there that won't let you CLEAR, DELETE, KILL
>or otherwise STOP a message you have just written before you send it?  I
>have been seeing a lot of mis-addressed messages to the SIG that end up
>"Oops" toward the end.
>
Try writing the messages off-line. They then wait in the que for you to dial
in and run the mail program. Till you actually dial up the service, you can
retreive them, change, or delete them. Also saves $$ to Ma Bell.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

475. FS>PacComm HandiPacket & KPC-9612

From: AC6JA@aol.com
Date: Sun, 15 Sep 1996 12:58:21 -0400
To: aprssig@tapr.org
Message-ID: <960915125820_523027616@emout04.mail.aol.com>
Rendered body type: text/plain

```
Hello to everyone on the SIG!
I have for sale a PacComm HandiPacket TNC with three cables, one of which is
wired for the standard pinouts for alinco, radio shack, etc handitalkies and
two additional unterminated cables for your own customized uses.  This is a
small, rugged, portable tnc with internal rechargeable battery pack that
supports GPS!
This is the same TNC as is used in the MIR Space Station.
Price Paid New - $229.00        Asking $160.00  OBO

I also have for sale the Kantronics KPC-9612 1200/9600 Dual Port, Dual Speed
Tnc.
Price Paid New - $199.95        Asking $140.00  OBO

Both TNC's come with original boxes, manuals, cables, etc.  Prices will
include shipping!

Interested parties can contact me via e-mail at AC6JA@AOL.COM or directly via
phone at (415) 573-7720.

Thanks!

Mike  AC6JA
```

---

476. Re: [APRSSIG:4739] Washington State!

From: RGervenack@aol.com
Date: Sun, 15 Sep 1996 13:27:59 -0400
To: aprssig@tapr.org
Message-ID: <960915132757_479164939@emout09.mail.aol.com>
Rendered body type: text/plain

```
There sure is. A couple new ones ever month, usually 145.79.
There are 0ver 20 stations on my list.
```

I am not on 30 meters right now - computer problem.
Give us a shout on 2 meters and or land line i 206-788-1497.
73 Gervie, W7FEN.

---

477. Re: [APRSSIG:4742] Tracker symbol!

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 15 Sep 1996 12:50:43 -0600
To: aprssig@tapr.org
Cc: jagrelo@concentric.net
Message-ID: <v02140b01ae61ffa38f0a@[199.1.11.138]>
Rendered body type: text/plain

```
>Hi All,
>
>I have a stand alone tracker in my truck using a Paccomm Handi Packet,
>and I show up on the map as an Ambulance, how can I change this to a
>truck. Do I need to connect to the TNC via a PC and set the object
>parameters to a truck somewhere in the TNC? or what?

You must be using a SSID of -1
a SSID of -14 or -15 is a truck and -9 is a car

That is the quick and easy way to do it.
Bob has a list somewhere in the doc files of another way.

73


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

478. Re: [APRSSIG:4736] No. CA APRS activity

From: David Wells <davew@cruzio.com>
Date: Sun, 15 Sep 1996 13:04:42 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9609151059.aa02853@cruzio.com>
Rendered body type: text/plain

```
At 10:36 PM 9/14/96 -0500, you wrote:
>Is there any activity in the South SF Bay (Silicon Valley) area?  If so,
>what frequency is in use?
>
>de N3EOP/6
>
>
>.-
>

Yes, there is a quite a lot of activity around the Bay Area and Norcal. The
freq is 145.01. The wide digi in the area is K6TAM-5 on Loma Prieta.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

---

479. Garmin 20 and MIN Board

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Sun, 15 Sep 1996 13:20:39
To: aprssig@tapr.org
Message-ID: <199609151820.OAA32523@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
I have a Garmin 20 engine tied to a Clement MIM Module per pinouts
in documentayion for both units.  It all seems to be working OK.
The MIM checks out fine with MIC104.EXE software, and when tied to
a transciever, the assembly put out beacons(correct BT), andan
apparent GPS fix, but of strange format. i.e.,
<call sign>,172515,V,,,,,,,150997,,?GPS FIX"  The Garmin has been
on for several hours, and should have acquired a fix, but the NMEA
sentence doesn't look right to me.  Any ideas, anyone?  Is the
Garmin 20 working properly?  Any help will bw sincerely
appreciated.

John N5XAK
```

---

480. Re: [APRSSIG:4740] Mentor Page

From: wa4mej@juno.com (john w dent)
Date: Sun, 15 Sep 1996 15:37:32 PST

To: aprssig@tapr.org
Message-ID: <19960915.153736.4543.0.wa4mej@juno.com>
Rendered body type: text/plain

your web page ig great ...
put me on your list
JOHN
WA4MEJ
wa4mej@juno.com

481. Re: [APRSSIG:4755] Garmin 20 and MIN Board

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Sun, 15 Sep 1996 16:02:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.95.960915155654.29670A-100000@outland.dtcc.edu>
Rendered body type: text/plain

John, I have constructed (successfully after several agonizing days) a
similar system. The GPS-20 requires a "stiff" power supply of +5 volts.
I spent several days on this problem thinking that I had a faulty GPS. It
some extra measures on my part to successfully get the GPS-20 to start up.
I finally put a really large (I think I put a 2200 uF cap across the
connection from my 7805 regulator to the GPS-20. I have had no problems
since I did that. This may be overkill but I tried 10 and 100 uF and they
were marginal with my battery supply that I use with the tracker. I even
found that several of my bench supplies were not stiff enough for the 20.
I will be putting my tracker back on the air next week while I motor to
work, play and home. You may see me although we do not have a good link
out of Delaware to the rest of the world. As my friend says "We live in a
technical and RF Black Hole".

Sam

On Sun, 15 Sep 1996, John L. Gafford wrote:

> I have a Garmin 20 engine tied to a Clement MIM Module per pinouts
> in documentayion for both units. It all seems to be working OK.
> The MIM checks out fine with MIC104.EXE software, and when tied to
> a transciever, the assembly put out beacons(correct BT), andan
> apparent GPS fix, but of strange format. i.e.,
> <call sign>,172515,V,,,,,,,150997,,?GPS FIX" The Garmin has been
> on for several hours, and should have acquired a fix, but the NMEA
> sentence doesn't look right to me. Any ideas, anyone? Is the
> Garmin 20 working properly? Any help will bw sincerely
> appreciated.
>
> John N5XAK
>
>
>

```
***************************************************************
Dr. Sam Guccione        Delaware Technical & Community College
302-741-2802            1832 North duPont Highway
ARS K3BY                Dover, DE  19901
***************************************************************
```

482. Re: [APRSSIG:4744] Compaq Lap Top Information

From: KD4EMI@aol.com
Date: Sun, 15 Sep 1996 16:41:57 -0400
To: aprssig@tapr.org
Message-ID: <960915164157_309011884@emout09.mail.aol.com>
Rendered body type: text/plain

Yes, Compaq supplies a disk that will allow changing of the CMOS.
That is the only way I know how...My compaq has no other access.

Mike
KD4EMI@AOL.COM

483. Re: [APRSSIG:4741] Comin' to Southern Cal (more)

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Sun, 15 Sep 1996 13:58:46 -0700
To: <aprssig@tapr.org>
Message-ID: <199609152101.OAA17602@mail1.deltanet.com>

Rendered body type: text/plain

```
There is a wealth of APRS in San Diego.  Bring your gear.
There are also gates back to east on HF gateways.

Have a great trip.

KM6YH

----------
> From: rwf <rwf@mindspring.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4741] Comin' to Southern Cal (more)
> Date: Sunday, September 15, 1996 5:40 AM
>
> Sorry for the additional message, but I left out an important part:  I
will
> be arriving in San Diego on the 5th, then staying 5 days and either going
> home or th the LA area.Thanks, Ken for pointing that out.
>
> Ralph
>
>
>
>
```

---

484. Re: [APRSSIG:4756] Re: Mentor Page

From: William Nolle <wa8inz@cris.com>
Date: Sun, 15 Sep 1996 17:40:24 -0700
To: aprssig@tapr.org
Message-ID: <323CA1F8.BDB@cris.com>
Rendered body type: text/plain

```
john w dent wrote:
>
> your web page ig great ...
> put me on your list
> JOHN
> WA4MEJ
> wa4mej@juno.com

Great John but i need to know for what area of the contry or state you
are able to help with. I don't know if you have internet access other
then Juno, so i don't know if you see the web site or not?. But that's
one thing i need to know.
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

485. Re: [APRSSIG:4758] Re: Compaq Lap Top Information

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sun, 15 Sep 1996 18:47:49 -0500
To: aprssig@tapr.org
Message-ID: <323C95A5.585F@web-access.net>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> Yes, Compaq supplies a disk that will allow changing of the CMOS.
> That is the only way I know how...My compaq has no other access.
>
> Mike
> KD4EMI@AOL.COM

HP's early Vectra PC were that way, too.  We stopped using them about 5
years ago.

Dale Seaburg.
dseaburg@web-access.net
```

---

486. subscribe

From: Don Pendry <dpendry@mail.telis.org>
Date: Sun, 15 Sep 1996 17:14:57 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960915235750.25df1618@mail.telis.org>
Rendered body type: text/plain

subscribe
Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California 92252
dpendry@telis.org

---

487. RE: GATE,WIDE,WIDE,WIDE

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 15 Sep 1996 21:27:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960915212525.20615A-100000@laraby.tiac.net>
Rendered body type: text/plain

As mentioned before, I see MOST stations coming thru my local GATE with
three WIDE's in their path.

Could it be that the local WIDE is adding an extra WIDE to each path when
it digipeats onto VHF?

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

488. Re: [APRSSIG:4744] Compaq Lap Top Information

From: rwf <rwf@mindspring.com>
Date: Mon, 16 Sep 1996 00:08:48 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960916040848.006f0a3c@mindspring.com>
Rendered body type: text/plain

On my Compaq, I always hit F10 after it beeped during the boot sequence.

At 09:30 AM 9/15/96 -0500, Carl wrote:

>The Compaq must use some type of proprietary keyboard command in order to
>get in to the CMOS. The conventional DEL during boot is not working?
>

---

489. N9KRG and CAP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 01:02:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916010044.16498A-100000@arctic>
Rendered body type: text/plain

Got a reg for N9KRG with lat/long of Chicago area, but no city name.
Anyway, his CAP call RDFOX48 V# is awating a mailing address

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

490. ARRL COnv in Peoria

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 01:11:58 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916010232.16498B-100000@arctic>
Rendered body type: text/plain

It was a great hamfest tho a little un-crowded. The NIAN group from
CHicago was there in quite a few numbers and we had a great little dinner
and chat. Keith Sproul representing Mac and Win APRS and I were there.

During a DF replay, I noticed how much better the DF bearing lines would
look if their length got shorter as the DF chaser got closer to the FOX.
We discussed it and I will implement a RANGE digit in the DF report that
is proportional to the Map scale that the oriinator is on when he makes
the report. Presumably he will be zoooming in as he gets closer and this
will make the bearing line shorter... I think this is a neat idea.

Currently the DF bearing is BBB/N0Q. The 0 was just a placeholder all

along (clairvoiance?) Anyway, I will change the DF format to make
that digit represent RANGE as the 2-to-the-Rth power.
That will handle ranges between 1 and 512 miles....

I have 200 messages to plow through, so it will take me some time to
respond...

Again, good job to the NIAN group in CHicago, they seem well organized and
were very supportive and operated an APRS booth during the whole show....

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

491. Map Making Problem

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 16 Sep 1996 06:09:03
To: aprssig@tapr.org
Message-ID: <199609161009.GAA23611@mail-e2b-service.gnn.com>
Rendered body type: text/plain

Hi All,

     I'm trying to make a series of nine 8-mile maps and 36
2-mile street-level maps of the New York City area as shown:

```
               8-mile maps
    __________________________________
    |          |          |          |
    |    NW    |    NN    |    NE    |
    |          |          |          |
    |__________|__________|__________|
    |          |          |          |
    |    WW    |    CC    |    EE    |
    |          |          |          |
    |__________|__________|__________|
    |          |          |          |
    |    SW    |    SS    |    SE    |
    |          |          |          |
    |__________|__________|__________|

               /          \
              /            \
             /              \
            /                \
           /                  \
          /                    \
         /                      \
        /                        \
                2-mile maps
        __________________________
        |            |           |
        |            |           |
        |     NW     |    NE     |
        |            |           |
        |____________|___________|
        |            |           |
        |            |           |
        |     SW     |    SE     |
        |            |           |
        |____________|___________|
```

which is pretty standard APRS mapmaking procedure for urban
areas.

     I'm getting as far as making the "CC" map of the 8-miler,
which has about 3300-odd points (I'm using the 8- range...less
than default detail.) The map gets drawn then, a fraction of a
second after it starts chaining segments I get the following
lovely message:

     Subscript out of range in line No line number in module
MK100K3 at address 08F5:1ADD

Hit any key to return to system

which gets to be awfully tired after seeing it time and time a-
gain, trying to simplify things for the machine by running the
MK100K3 in a "DOS Window," going from the 8+ range to 8 and
down to 8-, running MEMMAKER to get more lower memory to play

with and banging my head against the wall to shake loose the
cobwebs! I am reminded of the QSL card I once got picturing a
computer on a desk displaying the "Hit any key..." message and
the operator standing over it with a sledgehammer poised to go!

I've unzipped all of the road & hydro files of the desired
quads from the selected areas AND their abutting quads. The
computers in question (I've tried it on both) are a DX2/50 with
12 Mb of RAM and a Pentium 75 with 8Mb of EDO RAM.

What does this message mean? How can I avoid it? What am
I doing wrong?! 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.

---

492. Re: [APRSSIG:4764] Re: Compaq Lap Top Information

From: carlt@icanect.net (carl taylor)
Date: Mon, 16 Sep 1996 06:24:16 -0400
To: aprssig@tapr.org
Message-ID: <199609161024.GAA08683@foo.icanect.net>
Rendered body type: text/plain

>On my Compaq, I always hit F10 after it beeped during the boot sequence.
>>
>At 09:30 AM 9/15/96 -0500, Carl wrote:
>
>>The Compaq must use some type of proprietary keyboard command in order to
>>get in to the CMOS. The conventional DEL during boot is not working?
>>
A coupla folks told me abouut a settup disk from Compaq.. I got it from
their internet site.. I did not access the " comfifo 1" command which the
aprs readme spoke about...

The strange thing is that other comm programs (telix,etc.) will talk to the
tnc, but aprs just locks up when it trys to iniciate the tnc..I have gone
over the system initapr file and can not find anything out of line....

I realy need someone with a bright idea.. This has gone one for a week and
untold hours now... It did work until 2 weeks ago..Reinstalled aprs and
everrything else i can think of...

Carl - W9ZGU

---

493. Re: Mentor Page

From: wa4mej@juno.com (john w dent)
Date: Mon, 16 Sep 1996 07:41:13 PST
To: aprssig@tapr.org
Message-ID: <19960916.074116.7527.0.wa4mej@juno.com>
Rendered body type: text/plain

shame on me i am in north east fla aprox 40 m nw of jacksonville just
north of the town of hilliard fl   lat/lon is 30 46 56 n /081 55 22 w
On Sun, 15 Sep 1996 17:46:19 -0500 (CDT) William Nolle <wa8inz@cris.com>
writes:
>john w dent wrote:
>>
>> your web page ig great ...
>> put me on your list
>> JOHN
>> WA4MEJ
>> wa4mej@juno.com
>
>Great John but i need to know for what area of the contry or state you
>
>are able to help with. I don't know if you have internet access other
>then Juno, so i don't know if you see the web site or not?. But that's
>
>one thing i need to know.

```
>--
>                \////
>                (0 0)
>           *--o0-(_)-0o--*
>           wa8inz@amsat.org
>           wa8inz@cris.com
>     Check out my A.P.R.S Web Page.
>   THANKS TO THOSE MENTOR VOLENTEERS
>  Also check out my WA8INZ Home page.
>
>   http://www.concentric.net/~wa8inz
>
>
```

---

494. Re: [APRSSIG:4744] Compaq Lap Top Information

From: rsellers@firecraker.com (Roger Sellers)
Date: Mon, 16 Sep 1996 07:21:11 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609161221.HAA29901@tapr.org>
Rendered body type: text/plain

```
Try  CTRL  ALT ESC at the same time. That works in many cases.

73,

>
> I read in the READ.ME file of APRS that Compaq Lap Tops that have the new
>UART Chip may require a change to the Com FIFO 1 turned off. This setting I
>believe is in the CMOS.
>
>The Compaq must use some type of proprietary keyboard command in order to
>get in to the CMOS. The conventional DEL during boot is not working?
>
>Can anyone offer any suggestions?  We are very close to testing out a new
>hardware device with APRS that will allow it to work with 1 com port.
>
>
>73, Carl W9GZU
>
>
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

495. Re: [APRSSIG:4700] Re: RELAY on hf

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 09:46:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916094455.20963C-100000@arctic>
Rendered body type: text/plain

```
On Fri, 13 Sep 1996, Paul Moller wrote:

> The default alias for a digipeat on hf is "RELAY". I would say that putting
> RELAY in an hf path without a VERY good reason is a good way to clog the hf
> channel even more than it is.

APRSdos REPLY/COMMENT:  The default path for APRSdos is NONE and the
MYAlias is ECHO.  If stations do not hit CONTROLS-BANDS-HF to tell APRS
they are on HF, however, then APRS does not know it and assumes the
station is on VHF so uses RELAY...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

496. Re: [APRSSIG:4752] Re: Washington State!

From: schiers@ames.net
Date: Mon, 16 Sep 96 13:56:44 -0500
To: aprssig@tapr.org
Message-ID: <199609161411.JAA04251@tapr.org>
Rendered body type: text/plain

```
In <802037@bbs.ames.net>, on 09/15/96 at 01:33 PM,
   aprssig@tapr.org said:

W7FEN said:

>I am not on 30 meters right now - computer problem.

Gervie, I miss seeing you on my map here in Iowa. You
were a very good propagation indicator for several
months.

I routinely show nearly 200 stations during a day, and
```

with a 12 hour "cleanup" setting, usually the number
varies between 85 and 130 stations showing up all the
time. This is on 30m, where I am running 250w to a 10
el log periodic at 72', 24 hours per day, 7 days per
week, except for brief outages for the Saturday morning
SSTV net.

I would be interested in hearing from other sig members
regarding how well/often they are seeing my station.

It operates as a wx station (U-2000) and gateway to
145.79 and has path coverage as far south (via wides)
as Kansas City, Mo. 73,

hasan schiers, N0AN
----
schiers@ames.net
----

497. APRS/HSP "Be Prepared"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 10:26:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916101807.20963J-100000@arctic>
Rendered body type: text/plain

In preparing for my trip to Peoria (fly in and rental car) I was going to
be using a different combination of GPS/TNC and laptop. It would be risky
to depend on my HSP adapter untested with this combination.

APRS RECOMMENDATION: Everyone with a GPS should add this little GIZMO
to their bag of tricks so they can operate GPS mobile with ANY TNC, any
GPS and any LAPTOP. An SPDT switch ALWAYS works. Use a push putton to
normally pass the TNC data to the PC. WHen you push it, the GPS data is
switched in. SImply wire a back to back DB-9 with a GPS connection and a
3 foot wire to the hand held push button and a GPS connector. Put APRS in
SPM mode.

Whenever you want a posit, push and hold the button for 2 seconds.
Perfect for marking intersections or landmarks too... Nice to have in
emergencies when you may be using a strange laptop, or GPS, or TNC...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

498. Re: [APRSSIG:4772] Re: Washington State!

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 16 Sep 1996 08:29:30 -0600
To: aprssig@tapr.org
Message-ID: <323D644A.633D@slkc.uswest.net>
Rendered body type: text/plain

schiers@ames.net wrote:
>
> In <802037@bbs.ames.net>, on 09/15/96 at 01:33 PM,
>   aprssig@tapr.org said:
>
> W7FEN said:
>
> >I am not on 30 meters right now - computer problem.
>
> Gervie, I miss seeing you on my map here in Iowa. You
> were a very good propagation indicator for several
> months.
>
> I routinely show nearly 200 stations during a day, and
> with a 12 hour "cleanup" setting, usually the number
> varies between 85 and 130 stations showing up all the
> time. This is on 30m, where I am running 250w to a 10
> el log periodic at 72', 24 hours per day, 7 days per
> week, except for brief outages for the Saturday morning
> SSTV net.
>
> I would be interested in hearing from other sig members
> regarding how well/often they are seeing my station.
>
> It operates as a wx station (U-2000) and gateway to
> 145.79 and has path coverage as far south (via wides)
> as Kansas City, Mo. 73,

```
>
> hasan schiers, N0AN
> ------------------------------------------------------------
> schiers@ames.net
> ------------------------------------------------------------

Hasan, you are almost always the first one I see when the sun comes up,
and the last one to fade at night.

Doug
KC7CO
Salt Lake City
```

---

499. Re: [APRSSIG:4718] Re: aprs vs ragchewing

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 10:35:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916103202.20963M-100000@arctic>
Rendered body type: text/plain

```
On Sat, 14 Sep 1996, Arte Booten asked for details on how to do these APRS
message techniques:

> >2) Knowing how to select dual paths for your data.

*** Use OPS-DIGI-ALT and select your alternate path and percentage to use.
>
> >6) Learning how to bundle multiple messages along the same
> >path so that you are not delayed waiting for APRS to change paths.

APRSdos REPLY/COMMENT: If you have many messages to send to different
stations, try to bunch them together.  IE: Enter all the messages to the
northbound route first, then enter all the messages to the southbound
group, then enter messages to the west group.  THis way APRS only has to
switch paths three times instead of back and forth between every message.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

500. Re: [APRSSIG:4722] new user (me)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 10:44:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916104108.20963O-100000@arctic>
Rendered body type: text/plain

```
On Sat, 14 Sep 1996, John Lakeland wrote:

> 1.  I can't seem to save a map zoom alias, which I read about in one of the
> docs. Is this possible in my version?

*** Just hit MAPS-SAVE and then any of the map HOT keys 3,5,7 or 9.
Then you can instantly go back to that map by hitting just the numeral
key.  Be sure to ALT-S-SAVE if you want to permanently keep those keys.

> What happens to my signal. Eg. I send via "wide,wide". All digi's who
> hear me repeat my signal (stripping one wide?). All digi's who hear the
> repeat, repeat again (stripping the second wide?)

*** CORRECT
>
>     Well, I think this software is worth enhancing. I know that the guys
> who write the code are loaded to the max and docs are hard to do on top of
> what they already do, particularly docs that answer every newbie question,
> like the 6 inch thick books Microsoft writes for a simple word processor.

APRSdos REPLY/COMMENT:  I just saw a 2 INCH full notebook at the Peoria
Hamfest where someone had printed out ALL of the APRS README files.  I had
no idea it was so thick.  See the APRS.txt and HELP.txt files.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

501. Re: [APRSSIG:4746] Re: No. CA APRS activity

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 11:26:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916112501.20963R-100000@arctic>

Rendered body type: text/plain

On Sun, 15 Sep 1996, Peter A Gross wrote:

> I think that all networks that are not on the recognized standard freq of
> 145.79 ought to inform the software authors to create a text file with
> that info.

APRSdos REPLY/COMMENT: There are two places that discribe networks all over the country. Just load or replay DIGIS-W, or E or SE and the freq of each digipeater is shown if not 79... Or load/play FREQS-USA.bk

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

502. New WIDE-RELAY in Harrisburg PA

From: Mark Humphrey <mark@y100.com>
Date: Mon, 16 Sep 1996 11:13:17 -0400
To: aprssig@tapr.org
Message-ID: <323D6E8D.106@y100.com>
Rendered body type: text/plain

There is a new WIDE-RELAY digi now operating on Blue Mountain, about 6 miles NW of Harrisburg, PA, using the call N2CHV-2. This site is 650' AAT and offers very good coverage of the Harrisburg/Carlisle area (Dauphin and Cumberland Counties) including the following major highways:

I-76 (PA Turnpike) west to Blue Mountain Tunnel
I-81 and US 11 south to Chambersburg, PA
I-83 south to York
US 15 south to Gettysburg
PA 283 southeast to Elizabethtown

There is some coverage in Perry County on US 11/15 north of Harrisburg, but this is limited by terrain. The eastern coverage overlaps slightly with N2CHV-3 on Eagle's Peak which is 43 miles to the east (near the junction of Lebanon, Lancaster and Berks counties).

I hope to have a remote WX station installed at the site within a few weeks, thanks to Gary, N3HCP who is donating a Ultimeter-II.

I look forward to your signal reports -- please send to mark@y100.com or N2CHV@WB3JOE.

73, Mark Humphrey N2CHV

---

503. Re: [APRSSIG:4738] Comin' to Southern California

From: "Randy Hammock" <hammock@wired.jpl.nasa.gov>
Date: Mon, 16 Sep 1996 08:53:59 -0700
To: aprssig@tapr.org
Message-ID: <9609160853.ZM14857@wired.jpl.nasa.gov>
Rendered body type: text/plain

On Sep 14, 11:15pm, rwf wrote:
> Subject: [APRSSIG:4738] Comin' to Southern California
> I'll be heading to SOCAL next month for a business conference. Arrival
> date is Saturday October 5th at about noon. I am supposed to head back to
> Atlanta on Friday morning the 11th.
>
> I *may* stay a few days extra (if I fly the family out) and travel up as far
> as the LA/San Bern/Valencia area. (I have a friend who lives on the Mtn at
> Crestline)
>
> What kind of activity on APRS can I expect, and on what frequency. Should I
> bother to bring it? If you have any info, or want to schedule an eyeball or
> other get together, please respond.
>
> Thanks
>
>
>
>
> Ralph Fowler, N4NEQ S.E.R.A. ATV Technical
> Advisor
> rwf@mindspring.com
> Atlanta, GA USA
> Web: http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and
> Ham info

```
> My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
> me how!
>-- End of excerpt from rwf

Ralph,

Seems spotty.  Where I am located, Pasadena area, APRS seems pretty active;
however, when I go over into the Northern part of the San Fernando Valley, the
activity drops off drastically.  I don't have APRS running, I just run a
tracker but audibly monitor the channel.

I'm just getting back into the swing of things here.  I just moved back into
the area from Colmbia, MD.



--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
EMail: hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

---

504. Re:[APRSSIG:4768] Re: Compaq Lap Top Information

From: cougercat@smtp.prostar.com
Date: Mon, 16 Sep 96 09:14:54 PDT
To: aprssig@tapr.org
Message-ID: <199609161617.LAA08735@tapr.org>
Rendered body type: text/plain

```
A> >On my Compaq, I always hit F10 after it beeped during the boot sequence.
A> >>
A> >At 09:30 AM 9/15/96 -0500, Carl wrote:
A> >
A> >>The Compaq must use some type of proprietary keyboard command in order to
A> >>get in to the CMOS. The conventional DEL during boot is not working?
A> >>
A> A coupla folks told me abouut a settup disk from Compaq.. I got it from
A> their internet site.. I did not access the "  comfifo 1" command which the
A> aprs readme spoke about...
A>
A> The strange thing is that other comm programs (telix,etc.) will talk to the
A> tnc, but aprs just locks up when it trys to iniciate the tnc..I have gone
A> over the system initapr file and can not find anything out of line....
A>
A> I realy need someone with a bright idea.. This has gone  one for a week and
A> untold hours now... It did work until 2 weeks ago..Reinstalled aprs and
A> everrything else i can think of...
A>
A> Carl - W9ZGU
A>

Hi Carl;

  When you find out what it is, Please let us (me) know as I'm having the
same problem.  I have put an extra 2 megs of ram into my compac but have to
hit F1 each time I boot up otherwise the little monster will not run.  Any
suggestions out there would be appreciated.

Thanks

Jeff - WB7AHT

                   *******************************************
                   * mail from Jeff -  cougercat@prostar.com *
                   *******************************************
```

---

505. Re: [APRSSIG:4763] RE: GATE,WIDE,WIDE,WIDE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 12:27:35 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916113723.20963W-100000@arctic>
Rendered body type: text/plain

```
On Sun, 15 Sep 1996, Richard Amirault wrote:
> I see MOST stations coming thru my local GATE with three WIDE's

APRSdos REPLY/COMMENT:  I just looked at my DIGI page on HF (hadnt done
that in months!) and he is right!   Over 50% of the paths are
inappropriate.   20% of them are BADNEWS, and 20% are meaningless and go
```

```
no-where...

RULE:  There should never be more than ONE WIDE after a GATE.  Yes you can
go more hops (if absolutely necessary), but you must use a specific call
beyond the first WIDE otherwise you clearly do NOT have a specific
purpose.

VHF stations should not be routinely beaconing via a VHF GATE onto HF.
I see over two dozen!  Is OK for special, or for single packets, but not
as a rule!

We need the HF stations to try to educate these newcommers.  PLEASE be
courteous. These are new users who simply dont understand. Take the time
to send them a polite message offering to help explain the best pahts to
use and the ones to be absolutely avoided...

BE NICE!!!!  Also BE SURE TO CHECK THE HEARD LOG!  Do NOT jump on someone

for a one time mistake or a one time special event...

We must do this, or HF10151 will become useless...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

506. Balloon launch 21 Sept!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 12:44:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916123906.20963c-100000@arctic>
Rendered body type: text/plain

```
1. Pre-launch check in 7 am CDT (Indianapolis time)
2. Launch time 7:45 am
3. Flight duration: approximately 3 hours
4. Camera video frequency: 439.25 MHz (vertical polarity)
5. Amateur voice repeater  FM receiver on 444.85 MHz and 52.525 MHz
   (6 meters is best). FM transmitter on 144.30 MHz (vertical polarity).
   Note: You need a ham license to transmit.
6. GPS and amateur packet data info: FM receiver on 446.0 MHz with
   packet TNC for 1200 BPS
7. Pre-launch CHECK IN frequency:  2m: 145.37/r, HF: 3871 kc

Web Page: http://klingon.sc.iupui.edu/~pacer/new_augusta/windtrax.html

SUBJECT: NAPA/WindTrax-10 Balloon Experiment FAQ
                          WINDTRAX-10
                                 Prime launch date: SAT 21-SEP-96

Flight Director: Chuck Crist, WB9IHS
Flight Sponsor:  New Augusta Public Academy

TIME:        1200-1300 UTC (0700-0800 AM Indy time)
LAUNCH SITE: 5 mi NW INDY

Pre-Launch Freq:
   Check-ins (HF) on 3870 +/- 1 kHz, local on 146.97(-)/R
   Nets will begin at 1130 UTC

Balloon Type: TA-1200 Weather Balloon
Flight Assembly: 70-ft long consisting of balloon, parachute,
   crossband repeater, GPS packet & ATV equipment all contained
   in separate starfoam boxes and connected by 1/8 inch nylon
   line.
   Total weight: approx 9 lbs.  ATV is heaviest at 4 3/4 lbs.

Flight Package Freqs:
   Crossband repeater: Down 444.85 & 52.525 MHz FM vertical
   polarization @ 50 & 100 mW Pout.  Up 144.3 MHz FM.
   GPS Packet: Down 446.0 MHz vert pol @ 750 mW Pout
   [transmitting GPS "gga" string].
   ATV: Down 439.25 MHz vert pol @ 1.5 W Pout.  [Cable Ch 65]
   Antennas: All are vertical polarization.

Climb Rate: Approximately 1000 feet per minute.
Max Altitude: Approximately 100,000 feet AGL.
Flight Duration: 2 1/2 - 3 hours.
Flight direction/distance: Approx E to SE of launch site &
   35-50 miles.
```

Flight packages:

Crossband Repeater by Paul W9DUU:
 2m rcvr to 6m & 70cm xmtrs, with voice ID & NiCad power supply. Antennas are 1/2 wavelength wire on top and bottom of self-contained and separate box.
GPS Packet by Chuck WB9IHS:
 Garmin GPS rcvr, controlled by PacCom packet TNC & downlinked on Tekk 70 cm xmtr. Self-contained separate box with lithium power system. Antennas are 1/4 wave on 70 cm & strip line 1.5 GHz GPS rcvr.
 Audio beeper is attached to outside of this box.
ATV by Terry KT9V:
 Two B&W CCD cameras plus WB8ELK color video IDer board and downlinked on WYMAN ATV xmtr via 1/4 wave vertical antenna. Self-contained in separate box with lithium power. CCS cams are aimed Horizon & Up views and controlled by solid state remote switching.

MISC:
1. Balloon fill is approx 290 cu ft of helium at surface.
2. Balloon dia approx 6 1/2 ft at surface & 18 ft dia at 100k ft.
3. Flight Assy recovery is by DF chase teams.
4. All Amateurs are welcome to participate.
5. Parachute is 4 1/2 ft dia by KB9BSV.

FAA DATA REQUIRED by FAR101:

1. BALLOON ID: WINDTRAX-X-96 WB9IHS
2. LAUNCH DATE: 21-SEP-96 (SATURDAY)
3. TIME: 1200-1300 UTC

4. LAUNCH SITE: New Augusta Academy, Indianapolis, IN
 Lat 39.866667 N, Lon 86.233333 W
 Elevation 800 ft MSL (244m)

5. CRUISING ALT: Max Altitude approx 100,000 feet

6. FORCASTED TRAJECTORY & EST CLIMB TO 60k FT:
 A. 50 miles SE of launch site, while climbing to 100k ft, then descending to surface by parachute.
 B. One hour to 60k ft & 90 minutes max altitude.

7. PHYSICAL DESCRIPTION: Balloon is 8 ft diameter weather balloon made by KAYMONT (same used by NWS). Entire flight assembly is 70 ft vertically in length and contains one balloon, one 6-ft parachute & three separate starfoam electronic experiment packages connected by a 1/8 inch nylon line.

8. TOTAL FLIGHT TIME: Three hours, Approx.

9. FORCASTED LANDING TIME & LOCATION:
 A. 1500-1600 UTC
 B. Approx 50-60 miles SE of launch site.

Web Page: http://klingon.sc.iupui.edu/~pacer/new_augusta/windtrax.html

---

507. Re: [APRSSIG:4778] New WIDE-RELAY in Harrisburg PA

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Sep 1996 12:49:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960916124535.20963d-100000@arctic>
Rendered body type: text/plain

On Mon, 16 Sep 1996, Mark Humphrey wrote:

> There is a new WIDE-RELAY digi now operating on Blue Mountain, about 6
> miles NW of Harrisburg, PA, using the call N2CHV-2. This site is 650'

APRSdos REPLY/COMMENT: Thanks for the good news! (I see it fine here in MD). THis balances the general bad news currently in our area:

 My APR-1 digi is down. Killing our area, and Gate
 The PAX River digi is down severing south maryland
 The Charlottsville DIGI is donw cutting off central VA

```
  WA4TSC-1 is down, killing northern VA.

Basically, from the biggest east coast net, we can now barely see anyone!
ARGH!!!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

508. Re: [APRSSIG:4772] Re: Washington State!

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 16 Sep 1996 12:04:55 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960916170455.006cd7a8@tbcnet.com>
Rendered body type: text/plain

```
At 09:22 9/16/96 -0500, you wrote:
>In <802037@bbs.ames.net>, on 09/15/96 at 01:33 PM,
>   aprssig@tapr.org said:
>

>
>I would be interested in hearing from other sig members
>regarding how well/often they are seeing my station.
>

copy ur station in dekalb il via wide,wide

jbl
------------------------------------------------------------------
J Barry Leonard/N9VJQ
DeKalb IL
E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
DR444 DR157
```

---

509. Re: [APRSSIG:4772] Re: Washington State!

From: RGervenack@aol.com
Date: Mon, 16 Sep 1996 13:55:36 -0400
To: aprssig@tapr.org
Message-ID: <960916135534_479856277@emout19.mail.aol.com>
Rendered body type: text/plain

```
Thank you for the report on my 30 meter 100 watt aprs signal to a HT-18
Hygain
Vertical.
Hoping to get a replacment computer soon.
Would like to meet you at the TAPR conference.

73, Gervie W7FEN
```

---

510. Re: RE: GATE,WIDE,WIDE,WIDE

From: Bill Northup <northup@sw.stratus.com>
Date: Mon, 16 Sep 1996 14:50:50 -0400 (EDT)
To: aprssig@tapr.org
Cc: NORTHUP@sw.stratus.com
Message-ID: <199609161850.OAA06014@blackdog.sw.stratus.com>
Rendered body type: text/plain

```
>
> As mentioned before, I see MOST stations coming thru my local GATE with
> three WIDE's in their path.
>
> Could it be that the local WIDE is adding an extra WIDE to each path when
> it digipeats onto VHF?
>
> Richard Amirault              N1JDU           Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"
>
I was looking at this over the weekend and found 38 HF stations with
WIDE,WIDE,WIDE in there path. I also turned on my HF rig and the path was the
same there so it is NOT a local station adding a wide, it is how it is being
sent.

The other supprise is that many of the stations doing this are the long time
HF stations that are on this mail list so it is not a case of new users coming
along and making a mistake.

--
```

```
    Bill Northup, N1QPR         EMAIL n1qpr@amsat.org
                                QRP-NE #307
                                NorCal #1027
                                QRP-L  #356
```

---

511. Re: [APRSSIG:4740] Mentor Page

From: ku0g@sprynet.com (Jim Duncan)
Date: Mon, 16 Sep 1996 11:59:24 -0700
To: aprssig@tapr.org
Message-ID: <199609161859.LAA29555@m1.sprynet.com>
Rendered body type: text/plain

```
You may add me as mentor in Kansas City region.

73 de Jim, KU0G
ku0g@sprynet.com

EMail contacts ONLY.
```

---

512. Re: [APRSSIG:4773] APRS/HSP "Be Prepared"

From: ku0g@sprynet.com (Jim Duncan)
Date: Mon, 16 Sep 1996 12:08:41 -0700
To: aprssig@tapr.org
Message-ID: <199609161908.MAA01891@m1.sprynet.com>
Rendered body type: text/plain

```
>In preparing for my trip to Peoria (fly in and rental car) I was going to
>be using a different combination of GPS/TNC and laptop.  It would be risky
>to depend on my HSP adapter untested with this combination.
>
>APRS RECOMMENDATION:  Everyone with a GPS should add this little GIZMO
>to their bag of tricks so they can operate GPS mobile with ANY TNC, any
>GPS and any LAPTOP.  An SPDT switch ALWAYS works. Use a push putton to
>normally pass the TNC data to the PC.  WHen you push it, the GPS data is
>switched in.  SImply wire a back to back DB-9 with a GPS connection and a
>3 foot wire to the hand held push button and a GPS connector.  Put APRS in
>SPM mode.
>
>Whenever you want a posit, push and hold the button for 2 seconds.
>Perfect for marking intersections or landmarks too...  Nice to have in
>emergencies when you may be using a strange laptop, or GPS, or TNC...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>

The "little GIZMO" SPM Switch is available ready-to-run from Blackjack Antennas.
Cost is $20.00 plus $3.00 s/h.  Specify RS-232 connector types for both
laptop and TNC when ordering!  Allow 2 - 3 weeks for order processing....  I
have several of these units already built and ready for shipping....

73 de Jim, KU0G
ku0g@sprynet.com
```

---

513. Re: Balloon launch 21 Sept!

From: kb8pff@juno.com (John E Santmire)
Date: Mon, 16 Sep 1996 16:06:28 EDT
To: aprssig@tapr.org
Message-ID: <19960916.160126.4839.5.kb8pff@juno.com>
Rendered body type: text/plain

```
Anyone know why they don't use 145.79 freq. in Indianapolis?

They use the 145.79 freq in Illinois balloon launch!
Just wanted to know, I don't have 440!     "BUMBER"


On Mon, 16 Sep 1996 11:52:24 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>
>1. Pre-launch check in 7 am CDT (Indianapolis time)
>2. Launch time 7:45 am
>3. Flight duration: approximately 3 hours
>4. Camera video frequency: 439.25 MHz (vertical polarity)
>5. Amateur voice repeater  FM receiver on 444.85 MHz and 52.525 MHz
>   (6 meters is best). FM transmitter on 144.30 MHz (vertical
>polarity).
```

```
>   Note: You need a ham license to transmit.
>6. GPS and amateur packet data info: FM receiver on 446.0 MHz with
>   packet TNC for 1200 BPS
>7. Pre-launch CHECK IN frequency:  2m: 145.37/r, HF: 3871 kc
>
>Web Page: http://klingon.sc.iupui.edu/~pacer/new_augusta/windtrax.html
>
>SUBJECT: NAPA/WindTrax-10 Balloon Experiment FAQ
>                          WINDTRAX-10
>                                 Prime launch date: SAT 21-SEP-96
>
>Flight Director: Chuck Crist, WB9IHS
>Flight Sponsor:  New Augusta Public Academy
>
>TIME:        1200-1300 UTC (0700-0800 AM Indy time)
>LAUNCH SITE: 5 mi NW INDY
>
>Pre-Launch Freq:
>   Check-ins (HF) on 3870 +/- 1 kHz, local on 146.97(-)/R
>   Nets will begin at 1130 UTC
>
>Balloon Type: TA-1200 Weather Balloon
>Flight Assembly: 70-ft long consisting of balloon, parachute,
>   crossband repeater, GPS packet & ATV equipment all contained
>   in separate starfoam boxes and connected by 1/8 inch nylon
>   line.
>   Total weight: approx 9 lbs.  ATV is heaviest at 4 3/4 lbs.
>
>Flight Package Freqs:
>   Crossband repeater: Down 444.85 & 52.525 MHz FM vertical
>   polarization @ 50 & 100 mW Pout.  Up 144.3 MHz FM.
>   GPS Packet: Down 446.0 MHz vert pol @ 750 mW Pout
>   [transmitting GPS "gga" string].
>   ATV: Down 439.25 MHz vert pol @ 1.5 W Pout.  [Cable Ch 65]
>   Antennas: All are vertical polarization.
>
>Climb Rate: Approximately 1000 feet per minute.
>Max Altitude: Approximately 100,000 feet AGL.
>Flight Duration: 2 1/2 - 3 hours.
>Flight direction/distance: Approx E to SE of launch site &
>   35-50 miles.
>
>Flight packages:
>
>Crossband Repeater by Paul W9DUU:
>   2m rcvr to 6m & 70cm xmtrs, with voice ID & NiCad power supply.
>   Antennas are 1/2 wavelength wire on top and bottom of self-
>   contained and separate box.
>GPS Packet by Chuck WB9IHS:
>   Garmin GPS rcvr, controlled by PacCom packet TNC & downlinked
>   on Tekk 70 cm xmtr.  Self-contained separate box with lithium
>   power system.  Antennas are 1/4 wave on 70 cm & strip line
>   1.5 GHz GPS rcvr.
>   Audio beeper is attached to outside of this box.
>ATV by Terry KT9V:
>   Two B&W CCD cameras plus WB8ELK color video IDer board and
>   downlinked on WYMAN ATV xmtr via 1/4 wave vertical antenna.
>   Self-contained in separate box with lithium power.  CCS cams
>   are aimed Horizon & Up views and controlled by solid state
>   remote switching.
>
>MISC:
>1. Balloon fill is approx 290 cu ft of helium at surface.
>2. Balloon dia approx 6 1/2 ft at surface & 18 ft dia at 100k ft.
>3. Flight Assy recovery is by DF chase teams.
>4. All Amateurs are welcome to participate.
>5. Parachute is 4 1/2 ft dia by KB9BSV.
>
>FAA DATA REQUIRED by FAR101:
>
>1. BALLOON ID:     WINDTRAX-X-96 WB9IHS
>2. LAUNCH DATE:    21-SEP-96 (SATURDAY)
>3. TIME:           1200-1300 UTC
>
>4. LAUNCH SITE:    New Augusta Academy, Indianapolis, IN
>                   Lat 39.866667 N, Lon 86.233333 W
>                   Elevation 800 ft MSL (244m)
>
>5. CRUISING ALT:   Max Altitude approx 100,000 feet
```

```
>
>6. FORCASTED TRAJECTORY & EST CLIMB TO 60k FT:
>                A. 50 miles SE of launch site, while climbing
>                   to 100k ft, then descending to surface by
>                   parachute.
>                B. One hour to 60k ft & 90 minutes max altitude.
>
>7. PHYSICAL DESCRIPTION: Balloon is 8 ft diameter weather balloon
>                   made by KAYMONT (same used by NWS).  Entire
>                   flight assembly is 70 ft vertically in length
>                   and contains one balloon, one 6-ft parachute &
>                   three separate starfoam electronic experiment
>                   packages connected by a 1/8 inch nylon line.
>
>8. TOTAL FLIGHT TIME: Three hours, Approx.
>
>9. FORCASTED LANDING TIME & LOCATION:
>                A. 1500-1600 UTC
>                B. Approx 50-60 miles SE of launch site.
>
>
>Web Page: http://klingon.sc.iupui.edu/~pacer/new_augusta/windtrax.html
>
>
>
>
>
```

---

514. [APRSSIG:4755] Re: Garmin 20 and MIN Board

From: Terrance Kealey <tkealey@mdc.com>
Date: Mon, 16 Sep 1996 17:27:34 -0500
To: aprssig@tapr.org
Message-ID: <s23d8e49.029@mdc.com>
Rendered body type: text/plain

```
John,

>From the data you provided, it appears that you do not have valid GPS
data. The data shown is from the $GPRMC message and the receiver is
looking for satellites based on a time of 17:25:15 UTC on 15 Sep 1997.  I
have seen this type of data transmitted by my GPS-20/MIM when I my
antenna is shaded for more than 30 seconds.

Since your GPS is trying to acquire satellite that are probably not there,
you will need to either reinitialize your time and date (and probably your
position) or give the receiver more time to get a good position fix.  Also
make sure your antenna has an unobstructed view of the sky.

73s
Terry, KI0BF


>>> John L. Gafford <JohnLGaf@gnn.com> 09/15/96 01:45pm >>>
I have a Garmin 20 engine tied to a Clement MIM Module per pinouts  in
documentayion for both units.  It all seems to be working OK.  The MIM
checks out fine with MIC104.EXE software, and when tied to  a
transciever, the assembly put out beacons(correct BT), andan
apparent GPS fix, but of strange format. i.e.,
<call sign>,172515,V,,,,,,,150997,,?GPS FIX"  The Garmin has been  on
for several hours, and should have acquired a fix, but the NMEA
sentence doesn't look right to me.  Any ideas, anyone?  Is the  Garmin
20 working properly?  Any help will bw sincerely  appreciated.

John N5XAK
```

---

515. Re: [APRSSIG:4753] Re: Tracker symbol!

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 16 Sep 1996 18:37:46
To: aprssig@tapr.org
Message-ID: <199609162238.SAA21622@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
On Sun, 15 Sep 1996 Robert Winingham replied:

>>... I show up on the map as an Ambulance ...
>
>Bob has a list somewhere in the doc files of another way.

     When you use the I(nput)-M(y) command you are asked which
```

symbol you'd like to use immediately after you tell it your latitude & longitude.

Alternately, go to your root directory and look for a file called cfig##.apr (where ## is a number, probably 75b) and open this file with a text editor. The first line of this file will be your POSITion packet. The letter immediately to the right of the W (of West longitude) determines which symbol you'll be on the screen. For a key to which letter is which symbol, see "SYMBOLS.TXT" in the README folder included with all distributions of APRS. 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.

---

516. Poor Bob!

From: rwf <rwf@mindspring.com>
Date: Mon, 16 Sep 1996 19:10:42 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960916231042.006e6974@mindspring.com>
Rendered body type: text/plain

At 11:54 AM 9/16/96 -0500, the APRSmeister wrote:
>Basically, from the biggest east coast net, we can now barely see anyone!
>ARGH!!!

Guess GA, Ala, TN, SC, NC becomes the biggest contiguous APRS net, then!
<smirk>

---

517. Re: [APRSSIG:4774] Re: Washington State!

From: schiers@ames.net
Date: Mon, 16 Sep 96 23:43:16 -0500
To: aprssig@tapr.org
Message-ID: <199609162344.SAA23401@tapr.org>
Rendered body type: text/plain

In <802857@bbs.ames.net>, on 09/16/96 at 10:49 AM,
aprssig@tapr.org said:

>Hasan, you are almost always the first one I see when the sun comes up,
>and the last one to fade at night.

>Doug
>KC7CO
>Salt Lake City

Thanks for the report Doug. Nice to know things are working so well. Obviously being in the middle of the country on 30m favors a lot of propagation paths throughout the USA.

73,

hasan schiers, N0AN
----
schiers@ames.net

---

518. Re: [APRSSIG:4781] RE: GATE,WIDE,WIDE,WIDE

From: schiers@ames.net
Date: Mon, 16 Sep 96 23:37:22 -0500
To: aprssig@tapr.org
Message-ID: <199609162344.SAA23457@tapr.org>
Rendered body type: text/plain

In <803014@bbs.ames.net>, on 09/16/96 at 12:50 PM,
aprssig@tapr.org said:

>On Sun, 15 Sep 1996, Richard Amirault wrote:
>> I see MOST stations coming thru my local GATE with three WIDE's

>APRSdos REPLY/COMMENT: I just looked at my DIGI page on HF (hadnt done
>that in months!) and he is right! Over 50% of the paths are
>inappropriate. 20% of them are BADNEWS, and 20% are meaningless and go
>no-where...

```
>VHF stations should not be routinely beaconing via a VHF GATE onto HF.  I
>see over two dozen!  Is OK for special, or for single packets, but not
>as a rule!

I had some locals trying to do that a few months ago and thanks to the
firmware in the tnc, they were excluded from any digi'ing until they
complied with my path wishes. Worked perfectly. If your firmware  supports
it, you can prevent unwanted individual digi'ing...a great feature and
upsets no one...they didn't know what they were doing and as soon as they
read their mail (sometimes it took a week or two), they changed their digi
path away from gate'ing on to hf from vhf. At that point, I took their
call signs out of the digi exclude list and every one was happy.

>We need the HF stations to try to educate these newcommers.  PLEASE be
>courteous.

Absolutely...it will work.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

519. cd rom

From: KB2SRA@gnn.com (ANDREW MARHEFKA, JR.)
Date: Mon, 16 Sep 1996 19:53:58
To: aprssig@tapr.org
Message-ID: <199609162354.TAA26148@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Need help? No install instructions came with it.
Have opened a few files and directories.
Looking for an easier way to load this program.
Thank you.
   73 Andy.
```

---

520. Re: [APRSSIG:4791] Re: Tracker symbol!

From: Joe Agrelo <jagrelo@concentric.net>
Date: Mon, 16 Sep 1996 20:07:14 -0700
To: aprssig@tapr.org
Message-ID: <323E15E2.4435@concentric.net>
Rendered body type: text/plain

```
Arte Booten wrote:
>
> On Sun, 15 Sep 1996 Robert Winingham replied:
>
> >>... I show up on the map as an Ambulance ...
> >
> >Bob has a list somewhere in the doc files of another way.
>
>      When you use the I(nput)-M(y) command you are asked which
> symbol you'd like to use immediately after you tell it your la-
> titude & longitude.
>
>      Alternately, go to your root directory and look for a file
> called cfig##.apr (where ## is a number, probably 75b) and open
> this file with a text editor.  The first line of this file will
> be your POSITion packet.  The letter immediately to the right
> of the W (of West longitude) determines which symbol you'll be
> on the screen.  For a key to which letter is which symbol, see
> "SYMBOLS.TXT" in the README folder included with all distribu-
> tions of APRS.  73

I have it all figured out now, thanks!

And thanks to everyone who replied by personal mail. Problem solved!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
```

```
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

521. HF

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 16 Sep 1996 18:45:41 -0600
To: aprssig@tapr.org
Message-ID: <323DF4B5.15C4@slkc.uswest.net>
Rendered body type: text/plain

```
Is it my imagination, or is the 30m net split into two frequencies about
400 hz apart?  The west coast stations (and some others) appear to be on
10.1514 (I have a PK232), with everyone else on 10.1515.

How about if we all take the time to zero beat someone in the middle?
N0AN or KU0G perhaps?

Doug
KC7CO
```

---

522. Re: RELAY on hf

From: jimk@on-ramp.net
Date: Mon, 16 Sep 1996 22:04:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609170204.WAA19532@ee.net>
Rendered body type: text/plain

```
On Mon, 16 Sep 1996, Bob Bruninga wrote:

>APRSdos REPLY/COMMENT:  The default path for APRSdos is NONE and the
>MYAlias is ECHO.  If stations do not hit CONTROLS-BANDS-HF to tell APRS
>they are on HF, however, then APRS does not know it and assumes the
>station is on VHF so uses RELAY...

This *has not* been my experience. True, if you use "CONTROLS-BANDS-HF" to tell
APRS you are on HF, it does change MYAlias to ECHO, but in my experience APRS
defaults to the prior path used on VHF *unless* you manually change it yourself.
So in that respect, I can see how we are seeing all those RELAY and WIDE
stations direct on HF :-)

"SMOP" - Simply A Matter of Programming.

de KG8GE
```

---

523. Re: [APRSSIG:4724] AutoWx

From: etjm@ECUA.NET.ec (Ing Teodoro Jaramillo M.)
Date: Mon, 16 Sep 1996 20:14:26 -0500
To: aprssig@tapr.org
Message-ID: <9609170206.AA18690@ecua.net.ec>
Rendered body type: text/plain

```
Hello from  Ted  ,  tried to direct  your msg to a direct address.. but it
has been returned as   "unknown"  i assume i made the mistake on the
address... which now tht i see it it is sort of confusing for the
typing..... i see it as

1cb911@apex2000.net  with  numerals   one  ( 1)   but it  could also be

 lcb9ll@apex2000.net     with  letter ( l for lima) and  the sytem seems to
trhow it  as unknow.....

i need to  discuss and ask some questions on the   "AUTOWX SOFTWARE"
if you  do not mind...so  drop me a direct    e-mail  to

etjm@az,pro.ec

thanks  a lot indeed. apologize for the trouble...

Ted   HC5K

>
>The new version of AutoWx (supporting the new APRS wx beacon format)
>has been uploaded to the ftp site.
>
>The file, AW2K40A.ZIP can be found at the tapr/software_lib/upload
```

>directory until it is moved to the tapr/software_lib/weather
>directory.
>
>(AutoWx is a dedicated packet/weather program for logging weather values
>from Ultimeter home weather stations. It does NOT replace APRS but is used
>successfully with APRS in many areas.)
>
>Version 4x does not require a weather station to be attached.
>
>Please direct questions/comments about AutoWx via email to me - not the APRS
>SIG.
>
>
>

---

524. MindSpring not playing fair

From: w4wwq@juno.com (Peter J Lascell)
Date: Mon, 16 Sep 1996 21:43:54 PST
To: APRSSIG@tapr.org
Message-ID: <19960916.214414.5215.4.W4WWQ@juno.com>
Rendered body type: text/plain

WARNING!

Don't let MINDSPRING bill you for services you don't use.

I got a letter from them because the bought out PIPELINE (PSINet)
earlier this summer. They wanted to get my preferences before they set
up my new account at MindSpring because the PIPELINE account was
closing.

Whoa Wait a Minute!

My PIPELINE account was closed months ago during the trial period, and
there was never any billing, UNTIL TILL THIS CREDIT CARD CYCLE. Now I
am being billed for August 96 service.

Read the letter from MindSpring carefully. If you don't respond by
September 30, 1996, MindSpring will set default values for you and
assign what they want for a LOGON name.

This may not be directly APRS related, but a number of us on the SIG have
had PSINet/PIPELINE and are current MindSpring users. A word to the
wise.

I hope this won't affect too many, but I have knowledge that the same
rip-off story was mailed (and billed to credit cards) to others in my
own area here in Virginia.

Pete Lascell
W4WWQ

---

525. Re: [APRSSIG:4707] Solution to Intermod Problem

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 17 Sep 1996 06:44:59 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609170629.A13648-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I have been successfully using one of these since the Miami Hamfest.
Excellent.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Fri, 13 Sep 1996, Mark Humphrey wrote:

> I recall there was a thread going a few months ago about intermod problems, but haven't
> heard much about this lately. I picked up a PAR Electronics model VHFDN152 2 meter
> "Intermod Filter" last weekend at the FARfest in Gaithersburg, and want to report it
> fixed my intermod problem, especially on the 145.79 APRS frequency.
>
> My mobile rig is a Kenwood TM-733, which I chose due to dashboard space constraints.
> Although I'm generally happy with its features, the intermod rejection on 2 meters is
> poor. The "AIP" feature (which reduces the gain of the first RF stage) doesn't make
> much improvement.

```
>
> I use this rig frequently for mobile APRS, however I've had severe paging interference
> on 145.79 (although many other amateur 2m frequencies were clean).  Within a couple
> miles of most of the local commercial tower sites, the interference was so bad it would
> hold the DCD for several minutes and prevent my position packets from being sent.
> Further investigation explained why 145.79 was being hit so hard...
>
> Two of the "RC Paging" frequencies assigned to Radio Common Carriers in the Philadelphia
> metro (and most other cities) are 152.24 and 158.70.  When these frequencies mix in a
> receiver's front end, one of the third order intermod products is 145.78, just 10 kHz
> down from the APRS channel.
>
>                           (2 X 152.24) - 158.7 = 145.78
>
> Note that the deviation on the lower frequency is doubled, since its second harmonic is
> what actually mixes with the higher frequency to generate the product.  Assuming 5 kHz
> peak deviation from each paging transmitter, the effective deviation of the product is
> 15 kHz, which easily spills over to 145.79.  The "overdeviation" causes the modulation
> of the product to sound distorted and obnoxious, not to mention that paging signals are
> square waves to begin with.
>
> According to the curves, the PAR filter provides a deep notch (nearly -55 dB) at 152.4
> and appears to exceed 35 dB attenuation from 152.0 to 153.0 MHz.   That easily takes out
> the lower paging frequency and eliminates the intermod.  Below the notch at 145.79, the
> insertion loss is less than 0.3 dB, and even at the "worst-case" amateur frequency,
> 148.0, a loss of only 0.6 dB is claimed, which is comparable to most bandpass filters.
> The loss above the notch frequency is greater, about 4 dB at 160 MHz, but that still
> lets me listen to NOAA WX, the Broadcast RPU channels, etc.  Loss across the 440-450
> band is about 0.2 dB, and it will handle 50 watts without melting down.
>
> So if you're having paging intermod problems on 145.79, you might want to consider one
> of these.  I was skeptical until I tried it.  The manufacturer is PAR Electronics, 6869
> Bayshore Drive, Lantana FL 33462.
>
>       73, Mark Humphrey N2CHV
>           WPLY-FM Philadelphia
>
```

---

526. HF Paths?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Sep 1996 10:07:47 -0400 (EDT)
To: aprssig@tapr.org
Cc: gwyn@paccomm.com
Message-ID: <Pine.GSO.3.95.960917093315.23863A-100000@arctic>
Rendered body type: text/plain

```
CHecked HF paths today and of the 30 or so questionable baths, only one
was active and on the air.  So apparently all the rest were just mistakes
or one time tests.  The one was a mobile-9 in Kansas city using the
path of RELAY,WIDE,GATE,WIDE.   An OPS-REPLAY shows he has traveled more
than 60 miles so he is probably on a special trip and I HAVE NO PROBLEM
WITH HIS INTENT.  This is just a good eample to make some comments.

1) PACKET LENGTH.  Packet success is inversly proportional to length.  A
minimum posit takes about 50 bytes.  Each digi hop you add requires 7 more
bytes.  Using 4 hops will reduce your success rate by over 50% !

2) He needs to be informed that the final WIDE is accomplishing nothing

3) If he meant to use R,W,G,G,W, then his success rate is reduced by 70%

These reductions in success ARE AT EVERY HOP!

Another way of looking at it is that this packet is carrying 35 bytes of
position info, 15 bytes of overhead, and 35 bytes of digipeat info...

(Thats another reason for the WIDE-N algorithm!  WIDE-5 will only add
7 bytes to the packet, instead of 35!)

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

527. Re: [APRSSIG:4786] Re: RE: GATE,WIDE,WIDE,WIDE

From: schiers@ames.net
Date: Tue, 17 Sep 96 13:40:08 -0500
To: aprssig@tapr.org
Message-ID: <199609171407.JAA18015@tapr.org>
Rendered body type: text/plain

In <803943@bbs.ames.net>, on 09/17/96 at 08:12 AM,
   northup@sw.stratus.com said:

>>
>> In <803215@bbs.ames.net>, on 09/16/96 at 03:20 PM,
>>   aprssig@tapr.org said:
>>
>> >The other supprise is that many of the stations doing this are the long
>> >time HF stations that are on this mail list so it is not a case of new
>> >users coming along and making a mistake.
>>
>> I hope I'm not one of the "long time" stations on hf that you are
>> referring to. If so, please let me know. 73,
>>
>> hasan schiers, N0AN
>> ---
>> schiers@ames.net
>> ---
>>
>>

>Yup you are showing up as GATE,WIDE,WIDE,WIDE here.

>   Bill

Then something is seriously wrong somewhere. I just checked my unproto at both the software (program) and tnc level and my unproto path is set to GATE,WIDE on HF and WIDE,WIDE,WIDE on VHF. I also looked in my history file for all transmissions that I originate and all HF transmissions show GATE,WIDE.

Further, I examined my entire history file and NO ONE has digipeated thru me with a GATE in their unproto, so I am not gateing any vhf packets to hf.

How then, could I be showing up as GATE,WIDE,WIDE,WIDE as Bill noted above?

I am beginning to suspect that APRS is showing something that is not happening, or WinAPRS is lying to me about my packets. I have no indepedent way to monitor my hf packets to verify that what the program is set for and what the tnc is set for and what my outgoing screen is showing me is "accurate", but my gut feeling is that indeed all my hf packets are going out no more than GATE, WIDE as they leave my station.

So, Bob...or anyone else with an opinion...what is going on?

Keep in mind, someone on the list observed that "many long time hf stations who should know better are sending out gate,wide,wide,wide". I find that very hard to believe, unless there is a software anomoly causing it. Obviously, I know better, am set properly and yet Bill is convinced by what he sees on his screen that my packets are going out on hf GATE,WIDE,WIDE,WIDE.

(I'm not taking issue with you here, Bill...I am TOTALLY mystified, because Bob's recent message of yesterday said he was seeing the same thing and that it was all wrong.)

If I'm not doing it, and my users aren't even using a GATE command, where is this GATE,WIDE,WIDE,WIDE stuff coming from that seems to be attached to my call? (And the calls of many others, from the reports we are seeing on the SIG) 73,

hasan schiers, N0AN
----
schiers@ames.net
----

528. Re: [APRSSIG:4797] HF

From: n8chb@juno.com (Roger Breckon)
Date: Tue, 17 Sep 1996 14:46:15 PST
To: aprssig@tapr.org
Message-ID: <19960917.144619.6710.0.n8chb@juno.com>
Rendered body type: text/plain

On Mon, 16 Sep 1996 19:59:07 -0500 (CDT) Doug Wetzel
<dwetzel@slkc.uswest.net> writes:
>Is it my imagination, or is the 30m net split into two frequencies
>about

```
>400 hz apart?  The west coast stations (and some others) appear to be
>on
>10.1514 (I have a PK232), with everyone else on 10.1515.
>
>How about if we all take the time to zero beat someone in the middle?
>
>N0AN or KU0G perhaps?
>
>Doug
>KC7CO
>
>
==================================================================
I believe what you say is correct.
Here is a suggestion of how I have somewhat solved this problem.

Pick 3 hf stations in 3 different areas. I often use ( please excuse me
using
exact calls) VE2JOR, W7LUS, and KF0ZH
1. temporary set my path to one of them.
    a. VE2JOR, GATE
    b. send a beacon or Ping
    c. tune up freq until I get no return
    d. do same tuning down
    e. set my vfo between the two settings.

Thanks for the space on the ssig.


73

Roger n8chb
```

---

529. GATE,WIDE,WIDE,WIDE hallucinations?

From: schiers@ames.net
Date: Tue, 17 Sep 96 14:54:18 -0500
To: aprssig@tapr.org
Message-ID: <199609171512.KAA19637@tapr.org>
Rendered body type: text/plain

Methinks our software is hallucinating. After seeing comments about 30+
stations sending GATE,WIDE,WIDE,WIDE on HF, one of whom is supposed to be
me, I tried to verify what was going on. I am sorry to report, that I
can't verify that ANYONE is sending GATE,WIDE,WIDE, WIDE on HF.

Note excerpts below from yesterday's 595K history file:

(p1 refers to port 1 hf on an AEA DSP 2232)

```
p1 KF0ZH>W7LUS*>GATE>WIDE>APRS:@161533z4447.06N/09

p1 N0AN*>GATE>WIDE>APRSW:?APRS?
         ^^^^^^^^^^

p1 N0AN*>GATE>WIDE>APRSW:@161423z4158.25N/09333.36
         ^^^^^^^^^^

p1 VE2AW*>APRS:@161440z4533.24N/07314.02W-Gerr
p1 N0AN*>GATE>WIDE>APRSW:@161424z4158.25N/09333.36
p1 KB2LML*>APRS:@161426z4500.09N/07324.15W&[FN35ha
p1 KB2LML*>APRS:@081902/APRS 7.6d on line.
p1 W7LUS-14*>GATE>WIDE>APRS:@160330z Atl>home>Jasp
p1 KC4HCH*>ID:KC4HCH/R RELAY/D GATE/G KC4HCH-1/B
p1 N0AN*>GATE>WIDE>APRSW:?WX?
p1 N0AN*>GATE>WIDE>APRSW:@161426z4158.25N/09333.36
p1 N2CZF*>GATE>WIDE>APRS:@220128zhttp://www.magg.n
p1 W6PNC-7*>GATE>WIDE>APRS:A7RZW   :hey joh...r u
p1 N4WYK*>GATE>WIDE>APRS:@172134/APRS 7.6d on line
p1 N2CZF*>GATE>WIDE>APRS:@151427z2654.78N/08014.49
p1 VE3NEC*>GATE>WIDE>BEACON:/151719/4339.10N/07956
p1 VE2AW*>APRS:@161444z4533.24N/07314.02W-Gerry in
p1 W1ON-3*>W7LUS>GATE>WIDE>WIDE>APRS:!4230.27N/071

p1
N0AN*>GATE>WIDE>APRSW:@161502z4158.25N/09333.36W_060/001/T058/R000/P000/B0
         ^^^^^^^^^^
```

I searched an entire 595K history file for any packet containing:

```
GATE>WIDE>WIDE>WIDE     and got nothing.

I searched the entire file for WIDE,WIDE,WIDE on port 1 and got nothing.

I then searched for GATE>WIDE>WIDE  and got the following:

p1 W1ON-3*>W7LUS>GATE>WIDE>WIDE>APRS:!4230.27N/07114.43W&BOSTON GATEWAY
[30M< p1 W1ON-3>W7LUS*>GATE>WIDE>WIDE>APRS:BLN1     :PORT DEFINITIONS:
APRS [6=10.1 p1 W1ON-3>W7LUS*>GATE>WIDE>WIDE>APRS:BLN1     :PORT
DEFINITIONS: APRS [6=10.1 p1 W1ON-3>W7LUS*>GATE>WIDE>WIDE>APRS:BLN2
:STATs 6H>3V 1531 [47/hr] 3V>6H p1
W1ON-3*>W7LUS>GATE>WIDE>WIDE>APRS:!4230.27N/07114.43W&BOSTON GATEWAY [30M<

As you can see from the info excerpted from the file, the vast, vast
majority are set GATE>WIDE, which from what I have been told is correct.

So, if there REALLY are so many stations ACTUALLY sending out unproto

GATE,WIDE,WIDE,WIDE on hf....why don't they show up in a 595K history
file? This file has over 7000 lines of APRS packets and is from about a 36
hour period. Any ideas?

At this point, I don't believe I am sending out any HF packets
GATE,WIDE,WIDE, WIDE, despite what some people are seeing from their
software. I also doubt whether any significant number of others are doing
it either. One way or another, someone's software is lying to them, we are
misinterpreting what our software is showing us, or we have all been
infected by some brain softening virus ...

I hope we find out. If I am contributing to a mess, I wanna stop...but at
this point, I can't find any information that supports that assumption.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

530. Re: [APRSSIG:4803] Re: RE: GATE,WIDE,WIDE,WIDE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Sep 1996 11:55:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960917115107.23863N-100000@arctic>
Rendered body type: text/plain

```
On Tue, 17 Sep 1996 schiers@ames.net wrote:

> >> I hope I'm not one of the "long time" stations...
>
> >Yup you are showing up as GATE,WIDE,WIDE,WIDE here.
> >     Bill
>
> Then something is seriously wrong somewhere.

APRSdos REPLY/COMMENT:  No, I see N0AN as GATE,WIDE as expected.  I saw
lots of bad paths but I never saw any with G,W,W,W as discussed.  What
software are stations using when they are seeing others as G,W,W,W..?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

531. Re: [APRSSIG:4804] Re: HF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Sep 1996 11:58:56 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960917115633.23863O-100000@arctic>
Rendered body type: text/plain

```
On Tue, 17 Sep 1996, Roger Breckon wrote on how to zero beat HF stations.

> Pick 3 hf stations in 3 different areas. I often use ... VE2JOR...
> 1. temporary set my path to one of them.
>     a. VE2JOR, GATE
>     b. send a beacon or Ping
>     c. tune up freq until I get no return
>     d. do same tuning down
>     e. set my vfo between the two settings.
```

```
APRSdos REPLY/COMMENT:  Good suggestion, but please leave off the GATE.
Why have every one of your test packets repeated on every VHF network in
the country, hi hi

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

532. Help w/ commercial UHF radio

From: KSwaggart@aol.com
Date: Tue, 17 Sep 1996 12:53:44 -0400
To: aprssig@tapr.org
Message-ID: <960917125342_524391389@emout11.mail.aol.com>
Rendered body type: text/plain

```
Hi APRSers,

This is not directly related to APRS, but I don't know who else to ask.

 I have a bunch (about a dozen) Midland Model 70-530B UHF-FM commercial
radios I want to reprogram to the local 440 repeater freqs. They use a UV
erasable EPROM to set  the channels. I have access to a PROM programmer, and
am looking for the software or format to reprogram these things to the ham
freqs.

Anyone have any ideas, or to what ham newsgroup I should direct this question
to?

These things were free, so if they can't be reprogrammed I guess they end up
in the
dumpster, where they were originally headed!

Please reply directly to me at kswaggart@aol.com so as not to add more
non-APRS messages to the SIG (than I already have)!

73, de Ken, W7KKE
kswaggart@aol.com
```

---

533. Re: [APRSSIG:4807] Re: HF

From: Roger Breckon <n8chb@tir.com>
Date: Tue, 17 Sep 1996 17:05:34 +0100
To: aprssig@tapr.org
Message-ID: <323ECC4E.41D4@tir.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Tue, 17 Sep 1996, Roger Breckon wrote on how to zero beat HF stations.
>
> > Pick 3 hf stations in 3 different areas. I often use ... VE2JOR...
> > 1. temporary set my path to one of them.
> >     a. VE2JOR, GATE
> >     b. send a beacon or Ping
> >     c. tune up freq until I get no return
> >     d. do same tuning down
> >     e. set my vfo between the two settings.
>
> APRSdos REPLY/COMMENT:  Good suggestion, but please leave off the GATE.
> Why have every one of your test packets repeated on every VHF network in
> the country, hi hi
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
==========================================================

You are correct Bob,

I thought I needed GATE in there too but the CALL should be enough
to digipeat back.

Thanks,

Roger n8chb
```

---

534. MIC Encoder Velocity

From: Terrance Kealey <tkealey@mdc.com>
Date: Tue, 17 Sep 1996 12:31:14 -0500
To: aprssig@tapr.org
Message-ID: <s23e9a79.047@mdc.com>

Rendered body type: text/plain

```
I recently finished wiring the MIC Encoder circuitry into my MIM/GPS-20
box. The position, heading, and switch info appears to be accurate, but
I am getting extremely large velocities reported on the APRS display.
When I was stationary, the velocity was displayed as 140 knots and I
have seen speeds go as high as 250.  When I was driving at about 40
mph, the speed was displayed as 450.

I have seen this happen on versions 76d and 77b of APRS (the only
current versions I have).  When I was stationary, data output by the
GPS-20 indicated that velocity was 1.0 knots, 6 satellites were being
tracked, with a PDOP of 2.2. I am using the MIM 1.04 with MIC 1.01
software.

Data received at the home station was:
     KI0BF-5>S8TX4S-1/Vv.F* />

When I hooked the car icon, the following info was displayed:
   Pos:@142025/3848.43N/09018.42W>019/140/MIC/M2/In Service..

I was wondering if anyone else has seen this problem of large
velocities when using the MIC Encoder?

73s
Terry, KI0BF
```

---

535. Re: [APRSSIG:4810] MIC Encoder Velocity

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Sep 1996 15:14:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960917151008.6738C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 17 Sep 1996, Terrance Kealey wrote:

> I recently finished wiring the MIC Encoder circuitry into my MIM/GPS-20
> box. The position, heading, and switch info appears to be accurate, but
> I am getting extremely large velocities reported on the APRS display.
>
> Data received at the home station was:
>      KI0BF-5>S8TX4S-1/Vv.F* />
>
> When I hooked the car icon, the following info was displayed:
>    Pos:@142025/3848.43N/09018.42W>019/140/MIC/M2/In Service..

APRSdos REPLY/COMMENT:  ARGH!!!  Instead of a course of 019 and speed of
140 could you have been doing a course of 140 and a speed of 19?  The RMC
format is reversed from the APRS format.  and APRS is supposed to correct
for it.  Please confirm, and ill fix it in APRS version xxx... hi hi

Come to think of it, most of my testing has been done stationary!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

536. subscribe

From: Don Pendry <dpendry@mail.telis.org>
Date: Tue, 17 Sep 1996 12:09:36 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960917185216.1ab79456@mail.telis.org>
Rendered body type: text/plain

```
subscribe
Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California  92252
dpendry@telis.org
```

---

537. Re: [APRSSIG:4808] Help w/ commercial UHF radio

From: Bob Lorenzini <hwm@netcom.com>
Date: Tue, 17 Sep 1996 12:22:05 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960917121910.89B-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
If you are unable to locate the software, don't junk the radios. They
are well worth the small fee a commercial radio shop will charge to
```

program them.

Bob - wd6dod

---

538. Re: [APRSSIG:4752] Re: Washington State!

From: "Tom Devine" <epdkr@hurricane.net>
Date: Tue, 17 Sep 1996 14:08:54 -0700
To: <aprssig@tapr.org>
Message-ID: <199609172101.OAA21227@wind.hurricane.net>
Rendered body type: text/plain

In addition, there is an APRS HomePage. Right now the home page is located at:

http://hurricane.net/~epdkr/aprs.htm

This location will change as soon as I find the time to relocate it to my new
domain: www.eyephrase.com. This change may take a few days, so in the mean time please use the 1st address listed above!

During the first week or so of October, I will also be adding a KAM+ to the station
for cross band, i.e., 30m and 2 meter APRS. APRS on two meters in Seattle is
145.79. I have on occasion been monitoring this channel, but not much activity. Hope this changes with the addition of the KAM!

73! de Tom, KC7DRX & Debbie, KC7FYA

> From: RGervenack@aol.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:4752] Re: Washington State!
> Date: Sunday, September 15, 1996 11:15 AM
>
> There sure is. A couple new ones ever month, usually 145.79.
> There are 0ver 20 stations on my list.
> I am not on 30 meters right now - computer problem.
> Give us a shout on 2 meters and or land line i 206-788-1497.
> 73 Gervie, W7FEN.
>

---

539. Re: [APRSSIG:4803] Re: RE: GATE,WIDE,WIDE,WIDE

From: schiers@ames.net
Date: Tue, 17 Sep 96 21:29:20 -0500
To: aprssig@tapr.org
Message-ID: <199609172214.RAA03577@tapr.org>
Rendered body type: text/plain

In <804152@bbs.ames.net>, on 09/17/96 at 10:56 AM,
n8chb@tir.com said:

>I don't know but I am not seeing all the WIDE's that everyone is talking
>about, and your definatly not sending them.

>Could it be a program?

This reply to me is typical of about five I have received.

It is pretty apparent that I am NOT sending anything out on hf GATE,WIDE,WIDE,WIDE. All my packets are going out GATE,WIDE and that's it.

Bill...if you are still reading the sig, what software are you running that shows this path? Please post the relevant lines from a history file showing the problem.

Bob (apr) says he has seen NO GATE,WIDE,WIDE,WIDEs at all, but sees plenty of screwy paths. (And mine is NOT one of them).

Since you reported seeing mine weirded out, how 'bout posting the packet and letting us know what software you are using. It sure looks like a program bug at this point.

Several WinAPRS users have told me they don't see any such problem on me or anyone else. If you are running dosAPRS,

```
maybe that would be a starting point.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

540. Re: [APRSSIG:4783] Re: New WIDE-RELAY in Harrisburg PA

```
From: Arte Booten <N2ZRC@gnn.com>
Date: Tue, 17 Sep 1996 18:26:34
To: aprssig@tapr.org
Message-ID: <199609172226.SAA22952@mail-e2b-service.gnn.com>
Rendered body type: text/plain
```

```
On Mon, 16 Sep 1996 Bob Bruninga wrote:

>  My APR-1 digi is down.  Killing our area, and Gate
>  The PAX River digi is down severing south maryland
>  The Charlottsville DIGI is donw cutting off central VA
>  WA4TSC-1 is down, killing northern VA.
>
>Basically, from the biggest east coast net, we can now
> barely see anyone!

     Boy, tell us about it!  One of the key DIGI's in our area,
WA2JNF-4, is also down.  I usually fill up all six pages quick-
ly, but I'm lucky to get to four.  Sure hope these DIGIs'll be
up by the first weekend in October for my ROAD TRIP!  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.
```

---

541. Re: [APRSSIG:4813] Re: Help w/ commercial UHF radio

```
From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 17 Sep 1996 15:39:12 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960917153307.20372B-100000@spork.callamer.com>
Rendered body type: text/plain
```

```
There have been a number of comments regarding the Garmin 20 and the power
supply requirements needed.  I, too, have had a terrible time using most
home supplies even with large 2000 ufd caps on the output of the 5 volt
regulator.  Apparently, one must turn the unit on from a stiff five
volt supply, not necessarily turn on a supply in which a large capacitor
needs to be charged.  Can anyone confirm this?
     Another question of interest----is the five volts on the antenna lead
isolated to the input of the receiver at 1575 MHz?  In other words, can I
use a MMIC at the base of an antenna and expect the Garmin 20 to sort out
the DC from the RF signal? I suspect so!  Cliff Buttschardt  K7RR
```

---

542. Logo Page

```
From: William Nolle <wa8inz@cris.com>
Date: Tue, 17 Sep 1996 18:34:06 -0700
To: aprssig@tapr.org
Message-ID: <323F518E.1B2@cris.com>
Rendered body type: text/plain
```

```
For those of you that want an APRS logo I have added a page to my Web
site but it's just a standlone page (Cannot be accessed from the Main
APRS index page). The logo is in full color (JPG) format and can be used
for whatever you want to use it for Hi. All i ask that it will not be
used for Profit and is reflected so on the web page. The address is
below. I'm going to work on a couple more because there are those that
still want the packet instead of position reporting in the logo.

http://www.concentric.net/~wa8inz/LOGO.HTM
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
```

```
    Check out my A.P.R.S Web Page.
  THANKS TO THOSE MENTOR VOLENTEERS
 Also check out my WA8INZ Home page.

  http://www.concentric.net/~wa8inz
```

---

543. Re: Re: Balloon launch 21 Sept!

From: henryvb <henryvb@dpliv.com>
Date: Tue, 17 Sep 1996 18:08:17 -0500
To: aprssig@tapr.org
Cc: kb8pff@juno.com
Message-ID: <323F2F60.47DD@dpliv.com>
Rendered body type: text/plain

```
> Anyone know why they don't use 145.79 freq. in Indianapolis?
>
> They use the 145.79 freq in Illinois balloon launch!
> Just wanted to know, I don't have 440!     "BUMBER"

Probably because they are using a UHF TEKK data radio.  Sacrificial and
not too expensive.

Henry
```

---

544. Digest Mode

From: edwardwr@inil.com (edwardwr)
Date: Tue, 17 Sep 1996 19:12:25 -0500
To: aprssig@tapr.org
Message-ID: <19960918001224742.AAA188@edwardwr>
Rendered body type: text/plain

```
Anyone know the command syntax to subscribe in digest mode? "help" command
to listproc@tapr.org fails to show it.

73
Ed Rogers (Blackhorse 830)
N9LCI
S/V SAOIRSE
                            MESSAGE OF THE MONTH

   "For it's Tommy this and Tommy that and chuck him out the brute....
   but He's the savior of his country when the guns begin to shoot"

                                  Rudyard Kipling
```

---

545. APRS @ PCMCIA

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Tue, 17 Sep 1996 19:24:49 EDT
To: aprssig@tapr.org
Message-ID: <19960917.153244.4495.2.KC7LSP@juno.com>
Rendered body type: text/plain

```
Many of you out there reading thing this SIG must enjoy APRS, that much
is obvious.  But how many of you take your system out for mobile use on a
regular basis?  If you are not one of those people, is it because all the
different cords get in the way and make it too much of a hassle?

What about a PCMCIA TNC?  It seems to me that the time is long overdue
for such a device.  Think about it for a
second.... ONE cord between your laptop and radio, the TNC's power would
be supplied by the computer NOT an additional cord!  Talk about USEFUL!
This would eliminate the mess associated with mobile packet.

Now, those of you with a GPS could just use the spare RS-232 port for
that.  There would be no need for special adapters that create even more
tangled cords.

What would you like to see on an PCMCIA APRS compatible TNC?   Here are a
few of my ideas;

1) A telephone type 5 or six conductor cord with an X-Jack style plug.
2) APRS compatibility by using the laptops spare RS-232 port.
3) Able to directly address the laptops memory (RAM or HD) for expanded
maildrop capacity.

Also I would have them ship it with an extra "NEW INDUSTRY STANDARD" plug
to force all the radio manufacturers to install a simple jack on the
front or side of their new mobile radios for easy access.
Which radio manufacturer would NOT want to conform to ease of customer
```

```
use?

I think it's time we start a letter writing campaign to the TNC
manufacturers.  Tell them what we want!

Whoever comes out with one will sure sell a heck of a lot more of them
than the radio people with hundreds of different models to choose from!


73, Kevan


Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
----------------------------------------------------------------------
Cruise Missile Coordinates :    4631.17N/12255.10W
```

546. Re: [APRSSIG:4803] Re: RE: GATE,WIDE,WIDE,WIDE

From: Cap Pennell <cap@cruzio.com>
Date: Tue, 17 Sep 1996 18:08:43 -0700
To: aprssig@tapr.org
Message-ID: <323F4B9B.615C@cruzio.com>
Rendered body type: text/plain

```
schiers@ames.net wrote:
>
> In <803943@bbs.ames.net>, on 09/17/96 at 08:12 AM,
>    northup@sw.stratus.com said:
> >> In <803215@bbs.ames.net>, on 09/16/96 at 03:20 PM,
> >>    aprssig@tapr.org said:
> >> >The other supprise is that many of the stations doing this are the long
> >> >time HF stations that are on this mail list so it is not a case of new
> >> >users coming along and making a mistake.
> >>
> >> I hope I'm not one of the "long time" stations on hf that you are
> >> referring to. If so, please let me know. 73,
> >> hasan schiers, N0AN
> >> ------------------------------------------------------------
> >> schiers@ames.net
> >> ------------------------------------------------------------
> >Yup you are showing up as GATE,WIDE,WIDE,WIDE here.
> >       Bill
>
> Then something is seriously wrong somewhere. I just checked my unproto at
> both the software (program) and tnc level and my unproto path is set to
> GATE,WIDE on HF and WIDE,WIDE,WIDE on VHF.
 <SNIP!>

Maybe...? try using only 2 WIDEs on VHF?
<GRIN>
73.  Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com
packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
```

547. Re: [APRSSIG:4808] Help w/ commercial UHF radio

From: Glenn Little <glittle@awod.com>
Date: Tue, 17 Sep 1996 21:54:50 -0400
To: aprssig@tapr.org
Cc: glittle@awod.com
Message-ID: <199609180146.VAA06526@sumter.awod.com>
Rendered body type: text/plain

```
Do you know on what freq the radios are now on?

I can possiblely read the EPROM and determine how to set in the desired freqs.

73
Glenn Little


At 12:00 PM 9/17/96 -0500, you wrote:
>Hi APRSers,
>
>This is not directly related to APRS, but I don't know who else to ask.
>
> I have a bunch (about a dozen) Midland Model 70-530B UHF-FM commercial
```

>radios I want to reprogram to the local 440 repeater freqs. They use a UV
>erasable EPROM to set the channels. I have access to a PROM programmer, and
>am looking for the software or format to reprogram these things to the ham
>freqs.
>
>Anyone have any ideas, or to what ham newsgroup I should direct this question
>to?
>
>These things were free, so if they can't be reprogrammed I guess they end up
>in the
>dumpster, where they were originally headed!
>
>Please reply directly to me at kswaggart@aol.com so as not to add more
>non-APRS messages to the SIG (than I already have)!
>
>73, de Ken, W7KKE
>kswaggart@aol.com
>
>
>
Glenn Little
WB4UIV

---

548. Re: [APRSSIG:4821] APRS @ PCMCIA

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Tue, 17 Sep 1996 18:54:34 -0700
To: <aprssig@tapr.org>
Message-ID: <199609180157.SAA00802@mail1.deltanet.com>
Rendered body type: text/plain

This is such a good idea I am surprised that I didn't think of
it!!!!!!!!!!!!!!!!!!!!!
73, KM6YH

> From: Kevan J Coleman <kc7lsp@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4821] APRS @ PCMCIA
> Date: Tuesday, September 17, 1996 6:04 PM
>
> Many of you out there reading thing this SIG must enjoy APRS, that much
> is obvious. But how many of you take your system out for mobile use on a
> regular basis? If you are not one of those people, is it because all the
> different cords get in the way and make it too much of a hassle?
>
> What about a PCMCIA TNC? It seems to me that the time is long overdue
> for such a device. Think about it for a
> second.... ONE cord between your laptop and radio, the TNC's power would
> be supplied by the computer NOT an additional cord! Talk about USEFUL!
> This would eliminate the mess associated with mobile packet.
>
> Now, those of you with a GPS could just use the spare RS-232 port for
> that. There would be no need for special adapters that create even more
> tangled cords.
>
> What would you like to see on an PCMCIA APRS compatible TNC?   Here are a
> few of my ideas;
>
> 1) A telephone type 5 or six conductor cord with an X-Jack style plug.
> 2) APRS compatibility by using the laptops spare RS-232 port.
> 3) Able to directly address the laptops memory (RAM or HD) for expanded
> maildrop capacity.
>
> Also I would have them ship it with an extra "NEW INDUSTRY STANDARD" plug
> to force all the radio manufacturers to install a simple jack on the
> front or side of their new mobile radios for easy access.
> Which radio manufacturer would NOT want to conform to ease of customer
> use?
>
> I think it's time we start a letter writing campaign to the TNC
> manufacturers. Tell them what we want!
>
> Whoever comes out with one will sure sell a heck of a lot more of them
> than the radio people with hundreds of different models to choose from!
>
>
> 73, Kevan
>
>

```
> Postal   : 313 Cedar Court - Winlock, WA 98596-9777
> Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
> ---------------------------------------------------------------------
> Cruise Missile Coordinates :    4631.17N/12255.10W
>
```

---

549. Re: HF path

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Tue, 17 Sep 1996 21:51:42 -0400
To: <aprssig@tapr.org>
Message-ID: <199609180159.VAA15515@arthur.INS.CWRU.Edu>
Rendered body type: text/plain

```
Following the thread about the HF paths has made me more
paranoid than I already was.  I woulld appreciate it if anyone
determines a problem with my hf path (It has been set to, and
should be, "Gate,wide" on the hf side).   Split my time with
Win and DOS versions.  Thanks for the feedback (breakfast
of champions and oscillators!)
   73 de Joe
   AA8SF
  jbc5@po.cwru.edu
```

---

550. Re: [APRSSIG:4792] Poor Bob!

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 17 Sep 1996 21:53:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609180253.VAA12002@tapr.org>
Rendered body type: text/plain

```
>
>At 11:54 AM 9/16/96 -0500, the APRSmeister wrote:
>>Basically, from the biggest east coast net, we can now barely see anyone!
>>ARGH!!!
>
>Guess GA, Ala, TN, SC, NC  becomes the biggest contiguous APRS net, then!
><smirk>
>
>
>From where I sit at the top of Northern Illinois, we have a continuous
string of stations that included parts of: Kansas, Missouri, Iowa, Illinois,
Wisconsin, Indiana, and Michigan. On a good day with a band opening we can
even throw in Ohio or Minnisota.  The stations extend in a string for over
600 miles. Mind you this even without a band opening or any gateways. Lets
see, I count 7 for us to your 5  <grin>.
   Thanks to the net that NIAN and many others are putting together, from
Rockford, I can see K0UG move around in his mobile in Kansas City. And have
gotten acks to messages from Kansas to central michigan.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

551. Re: PCMCIA

From: rwf <rwf@mindspring.com>
Date: Tue, 17 Sep 1996 22:58:28 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960918025828.00709d10@mindspring.com>
Rendered body type: text/plain

```
Kevan-  Please take my comments with a grain of salt.
It is a good idea, and I have some comments based upon my dealings with
manufacturers of radios and TNCs.
Steve Dimse and I discussed my Mobile operations, and I think heagreed that
I am probably one of the most mobile APRSers (with laptop) that there are,
second to probably Peter W7LUS.  WA6RTX is mobile in his RV, but I mean
having the laptop going while driving.


At 08:04 PM 9/17/96 -0500, you wrote:
 is it because all the
>different cords get in the way and make it too much of a hassle?

This can be a problem, but I solve it by having 1 cord to my tracker/tnc
box, and the Pico-Packet and GPS out of the way, in the back.  Only cord I
```

have is 1 serial cable.

>What about a PCMCIA TNC?

Useful, and a good idea, but I see a limited market; therefore a *high* price. Also limited upgrade path unless it had a flash EPROM. Not much commercial market either as far as I can tell. Remember that a lot of the TNC Mfgrs *really* make TNCs for commercial markets, we hams are now a small business to them.

>Now, those of you with a GPS could just use the spare RS-232 port for
>that. There would be no need for special adapters that create even more
>tangled cords.

Still would have 2 cords, then VS my 1 cord. Also, wouldn't the serial card need TSR software to make it work? Possible memory conflicts w APRS.
>
>What would you like to see on an PCMCIA APRS compatible TNC? Here are a
>few of my ideas;
>
>1) A telephone type 5 or six conductor cord with an X-Jack style plug.
>2) APRS compatibility by using the laptops spare RS-232 port.
>3) Able to directly address the laptops memory (RAM or HD) for expanded
>maildrop capacity.

Nice features, but have you ever used an X jack. Flimsy piece of plastic that can break off easily. One tumble off the seat and good-bye TNC! (Whether or not the laptop survived)
>
>Also I would have them ship it with an extra "NEW INDUSTRY STANDARD" plug
>to force all the radio manufacturers to install a simple jack on the
>front or side of their new mobile radios for easy access.

Which new plug? A new, new one or the mini-DIN one that several Mfgrs are now using already?
I do wish all the new radios had the connector, though.

>Which radio manufacturer would NOT want to conform to ease of customer
>use?

If it is used in Japan, then we may see it here, but they don't make the things *we* want. They make what sells in Japan that can be adapted for here. Just ask Yaesu why they have no 220 gear that is newer than 8 years old!

>
>I think it's time we start a letter writing campaign to the TNC
>manufacturers. Tell them what we want!

Oh yes, we are such a *big* market. I'll bet they will be quaking! ;-|

Ralph Fowler, N4NEQ S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

552. Re: [APRSSIG:4817] Re: Help w/ commercial UHF radio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Sep 1996 23:28:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960917232726.3977C-100000@arctic>
Rendered body type: text/plain

On Tue, 17 Sep 1996, Clifford Buttschardt wrote:

> There have been a number of comments regarding the Garmin 20 and the power
> supply requirements needed. I, too, have had a terrible time using most
> home supplies even with large 2000 ufd caps on the output of the 5 volt
> regulator. Apparently, one must turn the unit on from a stiff five
> volt supply, not necessarily turn on a supply in which a large capacitor

> needs to be charged. Can anyone confirm this?

APRSdos REPLY/COMMENT: Yes. If you switch before the regulator, then
adding the CAP makes it worse. Try using an on-off switch at the input to
the GPS-20.... after the big CAP.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

553. RE:Balloon Launch

From: William Nolle <wa8inz@cris.com>
Date: Wed, 18 Sep 1996 01:20:28 -0700
To: aprssig@tapr.org
Message-ID: <323FB0CC.35BD@cris.com>
Rendered body type: text/plain

Edward M. Myszka Jr. wrote:

```
>
>                          Balloon Launch
>
> Date:           Sunday, September 22, 1996
>
> Time:           07:00 - 09:00 CST, most likely approximately 07:30 CST
>
> From:           The Old Huntsville Airport Grounds
>                 34 41' 15" North
>                 86 33' 35" West
>
> Maximum
> Altitude:       Above 75,000 feet
>
> Anticipated
> Landing Area:   Near Grant, Alabama
>                 34  31'  4" North
>                 86  14' 23" West
>
> Flight Profile: Two (2) hours Climb to Max Altitude
>                 One (1) hour Drift at Max Altitude
>                 Thirty (30) minute descent
>
> Amateur Radio
> Call Sign:      The ATV downlink will be identified by an automatic video overlay (approximately
>                 every six minutes) by the call sign: KE4ROC-11.  All packet transmissions from the
>                 balloon package will also be identified by the call sign: KE4ROC-11
>
> ATV:            One (1) watt, PC Electonics KPA5 70cm ATV Transmitter
>                 "Little Wheel" Horizontally Polarized Antenna
>                 434.00 mHz transmit frequency (Cable Ready TV Channel 59)
>                 Audio downlink will have microphone external to balloon package for experimentation
>
```

Most of the information about this launch I deleted because I didn't want to takeup that
much space here and be flamed for posting big messages like that so i will post the
info on Tapr as HSVBALL.TXT file. This is a very technical flight. Bill Brown will also be
involved with this flight.

```
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

554. Balloon Launch

From: William Nolle <wa8inz@cris.com>
Date: Wed, 18 Sep 1996 01:42:22 -0700
To: aprssig@tapr.org
Message-ID: <323FB5EE.4F66@cris.com>
Rendered body type: text/plain

I posted all the information about this balloon lauch on Tapr as
HSVBALL.TXT, sorry but the file is just to big to post here.
Keith Sproul NOTE, this is the information you wanted i believe, if
not it has addresses within the text file to get more info. Also to get

```
any updated info.
--
                \////
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
     Check out my A.P.R.S Web Page.
   THANKS TO THOSE MENTOR VOLENTEERS
  Also check out my WA8INZ Home page.

   http://www.concentric.net/~wa8inz
```

---

555. Re: PCMCIA

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Wed, 18 Sep 1996 04:43:18 EDT
To: aprssig@tapr.org
Message-ID: <19960918.014059.4495.2.KC7LSP@juno.com>
Rendered body type: text/plain

```
On Tue, 17 Sep 1996 22:14:13 -0500 (CDT) rwf <rwf@mindspring.com> writes:

>>What about a PCMCIA TNC?
>Useful, and a good idea, but I see a limited market; therefore a *high*
price.
I'm not so sure.  There are a million & one different HT's on the market,
there must be quite a few HAMS buying all of these vaired radios.  If
not, why would there be so many, and more on the way.  If a company could
sell only half the number of one single model HT, it would be a success.

> Also limited upgrade path unless it had a flash EPROM.
Not every consumer bothers with upgrades.

>Nice features, but have you ever used an X jack.  Flimsy piece of
plastic that can break off easily. One tumble off >the seat and good-bye
TNC!
Valid point.  I suppose some sort of strain relief could be integrated
into the design.

>Which new plug? A new, new one or the mini-DIN one that several Mfgrs
are now using already?
Sure, that would work.

>Oh yes, we are such a *big* market. I'll bet they will be quaking!
One never knows unless they try.  This might give a DOMESTIC company a
chance.  Who ever thought there would be a market for the original TNC's,
or personal GPS's?  Heck, if people buy worthless items like Pet Rocks,
I'm sure HAMS will spend money on a useful gadget, after all they buy a
lot of junk.

TNX for the reply.


Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
----------------------------------------------------------------------
Cruise Missile Coordinates :    4631.17N/12255.10W
```

---

556. PCMCIA TNC

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Wed, 18 Sep 1996 09:03:29 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBA540.49A8A660@gwyn.paccomm.com>
Rendered body type: text/plain

```
An interesting discussion going on about the merits of a PCMCIA TNC.

Not a new idea - I've been telling people that I'd like PacComm to do one
for several years - in conversations at such places as Digital Conferences,
TAPR meetings, etc.

Why have we not done one, then? Try to follow this logic path.

It should not be too difficult to build such a small TNC. PCMCIA 'supplies'
are readily available.

The TNC would need to be 1200 baud AFSK for amateur radio compatibility.

And above all it would have to be inexpensive (I know - we regularly get
```

berated for charging what we do for TNCs and radios - from people who have
no appreciation of the costs of running a business....)

but

To pay the development costs there needs to be a commercial market for the
product
and there would be only an insignificant commercial market for a 1200 baud
AFSK unit. (Although MARS, CAP, weather people, etc. can be a good
market...)

so

The unit would need to be switchable between 1200 AFSK and some other
speed/modulation.

but

That raises complexity and cost etc.

Enough of that to make my point.

I want to do it because it is a technical challenge, but have been trying
to avoid fun projects which cost more than they earn. This one is
borderline.

IF a good variety of 9600 baud capable portable radios existed, I'd do it
in a minute. We're locked in by the radio problem. 1200 via the mic jack.
We can do 2400 MSK via same jack, but I very much doubt that it would be
accepted as a ham standard (not same as old MFJ 2400 BPSK). We could do a
DSP scheme that could put 3-5kbps via the mic jack, but it is more
expensive and still a non-standard. Next jump is 9600 and we have the
technology for that, but not the radios.

Please keep on with the discussion. I'm looking for an excuse to do such a
project, but it has to be based on more than 'cool'.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

---

557. Re: [APRSSIG:4707] Solution to Intermod Problem

From: Gary Arnold <garnold@naples.net>
Date: Mon, 16 Sep 1996 16:17:20 -0700
To: aprssig@tapr.org
Message-ID: <323DDFEF.4D29@naples.net>
Rendered body type: text/plain

Mark Humphrey wrote:
>
> I recall there was a thread going a few months ago about intermod problems, but haven't
> heard much about this lately. I picked up a PAR Electronics model VHFDN152 2 meter
> "Intermod Filter" last weekend at the FARfest in Gaithersburg, and want to report it
> fixed my intermod problem, especially on the 145.79 APRS frequency.
>
> [snip]
>
> So if you're having paging intermod problems on 145.79, you might want to consider one
> of these. I was skeptical until I tried it. The manufacturer is PAR Electronics, 6869
> Bayshore Drive, Lantana FL 33462.
>
>   73, Mark Humphrey N2CHV
>   WPLY-FM Philadelphia

We've just installed 5 of these little marvels in the EOC/related: APRS,
Packet LAN, my car, 2 m SSB (EOC) and 2 m FM (EOC)...they do the job!
Also available from Amateur Electronic Supply (all stores) at $62 a
piece. Also prevents third harmonic problems on UHF.

Also note, that where third order IMD is a problem, the reduction is
actually X3.

73,
Gary WB2WPA

--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"
Ochopee FL/Collier EOC APRS digis now 50 watts! ERP ~80-100 watts!

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary

---

558. Ochopee Florida Digi QRV/QRO

From: Gary Arnold <garnold@naples.net>
Date: Mon, 16 Sep 1996 17:10:14 -0700
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <323DEC66.7F65@naples.net>
Rendered body type: text/plain

The KG5QD-3 digi at Ochopee, Florida (36 miles east of Naples)
is on the air with 50 watts omni (slight shadow to southwest, as
the antenna is side mounted on Rohn 25) at about 90 feet.
Testing over the weekend shows solid coverage from the Keys to
West Palm Beach. This is (as much as anything is) a permanent
site, and should continue to provide good service between the
lower coasts and the Keys.

The antenna is a 6 db gain dual band, (there will be a UHF network
node installed shortly), so the ERP is between 80-100 watts.

Reports welcomed! Now we start working on the folks to the north, and
a digi in the NE part of Collier County, between Naples and Lake
Okeechobee! (Possible site located!)

73,
Gary WB2WPA
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary

---

559. Re: [APRSSIG:4822] Re: RE: GATE,WIDE,WIDE,WIDE

From: schiers@ames.net
Date: Wed, 18 Sep 96 08:26:00 -0500
To: aprssig@tapr.org
Message-ID: <199609181326.IAA01476@tapr.org>
Rendered body type: text/plain

In <804991@bbs.ames.net>, on 09/17/96 at 09:48 PM,
   aprssig@tapr.org said:

>Maybe...? try using only 2 WIDEs on VHF?
><GRIN>
>73. Cap

That is a local convention based on topography and station density. It is
perfectly appropriate and agreed upon in our area. 73,

hasan schiers, N0AN--
----
schiers@ames.net

---

560. Apartment antennas!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 09:49:35 -0400 (EDT)
To: Paul Williamson <kb5mu@amsat.org>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918094337.4673C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 17 Sep 1996, Paul Williamson wrote:

> >... the new FCC exposure regulations which are not
> >unreasonable in themselves but which might prompt more serious laws...
>
> don't these FCC regs *preempt* local laws, rather than prompting them?

WB4APR COMMENT:  Just this morning I heard a fellow on 2 meters talking
about a new FCC edict that PREVENTS any local regulations that prohibit
the installation of *almost* ANY kind of "VIDEO" receive antennas!
Especially dishes below 1 meter in size.  It also permits VHF and UHF
antennas too.  SO all you have to do is show that you can receive TV on
your 2m or 70 cm antennas and you are IN!  He says this was published in
August.

Why have I not heard a thing about this in the amateur literature?
Probably because I have my head in the sand...


mail addr: wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

561. Re: [APRSSIG:4819] Re: Re: Balloon launch 21 Sept!

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 18 Sep 1996 08:50:49 -0500
To: aprssig@tapr.org
Message-ID: <3.0b19.32.19960918085048.00703244@144.188.134.33>
Rendered body type: text/plain

```
Perhaps they could put a WIDE in their path, and somebody in the chicago
area could put a dual port tnc on 440 / 145.79 as WIDE for the event only.

At 07:02 PM 9/17/96 -0500, you wrote:
>>
>> They use the 145.79 freq in Illinois balloon launch!
>> Just wanted to know, I don't have 440!     "BUMBER"
>.
>
Paul, WD9ABE
```

---

562. Re: [APRSSIG:4832] PCMCIA TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 10:03:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918095411.4673D-100000@arctic>
Rendered body type: text/plain

```
On Wed, 18 Sep 1996, Gwyn Reedy wrote:

> IF a good variety of 9600 baud capable portable radios existed, I'd do it
> in a minute.  We're locked in by the radio problem. 1200 via the mic jack.

APRSdos REPLY/COMMENT:  9600 Baud is the only thing that makes sense.
I thought the TEKK radio worked fine at 9600?.  I would package the
XTAL controlled radio in a magmount base of a 6 inch whip antenna.
THen you only have two pieces, the MAGmount/antenna/radio and the PCMCIA
card...

In fact, forget about the scratch development of the PCMCIA TNC, and
just mass purchase PCMCIA serial cards and then put the TNC/RADIO and
ANTENNA all in the base of themag mount antenna...

Only a DC/Audio/Power cable connects the two...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

563. Re: [APRSSIG:4833] Re: Solution to Intermod Problem

From: BordingK@aol.com
Date: Wed, 18 Sep 1996 10:18:44 -0400

To: aprssig@tapr.org, KD4UJK@jaxnet.com
Message-ID: <960918101843_311495509@emout11.mail.aol.com>
Rendered body type: text/plain

```
FYI
```

---

564. Re: [APRSSIG:4837] Re: Re: Balloon launch 21 Sept!

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Wed, 18 Sep 1996 08:30:09 -0600
To: aprssig@tapr.org
Message-ID: <32400771.7D70@slkc.uswest.net>
Rendered body type: text/plain

```
Paul Moller wrote:
>
> Perhaps they could put a WIDE in their path, and somebody in the chicago
> area could put a dual port tnc on 440 / 145.79 as WIDE for the event only.
>
> At 07:02 PM 9/17/96 -0500, you wrote:
> >>
> >> They use the 145.79 freq in Illinois balloon launch!
> >> Just wanted to know, I don't have 440!     "BUMBER"
> >.
> >
> Paul, WD9ABE

WIDE,GATE to hf so we can ALL see it.

KC7CO
```

---

565. Re: [APRSSIG:4836] Apartment antennas!

From: Richard Mulvey <mulveyr@frontiernet.net>
Date: Wed, 18 Sep 1996 10:31:02 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609181431.KAA38594@mail.frontiernet.net>
Rendered body type: text/plain

```
>
> On Tue, 17 Sep 1996, Paul Williamson wrote:
>
> > >... the new FCC exposure regulations which are not
> > >unreasonable in themselves but which might prompt more serious laws...
> >
> > don't these FCC regs *preempt* local laws, rather than prompting them?
>
> WB4APR COMMENT:  Just this morning I heard a fellow on 2 meters talking
> about a new FCC edict that PREVENTS any local regulations that prohibit
> the installation of *almost* ANY kind of "VIDEO" receive antennas!
> Especially dishes below 1 meter in size.  It also permits VHF and UHF
> antennas too.  SO all you have to do is show that you can receive TV on
> your 2m or 70 cm antennas and you are IN!  He says this was published in
> August.
>

   Actually, the FCC ruling is directed specifically at DSS dish antennas.
So unless you've got a DSS receiver hooked up to your 2M dish, which is
less than 1M in size, you'll have a problem.  :-)

- Rich
```

---

566. Re: Poor Bob!

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 18 Sep 1996 08:50:10 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960918125010.006db40c@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 18:09 9/16/96 -0500, rwf <rwf@mindspring.com> wrote:
>At 11:54 AM 9/16/96 -0500, the APRSmeister wrote:
>>Basically, from the biggest east coast net, we can now barely see anyone!
>>ARGH!!!
>
>Guess GA, Ala, TN, SC, NC  becomes the biggest contiguous APRS net, then!
><smirk>
>
>
Just remember, when the chips are down and all these modern,
high tech communication systems like APRS start to break down,
you can always fall back on the service that the country has always
```

relied on to provide communications in an emergency: cellular.

And remember it's just a hobby.

Bob Kirk
N3OZB

---

567. Re: [APRSSIG:4792] Poor Bob!

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 17 Sep 1996 12:11:23 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960917161123.006f6bf0@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 18:09 9/16/96 -0500, rwf <rwf@mindspring.com> wrote:
>At 11:54 AM 9/16/96 -0500, the APRSmeister wrote:
>>Basically, from the biggest east coast net, we can now barely see anyone!
>>ARGH!!!
>
>Guess GA, Ala, TN, SC, NC becomes the biggest contiguous APRS net, then!
><smirk>
>
>
Just remember, when the chips are down and all these modern,
high tech communication systems like APRS start to break down,
you can always fall back on the service that the country has always
relied on to provide communications in an emergency: cellular.

And remember it's just a hobby.

Bob Kirk
N3OZB

---

568. Baycom tnc/modem

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 18 Sep 1996 10:35:01 -0500
To: aprssig@tapr.org
Message-ID: <3.0b19.32.19960918103500.00704460@144.188.134.33>
Rendered body type: text/plain

I know this question was asked some time ago, but I wonder if the answer
has changed. Is there a way to use the Baycom tnc in a connector on aprs?
Recall that the Baycom tnc is really only a modem, with the computer
performing the tnc software in real time. The problem before is the real
time requirement vs. the needs of aprs. Thanks for any help.

Paul, WD9ABE

---

569. Re: [APRSSIG:4840] Re: Re: Balloon launch 21 Sept!

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Wed, 18 Sep 1996 10:47:38 -0500
To: aprssig@tapr.org
Message-ID: <3.0b19.32.19960918104736.006924c4@144.188.134.33>
Rendered body type: text/plain

Even better idea. How about somebody fairly close to the launch site
sending it out on 30m so that we can all see it right from the start.

I have the capability, but am 150 miles from the launch site and everybody
would miss the first 15,000 ft. until it got above the horizon for me.

At 09:50 AM 9/18/96 -0500, you wrote:
>
>WIDE,GATE to hf so we can ALL see it.
>
>KC7CO
>
>
>
Paul, WD9ABE

---

570. Indianna Balloon via WIDE!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 12:14:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918120041.22901B-100000@arctic>

Rendered body type: text/plain

Although on 446.0, the GPS data will be addressed via WIDE, so all you have to do is hook a UHF scanner to the input of your WIDE digipeater TNC and it will digipeat the GPS data over onto APRS 145.79! You can do this at your house too, but it will only digipeat once, so only your neighbors will see it.

Or, you can hook the 446.0 MHz receiver to your TNC input and operate your APRS station transmit side normally on VHF via WIDE,WIDE,WIDE. THen each time you want to uplink a new posit to the world around you, just hook it on the P list and hit UPLINK... This way, you are receiving the data on UHF, and then you are originating OBJECTS on your VHF side in a normal APRS manner.

But, I would watch on 2m, though, and make sure that there arent more than one of you doing this in your area, or you may see bazillions of packets..

WINDTRAX BALLOON LAUNCH Prime launch date: SAT 21-SEP-96

Flight Director: Chuck Crist, WB9IHS
Flight Sponsor: New Augusta Public Academy (5 mi NW of Indianappolis)
TIME: 1200-1300 UTC (0700-0800 AM Indy time)
Pre-Launch Freq: HF on 3870 +/- 1 kHz, local on 146.97(-) at 1130 UTC
Flight Assembly: 70-ft long consisting of balloon, parachute, crossband repeater, GPS packet & ATV equipment all contained in separate starfoam boxes and connected by 1/8 inch nylon line.
Flight Package Freqs:
Crossband repeater: Down 444.85 & 52.525 MHz FM vertical polarization @ 50 & 100 mW Pout. Up 144.3 MHz FM.
GPS Packet: Down 446.0 MHz vert pol @ 750 mW Pout [transmitting GPS "gga" string].
ATV: Down 439.25 MHz vert pol @ 1.5 W Pout. [Cable Ch 60]
Antennas: All are vertical polarization.

Max Altitude: Approximately 100,000 feet AGL.
Flight Duration: 2 1/2 - 3 hours.
Flight direction/distance: Approx E to SE of launch site & 35-50 miles.

GPS Packet by Chuck WB9IHS:
Garmin GPS rcvr, controlled by PacCom packet TNC & downlinked on Tekk 70 cm xmtr. Self-contained separate box with lithium power system. Antennas are 1/4 wave on 70 cm & strip line 1.5 GHz GPS rcvr.

4. LAUNCH SITE: New Augusta Academy, Indianapolis, IN
Lat 39.866667 N, Lon 86.233333 W
Elevation 800 ft MSL (244m)

5. CRUISING ALT: Max Altitude approx 100,000 feet

6. FORCASTED TRAJECTORY & EST CLIMB TO 60k FT:
A. 50 miles SE of launch site, while climbing to 100k ft, then descending to surface by parachute.
B. One hour to 60k ft & 90 minutes max altitude.

7. PHYSICAL DESCRIPTION: Balloon is 8 ft diameter weather balloon made by KAYMONT (same used by NWS). Entire flight assembly is 70 ft vertically in length and contains one balloon, one 6-ft parachute & three separate starfoam electronic experiment packages connected by a 1/8 inch nylon line.

8. TOTAL FLIGHT TIME: Three hours, Approx.

9. FORCASTED LANDING TIME & LOCATION:
A. 1500-1600 UTC
B. Approx 50-60 miles SE of launch site.

10. GENERAL INFO:
Sponsor: New Augusta Academy, Indianapolis, IN
A. Person in charge: Ph No:
B. Communications from site to ______ ARTCC by:
Ph No. at school:
C. Payload weight: 5 lbs.

For more info contact Chuck Crist, WB9IHS
Phone No: 317-787-6674

```
                    E-mail:   mai@iquest.net
```

---

571. Balloon on HF!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 12:25:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918122036.22901D-100000@arctic>
Rendered body type: text/plain

```
> Paul Moller wrote:
>
> > Perhaps they could put WIDE in their path, and somebody in chicago
> > could put a dual port tnc on 440 / 145.79 as WIDE for the event only.
>
> Doug responded :  Use WIDE,GATE to hf so we can ALL see it.

APRSdos REPLY/COMMENT:  The balloon WILL be sending its GPS data on 446.0
via WIDE.  ANYONE with an HF gateway only needs to put a scanner on 446.0
FM and couple the audio into his TNC.  THen TEMPORARILY change his MYGATE
call to WIDE.  Then the balloon packets will be heard on HF.  On VHF you
don't even need a dual port TNC.  Any TNC can be used to DIGI the data
from a 446.0 receiver to a 145.79 transmitter... just set your MYAlias to
WIDE termporarily...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

572. Re: Poor Bob!

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Wed, 18 Sep 1996 09:38:34 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960918093903.24df2f24@mailhost.primenet.com>
Rendered body type: text/plain

```
At 09:55 AM 9/18/96 -0500, Robert Kirk wrote:

>Just remember, when the chips are down and all these modern,
>high tech communication systems like APRS start to break down,
>you can always fall back on the service that the country has always
>relied on to provide communications in an emergency: cellular.
>

I hope you're joking.  First off, the country has only had "nationwide"
cellular coverage for about 5 years.
Unless you live in a state like Arizona where cellular is still restricted
to major cities and highway corridors.  Central (rural) AZ just got cellular
coverage due only to the fact that the Arizona Repeater Association got a
new tower on Mt. Ord and is renting space to the cellular providers.  We
have a linked autopatch up there (and have for years), and it still works
better most of the time when compared to cell phones.

Also, the Northridge (CA) earthquakes show that cellular can and does fail
when the power goes out and the towers collapse!  Ham radio operators from
Arizona showed up with "instant-up" towers within 24 hours of the disaster
and had emergency communications on-line.  Need I cite other examples?  How
about trying to dial 911 in Philadelphia or LA or Washington DC.?

>And remember it's just a hobby.

Well, that's one man's opinion.  It's a hobby, but I also know a lot of
volunteer fireman who consider firefighting a hobby...


73,

Mark KC7BXS
```

---

573. Re: PCMCIA TNC

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Wed, 18 Sep 1996 13:12:58 EDT
To: aprssig@tapr.org
Message-ID: <19960918.094900.4495.2.KC7LSP@juno.com>
Rendered body type: text/plain

```
>In fact, forget about the scratch development of the PCMCIA TNC, and
>just mass purchase PCMCIA serial cards and then put the TNC/RADIO and
>ANTENNA all in the base of themag mount antenna...
```

Well, if you used that arrangement you would not even need the PCMCIA serial card. Most laptops have at least one RS-232 port anyway.

---

574. gate, wide, wide, wide on hf

From: Roger Breckon <n8chb@tir.com>
Date: Wed, 18 Sep 1996 17:19:11 +0100
To: aprssig@tapr.org
Message-ID: <324020FF.3CE7@tir.com>
Rendered body type: text/plain

Hello,

I was just kybd ing wit K1HJC

Fm K1HJC
:Hi Roger..yes..but problem not your's. Think one or more
:gates adding additional 2 wides to all HF stns...
:When viewed on HF side, you only have GATE, WIDE in unproto..
:on VHF side, you have GATE, WIDE, WIDE, WIDE>>
:I'm only on vhf here....I see all HF stns via local gateway in
:Mass....W1ON-3. All HF stns show up with GATE,WIDE,WIDE,WIDE hr
:even though they really only have GATE, WIDE in their unproto>

"now I change my path to "GATE" only......

:With just GATE in ur unproto, I see GATE, WIDE, WIDE>

anyway that's the scoop on what's bin go-in on.

Guess I will just have to only put GATE only in my path and another station will help me out with the WIDE's hi hi

73

Ham radio is 4 fun

Roger n8chb

---

575. Re: [APRSSIG:4817] Re: Help w/ commercial UHF radio

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Wed, 18 Sep 96 17:43:04 UTC
To: aprssig@tapr.org
Message-ID: <106540@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

To try to answer Cliff's questions:

>There have been a number of comments regarding the Garmin 20 and the power
>supply requirements needed. I, too, have had a terrible time using most
>home supplies even with large 2000 ufd caps on the output of the 5 volt
>regulator. Apparently, one must turn the unit on from a stiff five
>volt supply, not necessarily turn on a supply in which a large capacitor
>needs to be charged. Can anyone confirm this?
>   Another question of interest----is the five volts on the antenna lead
>isolated to the input of the receiver at 1575 MHz? In other words, can I
>use a MMIC at the base of an antenna and expect the Garmin 20 to sort out
>the DC from the RF signal? I suspect so! Cliff Buttschardt K7RR

>From what I have seen, the GPS-20's are >>VERY<< twitchy on their +5v DC requirements. Apparently there is a processor reset threshold detector that is set too close to 5.0000v. In my "TAC Lite" (see schematic at URL ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/tac-lite.zip or in the latest TAPR PSR), I found that the GPS-20 would work reliably >>ONLY<< if the supply voltage was raised to ~+5.2v. In the TAC-LITE, this was done by lifting the COMMON (i.e. tab, i.e. center pin) on a 7805 above ground with a ~27 ohm resistor. It changed the GPS-20 from being very unreliable to perfectly reliable. The new TAC-2 "universal TAC" PCB (now at the PCB house, hopefully available soon as a TAPRized kit) includes provisions for such tweaks on the board.

The +5vdc on the antenna connector is coupled with an RF choke (actually a PCB trace) to the antenna spigot. If you use an ohmmeter between the +5v pin and the antenna connector, you will find that tyhe resistance is only a few tenths of an ohm.

To use an MMIC amplifier at the antenna, here's what I do: The output lead from the MMIC feeds the coax thru a resistor shunted by a small (chip) capacitor. The standard, simple (i.e. MiniCircuits) MMICs >>MUST<< have a current limiting resistor. For an MAR-6 MMIC and +5v supply, the resistor is 100 to 120 ohms. The newer (ang higher gain) ERA-series amplifiers need a smaller resistor (don't have the value here at work, but I recall it is 30-40ish ohms). This is necessary because the output lead is a "nude" open collector on the cheap MMICs.

73 de Tom, W3IWI

---

576. Re: Digest mode

From: kevenm@valtek.com (Keven Miller)
Date: Wed, 18 Sep 1996 12:40:02 -0600 (MDT)
To: aprssig@tapr.org (APRSSIG)
Message-ID: <9609181840.AA16583@valtek>
Rendered body type: text/plain

I believe you mail to listproc@tapr.org

```
        set aprssig mail digest
```

Early I had sent the following script. You save the digest to a file, run this script to change the file into a mail folder, then change folders.
In the scripts, I default the saved file name as 'dig' and the new mail folder as 'fold'. So I save my digest mail to a file named 'dig', execute the script 'makedig' and then change folders to 'fold'. Note that the 'fold' mail file is appended to so you could save, makedig, save, makedig ... multi times before changing to the folder fold.

```
### makedig ### Keven Miller KC7LYD ###
file=$1
newfile=$2

if [ -z "$file" ]; then
        file="dig"
fi
if [ -z "$newfile" ]; then
        newfile="fold"
fi

sed -f ~/mail/seddig $file >>$newfile
rm $file

### EOF ###
```

Here is the sed script file used in the above unix script

```
### seddig ### Keven Miller KC7LYD ###
# Listserv digest mail splitter
# Keven Miller  kevenm@valtek.com  02-APR-96
#
# Minium header to hold and paste is 1st line "From ..."
 1H
#
# Maximum header to hold and paste is 1st line to 1st blank line
#1,/^$/{
#       /^$/b
#       /^Subject/b
#       /^Date/b
#       /^Status/b
#       H
#}

#
# find (Blank)\nDate: and insert hold
# A found that past digests from dbinfo.com had "===" just before the
#    "Date:" line.
#
/^=*$/{
        N
        /\nDate\:/!b cont
        s/\n//
        x
        p
        x
}
: cont
### Done ###
--
```

Keven Miller KC7LYD
kevenm@valtek.com

---

577. Re:Garmin 20 5 V supply and TAC

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Wed, 18 Sep 1996 11:54:46 -0700 (PDT)
To: Tom Clark -- W3IWI <clark@tomcat.gsfc.nasa.gov>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918114837.13316E-100000@spork.callamer.com>
Rendered body type: text/plain

Hi Tom and the group. Wonderful reply to my questions! Yes, I found that the Garmin supply had to be slightly higher than 5 volts but by experimentation rather than anything concrete. I will do the 27 ohm resistor trick and confirm your results although it certainly will work. At least knowing some of the theory helps a great deal. Same on the RF choke in the antenna lead. I have a quadrafiler built up in a stainless pet feeding bowl working just fine but the addition of MAR 6 will help.

Congratulations on your material in the PSR! I am looking forward to the board when TAPR gets it done. Again it was useful knowing the limitations of the Garmin unit vs the Motorola unit by reading the PSR.
73 to all   Cliff Buttschardt K7RR

---

578. Re: Apartment antennas!

From: Phil Karn <karn@qualcomm.com>
Date: Wed, 18 Sep 1996 12:04:16 -0700 (PDT)
To: bruninga@nadn.navy.mil
Cc: kb5mu@amsat.org, amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <199609181904.MAA14849@servo.qualcomm.com>
Rendered body type: text/plain

>WB4APR COMMENT: Just this morning I heard a fellow on 2 meters talking
>about a new FCC edict that PREVENTS any local regulations that prohibit
>the installation of *almost* ANY kind of "VIDEO" receive antennas!

There is quite a bit of info on the FCC's web page, so you can get it all from the horse's mouth. The Report and Order and a Further Notice of Proposed Rulemaking can be found in

http://www.fcc.gov/Bureaus/International/Orders/fcc96078.txt

If you browse their site further, you will undoubtedly find other related information.

Phil

---

579. DFjr: Good or Bad?

From: robert <rambrose@unm.edu>
Date: Wed, 18 Sep 1996 13:26:59 -0900 (PDT)
To: APRS SIG <aprssig@tapr.org>
Message-ID: <Pine.PCW.3.91.960918132417.13631A-100000@ppp_027.unm.edu>
Rendered body type: text/plain

Is the DFjr worth its price? Is is reliable and easy to use, especially with APRS? I would like to hear the opinions of those who have and use one.

Thanks!

---

580. Re: Apartment antennas!

From: "Robert Dannals" <robert_dannals@tracer.nm.jhu.edu>
Date: 18 Sep 1996 15:36:15 -0500
To: "Bob Bruninga" <bruninga@nadn.navy.mil>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <n1369061418.66451@tracer.nm.jhu.edu>
Rendered body type: text/plain

Reply to: RE>Apartment antennas!

One can read more about the recent FCC ruling at the Ham Radio Online web site (http://hamradio-online.com/1996/aug/fccanten.html).

They recently wrote: "FCC Ruling Prohibits Unreasonable Restrictions on TV Antennas by Ham Radio Online, 7 August 1996. In a major ruling, the FCC declared void local laws prohibiting or restricting the use of small wireless dish antennas. More significantly, the FCC declared that use of small dish antennas and television receiving antennas can not be restricted by "any private covenant, homeowners' association rule or similar restriction on property within the exclusive use or control of the antenna user". Under the federal pre-emption, all homeowners must be allowed to install TV antennas."

73 de Bob Dannals, W2GG (ex: KE3RA)

```
-------------------------------------------------------------------
      Robert F. Dannals, Ph.D.                  Division of Nuclear Medicine
Robert_Dannals@tracer.nm.jhu.edu   Johns Hopkins Medical Institutions
       phone: (410) 955-2916               615 North Wolfe Street, Rm. 2001
         fax: (410) 955-0691                    Baltimore, MD   21205-2179
-------------------------------------------------------------------
```

```
--------------------------------------
```

Date: 9/18/96 3:15 PM
To: amsat-bb@amsat.org
From: Bob Bruninga
On Tue, 17 Sep 1996, Paul Williamson wrote:

> > >... the new FCC exposure regulations which are not
> > >unreasonable in themselves but which might prompt more serious laws...
>
> don't these FCC regs *preempt* local laws, rather than prompting them?

WB4APR COMMENT: Just this morning I heard a fellow on 2 meters talking about a new FCC edict that PREVENTS any local regulations that prohibit the installation of *almost* ANY kind of "VIDEO" receive antennas! Especially dishes below 1 meter in size. It also permits VHF and UHF antennas too. SO all you have to do is show that you can receive TV on your 2m or 70 cm antennas and you are IN! He says this was published in August.

Why have I not heard a thing about this in the amateur literature? Probably because I have my head in the sand...

mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

581. Re: [APRSSIG:4817] Re: Help w/ commercial UHF radio

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Wed, 18 Sep 1996 15:38:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.95.960918153435.6339A-100000@outland.dtcc.edu>
Rendered body type: text/plain

Cliff, I use a Trimble active antenna with my GPS-20 and it works very well.

I agree about a stiff supply. I used a 12 volt 3 AmpHour battery for my GPS-20. This supply was not always stiff enough. The 2200 uF capacitor did the job for me.

Sam

On Tue, 17 Sep 1996, Clifford Buttschardt wrote:

> There have been a number of comments regarding the Garmin 20 and the power supply requirements needed. I, too, have had a terrible time using most home supplies even with large 2000 ufd caps on the output of the 5 volt regulator. Apparently, one must turn the unit on from a stiff five volt supply, not necessarily turn on a supply in which a large capacitor needs to be charged. Can anyone confirm this?
> Another question of interest----is the five volts on the antenna lead isolated to the input of the receiver at 1575 MHz? In other words, can I use a MMIC at the base of an antenna and expect the Garmin 20 to sort out the DC from the RF signal? I suspect so! Cliff Buttschardt K7RR
>
>

```
***************************************************************
Dr. Sam Guccione        Delaware Technical & Community College
302-741-2802            1832 North duPont Highway
ARS K3BY                Dover, DE  19901
***************************************************************
```

582. PCMCIA ?????

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 18 Sep 1996 14:07:59 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960918210759.0067b8fc@mailhost.primenet.com>
Rendered body type: text/plain

I understand that there is a PCMCIA card which will add two (2) serial ports to a computer (laptop). With all the conversation going on now, on the SIG, about PCMCIA cards. Does any one know where I can get a dual port PCMCIA card. I understand that a company named Pocket (sp?) makes one but I have been unable to find out any information on them.

In advance, thanks for the help. This should make mobile APRS with GPS and Wx much easier.

73,   Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

583. Re: [APRSSIG:4821] APRS @ PCMCIA

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Wed, 18 Sep 1996 17:32:41 -0400
To: aprssig@tapr.org
Message-ID: <199609182132.RAA04194@babbage.csee.usf.edu>
Rendered body type: text/plain

At 08:06 PM 9/17/96 -0500, you wrote:

>What about a PCMCIA TNC? It seems to me that the time is long overdue
>for such a device. Think about it for a

I work for a company that manufactures PCMCIA modems, ISDN Terminal Adaptors, as well as a few other things. I am sure it could be done but the demand many not be high enough for manufacturers to design, develop and market such a device. I was thinking about the concept recently myself and I am sure there would be buyers but the amateur market is relatively small.

>I think it's time we start a letter writing campaign to the TNC
>manufacturers. Tell them what we want!

Now that is a good idea.

>Whoever comes out with one will sure sell a heck of a lot more of them
>than the radio people with hundreds of different models to choose from!

Exactly. We are the only company with a PCMCIA TA (actually it doubles as a 28.8 modem too for the times one cannot get access to an ISDN line) on the market right now and I am sure whomever would be first to release such a device would take the market by storm.

It might have to be farmed out to one of the PCMCIA manufactures though.

73
Paul E. Knupke, Jr.
Largo, Florida
Amateur Radio KR4YL

---

584. Speed (was: MIC Encoder Velocity)

From: henryvb <henryvb@dpliv.com>
Date: Wed, 18 Sep 1996 16:57:25 -0500
To: aprssig@tapr.org
Message-ID: <32407045.53AA@dpliv.com>
Rendered body type: text/plain

On Tue, 17 Sep 1996 12:31:14 Terrance Kealey spoketh:

> When I was stationary, the velocity was displayed as 140 knots and I
> have seen speeds go as high as 250. When I was driving at about 40
> mph, the speed was displayed as 450.

Sounds like the traffic radar my local cops are using :)

Henry
N9WMM
henryvb@dpliv.com

585. Re: [APRSSIG:4800] MindSpring not playing fair

From: jms@pobox.com (Johnie Stafford)
Date: Tue, 17 Sep 96 07:25 CDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <m0v2zDj-00020dC@kb5yvf.arc.usl.edu>
Rendered body type: text/plain

```
>>> On Mon, 16 Sep 1996 23:55:14 -0500 (CDT), w4wwq@juno.com (Peter J Lascell) said:

 pjl> My PIPELINE account was closed months ago during the trial period, and
 pjl> there was never any billing, UNTIL TILL THIS CREDIT CARD CYCLE.  Now I
 pjl> am being billed for August 96 service.

  Sounds like a PSI problem to me. I would guess that PSI turned over
their subscriber list for the period when you were a trial
subscriber. If nothing else has worked, try sending mail to
bob@mindspring.com. That's Bob McMamarra(sp?), he has been handling
most of the questions on the psi/mindspring transition news group.

        73, Johnie


--
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
 Johnie Stafford           |  Internet E-mail: jms@pobox.com
 KB5YVF - Lafayette, LA    | Ham Radio Packet: kb5yvf@k5arh.#lftla.la.us.noam
                           |          WWW URL: http://www.pobox.com/~jms
           pobox.com for lifetime email -- mail info@pobox.com
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
```

586. MINIMUM SYSTEM

From: foga@foothill.net (DAN FOGARD)
Date: Wed, 18 Sep 1996 15:23:56 -0700
To: aprssig@tapr.org
Message-ID: <199609182223.PAA25446@ns1.foothill.net>
Rendered body type: text/plain

```
WHAT IS THE SIMPLE WAY TO BUILD A MINIMUM SYSTEM ON A 1.44 MEG DISK

WANT TO USE IT ON A NON-HARD DISK LAPTOP....INSTRUCTION IN INSTALL .TXT ARE

PRETTY SHORT AND NOT TO CLEAR.........

                                        APRECIATE SOME FEEDBACK
                                        DAN W6PRL
```

587. N1IUH address?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 19:04:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918190339.4868A-100000@arctic>
Rendered body type: text/plain

```
He send a request for a Rhode Island Map but no return address.  ANyone
know him and can tell him of the problem?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

588. Re: [APRSSIG:4850] gate, wide, wide, wide on hf

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 19:15:25 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918191034.4868C-100000@arctic>
Rendered body type: text/plain

```
On Wed, 18 Sep 1996, Roger Breckon was chatting on his kbrd with K1HJC:

> Fm K1HJC :Hi Roger..yes..but problem not your's. Think one or more
> :gates adding additional 2 wides to all HF stns...
> :When viewed on HF side, you only have GATE, WIDE in unproto..
> :on VHF side, you have GATE, WIDE, WIDE, WIDE>>
> :I'm only on vhf here....I see all HF stns via local gateway in
> :Mass....W1ON-3. All HF stns show up with GATE,WIDE,WIDE,WIDE hr
> :even though they really only have GATE, WIDE in their unproto>

APRSdos REPLY/COMMENT: This W1ON-3 is becomming suspicious to me.  It was
one of the stations with a questionable path in the firstplace...  On HF
```

he is going through a DIGI on HF, then GATE, then WIDE,WIDE... I have sent him messages, but gotten no ACK yet. There is no way that a GATE can add the WIDE,WIDE,WIDE to the path..... Unless he has written his own GATEWAY. Please find out how he is doing this?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

589. Re: [APRSSIG:4855] DFjr: Good or Bad?

From: William Nolle <wa8inz@cris.com>
Date: Wed, 18 Sep 1996 18:33:28 -0700
To: aprssig@tapr.org
Message-ID: <3240A2E8.7148@cris.com>
Rendered body type: text/plain

robert wrote:

>
> Is the DFjr worth its price? Is is reliable and easy to use, especially
> with APRS? I would like to hear the opinions of those who have and use
> one.
>
> Thanks!

Well Robert that's a big question Hi. Is it reliable, that remains to be seen it's not been on the market all that long. Does it work YES it does a great job and never failed to point right to the signal. Could it be better, of course it could. There are some features that should have been though out a little better in my opinion, but then again when you use of the shelf parts you don't have to much choice as to design. I don't care for the way the cables enter the DFjr since the spacing for the 3 connectors isn't enough, this eventually will cause problems. The tactile buttons suppose to require very little pressure to make, but i found the two outher once to require more then they should because they are located to close to the edge of the case , and of course this is due to them using a off the shelf case that realy is to small for the components. There are several other things that could be improved, but don't look for them to happen anytime soon. The antenna switching unit was suppose to have been potted to waterproof the unit, this wasn't done and the reason for this was that they had problems with a number of switchers and of course potting them would make it nearly impossible to repair them. Agrelo is very good as far as standing behind their products as far as i have heard. I did ask if the switcher would be covered under warranty if it blew because of water entering the unsealed coax leads running into the switcher, i never got an answer to that question instead i was told to use a hot gluegun to seal the coax. Instead of using Hotglue (Don't like the stuff) i build a radome over the antenna swichbox that actually serves another purpose. It hold the 4 antennas at the right spacing (90 Degree apart). The reason i did this was due to the x brace only having one bolt in the center (With a compression pin) to hold the x brace in place, and i found that after several installations and removals from my pickup that the antenna's where not 90 degrees apart anymore, this is another mechanical design flaw in my humble opinion. But what piece of equipment have you ever bought that was perfect in everyway, i haven't found any yet.

All in all i like the DFjr and it does the job it was designed to do. I have had many messages from those that do have the unit and all rave about it's performance. Would i buy one again YES i would. Is it easy to use, well that depends what you call easy maybe hard to the next guy, i haven't had any problems using it and for me that's great because i'm one of those people that try before reading the instructions (What instructions) Hi. By the way be carefull on what receiver you use with it. I started out by using a Rat Shack 2022 scanner and upon a long installation project found it doesn't work with the DFjr because all i could hear in the speaker was the DFjr processor. I now use it with my Yaesu FT5100 and that works great. Joe probibly will hate me for writing this, but o well i tell it as i see it and some people can't deal with that i guess. This is my opinion on the DFjr like it or not, besides you asked Hi.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

590. KPC-9612 SOLD!

From: AC6JA@aol.com
Date: Wed, 18 Sep 1996 19:49:52 -0400
To: aprssig@tapr.org
Message-ID: <960918194951_481445080@emout03.mail.aol.com>
Rendered body type: text/plain

```
the kantronics KPC-9612 has been sold.  tnx!

the PacComm HandiPacket is still for sale.  asking $150 or best offer, and
will ship anywhere.

Mike AC6JA
```

---

591. Re: [APRSSIG:4797] HF

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 18 Sep 1996 20:45:41 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609182012.C28657-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Peter, W7LUS, has a request that all zero beat to his station.  He has
the kind of TNC that is accurate to a hertz or so and has zero-beat
himself to one of the often-heard stations in the NE.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Mon, 16 Sep 1996, Doug Wetzel wrote:

> Is it my imagination, or is the 30m net split into two frequencies about
> 400 hz apart?  The west coast stations (and some others) appear to be on
> 10.1514 (I have a PK232), with everyone else on 10.1515.
>
> How about if we all take the time to zero beat someone in the middle?
> N0AN or KU0G perhaps?
>
> Doug
> KC7CO
>
```

---

592. Re: [APRSSIG:4867] Re: HF

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 18 Sep 1996 02:19:01 -0400
To: aprssig@tapr.org
Message-ID: <199609190219.WAA14391@grumpy.magg.net>
Rendered body type: text/plain

```
What kind of TNC is that ? I have never heard of a TNC that is accurate to a
hertz or so. What I mean is that I have never known that it matters what
quality of TNC you have when it comes to RF frequency. I have always thought
that is a factor of the radio not TNC.

>Peter, W7LUS, has a request that all zero beat to his station.  He has
>the kind of TNC that is accurate to a hertz or so and has zero-beat
>himself to one of the often-heard stations in the NE.
>
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                (E-Mail)
http://www.magg.net/~n2czf                             (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

---

593. HF Paths

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 18 Sep 1996 02:32:55 -0400
To: aprssig@tapr.org
Message-ID: <199609190233.WAA15447@grumpy.magg.net>
Rendered body type: text/plain

I have seen several messages on HF and been lurcking in the background
looking at UNPROTO paths myself. It is a very simple process to follow.

RELAY and WIDE are a ALIAS only viable on VHF circuits
ECHO is a vaild ALIAS on HF Circuits but has never been encouraged

Now there MAY BE some stations on HF with something other than ECHO but this is NOT THE SUGGESTED STANDARD! I personally have removed ECHO from my HF alias, at one time too many people were using ECHO for no good reason, anyone can still digi via a SPECIFIC callsign even if there is no generic alias and DIGI is set to ON. Now the people who really need ECHO (just a few mobiles) will only digipeat via a few other dozen HF stations but at least I am not adding to the problem. If someone needs my specific location as a digi then they can enter my callsign in the path and still use it. The use of a specific callsign is the appropriate way of digipeating on HF if and only if needed.

If you have set your ALIAS to RELAY or WIDE on HF please do not, it is not the standard and adds to the chaos that can come about very easy on HF. If anything set it to ECHO or some unknown ALIAS so others are encouraged to use specific paths. The idea of ECHO use in special situations is a good one but it has been abused in the past.

73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net (E-Mail)
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
http://www.magg.net/~n2czf/brothers.html (Brothers to the Rescue Human Rights Group)

---

594. TAWG FALL APRS CONFERENCE 96

From: AA8JK@aol.com
Date: Wed, 18 Sep 1996 22:37:10 -0400
To: aprssig@tapr.org
Message-ID: <960918223710_481559319@emout01.mail.aol.com>
Rendered body type: text/plain

FIRST ANNOUNCEMENT

TAWG FALL APRS CONFERENCE 96
October 26, 1996
Columbus, Ohio

Bringing together a contingent of APRS technologists to discuss recent progress within the tri-state (Ohio, Indiana, & Kentucky) area and the direction for the future.

Everyone with an interest in APRS is invited.

The Columbus, Ohio site was chosen to be a central location for attendance for hams in Pennsylvania, West Virginia, Northern Ohio, and many of the TAWG members.

Topics to be addressed include:
- Recent APRS network achievements as well as future challenges.
- Committees to promote APRS activities.
- APRS interface with the National Weather Service.
- Question & answer session for newcomers.
- Other activities to be announced.

SPECIAL EVENTS
- A GPS Video (Approximately 20 minutes).
- A demonstration and progress report on ERIC (Electronic Roadway Information Companion). ERIC monitors data from your GPS and through an internal synthesized voice guides you along the way. ERIC adds speech to your GPS. Innovation at work.

LOCATION:
Whetstone Branch
Columbus Metropolitan Library
3909 N. High Street
(Near the entrance to the Park of Roses.)
Columbus, Ohio
Destination Waypoint - 40-02.47N 083-01.19W

DATE/TIME   October 26, 1996 1030 - 1500 local

TALK-IN: 147.17+ Repeater

SPONSOR: Tri-State APRS Working Group (TAWG)

All are encouraged to attend. For further information contact:

Sid, AA8JK
e-mail: AA8JK@aol.com
Packet: AA8JK@n8jsf.oh
Phone: 937.866.3911 (New Area Code)
513.866.3911   (Old Area Code)

---

595. Indianapolis Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Sep 1996 22:45:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960918224334.9613A-100000@arctic>
Rendered body type: text/plain

I just posted INAPOLIS.ZIP which is an improved indianapolis 32 mile map which adds rivers and streams and county lines to the existing INAPOLIS.map.

But, while posting, I notice that someone else has posted INMAPS06.zip which probably has much better maps anyway...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

596. (no subject)

From: Jim Lawyer <jlawyer@mail.airmail.net>
Date: Wed, 18 Sep 1996 21:48:14 -0500
To: aprssig@tapr.org
Message-ID: <3240B46E.26F6@mail.airmail.net>
Rendered body type: text/plain

SUBSCRIBE

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597. New APRS Web Site

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Wed, 18 Sep 1996 23:11:35 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960919031135.0069f6dc@bluenet.net>
Rendered body type: text/plain

Come Vist The Western North Carolina APRS Web Site at
http://www.bluenet.net/ke4htm
It has all the lastest files and NC maps and maplists.

See ya there,
Jamie

---

598. Re: [APRSSIG:4867] Re: HF

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Wed, 18 Sep 1996 21:42:06 -0600
To: aprssig@tapr.org
Message-ID: <3240C10E.5AB5@slkc.uswest.net>
Rendered body type: text/plain

John W Wilson wrote:
>
> Peter, W7LUS, has a request that all zero beat to his station. He has
> the kind of TNC that is accurate to a hertz or so and has zero-beat
> himself to one of the often-heard stations in the NE.
>

Unfortunately, I don't often hear Peter direct. If N0AN, KU0G, or KF0ZH can hear him and sero beat, those of us west of the Rockies can probably get back on the dead center of the net.

Doug
KC7CO

---

599. Re: [APRSSIG:4850] gate, wide, wide, wide on hf

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 18 Sep 1996 23:51:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960918234124.2711A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Wed, 18 Sep 1996, Roger Breckon wrote:

> Hello,
>
> I was just kybd ing wit K1HJC
>
> Fm K1HJC
> :Hi Roger..yes..but problem not your's. Think one or more
> :gates adding additional 2 wides to all HF stns...
> :When viewed on HF side, you only have GATE, WIDE in unproto..
> :on VHF side, you have GATE, WIDE, WIDE, WIDE>>
> :I'm only on vhf here....I see all HF stns via local gateway in
> :Mass....W1ON-3. All HF stns show up with GATE,WIDE,WIDE,WIDE hr
> :even though they really only have GATE, WIDE in their unproto>
(snip)
I happened to see this exchange, and seems to verify my suspicion that
our local WIDE is ADDING things when digipeating HF to VHF.

This is the same station that constantly beacons "stats" (what 'port' is
on what freq...how many accesses to each port, and so on) these "stats"
change constantly (the usage part) and virtually everytime I touch a key
I get the message for a NEW BEACON.

Is the capiblilty to add (WIDE's) to an Unproto path within APRS? or is
it something he does with his tnc?


Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

600. Re: [APRSSIG:4862] MINIMUM SYSTEM

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Wed, 18 Sep 1996 22:29:06 EDT
To: aprssig@tapr.org
Message-ID: <19960918.180912.4495.1.KC7LSP@juno.com>
Rendered body type: text/plain

```
On Wed, 18 Sep 1996 17:20:20 -0500 (CDT) foga@foothill.net (DAN  FOGARD)
writes:

>WHAT IS THE SIMPLE WAY TO BUILD A MINIMUM SYSTEM ON A 1.44 MEG DISK
First format a BLANK disk with the /s attribute to make it bootable.
(i.e. FORMAT A: /S)
Add  config.sys & command.com, tailor to your needs.
(To load your programs and bypass the time & date garbage)

If you want APRS compliant protocols in a comm program try HAMlet, it's a
simple and small program that
with a simple editor will be under 50K in size.  This will give you
PLENTY of room left for downloading or logging files.  The drawback to
HAMlet is..... you cannot clear the screen.

If you want maps, APRS7.7B will fit on the disk, especially if you do not
use all the extra maps.

For a plain (NON APRS) packet program I strongly suggest PAX 3.20.  It's
a 12K TSR, but it's > GREAT <.

You do not need anything fancy to relay APRS or to send your coordinates.
 Although dumb systems cannot
be polled with the ?APRS? command.

Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
---------------------------------------------------------------------
Cruise Missile Coordinates :    4631.17N/12255.10W
```

---

601. More GPS-20 followup

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Thu, 19 Sep 1996 04:24:25 +0100
To: aprssig@tapr.org
Cc: wd5ivd@tapr.org
Message-ID: <3240BCE8.305E@tomcat.gsfc.nasa.gov>

Rendered body type: text/plain

I was asked in a non-SIG message to describe the symptoms when the GPS-20 failed to start because of inadequate power supply voltage. What I saw on my first GPS-20 (one of the initial batch that APR bought) was that there was no RS232 NMEA message output and the current drain was abnormally low until a threshold of ~5.1x volts was hit. Then the receiver started sending data and the current drain went up to the expected value. I presume that the increase in current was because the -20's 80188 CPU started working. I tried using the discrete reset pin to force it to start in the low-voltage state with no success. As I reported, my "fix" in the TAC-LITE was to use a supply voltage ~5.2v and it worked fine. The GPS-20 specs say "5V +/- 5%", so all I was doing was to run it near the upper end of the "official" specifications.

Recently I got another GPS-20 from TAPR for the new TAC-2 development effort and tonite I made up the cables to see how it performed. My test jig is precisely that I documented earlier in the PostScript schematic in the file at URL

  ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/emulate.zip

except that I omitted the 7805 regulator and use a variable bench supply.
The second GPS-20 seems to start just fine at ~4.8v and shows none of the "sluggish" performance of my earlier experiences. Based on this universe of two statistical sample, all I can say is that some GPS-20s are sluggish and some are not. My recommendation remains the same -- since SOME are sluggish, it seems prudent to run with ~5.2v power.

In testing both GPS-20s I always see that the lockup is a bit bizzare. The receiver will be tracking 4-6 satellites, then for a few seconds it goes crazy, reporting zero or 1 satellite, and then it relocks. It does this "dance" several times and then settles down for a while. This is in contrast to the Motorola ONCORE, where once a satellite is locked, it stays in lock (except during QSB fades when the signal is weak). I can only presume this is because the GPS-20 is only a 2 channel sequential sampling receiver which scans the available satellites, while the Motorola has independent parallel correlators (6 or 8) and each satellite is viewed full-time. The more complex receiver is more robust, but it costs ~2x as much!

Since the GPS-20 "dances", and because it is slow to lock up, I recommend that users include a "mini-UPS" to buffer against power glitch induced resets. In the TAC-LITE I did this with a 9v NiCd battery that can run the receiver for 5-10 miinutes, as seen in the schematic at URL

  ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/tac-lite.zip

I did include all the necessary diodes and room for the current-limiting charging resistor in the TAC-2 board that I hope we will be able to announce RSN (Real! Soon! Now!) as a TAPR kit.

Also on aleph (and some of the data is in the latest PSR), are plots of the timing performance of the GPS-20. We found that the 1PPS pulse is about 2 usec EARLY to the UTC second on my first GPS-20 (in the TAC-LITE).
A quick test of the timing on the second GPS-20 that I just powered up tonite shows a similar ~2 usec bias, so my "universe of two" statistical sample shows that the 2 usec bias is generic to the GPS-20.

For those of you with GPS-20s, you might want to try my SHOWTIME clock display program. You do have to add one wire to the RS232 cable to send the 1PPS signal to the DCD handshaking pin on your PC (as shown in the emulate.zip schematic). SHOWTIME will give you the "perfect" clock you have always wanted to have in your shack. To fetch SHOWTIME, do the following:

(1) ftp to aleph at URL

      ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/distribution/

```
(2) Type "binary" to enable binary file transfer

(3) fetch the most recent big distribution archive with

      get showtime.v331.zip temp.zip  (or whatever the file is named)

(4) Unzip the temp.zip file with the -d option to a floppy:

      pkunzip -d temp a:\

(5) Either do a full setup or update with

      C:\>  a:
      A:\>  setup c:

(6) There is a later update to SHOWTIME you might want to get, so also
    fetch  shwtm332.zip  if you want it. Unzipping this will produce
    a file shwtm332.exe which you should put in c:\tac\bin and rename
    to be showtime.exe if you want the latest in the ongoing evolution
    of this software.


73 de Tom, W3IWI
```

---

602. test for me!

From: "David Michael Gaytko   ***@***   WD4KPD/FM15mm" <cn2859@coastalnet.com>
Date: Thu, 19 Sep 1996 00:27:28 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960919042728.00672384@abaco.coastalnet.com>
Rendered body type: text/plain

nada!

---

603. Re: [APRSSIG:4858] PCMCIA ?????

From: rsellers@firecraker.com (Roger Sellers)
Date: Wed, 18 Sep 1996 23:47:55 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609190447.XAA02599@tapr.org>
Rendered body type: text/plain

```
>I understand that there is a PCMCIA card which will add two (2) serial ports
>to a computer (laptop). With all the conversation going on now, on the SIG,
>about PCMCIA cards. Does any one know where I can get a dual port PCMCIA
>card. I understand that a company named Pocket (sp?) makes one but I have
>been unable to find out any information on them.
>
 I bought a single port PCMCIA serial card for about $120 from a mail order
company. Check any mail order catalog. I have Insight, CDW, and Datacomm.
Try www.insight.com or www.cdw.com on the web.
  Hope this helps. It fixed my single port problem. I dont much like the
PCMCIA connector though. too flimsy.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

604. Re: gate, wide, wide, wide on hf

From: ad4bl@juno.com (Linda G Mullen)
Date: Wed, 18 Sep 1996 21:35:13 CDT
To: aprssig@tapr.org
Message-ID: <19960918.203636.3390.4.ad4bl@juno.com>
Rendered body type: text/plain

```
On Wed, 18 Sep 1996 18:22:31 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>On Wed, 18 Sep 1996, Roger Breckon was chatting on his kbrd with
>K1HJC:
>
>> Fm K1HJC :Hi Roger..yes..but problem not your's. Think one or more
>> :gates adding additional 2 wides to all HF stns...
>> :When viewed on HF side, you only have GATE, WIDE in unproto..
>> :on VHF side, you have GATE, WIDE, WIDE, WIDE>>
>> :I'm only on vhf here....I see all HF stns via local gateway in
```

>> :Mass....W1ON-3. All HF stns show up with GATE,WIDE,WIDE,WIDE hr
>> :even though they really only have GATE, WIDE in their unproto>
>
>APRSdos REPLY/COMMENT: This W1ON-3 is becomming suspicious to me. It
>was
>one of the stations with a questionable path in the firstplace... On
>HF
>he is going through a DIGI on HF, then GATE, then WIDE,WIDE... I have
>sent him messages, but gotten no ACK yet. There is no way that a GATE
>can add the WIDE,WIDE,WIDE to the path..... Unless he has written his
>own GATEWAY. Please find out how he is doing this?
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

I am copying W1ON-3 in Lynn Haven FL today Sept 18...this is the first
time I have seen this station. On the Digi list this is his beacon:

W1ON-3 >APRS, W7LUS, GATE, WIDE, WIDE*

I also copied NWSPTC TEMP STATION IN FAYETTEVILLE
When I hooked the station it showed a callsign KB4KZY-2

Also GHCC no ID was just next to KE4ROC

Nice band opening today in the South East US!

Linda Mullen AD4BL DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
Everything worth doing is scary

605. Re: [APRSSIG:4858] PCMCIA ?????

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 18 Sep 1996 23:58:36 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae6690d3387d@[199.1.11.157]>
Rendered body type: text/plain

>I understand that there is a PCMCIA card which will add two (2) serial ports
>to a computer (laptop). With all the conversation going on now, on the SIG,
>about PCMCIA cards. Does any one know where I can get a dual port PCMCIA
>card. I understand that a company named Pocket (sp?) makes one but I have
>been unable to find out any information on them.
>

"SOCKET" lists a multi-port OEM unit,
I use the Socket single port PC unit , work even on my MAC

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

606. RE: [APRSSIG:4871] Indianapolis Maps

From: Tom Busch <tomb@avoca.nwscc.sea06.navy.mil>
Date: Thu, 19 Sep 1996 07:51:31 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBA5FF.62B9AE00@tomb.nwscc.sea06.navy.mil>
Rendered body type: text/plain

>
I just posted INAPOLIS.ZIP which is an improved indianapolis 32 mile map
which adds rivers and streams and county lines to the existing
INAPOLIS.map.

But, while posting, I notice that someone else has posted INMAPS06.zip
which probably has much better maps anyway...

It was me. I added four-mile maps for Indianapolis. A thirty-two mile map will be great.

TomB

```
begin 600 WINMAIL.DAT
M>)\^(B4,`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
```

```
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`)0```%)%.B!;05!24U-)1SHT.#<Q72!);F1I86YA<&]L
M:7,@36%P<P!\"P$%@ ,`#@```,P'"0`3``<`,P`?``0`3 $!(( #``X```#,
M!PD`$P``#$`(P`$`$X!`0F `0`A````03E",#@R141&,3$Q1# Q,4(Q0D$P
M,$,P-$9$0T0W13<`3P<!`Y &``'0#```2````"P`C````````#`"8````````L`
M*0```````P`V```````! `#D`@*K=1RFFNP$>`' ``0```"4```!213H@6T%0
M4E-324<Z-#@W,5T@26YD:6%N87!O;&ES($UA<',```````@%Q``$````6````
M`;NF*4?=[8*PJA'Q$="QN@# 3]S7YP``'@`># $````%````4TU44 `````>
M`!\,`0````" ```!T;VUB0&%V;V-A+FYW<V-+G-E83 V+FYA=GDN;6EL``,`
M!A#?BC-Y`P`'$"0!```>``@0`0```&4```!)2E535%!/4U1%1$$N05!!/3$E3
M6DE05TA)0TA)4T%.24U04D]6141)3D%-15,N25-"1$E!3DE'24Y/5$%20D5
M2$%$$1%-2259%4E-!3D135%)%04U304Y$0T]53E193$E.15-4``````(!"1 !
M````W0$``-D!``#W`@``3%I&=5.JXCG_``H!#P(5`J@%ZP*#`% "\@D"`&-H
M"L!S970R-P8`!L,"@S(#Q0(`<`')"<1'B<W1E;0*#,W<"Y <3`H!]"H (SPG9
M._$6#S(U-0* "H$-L0M@X&YG,3 S%% +"A11)0OR8P! (#X+2C$V-PJ@`V 3
MT&,%0 J+;&D<,S8-\!G<&_9)(&JB=1/ ('!O$\%D'O `3D%03TQ)4RZ 6DE0
M('=H:1%PNB $`" #D0=P&_%V'['E"X!D!S!N81]P'4 $(.HS$>!M`Q!E(O B
M8 J%\2"T861D!" %$"' $:#/(3$?P!/ %A!A;23T!:!2=0(P>2 =0&X'D71*
M;R;0:",P97@$`'3="X!G"H4?YR-1+@J%"H7P0G5T+""B(R$?<B>A>RH@'P!N
M'! @T",P)Q!AM05 <P-P90(@)S%L$; N(!& !" ?=TT@`%,P>#8N>@4@'&8@
MM!OQ8DT!H&PF8"SB;74@X6(?$< 3T 7 (U$A(GEW8?QY+C%P"H<9ZAQL&=\>
M\,<%0#% +^%E+B >\211]Q^Q`A (<"TC!@0@`A H(2LB&36!02<!:0`@>2W\
M='<F\",&(* #$ ,@,%"N( G!*^ I#50#<$(S!045,0`\8 ````,`$! !````
M`P`1$ ````! ``<P``85`RFFNP% ``@P``85`RFFNP$>`#T``0````4```!2
)13H@`````.3D
`
end
```

---

607. Re: [APRSSIG:4874] Re: HF

From: schiers@ames.net
Date: Thu, 19 Sep 96 07:57:34 -0500
To: aprssig@tapr.org
Message-ID: <199609191304.IAA16691@tapr.org>
Rendered body type: text/plain

```
In <806549@bbs.ames.net>, on 09/18/96 at 11:55 PM,
   aprssig@tapr.org said:

>John W Wilson wrote:
>>
>> Peter, W7LUS, has a request that all zero beat to his station.  He has
>> the kind of TNC that is accurate to a hertz or so and has zero-beat
>> himself to one of the often-heard stations in the NE.
>>

>Unfortunately, I don't often hear Peter direct.  If N0AN, KU0G, or KF0ZH
>can hear him and sero beat, those of us west of the Rockies can probably
>get back on the dead center of the net.

>Doug
>KC7CO

I am all for us getting on one frequency, but let's try to do it right.
Are we talking about zeroing to Peter's digi, or his mobile? Somehow it
concerns me that we would be using a mobile station as the standard.
Further, the problem is not necessarily the tones of the tnc being on,
(which is important), but the RADIO has to be on frequency as well, and in
the varying temperature situations that mobile stations face, not to
mention warm-up and cool-down issues, I wonder what we are talking about
here.

I will be happy to comply with whatever we settle on, but let's think
about this a little first. I know I am being heard very well throughout
the USA, so I could serve as a "secondary" gathering point and am willing
to do so.

Since the issue is stability and not absolute accuracy, we want to make
sure that whoever is used as a standard either has a high stability TCXO
radio, or virtually NEVER turns their radio off. With most modern radios
(though  not all), if they are left on they are rock solid. I am using a
TS-870s which seems to fall into this category, but I have owned other
modern radios that drifted significantly after a few transmissions.

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
```

```
-----------------------------------------------------------
```

608. Re: [APRSSIG:4883] Re: HF

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Thu, 19 Sep 1996 07:28:03 -0600
To: aprssig@tapr.org
Message-ID: <32414A63.14ED@slkc.uswest.net>
Rendered body type: text/plain

```
>
> I will be happy to comply with whatever we settle on, but let's think
> about this a little first. I know I am being heard very well throughout
> the USA, so I could serve as a "secondary" gathering point and am willing
> to do so.

With the band conditions as they are, I vote for Hasan as frequency
czar ....

KC7CO
Doug
```

609. U2000 Hex Output

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Thu, 19 Sep 1996 08:38:51 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBA606.17419850@ppp-107.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
Some time ago I think it was early last winter, someone posted the
definitions of the U2000 hex strings.The output was !!0020........ ect.
I seem to have misplaced my copy; so if someone could repost, or give me an
idea when that was posted, so I could get it off the archives on tapr, I
would be very pleased.

One other question. If two people running Winaprs mobile are traveling in
the same direction(parallel), with the car windows down, and singing, would
that that mean they were Sproul'n along singing a song, side by side?
```

610. Re: [APRSSIG:4884] Re: HF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 10:04:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960919100114.12553C-100000@arctic>
Rendered body type: text/plain

```
On Thu, 19 Sep 1996, Doug Wetzel wrote:

> > I will be happy to comply with whatever we settle on, but let's think
> > about this a little first. I know I am being heard very well throughout
> > the USA, so I could serve as a "secondary" gathering point and am willing
> > to do so.

APRSdos REPLY/COMMENT: Remember the plan proposed in my docs.  The czar
sets his MYAlias to TUNE, other 2ndary czars set their aliases to TUNE1,
TUNE2 and so forth.  THen anyone on freq can just set their path to  TUNE
and ping a few times to see where the freq is.

This was a general idea for newcommers to a HF freq.  It is not so
important on 10151, the only APRS freq (so far, hi hi) because there, we
can all reemember the czar by callsign.

If someone wants to do me a favor, they could check W3ADO agains W7LUS and
lemme know if we have drifted apart...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

611. Re: [APRSSIG:4874] Re: HF

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Thu, 19 Sep 1996 09:31:57 -0500
To: aprssig@tapr.org
Message-ID: <3.0b19.32.19960919093156.006863a0@144.188.134.33>
Rendered body type: text/plain

```
Getting on the proper freq is a good idea, but make sure it is the correct
freq. That is actually very simple to do, especially on 30m. Here's how I
do it on the 30m band.
```

Dial up the 10Mhz WWV. Zero beat it by ear. Connect an oscilloscope to your reciver audio. With the Trigger on the oscilloscope set to LINE, tune your radio until the trace stands still, with a period of about 16.7 ms. Its the getting the trace to stand still that is the important part here. Now you are exactly 60 off of 10,000,000 Hz plus or minus the accuracy of the 60hz coming into your house, which is about +/- 2Hz. Read your dial, and determine your dials error. (I have not found a radio yet that is not off freq. by at least 10hz using this method).

Then go park yourself on the correct freq. and let other people who are not on the correct freq. miss the traffic.

At 10:52 PM 9/18/96 -0500, you wrote:
>> Peter, W7LUS, has a request that all zero beat to his station. He has
>> the kind of TNC that is accurate to a hertz or so and has zero-beat
>> himself to one of the often-heard stations in the NE.
>>
>
Paul Moller
Motorola CSG
847-523-5210
Motorola pager #7378

---

612. Re: [APRSSIG:4848] Re: Poor Bob!

From: dpage@cvpsun174.ti.com (Doug Page)
Date: Thu, 19 Sep 96 09:49:13 CDT
To: aprssig@tapr.org
Message-ID: <9609191449.AA03734@cvpsun174.cvp.ti.com>
Rendered body type: text/plain

> At 09:55 AM 9/18/96 -0500, Robert Kirk wrote:
>
> >Just remember, when the chips are down and all these modern,
> >high tech communication systems like APRS start to break down,
> >you can always fall back on the service that the country has always
> >relied on to provide communications in an emergency: cellular.
> >

Good point! I seem to recall reports from HAMs that worked the OKC bombing and the Ft. Smith, Arkansas tornado that cellular provided excellent communication. Excellent communication, that is, to those first few members of the press that were able to get a trunk and camp on it. That and the fact that cellular is still basically land lines with portable handsets is why the Red Cross has already recognized the virtual uselessness of cellular in major emergencies (and many no so major emergencies).

...Anyway, I keep MY spare set of cellular batteries charged just in case. :*)

At 11:46 AM 9/18/96, KC7BXS wrote:

> I hope you're joking. First off, the country has only had "nationwide"
> cellular coverage for about 5 years.
> Unless you live in a state like Arizona where cellular is still restricted
> to major cities and highway corridors. Central (rural) AZ just got cellular
> coverage due only to the fact that the Arizona Repeater Association got a
> new tower on Mt. Ord and is renting space to the cellular providers. We
> have a linked autopatch up there (and have for years), and it still works
> better most of the time when compared to cell phones.
>
> Also, the Northridge (CA) earthquakes show that cellular can and does fail
> when the power goes out and the towers collapse! Ham radio operators from
> Arizona showed up with "instant-up" towers within 24 hours of the disaster
> and had emergency communications on-line. Need I cite other examples? How
> about trying to dial 911 in Philadelphia or LA or Washington DC.?
>

Granted, but don't forget that the larger cellular providers have `Cellular On Trailer Systems' (COTS). They use them primarily for large events such as the Super Bowl and the Olympics, but I guarantee you that they are justified at least in part as being able to provide cellular service ASAP if the disaster knocks out normal service. This, of course assumes that land lines (not to mention power) are available.

> >And remember it's just a hobby.
>
> Well, that's one man's opinion. It's a hobby, but I also know a lot of
> volunteer fireman who consider firefighting a hobby...

```
>

Robert might also want to reread Part 97 to remind himself what the FCC thinks
the purpose of HAM radio is...

MTES.

73,

Doug KC5RRZ


**  The opinions expressed are mine (maybe) and do not necessarily represent  **
**  those of my employer -- or any other sane person, for that matter.        **
```

613. path control

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Thu, 19 Sep 1996 07:59:57 -0800
To: aprssig@tapr.org
Message-ID: <199609191458.HAA03483@franc.ucdavis.edu>
Rendered body type: text/plain

```
Hi all,
    I've been acutely aware of the importance of the unproto command since
I first started using Mac APRS. It occurrs to me that every APRS station
has a computer (unless Digi's don't in which case my thought is
irrelevent). Anyway a computer can do rather complex things. Couldn't a
computer examine each station's path and either correct it or refuse it if
it doesn't conform to some standard? This would prevent most "bad" paths
from doing damage. Just a thought.

John Lakeland kc6vlr
```

614. WIDE,WIDE,WIDE!

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Thu, 19 Sep 1996 12:34:26 -0400
To: aprssig@tapr.org
Cc: n1cpe@amsat.org, aps@ieee.org, bruce@testware.com, aardvark@krl.com,
eparish@netcom.com, eric@waaf.com, jorvedahl@aol.com,
warakois@world.std.com, jgarrett@world.std.com,
neil%starfleet.bbn.com@bbn.com, phil@temples.com,
amirault@laraby.tiac.net, pozerss@cliffy.polaroid.com,
schwarm@spectre.mitre.org
Message-ID: <2.2.32.19960919163426.00ca9d7c@cassatt>
Rendered body type: text/plain

```
>From local observation, I think that W1ON-3 is changing the paths of
stations gatewaying through him by adding 1 WIDE to whatever the originating
station sends. Initially, I think it was being done so that all of the HF
stations would be heard by the local WIDE and Digipeated. I get the
impression, based on the "nice" status messages it send out, it is a
homebrew program doing the path modifications. Clearly APRS won't do that.

 The Sysop of the station is Doc, W1EO. Does anybody know his email address?
Maybe some local in the Boston area can drop him a message next time W1EO
shows up on the screen? I will if I see him!

 73,

 Tom Kinahan N1CPE



----------------------------------------------------------------------
Tom Kinahan                     Phone:          508-871-0305
US Robotics                     Fax:            508-366-3626
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

615. Re: [APRSSIG:4889] path control

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 12:49:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960919124644.12598A-100000@arctic>
Rendered body type: text/plain

```
On Thu, 19 Sep 1996, John Lakeland wrote:
```

> .... Anyway a computer can do rather complex things. Couldn't a
> computer examine each station's path and either correct it or refuse it if
> it doesn't conform to some standard? This would prevent most "bad" paths
> from doing damage. Just a thought.

APRSdos REPLY/COMMENT: No. All routing of APRS packets is done by TNC's. The PC or Mac has nothing to do with it... I dont want to hard limit anyone's choice of path when they enter it either, because some paths which are "BAD" most of the time are sometimes good under some unique circumstances...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

616. Re: [APRSSIG:4887] Re: HF

From: schiers@ames.net
Date: Thu, 19 Sep 96 11:20:43 -0500
To: aprssig@tapr.org
Message-ID: <199609191646.LAA23053@tapr.org>
Rendered body type: text/plain

In <806968@bbs.ames.net>, on 09/19/96 at 10:43 AM,
aprssig@tapr.org said:

>Getting on the proper freq is a good idea, but make sure it is the
>correct freq. That is actually very simple to do, especially on 30m.
>Here's how I do it on the 30m band.

The amount of absolute frequency error is much less a problem than the amount of offset error. Offset error causes the packets to be non-decodable, absolute error (only if severe enough), merely gets you a qsl card from the fcc).

Getting everyone on the same frequency seems to me to be a lot more important than getting everyone on the "right" frequency. My experience during my tenure on 14.109 (13 years worth), pretty well established that most modern radios were "tolerably close" to the frequency they displayed (in order to stay in band and not interfere with other established nets), but that the operator tuning to frequency was just short of awful without someone taking the time to "round guys up" and get them back on frequency.

Just from my own experience, I have much more confidence in zeroing to a polar station or czar who is:

1. active
2. accessible
3. strong

than I do in 50 to 100 people trying to reliably repeat a set of instructions for putting their radio on frequency based on wwv and a scope. Call me pessimistic, but I think the suggestion made, while having technical merit, is unlikely to produce the results we are looking for. Not everyone on the net has a scope, in fact, I bet only a minority have one.

Further, it doesn't matter whether your dial is "right-on" or not, if your radio drifts, or you turn it off and on....the problem re-surfaces at square one.

The only way to "effectively" keep from spreading is to have polar stations that are active, accessible and strong to zero against, and for feedback to be provided to those who are straying. That is what we ended up having to do on 14.109 and it worked. Until we did that, nothing worked and we ended up with discussions of whose radio was more accurate than some one elses, who knew how to calibrate best, etc. ad nauseum.

Let's figure out who is "supposed" to be the polar station(s), whether they meet some minimal criteria and then help keep each other on frequency by ....gee....communicating...whoa, what a concept.

IMHO, the criteria for being a polar or czar (too authoritarian for my tastes), station would include:

1. On the air, 24 hours per day, 7 days per week.
2. Located so they could be heard by the greatest number of current/potential net members.
3. Strong and Stable with a properly calibrated TNC

```
4. Accessible: be on this list, or at least have an email address THAT
THEY
   REGULARLY CHECK, so the vagaries of propagation and keyboard to
keyboard
   chatting could be avoided.

Once this gets worked out, I think Bob's suggestion that he refers to in
the  DOCs to his program about an alias of TUNE for the primary polar
station and TUNE1, TUNE2 for secondary polar stations would be a GREAT
idea.

What do you guys think?

BTW: I ain't volunteering or advocating for anyone to be these polar
stations,
       nor would I refuse to help. My concern is to have someone to sit on
       that I can hear, who is reliable and can be contacted and conversed
       with easily, i.e., responsive. Since the list is here, it might be
a
       good starting point for conversation.

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

617. Frequency Centering, 30m

From: schiers@ames.net
Date: Thu, 19 Sep 96 13:11:10 -0500
To: aprssig@tapr.org
Message-ID: <199609191814.NAA25623@tapr.org>
Rendered body type: text/plain

```
Re: my last post about polar stations on 30m. I am checking with Bob for
propagation to W3ADO. If it is good, I will center on him and those that
copy me, can center on me. If this works out, I will put it in my beacon
info or some such.

Since I am in the middle of the country and have excellent prop to east
and west coast, as well as the south, this should help us pull together. I
am also on 24 hrs/day and am told I have a good signal. Using a Kenwood
TS-870s, Ameritron FET Amp @ the 30m legal limit and a 10 el log periodic
@ 72'.

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

618. DGPS Tests in Balto/Wash Area

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Thu, 19 Sep 96 18:16:05 UTC
To: aprssig@tapr.org
Message-ID: <106661@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
This message is to inform the APRSers in the Balto/Wash area that I'm
planning on re-instituting the W3IWI-13 high accuracy DGPS beacon on
145.79 RSN (Real! Soon! Now! -- like maybe by this weekend). If you have
any problems with the plans outlined below, speak up now.

First, let's define DGPS. Your small GPS receiver works by obtaining
the time (for position) and frequency (for velocity) data on several
(at least 4 for a 3-D position) GPS satellites. The timing is measured
with a precision ~100 nsec and the frequency with a precision ~ 0.1 Hz
relative to the clock oscillator in your GPS receiver. To get a 3-D
position/velocity you need to observe a 4th satellite to "set" the
receiver's clock and determine its frequency offset. The timing
measurements are usually expressed in distance units and are called
pseudo ranges (PR); the frequency data is often called pseudorange rate
(PRR) or apparent Doppler offset.

Your receiver munches on the PR/PRR data based on data transmitted by the
GPS satellites (at 50 bits/s, in 1500 bit messages sent once/30 sec,
which include high accuracy Keplerian elements, time tags, information
```

on the offset and rate of the GPS satellite's atomic clock, etc.) to produce the position/velocity estimate. The accuracy of the estimate is limited by several factors:

a. Inaccuracies in the broadcast Keplerian elements
b. Inaccuracies in the broadcast clock models
c. Delays that the signals experience passing thru the ionosphere and troposphere
d. RF Multipath at the receiver
e. Inaccuracies & noise within your receiver
f. Dilution of Precision because the spacecraft-to-observer geometry is imperfect and changes with time.

Items (a) and (b) arise in part because they depend on measurements made on the ground with instruments that have all the errors, in part because the physical models don't account for everything (like the Keplerian elements not fully accounting for all the Relativistic corrections, solar radiation pressure on the satellite, inaccuracies in the gravity model, etc). Such errors can amount to a few meters in position.

The most serious (a)+(b) error is that the DoD intentionally degrades the spacecraft's atomic clock performance and may not send the "world's best" Keplerian elements under the policy known as Selective Availability (SA). The most significant SA error is the dithering of the clocks, which results users seeing their position wandering around by up to 100 meters and speed error of 1-2 km/sec even when fixed.

The concept of DGPS attempts to fix several of these errors by doing the following:

1. A high-quality receiver is set up at a permanent site and its position is established accurate to a few cm.
2. This receiver only uses the visible GPS satellites to solve for clock errors and assumes its position is know perfectly.
3. The PR and PRR errors resulting from these assumptions are then broadcast on a separate radio link a few times per minute.

The accepted format for the DGPS data is specified in documentation published by the Radio Technical Committee, Maritime (RTCM) and RTCA (A=aircraft). The common format is officially named RTCM SC-104, but is usually just called RTCM. The data bits are a binary string encoded similarly to the GPS 50b/s downlink with 30-bit words (24 data bits, 6 error correction bits).

RTCM SC-104 data is now routinely transmitted as GMSK data (usually 100 or 200 b/sec) by the Coast Guard in the 280-320 kHz range from sites every few hundred km along the US coast and inland waterways. DGPS data is commercially available transmitted on subcarriers on FM broadcast stations.

These DGPS signals do more than just remove the effects of SA. Since the receiver that generates the correction data is using the same algorithms and data as the user to perform the orbital dynamics calculations, small errors in the ephemeris cancel out, as do errors in the clock models.

If the DGPS site is within ~50 km of you, the atmospheric corrections are similar at both ends.Hence the effects of the errors (a)+(b)+(c) are to a large extent canceled. In controlled zero-baseline tests (both the DGPS generator receiver and the test receiver operating from the same antenna, hopefully producing a known answer), I have seen sub-meter performance from the Motorola ONCORE receivers and at levels of a few meters from a Garmin GPS-45 with PR/PRR correction messages arriving every 20 seconds.

About 2 years ago, I put the W3IWI-13 DGPS beacon on the air on 145.79 and it operated for several months. The commercial receiver I was using to generate DGPS bits was needed elsewhere, the radio blew up and the antenna came down in an ice storm. I'm about ready to re-institute the service. Here is the setup:

- Site: The Goddard Geophysical & Astronomical Observatory (GGAO) near the intersection of Powder Mill Rd & The B-W Parkway. At GGAO, my group operates the GODE permanent GPS site for the International GPS Service for Geodynamics (IGS). The GODE antenna position is know at the mm-level with respect to the ITRF (International Terrestrial Reference Frame), and the antenna has an multi-port RF power splitter.
- GPS: The RTCM SC-104 signals are generated by a Trimble 4000SSE Geodetic receiver operating from the GODE antenna. The receiver's clock is derived from an external Hydrogen Maser atomic standard, accurate and stable at levels of ~1:10e14. The 4000SSE generates RTCM SC-104 bits at 4800 b/s and is set to a message rate of 20 seconds.

(the above widgets and facilities are clearly non-amateur! The amateur
interface is an RS232 connector at 4800 b/sec).

  - Amateur: Conventional packet station (TNC2, IC-27 radio, ~8db gain
    collinear antenna on 30' tower).

When I had W3IWI-13 on last time, I sent DGPS data once/30 sec, digipeating
thru WB4APR-1. The 30 second rate proved a bit too slow and the APR-1 link
was too marginal, so my plans are to use a 20 sec rate with no digipeaters
this time (also, APR-1 is off the air now). The coverage area should be
30-50 km radius, including Baltimore, Washington & Annapolis. The DGPS
data will be <UI> frames addressed W3IWI-13>DGPS. The RTCM SC-104 station
ID is 0073 (decimal).

As you monitor the UNPROTO frames, the RTCM data will appear as a random
string of text characters. When the 30-bit words are transmitted in pseudo-
ASCII, 6-bit nibbles are padded to 8 bits and all the resulting characters
are non-user-hostile (I hesitate to say user friendly since they are
gibberish hieroglyphics!) in that they are all printable (your screen won't
clear at random times and there should be no bells!).

So I ask the Balto/Wash APRSers if there are any objections to this added
145.79 QRM. Bob (APR) suggested that I kludge up a smart controller so that
users can turn the DGPS beacon on/off remotely, but this isn't in the cards
for right now for 2 reasons: (1)I haven't time to kludge the controller, and
(2) I want to be able to have totally passive (i.e. receive only) stations
make use of the data for some experiments I'm planning.

You can use the W3IWI-13 DGPS data by just plugging your TNC into your GPS
receiver and enabling RTCM (most GPS receivers expect 4800 baud data). In my
earlier tests, I was able to get performance of a few meters at my home QTH
about 25 km from the GGAO/GODE site. When DGPS is running, you will find
that your "I'm stopped but the $*%$#@& GPS still says I'm moving 2.3 MPH"
problems will disappear. We haven't tested it for a long time, but APRS
software used to support DGPS data just fine, passing <UI> frames addressed
to DGPS on to the GPS receiver [Bob -- do you predict it will STILL work??].
You'll know its alive when you see IWI-13 beacons. Please send me reports,
especially if you are able to make use of the DGPS data.

73 de Tom, W3IWI
w3iwi@amsat.org

---

619. Re: [APRSSIG:4887] Re: HF

From: "Doug M. Buhrman" <dbuhrman@les.lincoln.ne.us>
Date: Thu, 19 Sep 1996 13:28:01 +600
To: aprssig@tapr.org
Message-ID: <9609191824.AA50758@watts.les.lincoln.ne.us>
Rendered body type: text/plain

Actually the 60Hz is alot closer than +-2 Hz. Generally +-0.25
unless of course you are running from your generator or not connected
to the grid.

```
> Date:          Thu, 19 Sep 1996 09:33:29 -0500 (CDT)
> Reply-to:      aprssig@tapr.org
> From:          Paul Moller <Paul_Moller@csg.mot.com>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:4887] Re: HF
```

> Getting on the proper freq is a good idea, but make sure it is the correct
> freq. That is actually very simple to do, especially on 30m. Here's how I
> do it on the 30m band.
>
> Dial up the 10Mhz WWV. Zero beat it by ear. Connect an oscilloscope to your
> reciver audio. With the Trigger on the oscilloscope set to LINE, tune your
> radio until the trace stands still, with a period of about 16.7 ms. Its
> the getting the trace to stand still that is the important part here. Now
> you are exactly 60 off of 10,000,000 Hz plus or minus the accuracy of the
> 60hz coming into your house, which is about +/- 2Hz. Read your dial, and
> determine your dials error. (I have not found a radio yet that is not off
> freq. by at least 10hz using this method).
>
> Then go park yourself on the correct freq. and let other people who are not
> on the correct freq. miss the traffic.
>
>
> At 10:52 PM 9/18/96 -0500, you wrote:
> >> Peter, W7LUS, has a request that all zero beat to his station. He has
> >> the kind of TNC that is accurate to a hertz or so and has zero-beat

```
> >> himself to one of the often-heard stations in the NE.
> >>
> >
> Paul Moller
> Motorola CSG
> 847-523-5210
> Motorola pager #7378
>
>
Doug
```

---

620. GPS via Windows caution!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 14:53:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960919133448.17869D-100000@arctic>
Rendered body type: text/plain

```
I have had a BIG roof top stand alone tracker since 93.  But, I only tape
it to the roof for major trips or rare special events.  All the rest of
the time it sits on my BIG 3 foot by 4 foot dashboard under the largest
sloping windshield in america, the Pontiac Transport (Chevy Lumina, or
Olds Silohette)...

Now remember our trip to Dayton, when Will's GPS-45 would NOT work on
my dashboard, we speculated EMI from my crudely built original tracker
right next to it plus two laptops and 3 radios...  and left it at that...

Well today I did some specific GPS-45 testing with only the MIC in the
car and could not even get a fix.  Finally held the GPS-45 out the drivers
windows and got 8 satellites FULLSCALE!.  Bring it in on the dash, ALL
satellites go to ZERO!  Remember this is the worlds largest windshield
area! and very sloping...

Conclusions.  The full size magellan egg shell antenna on my stand alone
tracker has always worked on the dashboard (tho I have suspected it was
less than perfect)  The GPS-45 does not.  THe Van has heavy tinted windows
all around, but the WINDSHIELD is not tinted...  Anyway, it appears that
the glass in that window has 15 dB or more of attenuation!

This is a shock to me, since I had planned on using the MIC Encoder with
the GPS only on the dash.  Turns out my other cars have *NO* problem with
the GPS-45 on the dash...  and their windows are much smaller and more
straight up...  So  All windows are not created equal!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

621. Re: [APRSSIG:4891] Re: path control

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 19 Sep 96 11:53:37 -0700
To: <aprssig@tapr.org>
Message-ID: <199609191850.OAA09787@bridge.net>
Rendered body type: text/plain

```
>APRSdos REPLY/COMMENT:  No.  All routing of APRS packets is done by TNC's.
>The PC or Mac has nothing to do with it...  I dont want to hard limit
>anyone's choice of path when they enter it either, because some paths
>which are "BAD" most of the time are sometimes good under some unique
>circumstances...
>
Actually, it would not be too dificult to run a TNC in KISS mode, and
have the computer play with the forwarding. I have thought about doing
something like this, but never got around to working on it. May that is
what W1EO is doing.

Steve KO4HD
```

---

622. Re: [APRSSIG:4810] MIC Encoder Velocity

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 15:06:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960919145850.1756A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 17 Sep 1996, Terrance Kealey wrote:

> I am getting extremely large velocities reported on the APRS display.
```

> I am using the MIM 1.04 with MIC 1.01

APRSdos REPLY/COMMENT: At first I thought I had the CSE and SPD reversed
in APRS, but have since confirmed that that was fixed back in 75e. I did
two test runs with my APRS MicEncoder and can find no problem with the
course and speed. All appears as expected. I am using a GPS-45, Terrance
was using a GPS-20. Has anyone else seen this problem? Has anyone
noticed any difference in the $GPRMC sentence from the GPS-20 compared to
the GPS-45 in the course and speed fields?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

623. Re: [APRSSIG:4896] GPS via Windows caution!

From: "Randy Hammock" <hammock@wired.jpl.nasa.gov>
Date: Thu, 19 Sep 1996 12:41:03 -0700
To: aprssig@tapr.org
Message-ID: <9609191241.ZM17379@wired.jpl.nasa.gov>
Rendered body type: text/plain

On Sep 19, 2:01pm, Bob Bruninga wrote:
> less than perfect) The GPS-45 does not. THe Van has heavy tinted windows
> all around, but the WINDSHIELD is not tinted... Anyway, it appears that
> the glass in that window has 15 dB or more of attenuation!
>
> This is a shock to me, since I had planned on using the MIC Encoder with
> the GPS only on the dash. Turns out my other cars have *NO* problem with
> the GPS-45 on the dash... and their windows are much smaller and more
> straight up... So All windows are not created equal!

When I look at many of those vans, it appears that the wind"shields" have some
metallized coating. They have a gold tint to them. Polarized sunglasses
really show it.

>-- End of excerpt from Bob Bruninga

--
Randy Hammock   KC6HUR | Jet Propulsion Laboratory
EMail: hammock@wired.jpl.nasa.gov | 4800 Oak Grove Drive
Voice: +1-818-393-1214 | M/S: 264-580
Pager: +1-818-423-2062 | PASADENA CA 91109

624. Re: [APRSSIG:4896] GPS via Windows caution!

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Thu, 19 Sep 96 19:15:54 UTC
To: aprssig@tapr.org
Message-ID: <106671@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

WB4APR said:

> Conclusions. The full size magellan egg shell antenna on my stand alone
> tracker has always worked on the dashboard (tho I have suspected it was
> less than perfect) The GPS-45 does not. THe Van has heavy tinted windows
> all around, but the WINDSHIELD is not tinted... Anyway, it appears that
> the glass in that window has 15 dB or more of attenuation!

You shouldn't be so surprised. The really DARK tinting (quite popular in
this area among the Drug Barons!) is applied as an aftermarket film on
the windows. The "opaque but reflective" coating is chrome vapor deposited
on mylar. What are wire-wound resistors made of? niCHROME wire.

Both WA7CJO and I have used the "drug baron" window covering as microwave
absorbing material, like to tame down amplifiers that wanted to oscillate.
If you have a scrap of the material available, you can test its absorption
properties by sticking it in a microwave oven. If it gets hot, it absorbs.
In the case of the "drug baron" material, the microwave oven test proved
to be a flame test, with the material igniting after a couple of seconds!

So Bob, the basic answer is that you were trying to see GPS thru a thin
film of nichrome wire! The results don't surprise me a bit.

73, Tom

625. HF GATE SIG

From: William Nolle <wa8inz@cris.com>
Date: Thu, 19 Sep 1996 14:57:58 -0700
To: aprssig@tapr.org
Message-ID: <3241C1E6.73B0@cris.com>
Rendered body type: text/plain

Guys i think we should start calling this the HF GATE SIG instead of APRS
SIG. All i have seen for the last week and a half is WIDE,WIDE,WIDE, and
i thought we had problems on VHF with this ;-). It sounds to me like you
HF'ers are realy up on all this and are very well organized Hi.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

626. Re: [APRSSIG:4896] GPS via Windows caution!

From: mbary@nmaa.org (Mark L. Bary)
Date: Thu, 19 Sep 1996 16:41:57 -0700
To: aprssig@tapr.org
Message-ID: <3241DA45.4053@nmaa.org>
Rendered body type: text/plain

Bob Bruninga wrote:
> .... THe Van has heavy tinted windows all around, but the WINDSHIELD > is not tinted...

Yes it is; it may not be as deeply tinted (i.e. dark color) as your side
or even rear window but it is tinted. Can you see a little blue shaded
area at the top? That's the giveaway. Nowadays you almost CANNOT buy a
car in the US that does NOT have at least the basic tint from the
factory, especially if you order airconditioning in your car. Again, the
blue strip at the top of the windshield is the giveaway that you have
tinted windows.

Mark
N4EOC

---

627. Re: [APRSSIG:4893] Frequency Centering, 30m

From: wa4mej@juno.com (john w dent)
Date: Thu, 19 Sep 1996 16:42:47 PST
To: aprssig@tapr.org
Message-ID: <19960919.164250.8015.2.wa4mej@juno.com>
Rendered body type: text/plain

you all must know that ALL has missed the point ../.
1- the carrire freq. is what YOU are responsible for ,.. if your rig
messes up and you tx in a band that your ticket/license is not good
for.. oh well ..that in on you..

2- who is on freq.?????????/ DON'T THINK THE OTHER GUY IS HE THAS THE
SAME PROBLEM AS YOU   ....

3- read part 97   that is your responsibility ,DON'T be miss guided ..

4- i know the FLAME"S are comming BUT befor you do PLEASE get your
updated coppy of THE RULES   PART 97   IF you don't
have them then don't say any thing .

have fun with THE " ART" and help ..

73
john
wa4mej

---

628. Re: DGPS Tests in Balto/Wash Area

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Thu, 19 Sep 1996 17:28:28 -0400
To: aprssig@tapr.org, w3iwi@amsat.org
Cc: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)

Message-ID: <2.2.32.19960919212828.006f7044@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 13:40 9/19/96 -0500, clark@tomcat (Tom Clark -- W3IWI) wrote:
>
>This message is to inform the APRSers in the Balto/Wash area that I'm
>planning on re-instituting the W3IWI-13 high accuracy DGPS beacon on
>145.79 RSN (Real! Soon! Now! -- like maybe by this weekend). If you have
>any problems with the plans outlined below, speak up now.

Hallelujah; the sun shines once more.

[...]
>So I ask the Balto/Wash APRSers if there are any objections to this added
>145.79 QRM.

QRM, hell. QRM is from frequent position reports from all those fixed QTH's
that move at the speed of continental drift.

[...]
> Please send me reports,
>especially if you are able to make use of the DGPS data.

I'll be out on the bay this weekend listening with my Traxar. (The
sailboat is my real  hobby; cause it consumes more money.) A couple of
years ago when you did DGPS I naturally had no trouble copying the digi
from WB4APR-1 on the massive tower in Annapolis harbor. This time it may
be a little more dicey trying to copy the small tower at Goddard, but  I'll
give it
a try.
```

---

629. Re: [APRSSIG:4896] GPS via Windows caution!

From: "Michael Petz" <mpetz@ccm.stlcc.cc.mo.us>
Date: Thu, 19 Sep 1996 16:29:12 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960919164331.3937715a@ccm.stlcc.cc.mo.us>
Rendered body type: text/plain

```
We have a Chevy Lumina.  I found that my radar detector was quite deaf when
looking out the front window.  Months later, I noticed when I was standing
in front of the van there was a golden tint on the on the front window.  I
believe that they must have a very thin film of metal in the glass to
reflect some of the solar energy to cut down the greenhouse effect within
the vehicle.  I think that is why you are not receiving the GPS signal.
Since the van is fiberglass, it makes it hard to mount an antenna on the
body, since magnets won't work!
                                Michael
                                KA9HNT

At 02:00 PM 9/19/96 -0500, you wrote:
>I have had a BIG roof top stand alone tracker since 93.  But, I only tape
>it to the roof for major trips or rare special events.  All the rest of
>the time it sits on my BIG 3 foot by 4 foot dashboard under the largest
>sloping windshield in america, the Pontiac Transport (Chevy Lumina, or
>Olds Silohette)...
>
>Now remember our trip to Dayton, when Will's GPS-45 would NOT work on
>my dashboard, we speculated EMI from my crudely built original tracker
>right next to it plus two laptops and 3 radios...  and left it at that...
>
>Well today I did some specific GPS-45 testing with only the MIC in the
>car and could not even get a fix.  Finally held the GPS-45 out the drivers
>windows and got 8 satellites FULLSCALE!.  Bring it in on the dash, ALL
>satellites go to ZERO!  Remember this is the worlds largest windshield
>area! and very sloping...
>
>Conclusions.  The full size magellan egg shell antenna on my stand alone
>tracker has always worked on the dashboard (tho I have suspected it was
>less than perfect)  The GPS-45 does not.  THe Van has heavy tinted windows
>all around, but the WINDSHIELD is not tinted...  Anyway, it appears that
>the glass in that window has 15 dB or more of attenuation!
>
>This is a shock to me, since I had planned on using the MIC Encoder with
>the GPS only on the dash.  Turns out my other cars have *NO* problem with
>the GPS-45 on the dash...  and their windows are much smaller and more
>straight up...  So  All windows are not created equal!
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

>

---

630. Sorry bout that

From: Tom Busch <tomb@kiva.net>
Date: Thu, 19 Sep 1996 16:44:47 -0700
To: aprssig@tapr.org
Message-ID: <3241DAEF.47F8@kiva.net>
Rendered body type: text/plain

Just a note to say apologize for sending the RTF junk on the SIG. I know how irritating it can be. I thought I had turned that off, but apparently not.

Also, thanks for the low-order notes, personal and public, that I got.

TomB

---

631. Re: [APRSSIG:4896] GPS via Windows caution!

From: n2czf@magg.net (Richard Garcia)
Date: Wed, 18 Sep 1996 21:44:18 -0400
To: aprssig@tapr.org
Message-ID: <199609192144.RAA11727@grumpy.magg.net>
Rendered body type: text/plain

I just purchased a Trimble Antenna from PacComm at the Melbourne FL hamfest. All I can say is WOW! With the antenna on the dashboard I can get 4out of 8 Sats all the time, the impressive part is that this is with a METALIC Sunshield on the window!! I am never satisfied with "it works", if this was not impressive enough I then took the antenna and placed it on the only metal surface of my truck (89' Full Size Blazer). The only metal is located in the LOWER half of the dashboard near the glovebox and with the sunshield up I was still copying 4 out of 8 Sats! Note that the Blazer has heavy metalic tint on all rear glass and I have added more tint to the front windows due to the Florida sun.

Needless to say the antenna when on the dash with the shield down or taped to the front of my rearview mirror receives 8 out of 8 Sats most of the time. This is one great antenna and I am sure glad that I am not having any of the problems below. BTW the antenna works very well with the Garmin GPS-50, I have had no problems supplying current to it from the GPS. To tell you the truth I am not even sure if it is active or not but it works for me so I really do not care too much. Hey Gwen, is that thing active ? It sure acts like it is!

>Conclusions. The full size magellan egg shell antenna on my stand alone
>tracker has always worked on the dashboard (tho I have suspected it was
>less than perfect) The GPS-45 does not. THe Van has heavy tinted windows
>all around, but the WINDSHIELD is not tinted... Anyway, it appears that
>the glass in that window has 15 dB or more of attenuation!
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>

73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net (E-Mail)
http://www.magg.net/~n2czf (Personal)
http://www.magg.net/~n2czf/aprs.html (Florida APRS)
http://www.magg.net/~n2czf/brothers.html (Brothers to the Rescue Human Rights Group)

---

632. Re: [APRSSIG:4900] Re: GPS via Windows caution!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 18:27:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960919182212.23796H-100000@arctic>
Rendered body type: text/plain

On Thu, 19 Sep 1996, someone wrote:

> You shouldn't be so surprised. ... The "opaque but reflective" coating
> is chrome vapor deposited on mylar.
> So Bob, the basic answer is that you were trying to see GPS thru a thin
> film of nichrome wire! The results don't surprise me a bit.

APRSdos REPLY/COMMENT: That tinted windows are conductive I thought was

pretty well known. That my windshield is *not* tinted but still
exhibits the 15 dB attenuation is what surprised me, hi hi..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

633. Re: [APRSSIG:4896] GPS via Windows caution!

From: huey@juno.com (Huey M Fourquet)
Date: Thu, 19 Sep 1996 18:11:15 PST
To: aprssig@tapr.org
Message-ID: <19960919.181539.10214.2.huey@juno.com>
Rendered body type: text/plain

On Thu, 19 Sep 1996 14:00:12 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>all around, but the WINDSHIELD is not tinted... Anyway, it appears
>that the glass in that window has 15 dB or more of attenuation!
>
Bob, could it be that something under the dash is generating rf noise and
desensing the receiver? Maybe someting at the IF frequency?

Huey
KB1RH

---

634. Re: [APRSSIG:4826] Re: Poor Bob!

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 19 Sep 1996 18:52:27
To: aprssig@tapr.org
Message-ID: <199609192253.SAA11906@mail-e2b-service.gnn.com>
Rendered body type: text/plain

On Tue, 17 Sep 1996 Roger Sellers wrote:

>From where I sit at the top of Northern Illinois, we have a
>continuous string of stations that included parts of: Kansas,
>Missouri, Iowa, Illinois, Wisconsin, Indiana, and Michigan ...
>without a band opening or any gateways ... I count 7 for us to
>your 5 <grin>.

Okay. Here in New York City I normally see stations from:
New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
not to mention Washington DC. I raise you two states and a
District (hi-hi). 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

I am initiating an inverted tachyon pulse to those coordinates now.

---

635. GPS-20 Engine works!

From: "Kent V Hufford" <khufford@erols.com>
Date: Thu, 19 Sep 1996 22:54:53 +0100
To: <aprssig@tapr.org>
Message-ID: <199609192254.SAA01518@smtp1.erols.com>
Rendered body type: text/plain

I ordered a GPS-20 engine from TAPR right after Dayton. Got it a couple of
weeks later. I could not get it to send a full line of data. Tried all the
smoothing caps. and such. Tried my GARMIN 45 antenna. Finally Bob said to
send it back to TAPR for another one.

I did, just got it to work. Only took me 3 months! Anyway it dumps data
fine to Precision Mapping 1.1GPS. More important, it is working right with
the PICO TNC w/2nd serial port. Even works right with WINaprs.

Also my DFjr works great... BUT only in standalone mode. I still cannot get
it to work with the GPS/TNC/winaprs.

I went and looked at the winAPRS web site. The front end is still dated mid
SEP 95, announcing the coming release at Dayton.

Maybe by next Dayton they will get HSP working.

Thought I saw, or read, or was told that the DFjr WORKS with winaprs, GPS,
TNC with the DFjr "mulitport adapter"... guess I was just dreaming.

Now if BOB can get the digi's back up so those of us in Northern Virgina
can see the rest of the right coast.

Anyone going to the Virgina Beach Ham fest this Sat.?

hope springs eternal..

Kent
KQ4KK

---

636. Re: [APRSSIG:4909] Re: GPS via Windows caution!

From: ttyamada@CCGATE.HAC.COM
Date: Thu, 19 Sep 96 16:35:45 PST
To: aprssig@tapr.org
Message-ID: <9608198431.AA843176568@CCGATE.HAC.COM>
Rendered body type: text/plain

```
Maybe it's the goop between the glass?

     ( the rubber/gel/whatever-it-is stuff that holds
       the safety glass together)??

     Just guessing,
     Ted...


______________________________ Reply Separator _________________________________
Subject: [APRSSIG:4909] Re: GPS via Windows caution!
Author:  aprssig@tapr.org at CCGATE
Date:    9/19/96 4:18 PM


On Thu, 19 Sep 1996 14:00:12 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>all around, but the WINDSHIELD is not tinted...  Anyway, it appears
>that the glass in that window has 15 dB or more of attenuation!
>
Bob, could it be that something under the dash is generating rf noise and
desensing the receiver?  Maybe someting at the IF frequency?

Huey
KB1RH
```

---

637. Re: [APRSSIG:4911] GPS-20 Engine works!

From: Joe Agrelo <jagrelo@concentric.net>
Date: Thu, 19 Sep 1996 20:22:38 -0700
To: aprssig@tapr.org
Message-ID: <32420DFE.1628@concentric.net>
Rendered body type: text/plain

```
Kent V Hufford wrote:

> Also my DFjr works great... BUT only in standalone mode. I still cannot get
> it to work with the GPS/TNC/winaprs.

Hi Kent,

Right now all three only work with DOS & MAC APRS, WinAPRS has it implemented
but not running because of the HSP not working yet. I'm sure the Sprouls
are working on it and are very close.

> Thought I saw, or read, or was told that the DFjr WORKS with winaprs, GPS,
> TNC with the DFjr "mulitport adapter"... guess I was just dreaming.

Don't feel bad I thought it did too! Wake up Kent! hi;-)

> Kent
> KQ4KK

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
```

```
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

638. Re: [APRSSIG:4910] Re: Poor Bob!

From: rwf <rwf@mindspring.com>
Date: Thu, 19 Sep 1996 20:23:58 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960920002358.0072c6a8@mindspring.com>
Rendered body type: text/plain

```
At 06:15 PM 9/19/96 -0500,  Someone from New York City wrote:

>     Okay.  Here in New York City I normally see stations from:
>New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
>York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
>not to mention Washington DC.  I raise you two states and a
>District (hi-hi).  73


Here in Grorgia, we have Counties bigger than some of those states.
And...  I left Kentucky and Mississippi off my original list.
hehe
```

639. Re: [APRSSIG:4851] Re: Help w/ commercial UHF radio

From: Glenn Little <glittle@awod.com>
Date: Thu, 19 Sep 1996 20:41:25 -0400
To: aprssig@tapr.org
Message-ID: <199609200032.UAA22892@sumter.awod.com>
Rendered body type: text/plain

```
At 01:06 PM 9/18/96 -0500, you wrote:
>
>To try to answer Cliff's questions:
>
>>There have been a number of comments regarding the Garmin 20 and the power
>>supply requirements needed.  I, too, have had a terrible time using most
>>home supplies even with large 2000 ufd caps on the output of the 5 volt
>>regulator.  Apparently, one must turn the unit on from a stiff five
>>volt supply, not necessarily turn on a supply in which a large capacitor
>>needs to be charged.  Can anyone confirm this?

snip

>>From what I have seen, the GPS-20's are >>VERY<< twitchy on their +5v DC
>requirements. Apparently there is a processor reset threshold  detector
>that is set too close to 5.0000v. In my "TAC Lite" (see schematic at URL
>ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/tac-lite.zip or in
>the latest TAPR PSR), I found that the GPS-20 would work reliably >>ONLY<<
>if the supply voltage was raised to ~+5.2v. In the TAC-LITE, this was done
>by lifting the COMMON (i.e. tab, i.e. center pin) on a 7805 above ground
>with a ~27 ohm resistor. It changed the GPS-20 from being very unreliable
>to perfectly reliable. The new TAC-2 "universal TAC" PCB (now at the PCB
>house, hopefully available soon as a TAPRized kit) includes provisions for
>such tweaks on the board.
>
snip

>73 de Tom, W3IWI
>
>
>

At the company where I work, we use a lot of Motorola microprocessors.
The "should" work 4.90 to 5.10 volts as I remember.
If the supply gets down to 5.02 volts the micro goes out into left field.
We also have to keep the +5 volt supply elevated to at least 5.1 volts for
reliable operation.

73
Glenn Little
WB4UIV
```

640. Re: [APRSSIG:4914] Re: Poor Bob

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Thu, 19 Sep 1996 21:08:27 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.95.960919210617.22953C-100000@outland.dtcc.edu>
Rendered body type: text/plain

```
Some guys are just jealous that they are just a measly county.
Sam K3BY (almost the only station in Delaware).


On Thu, 19 Sep 1996, rwf wrote:

> At 06:15 PM 9/19/96 -0500,  Someone from New York City wrote:
>
> >     Okay.  Here in New York City I normally see stations from:
> >New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
> >York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
> >not to mention Washington DC.  I raise you two states and a
> >District (hi-hi).  73
>
>
> Here in Grorgia, we have Counties bigger than some of those states.
> And...  I left Kentucky and Mississippi off my original list.
> hehe
>
```

---

641. Re: [APRSSIG:4899] Re: GPS via Windows caution!

From: Chris Dapples <ccdapple@wtp.net>
Date: Thu, 19 Sep 1996 19:17:46 -0600
To: aprssig <aprssig@tapr.org>
Message-ID: <9609200117.AA08092@wtpprod1.wtp.net>
Rendered body type: text/plain

```
Greetings from Red Lodge, Montana. (60 miles NE of Yellowstone Natl
Park).
        I am just starting to setup an APRS base station and also mobile.
My experiencec with windshields has been that any of them that have
electrical
defrost are as good as solid lead to RF.  So far, the GPS antenna
has to be outside.

        Does anyone have info on making your own GPS antenna?  I ordered
one from Magellen, but they seem pretty costly for not much antenna.
Chris Dapples, KF7KN
ccdapple@wtp.net


>     From: hammock@wired.jpl.nasa.gov
>     Date: 9/19/96  2:27:25PM
>     To: aprssig
>     Subject: [APRSSIG:4899] Re: GPS via Windows caution!
>
>     On Sep 19,  2:01pm, Bob Bruninga wrote:
>     > less than perfect)  The GPS-45 does not.  THe Van has heavy
>     tinted windows
>     > all around, but the WINDSHIELD is not tinted...  Anyway, it
>     appears that
>     > the glass in that window has 15 dB or more of attenuation!
>     >
>     > This is a shock to me, since I had planned on using the MIC
>     Encoder with
>     > the GPS only on the dash.  Turns out my other cars have *NO*
>     problem with
>     > the GPS-45 on the dash...  and their windows are much
>     smaller and more
>     > straight up...  So  All windows are not created equal!
>
>     When I look at many of those vans, it appears that the
>     wind"shields" have some
>     metallized coating.  They have a gold tint to them.  Polarized
>     sunglasses
>     really show it.
>
>     >-- End of excerpt from Bob Bruninga
>
>
>
>
>     Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
>     EMail: hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
>     Voice: +1-818-393-1214             |  M/S: 264-580
>     Pager: +1-818-423-2062             |  PASADENA CA 91109
```

>
>
>

---

642. APRS and Linux

From: Chris Dapples <ccdapple@wtp.net>
Date: Thu, 19 Sep 1996 19:17:43 -0600
To: aprssig <aprssig@tapr.org>
Message-ID: <9609200117.AA08109@wtpprod1.wtp.net>
Rendered body type: text/plain

Is anyone using Linux AND aprs?? I have been using Linux for several years and it really works great for BBS (TNOS) and satellite gateway stuff. I want to add APRS to my setup, but sofar have been unable to get APRS to run in the "DOSEMU" mode. Any ideas?

Chris Dapples, KF7KN
ccdapple@wtp.net

---

643. Re: [APRSSIG:4908] Re: GPS via Windows caution!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 21:50:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960919214921.522A-100000@arctic>
Rendered body type: text/plain

On Thu, 19 Sep 1996, Bob Bruninga wrote:

> APRSdos REPLY/COMMENT: That tinted windows are conductive I thought was
> pretty well known. That my windshield is *not* tinted but still
> exhibits the 15 dB attenuation is what surprised me, hi hi..

APRSdos REPLY/COMMENT: Ok, I give in. It must be tinted.. just doesnt look like it... Anyway, another vote for external GPS antennas, hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

644. RE: DGPS rexmitting

From: KD4EMI@aol.com
Date: Thu, 19 Sep 1996 21:45:28 -0400
To: aprssig@tapr.org
Message-ID: <960919214527_312934199@emout02.mail.aol.com>
Rendered body type: text/plain

For what it's worth, I cant figure out why it is legal to transmit something that another "service" makes available. Isn't there some rule about that?

If DGPS is a service that is available isnt it a no no to Xmit that ?
Also, doesnt the CG already broadcast that in the area ?

MIke KD4EMI@AOL.COM

---

645. Re: [APRSSIG:4905] Re: GPS via Windows caution!

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 19 Sep 1996 21:55:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960919215322.17481B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Thu, 19 Sep 1996, Michael Petz wrote:
(snip)

> Since the van is fiberglass, it makes it hard to mount an antenna on the
> body, since magnets won't work!

Yes, but it also makes it practical to mount the antenna INSIDE the car overhead, since the signals will pass thru the fiberglass (one local had done just that here in Boston)

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

646. APRS Va Beach Hamfest

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Sep 1996 21:57:13 -0400 (EDT)
To: aprssig@tapr.org

Message-ID: <Pine.GSO.3.95.960919215248.522B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 19 Sep 1996, Kent V Hufford wrote:

> Anyone going to the Virgina Beach Ham fest this Sat.?

APRSdos REPLY/COMMENT:  APRS session at 1400 Saturday.  I cant believe I
am going to do 8 hours of driving for a 1 hour pitch.
Probably 6 people will show...   Ill go down 301 and 17, you will probably
go 95.  Maybe we will see each other simplex, h i hi.  I will be running
APRS MicEncoder on whatever 2m voice repeater is strongest.  147.15 in MD,
147.015 near frederick.  Ill try to get into 146.88 in RIchmond,  dont
know any repeaters in Va Bch...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

647. Subscribe

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Thu, 19 Sep 1996 21:56:46 EDT
To: aprssig@tapr.org
Message-ID: <19960921.074049.4647.2.WD4CQE@juno.com>
Rendered body type: text/plain

```
subscribe

wd4cqe@juno.com
```

---

648. Re: [APRSSIG:4919] Re: GPS via Windows caution!

From: rwf <rwf@mindspring.com>
Date: Thu, 19 Sep 1996 23:12:48 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960920031248.00709ee0@mindspring.com>
Rendered body type: text/plain

```
>On Thu, 19 Sep 1996, Bob Bruninga wrote:
>
>
>APRSdos REPLY/COMMENT:  Ok, I give in.  It must be tinted.. just doesnt
>look like it...  Anyway, another vote for external GPS antennas, hi  hi
>

Why Bob? Just put it in the back seat.  Isn't the roof of that buggy made of
fiberglas?
```

---

649. Re: [APRSSIG:4914] Re: Poor Bob!

From: Cap Pennell <cap@cruzio.com>
Date: Thu, 19 Sep 1996 20:27:04 -0700
To: aprssig@tapr.org
Message-ID: <32420F08.1998@cruzio.com>
Rendered body type: text/plain

```
rwf wrote:
>
> At 06:15 PM 9/19/96 -0500,  Someone from New York City wrote:
>
> >     Okay.  Here in New York City I normally see stations from:
> >New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
> >York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
> >not to mention Washington DC.  I raise you two states and a
> >District (hi-hi).  73
>
> Here in Grorgia, we have Counties bigger than some of those states.
> And...  I left Kentucky and Mississippi off my original list.
> hehe
>
> .-

N6RZR-3 (NE of Redding) to KD6KQ-3 (NE of San Bernardino) on 145.010Mhz.
600 miles in only 1 state!  We have another VHF net on 145.790Mhz in the
Southern part of our state.  Hope to see you all visit real soon!
73.  Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com
packet radio: ke6afe@kg6ee.#cenca.ca.usa.noam
```

---

650. Re: [APRSSIG:4910] Re: Poor Bob!

From: rsellers@firecraker.com (Roger Sellers)
Date: Thu, 19 Sep 1996 23:22:22 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609200422.XAA16166@tapr.org>
Rendered body type: text/plain

```
>
>On Tue, 17 Sep 1996 Roger Sellers wrote:
>
>>From where I sit at the top of Northern Illinois, we have a
>>continuous string of stations that included parts of: Kansas,
>>Missouri, Iowa, Illinois, Wisconsin, Indiana, and Michigan ...
>>without a band opening or any gateways ... I count 7 for us to
>>your 5  <grin>.
>
>     Okay.  Here in New York City I normally see stations from:
>New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
>York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
>not to mention Washington DC.  I raise you two states and a
>District (hi-hi).  73

 Yeah, but other than New York, Virginia, and Pennsylvania, there all little
ones. So the rest only count half. So at that you still got six and a half.
And the winner is.......

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

651. pcmcia cards

From: Ron Reeves <reeves@christenson.com>
Date: Thu, 19 Sep 1996 21:35:16 -0700
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960920043516.006651b4@hevanet.com>
Rendered body type: text/plain

After reading the interest in pcmcia cards I started searching the net to see what exists. Has anyone ever tried the gps pcmcia cards? They look like they might save in cables, batteries, and effort in making a complete portable setup.   The cost is fairly high (around $600.00-$700.00), but if they work great the convenience may be worth the extra cost. And, should a tnc pcmcia card appear on the market it would be easy to get a small hassle free setup.

The site I found info about the gps card was http://envoydata.com/index.html
And the unit I looked at was a Centennial TechnologiesThe SatNav GPS. But I see that trimble also makes one.

***Bob will they work with APRS DOS??

P.S. How are the APRS shirts coming??

Ron Reeves
N7QXO
reeves@christenson.com

Make it idiot-proof and someone will make a better idiot.

---

652. Re: Poor Bob!

From: aa7ya@juno.com
Date: Fri, 20 Sep 1996 00:46:56 EDT
To: aprssig@tapr.org
Message-ID: <19960919.211332.8279.0.aa7ya@juno.com>
Rendered body type: text/plain

On Thu, 19 Sep 1996 18:15:59 -0500 (CDT) Arte Booten <N2ZRC@gnn.com>
writes:

```
>On Tue, 17 Sep 1996 Roger Sellers wrote:
>
>>From where I sit at the top of Northern Illinois, we have a
>>continuous string of stations that included parts of: Kansas,
>>Missouri, Iowa, Illinois, Wisconsin, Indiana, and Michigan ...
>>without a band opening or any gateways ... I count 7 for us to
>>your 5  <grin>.
>
>     Okay.  Here in New York City I normally see stations from:
>New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
>York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
>not to mention Washington DC.  I raise you two states and a
>District (hi-hi).  73
>
>

>From here atop my little "knob", I "see" stations from VE5-land
VE6-land, and VE4-land, not to mention Montana, and North
Dakota, all on 2 meters... So I can safely say, I can work
"DX" on 2 meters, without an opening. heh-heh


>               Arte Booten <N2ZRC@gnn.com>
> (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
>I am initiating an inverted tachyon pulse to those coordinates now.
>
>

Stacey, aa7ya@juno.com
```

---

653. Re: [APRSSIG:4920] RE: DGPS rexmitting

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 19 Sep 96 22:22:15 -0700
To: <aprssig@tapr.org>
Message-ID: <199609200519.BAA19104@bridge.net>
Rendered body type: text/plain

```
>For what it's worth, I cant figure out why it is legal to transmit something
>that another "service" makes available.  Isn't  there some rule about that?
>
>If DGPS is a service that is available isnt it  a no no to Xmit that ?
>Also, doesnt the CG already broadcast that in the area ?
>
This data isn't retransmitted, it is being generated by Tom's equipment.
Totally legal.

Steve KO4HD
```

---

654. Garmin-20 GPS power problems

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 20 Sep 1996 00:46:30 -0600
To: aprssig@tapr.org
Message-ID: <v02140b02ae67ecb0384b@[199.1.11.105]>
Rendered body type: text/plain

```
Just so people who delete message if the subject is not of
interest , there has been some good information about
the Garmin-20 power turn on problem posted under the subject of:

"Re: Help w/ commercial UHF radio"

You may want to re-scan if you have the Garmin-20 unit.
and if you reply to that thread you might want to rename it.


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

655. Map Data anomalies

From: "Bill Neal/N0NSA" <wmn3@dfw.net>
Date: Fri, 20 Sep 1996 00:36:42 -0500
To: <aprssig@tapr.org>
Message-ID: <9609200539.AA17294@dfw.dfw.net>
Rendered body type: text/plain

Hello;
I've been having problems with MK100K2A. Currently I have several geographic areas (over 150 files) in the DLG directory (folder). When I run MK100K2A it'll start making a 16 mile or less map, but will only make certain sections of the overall map. The missing sections seem to conform to the USGS files (ftp'ed files). It will make a map, with sections missing, reduce the map points, show it as in APRS, and quit the program as per normal.

Won't MK100K2A crash/stop if all the USGS files for a given map scale/area are not in the DLG directory? Can you have too many files in the DLG directory?

I know that with Win 3.1/3.11, file manager, a compressed hard drive, running Defrag once in a while, and you move (not copy) files from one directory to another, Windows sometimes doesn't set the new directory name/location correctly for DOS programs to read. However, Windows will still be able to find and use those same programs/files, in the directories that they've been moved to.

I'm now running Win 95, up-graded from Win 3.11, and am wondering if this isn't a symptom of the aforementioned problem... Anyone have any suggestions or fixes?

I'm going to buy a new HD so I don't have to compress it. Maybe this problem will go away... I hope.

Cheers, Bill Neal
wmn3@dfw.net
http://www.dfw.net/~wmn3/

---

656. Ballon Launch

From: William Nolle <wa8inz@cris.com>
Date: Fri, 20 Sep 1996 01:33:01 -0700
To: aprssig@tapr.org
Message-ID: <324256BD.EAF@cris.com>
Rendered body type: text/plain

```
Another reminder of the balloon lauch here in Huntsville, Alabama.

It looks like the weather might cooperate with us.

Date:   Sunday September 22
Time:   0700 - 0900 CST, Most likely 07:30 CST
        34 41'15 North
        86 33'35 West

        Altitude above 75,000 feet

        Anticipated landing area, ear Grant, Alabama
        34 31' 4 North
        86 14'23 West

Profile:
        Two (2) hours climb to max altitude
        One (1) hour drift at max altitude
        Thirty (30) minute descent

Callsign:
        The ATV downlink will be identified by an automatic video
        overlay (About every 6 minutes) by the call KE4ROC-11

        All packet transmissions from the balloon package will also be
        identified by the call sign KE4ROC-11

ATV:
        One Watt, PC Electronics KPA5 70cm ATV transmitter
        "Little wheel" Horizontal polarized Antenna
        434.000 Mhz transmit freq (Cable ready TV Chan 59)

Telemetry/GPS:

        Five (5) Watt MFJ data radio transmitting on 145.790 Mhz
        APRS Automatic Position Reporting System

        APRS Telemetry will also be transmitted on 145.790

Please look for the balloon and look at the Text file on Tapr called
HSVBALL.TXT for all the info on this balloon.
```

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

657. Re: [APRSSIG:4888] Re: Poor Bob!

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 20 Sep 1996 02:15:11 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960920021539.2cef87f8@mailhost.primenet.com>
Rendered body type: text/plain

```
At 09:58 AM 9/19/96 -0500, Doug Page wrote:
>
>
>Granted, but don't forget that the larger cellular providers have `Cellular
>On Trailer Systems' (COTS).  They use them primarily for large events such as
>the Super Bowl and the Olympics,  but I guarantee you that they are justified
>at least in part as being able to provide cellular service ASAP if the
>disaster knocks out normal service.  This, of course assumes that land lines
>(not to mention power) are available.
>

Funny you should mention that.  I was just talking to another ham today who
mentioned that last months storms in Phoenix not only knocked out the power,
but land lines as well.  He was with the Sun City VFD at the time and cell
phones were not working either, nor were their pagers.  BUT the 2-meter
repeater with emergency power atop a local hospital was working just fine.
I was in South Dakota at the time, but several friends called my mother to
find out where I was when they couldn't reach me at home.  They know I'm a
HAM and wanted to know what was going on as they were mostly incommunicado!

COTs is great when you can get them into the disaster area, but I remember
the blizzards of 1977 and 1978.  We had no power for a week because our
power substation shorted out due to being buried by TWENTY feet of snow!
Sure they had entire substations that could be trucked in and set up in
hours, but again TWENTY feet of snow!  Yes they had big helicopters flying
around that could lift the equipment, but again we had TWENTY feet of snow
(!) on the ground.  We had snow on the ground until the end of June that
year.  Ice flows on the Maumee River that spring were so thick they clogged
low lying streets and highways and had to be dynamited just so traffic could
get through.

I couldn't get ahold of my ARC the weekend of Field Day this year because
forest fires had burned up the phone lines going into the campground we were
staying at.

>Robert might also want to reread Part 97 to remind himself what the FCC thinks
>the purpose of HAM radio is...
>

Agreed.


Yeah, I know this is the APRS sig.  I'll get back on track.  (G)


73,

Mark Fellhauer
```

658. Re: [APRSSIG:4896] GPS via Windows caution!

From: Miami Network <0004818186@mcimail.com>
Date: Fri, 20 Sep 96 05:20 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <11960920102011/0004818186NA3EM@MCIMAIL.COM>
Rendered body type: text/plain

```
We have also had the "same" problem with the Chevy Lumina.  Inside the vehicle
it could not pick up any satellites and outside it worked just perfect!
```

73, Seymour, KC4NMY

---

659. Re: [APRSSIG:4931] Map Data anomalies

From: William Nolle <wa8inz@cris.com>
Date: Fri, 20 Sep 1996 08:48:19 -0700
To: aprssig@tapr.org
Message-ID: <3242BCC3.60C9@cris.com>
Rendered body type: text/plain

Bill Neal/N0NSA wrote:
>
> Hello;
> I've been having problems with MK100K2A. Currently I have several
> geographic areas (over 150 files) in the DLG directory (folder). When I
> run MK100K2A it'll start making a 16 mile or less map, but will only make
> certain sections of the overall map. The missing sections seem to conform
> to the USGS files (ftp'ed files). It will make a map, with sections
> missing, reduce the map points, show it as in APRS, and quit the program as
> per normal.
>

How large is the data in that directory (Meg)

> Won't MK100K2A crash/stop if all the USGS files for a given map scale/area
> are not in the DLG directory?   Can you have too many files in the DLG
> directory?

No it won't crash just because there is a file missing (It will make a half map)
But YES you can have to many files in that directory!. I have found that if you
have somewhere around 48 Meg it will work but much over that and you start having
problems. Also make sure there's nothing but map data in that directory (Nothing
else)

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

660. RE: [APRSSIG:4931] Map Data anomalies

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Fri, 20 Sep 96 13:37:25 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199609201355040376@msn.com>
Rendered body type: text/plain

for n0nsa
Upgrade to mk100kv3. I have posted it to TAPR.
This should take care of the problems u have encountered.
there were a few bugs that i think i have exterminated. With the new version
u can make a large number of maps in one sitting (up to 576). the new version
does not stop if u go outside of the available USGS data range. It just goes
to the next map and writes a comment in a .log file
Yes u can have too many dlg files. the current limit is 100. any extra are
ignored. which ones? depends on the order they are stored in the
sub-directory and how the "files" connand from qbasic reads them into a list.
I will forward more details posted on this sig earlier.
happy map making jack, KB4XF

---

661. followup on WIDE,WIDE,WIDE

From: Bill Northup <northup@sw.stratus.com>
Date: Fri, 20 Sep 1996 09:56:12 -0400 (EDT)
To: aprssig@tapr.org (APRS)
Cc: northup@sw.stratus.com (Bill Northup)
Message-ID: <199609201356.JAA06927@blackdog.sw.stratus.com>
Rendered body type: text/plain

I have been away since my last posting (forced to go to interop) so was not
able to follow up at that time. Before I left I heard form hasan schiers, N0AN
that he was sure he only was sending GATE,WIDE.

So last night I used a dumb terminal program to see what was coming out of the TNC. Within a minute I saw N0AN>GATE>WIDE>APRSW/H: followed by 6 N0AN>GATE>WIDE>WIDE>WIDE>APRSW/V:'s so it is our local gateway that is adding two WIDE's to the path. That sure looks like the gateway is adding to the unproto path.

Also I just saw the following posting:

```
> From local observation, I think that W1ON-3 is changing the paths of
>stations gatewaying through him by adding 1 WIDE to whatever the originating
>station sends. Initially, I think it was being done so that all of the HF
>stations would be heard by the local WIDE and Digipeated. I get the
>impression, based on the "nice" status messages it send out, it is a
>homebrew program doing the path modifications. Clearly APRS won't do that.
>
> The Sysop of the station is Doc, W1EO. Does anybody know his email address?
> Maybe some local in the Boston area can drop him a message next time W1EO
> shows up on the screen? I will if I see him!
>
>  73,
>
>  Tom Kinahan N1CPE
>
```

So it looks like it is a local issue, and explains why a number of us had seen so many WIDE,WIDE,WIDE's on the local VHF net and no one else outside of the area could confirm it. I will work with the local group to fix this issue.

Thanks to everyone that has watched us figure this out.

Bill

--

```
    Bill Northup, N1QPR         EMAIL n1qpr@amsat.org
                                QRP-NE #307
                                NorCal #1027
                                QRP-L  #356
```

---

662. Re: [APRSSIG:4911] GPS-20 Engine works!

From: Mark Sproul <sproul@ap.org>
Date: Fri, 20 Sep 1996 09:52:07 -0400
To: aprssig@tapr.org
Cc: khufford@erols.com
Message-ID: <v03007800ae6851114835@[165.1.27.20]>
Rendered body type: text/plain

>I went and looked at the winAPRS web site. The front end is still dated mid
>SEP 95, announcing the coming release at Dayton.
>

Kent,

The main Mac/WinAPRS page is date 4/30/96. The Announcment page from last year has NOT been removed.

>Maybe by next Dayton they will get HSP working.
>

I have told MANY MANY people MANY MANY times, I am working as FAST as I can on HSP, I have finally made some progress and will probably have it working fairly soon. This month is fairly well shot because Kieth has attended both the ARRL convention and is now at the DCC. He is giving a half day APRS seminar for the second year in a row.

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

663. Re: [APRSSIG:4772] Re: Washington State!

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 20 Sep 1996 08:03:22 -0700
To: aprssig@tapr.org
Message-ID: <199609201503.IAA27451@m1.sprynet.com>
Rendered body type: text/plain

Hey guy....

Any chance that you would be able to come to KC and help out with any of our events when we need trackers? Always need extra hands/trackers/laptops, etc...

We'd have a place for you to stay if you can help....Nothing in the immediate future but would sure like to get all the help we can find lined up for next spring/summer...

73 de Jim, KU0G

---

664. Re: [APRSSIG:4792] Poor Bob!

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 20 Sep 1996 08:05:18 -0700
To: aprssig@tapr.org
Message-ID: <199609201505.IAA27954@m1.sprynet.com>
Rendered body type: text/plain

>At 11:54 AM 9/16/96 -0500, the APRSmeister wrote:
>>Basically, from the biggest east coast net, we can now barely see anyone!
>>ARGH!!!
>
>Guess GA, Ala, TN, SC, NC becomes the biggest contiguous APRS net, then!
><smirk>
>
Well, that's nice, but WATCH OUT! Midwestern states are getting pretty solid on VHF now! MO, IL, IA, KS, NE, MN, MC.....<smirk><smirk>

73 de Jim, KU0G

---

665. Com port problems - WinAPRS

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Fri, 20 Sep 1996 11:18:51 -0700
To: <aprssig@tapr.org>
Message-ID: <199609201821.LAA09354@mail1.deltanet.com>
Rendered body type: text/plain

Greetings:

I am having a problem getting the serial port to open on WinAPRS Ver 1.13 (registered user).   It works fine on my win95 machine, but does not work on my 386. I have install win32s.dll and Freecell runs. I have added the serial DLL's to the windows directory and have a set in the winaprs folder as well. Previous to adding the serial DLL's to the windows directory a message came up stating serial DLL's needed.

Upon running the program I get quite a few windows that pop open that state Port failed to open. I am using com port 1 and this port works fine when running Paket 6.1 with my TNC. So I know that it is not a hardware problem.

Is there something I missed.

Thanks to all that respond.

73, KM6YH

---

666. Secondary Freq Ref for 30m

From: schiers@ames.net
Date: Fri, 20 Sep 96 11:15:01 -0500
To: aprssig@tapr.org
Message-ID: <199609201851.NAA12677@tapr.org>
Rendered body type: text/plain

After conferring with Bob about the "spreading" problem on the 30m net, I have zero'd to W3ADO, changed my alias to TUNE1 and placed this info in my beacon. Those of you who need to know "where" the net is actually operating, and can copy me well, may zero my signal.

The TUNE1 alias will allow you to ping me and see if you are on freq, assuming you are using Bob's software. You can also connect to N0AN-1 which is my tnc based bbs to confirm that you are on freq.

Note: This is NOT an indication of absolute frequency. It is an indication that you are on the same frequency as W3ADO and N0AN. Bob has indicated to me that W3ADO is THE standard for the net.

73,

hasan schiers, N0AN--
----
schiers@ames.net

---

667. Re: [APRSSIG:4927] pcmcia cards

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 20 Sep 1996 14:29:54 -0600
To: aprssig@tapr.org
Message-ID: <v02140b03ae67f136485e@[199.1.11.105]>
Rendered body type: text/plain

>After reading the interest in pcmcia cards I started searching the net to
>see what exists.

Socket, the same people who make the Serial PCMCIA card.
There are several others and Keith ,I seem to remember, has played
with them.

BUT why spend $600 for one card that still needs a cable to the antenna.
You can have four Garmin-20 or almost three Garmin-45 stand alone units.
They don't all output standard NMEA so will have limited application and
will need special software drivers for the different platforms and
software programs.

If we could get more than one built in serial port on our
portable computers we would not need these extra PCMCIA TNC/GPS cards.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

668. Re: [APRSSIG:4941] Com port problems - WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Fri, 20 Sep 1996 15:06:18 -0400
To: aprssig@tapr.org
Cc: kjm@deltanet.com
Message-ID: <v03007801ae689b15abe6@[165.1.27.20]>
Rendered body type: text/plain

>Greetings:
>
>I am having a problem getting the serial port to open on WinAPRS Ver 1.13
>(registered user). It works fine on my win95 machine, but does not work
>on my 386. I have install win32s.dll and Freecell runs. I have added the
>serial DLL's to the windows directory and have a set in the winaprs folder
>as well. Previous to adding the serial DLL's to the windows directory a
>message came up stating serial DLL's needed.
>
>Upon running the program I get quite a few windows that pop open that state
>Port failed to open. I am using com port 1 and this port works fine when
>running Paket 6.1 with my TNC. So I know that it is not a hardware
>problem.
>
>Is there something I missed.
>

In most of the other problems I have encountered the problem has been
incorrect or incomplete Windows settings for the Comm port. I know you
said that the other program works fine, this isnt good enough, some
programs for Windows 3.1 talk to the hardware directly or by-pass the
Windows stuff. WinAPRS goes thru the OS ONLY and therefore the Windows
settings MUST be set correctly.

Also try starting WinAPRS from the File manager, not from Icons or short
cuts, i found that this sometimes cures the problem.

Mark

```
________________________________________________________________________________
Mark Sproul                         |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                       |Work: 609-860-7120
North Brunswick, NJ                 |Fax:  609-860-7129
http://msproul.rutgers.edu/
________________________________________________________________________________
```

---

669. PicoPacket & MacAPRS

From: jm1@webspan.net (Jay Millard)
Date: Fri, 20 Sep 1996 16:15:57 +0000
To: aprssig@tapr.org
Message-ID: <v01510100ae6872ecdebc@[38.26.47.42]>
Rendered body type: text/plain

```
Is anyone running a PicoPacket with a Mac and MacAPRS who would be
available for a little "elmering".  Can't get the TNC out of converse
mode...aarghh.
Email direct so the bandwith police don't catch us.

Thanks in advance, Jay KD1LY
(Whose Kenwood 940S is back at Kenwood service, so no HF....dooouble aarghh.)

Jay Millard
Harmill Communications Inc.
** Amateur Radio Station KD1LY **
Darien, Connecticut  06820
```

---

670. Re: [APRSSIG:4894] DGPS Tests in Balto/Wash Area

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Fri, 20 Sep 96 19:47:12 UTC
To: aprssig@tapr.org
Message-ID: <106818@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
As a followup to yesterday's posting, be advised that the W3IWI-13 DGPS
beacon is on the air on 145.79 as of about noon today (9/21).

The DGPS QTH at my GODE ITRF site isn't the best in the world -- the terrain
is relatively low and the tower is only 30' tall. I am anxious to get signal
reports to see if the coverage is useful.

As WB4APR reported with disgust/frustration about the Balto/Wash situation:
>Basically, from the biggest east coast net, we can now barely see anyone!
>ARGH!!!
In watching the activity today I only saw 4 stations. If the coverage from
IWI-13 is inadequate, I don't have many choices in RELAY sites -- the best
would be WB3V-11. The DGPS beacon is currently sending <UI> frames to DGPS
with no VIA. If the direct IWI-13 coverage is inadequate for some in the
area, I wonder if you are able to copy WB3V-11? Since the DGPS signals
are designed to be used within 50-75 km of the beacon, and since the
beacon's heiroglyphics are sent every 20 seconds, I feel it would be
a bad idea to try to use multiple RELAY or WIDE routing.

To answer two other questions that were raised:
- All you should have to do to make use of the DGPS beacon signals is to
    -- set your TNC to 4800 baud
    -- make sure that the Monitor functions are working
    -- Poke the RS232 rcv output from your TNC into the serial input on
       your GPS receiver
    -- Enable DGPS inputs on the GPS receiver if necessary. For the Garmin
       GPS-38/40/45/455XL, go to the configuration menu and select the
       INTERFACES item. Then select either NMEA/RTCM or NONE/RTCM items.
       (for a 45XL, be sure to select 4800 baud to match the TNC speed).

  For testing the beacon's data output, I used a 45XL and it worked fine.
  You know that you are decoding DGPS signal by looking at the screen that
  shows GPS satellite az/el. At the top of that screen you will see text
  that says something like "3-D Differential", and the S-meter bars will
  show a "D" for those satellites that have DGPS corrections.

- Regarding the Coast Guard and legality: W3IWI-13 is using bits derived
  from a totally different source. Given the accuracy to which the antenna
  location is known, and the fact that a Hydrogen Maser frequency standard
  is in use, the accuracy of my corrections should be BETTER than those
  sent by the Coast Guard! So I consider the point moot.

  I'm not convinced that it would not be legal (double negative used
  intentionally for obfuscation!) for an amateur group to purchase one
  Coast Guard DGPS receiver (typically ~$500) and then re-send the bits
  on amateur frequencies. Since the Coast Guard gives the bits away free,
  they are in the public domain as soon as they are transmitted. This
  would probably not be the case for the DGPS bits sold commercially by
  DCI or ACUPOINT -- they "own" the bits and you subscribe to their service.
  But this is a point for all the Jail House lawyers to debate.


Again -- please give me feedback on (a) can you hear W3IWI-13 and if so
(b) does it work for you and if so (c) what kind of performance are you
seeing?

73, Tom
```

---

671. pcmcia comm ports info

From: Dick Mead <mead@hamal.usc.edu>
Date: Fri, 20 Sep 96 13:24:56 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.843251096.mead@hamal.usc.edu>
Rendered body type: text/plain

```
Since the subject came up, and I saw this in one of my magazines,
I thought I'd pass it on:

Quatech 800-553-1170 makes pcmcia serial cards, one of
which is a quad-port, using 4 DB-9's (not on the card :) )

Just FYI

Dick  WB6NGC
```

---

672. Re: [APRSSIG:4942] Secondary Freq Ref for 30m

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Sep 1996 16:41:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960920163919.5423F-100000@arctic>
Rendered body type: text/plain

```
On Fri, 20 Sep 1996 schiers@ames.net wrote:

> Note: This is NOT an indication of absolute frequency. It is an indication
> that you are on the same frequency as W3ADO and N0AN. Bob has indicated to
> me that W3ADO is THE standard for the net.

APRSdos REPLY/COMMENT:  Right or wrong, I guess I get to claim to be the
freq czar, hi hi    For those of you that dont know it, W3ADO is the
callsign of the Naval Academy Amateur Radio club.  Its HF APRS system is
in my office, hi hi...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

673. Dos/WinAPRS Symbols

From: BordingK@aol.com
Date: Fri, 20 Sep 1996 17:05:06 -0400
To: aprssig@tapr.org
Message-ID: <960920170505_482492125@emout03.mail.aol.com>
Rendered body type: text/plain

```
1.  Going thru the all imprtant Read Me files, I don't see an APRS symbol for
an Emergency Operations Center (EOC).  Have I missed something, seems like
one that would be needed.  A demo APRS station is up and running in the
Jacksonville, Florida EOC and we would like to use the appropriate symbol.
 Any suggestions?

2.   Also, how about a symbol for an evacuation shelter?  Maybe even one that
could be yellow prior to opening, green when open, and red when full or some
other informational system?

P.S.  Jacksonville, Florida now has a digi high (435' AGL) atop a building in
downtown due to the efforts of AA4QI.  Digi is AA4QI-1.  Work is still under
way to optimize the set up, but now we are on the APRS Map!

73s de KF4COH
Ken in Jax
```

---

674. Re: [APRSSIG:4905] Re: GPS via Windows caution!

From: n2czf@magg.net (Richard Garcia)
Date: Thu, 19 Sep 1996 21:36:04 -0400
To: aprssig@tapr.org
Message-ID: <199609202135.RAA10619@grumpy.magg.net>
Rendered body type: text/plain

```
Has anyone tried to attach a GPS antenna inside of these fiberglass bodies
(with silicone or such) and see if that worked?

snip>>
>Since the van is fiberglass, it makes it hard to mount an antenna on the
>body, since magnets won't work!
>                               Michael
>                               KA9HNT
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                              (E-Mail)
http://www.magg.net/~n2czf                             (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

---

675. Re: [APRSSIG:4944] Re: Com port problems - WinAPRS

From: ep@hurricane.net
Date: Fri, 20 Sep 1996 15:23:48 -0700
To: aprssig@tapr.org
Message-ID: <199609202213.PAA19188@wind.hurricane.net>
Rendered body type: text/plain

```
At 02:38 PM 9/20/96 -0500, you wrote:

>>I am having a problem getting the serial port to open on WinAPRS Ver 1.13
>>(registered user).   It works fine on my win95 machine, but does not work
>>on my 386.  I have install win32s.dll and Freecell runs.  I have added the
>>serial DLL's to the windows directory and have a set in the winaprs folder
>>as well.  Previous to adding the serial DLL's to the windows directory a
>>message came up stating serial DLL's needed.
>>
>>Upon running the program I get quite a few windows that pop open that state
>>Port failed to open.  I am using com port 1 and this port works fine when
>>running Paket 6.1 with my TNC.  So I know that it is not a hardware
>>problem.
>>
>>Is there something I missed.

You also failed to mention the COMPort DLL version-

If it is the origional, you might want to download an updated
version from MS....

73
Tom
```

---

676. HELP - APRS / GPS-45 & KPC-3

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 20 Sep 1996 16:04:07 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960920230407.0067ae08@mailhost.primenet.com>
Rendered body type: text/plain

```
Here is the problem, getting GPS data to run thru APRS, into a KPC-3 and be
transmitted.

SYSTEM:  IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS 7.7b, "Y"
harness (GPS-45 to Comp. Serial Port to KPC-3 Parallel Port).

I set the KPC-3 to a baud rate of 4800, the GPS-45 to NONE/NEMA and APRS to
baud rate of 4800.

What I get on the APRS screen is: the GPS data flowing across the bottom of
the screen, and in the top right hand corner I get the message "TNC not
responding" AND I/O-glitch. Therefor nothing is sent to the TNC to be
transmitted.

I have tried everything that I can think of, with out success. The really
maddening part is that last year I had this working on my IBM P\S Note just
fine.

HELP. I am stuck. Nothing that I have tried has worked. What am I doing
```

wrong, not doing..Etc.

In advance, thanks for taking the time to read this, and for any help that you may be.

73, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

677. Re: [APRSSIG:4945] PicoPacket & MacAPRS

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Fri, 20 Sep 1996 19:40:26 EDT
To: aprssig@tapr.org
Message-ID: <19960920.163751.4495.1.KC7LSP@juno.com>
Rendered body type: text/plain

On Fri, 20 Sep 1996 15:20:37 -0500 (CDT) jm1@webspan.net (Jay Millard) writes:

>Can't get the TNC out of converse mode...aarghh.
Jay, I don't know if I'm wasting bandspace here or not since I do not have a Pico Packet, but on AEA TNC's a good old fashioned "CONTROL-C" will put one back into COMMAND mode.

---

678. Re: pcmcia cards

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Fri, 20 Sep 1996 19:40:26 EDT
To: aprssig@tapr.org
Message-ID: <19960920.163751.4495.0.KC7LSP@juno.com>
Rendered body type: text/plain

On Fri, 20 Sep 1996 14:36:18 -0500 (CDT) kc5ejk@onramp.net (Robert Winingham) writes:

>BUT why spend $600 for one card that still needs a cable to the antenna.
>You can have four Garmin-20 or almost three Garmin-45 stand alone units.

I understand where you are coming from; I have to scrimp & save for my toys. Now, when it comes to ease of use, that is the >major< part of my enjoyment factor. In fact, size is about the only thing that will get me to spend more.

When I go on trips with my family, we carry enough junk as it is. Adding numerous extras like external power
supplies, cables & fittings does not appeal to me in the least. About the only time I do put up with cable spaggetti is when I'm called out on ARES duty.

73, Kevan

Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM

Cruise Missile Coordinates :   4631.17N/12255.10W

---

679. KC7LSP: Re: pcmcia cards

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Fri, 20 Sep 1996 19:46:47 EDT
To: aprssig@tapr.org
Message-ID: <19960920.164420.4495.2.KC7LSP@juno.com>
Rendered body type: text/plain

On Fri, 20 Sep 1996 14:36:18 -0500 (CDT) kc5ejk@onramp.net (Robert Winingham) writes:

>BUT why spend $600 for one card that still needs a cable to the antenna.
>You can have four Garmin-20 or almost three Garmin-45 stand alone units.

I understand where you are coming from; I have to scrimp & save for my toys. Now, when it comes to ease of use, that is the >major< part of my enjoyment factor. In fact, size is about the only thing that will get me to spend more.

When I go on trips with my family, we carry enough junk as it is. Adding numerous extras like external power
supplies, cables & fittings does not appeal to me in the least. About

the only time I do put up with cable spaggetti is when I'm called out on
ARES duty.

73, Kevan

Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM

Cruise Missile Coordinates :   4631.17N/12255.10W

---

680. Re: [APRSSIG:4832] PCMCIA TNC

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Fri, 20 Sep 1996 20:00:55 EDT
To: aprssig@tapr.org
Message-ID: <19960920.165749.4495.5.KC7LSP@juno.com>
Rendered body type: text/plain

On Wed, 18 Sep 1996 08:20:56 -0500 (CDT) Gwyn Reedy <gwyn@paccomm.com>
writes:

>And above all it would have to be inexpensive (I know - we regularly get

>berated for charging what we do for TNCs and radios - from people who
>have no appreciation of the costs of running a business....)

I agree, peole want everything cheap, but forget the first rule of
commerce. ...
>>> If 'dere ain't no profit, 'dere ain't no product. <<<

Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM

Cruise Missile Coordinates :   4631.17N/12255.10W

---

681. Re: [APRSSIG:4947] pcmcia comm ports info

From: Dale Seaburg <dseaburg@web-access.net>
Date: Fri, 20 Sep 1996 20:00:55 -0500
To: aprssig@tapr.org
Message-ID: <32433E47.798F@web-access.net>
Rendered body type: text/plain

Dick Mead wrote:
>
> Since the subject came up, and I saw this in one of my magazines,
> I thought I'd pass it on:
>
> Quatech 800-553-1170 makes pcmcia serial cards, one of
> which is a quad-port, using 4 DB-9's (not on the card :))
>
> Just FYI
>
> Dick WB6NGC

Here's their homepage:

http://www.quatech.com/public/default.htm

Look under What's New to find the QSP100 quad port card.

Dale Seaburg KG5LT
dseaburg@web-access.net

---

682. Re: [APRSSIG:4952] HELP - APRS / GPS-45 & KPC-3

From: David Wells <davew@cruzio.com>
Date: Fri, 20 Sep 1996 20:15:07 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9609201814.ab10621@cruzio.com>
Rendered body type: text/plain

At 06:25 PM 9/20/96 -0500, you wrote:
>Here is the problem, getting GPS data to run thru APRS, into a KPC-3 and be
>transmitted.
>
>SYSTEM: IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS 7.7b, "Y"
>harness (GPS-45 to Comp. Serial Port to KPC-3 Parallel Port).
>

>I set the KPC-3 to a baud rate of 4800, the GPS-45 to NONE/NEMA and APRS to
>baud rate of 4800.
>
>What I get on the APRS screen is: the GPS data flowing across the bottom of
>the screen, and in the top right hand corner I get the message "TNC not
>responding" AND I/O-glitch. Therefor nothing is sent to the TNC to be
>transmitted.
>
>I have tried everything that I can think of, with out success. The really
>maddening part is that last year I had this working on my IBM P\S Note just
>fine.
>
>HELP. I am stuck. Nothing that I have tried has worked. What am I doing
>wrong, not doing..Etc.
>
>In advance, thanks for taking the time to read this, and for any help that
>you may be.
>
>73, Alan
>Alan K. Unangst, WC7R
>E-mail: alanwc7r@primenet.com
>Amateur Radio Packet: WC7R @ KB7FRV
>
>.-
>

Alan,
The "Y" cable is the problem. You cannot feed the GPS to the TNC and have
the TNC trying to communicate with the computer at the same time. You need
to use a switch or feed the GPS to one com port and the TNC to another. That
is what I do with my GPS75 and KPC-3.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA

---

683. Re: [APRSSIG:4868] Re: HF

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 20 Sep 1996 22:19:45 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609202230.A298-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Peter described it to me one day. It has an excellent modem that has
excellent filtering. It knows where exact center frequency is for the
tones. Once you know that then you know how far off you are from the
others or vice versa if you are the standard. He had me going up and
down 10 hz at a time tweaking in my frequency to his.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Wed, 18 Sep 1996, Richard Garcia wrote:

> What kind of TNC is that ? I have never heard of a TNC that is accurate to a
> hertz or so. What I mean is that I have never known that it matters what
> quality of TNC you have when it comes to RF frequency. I have always thought
> that is a factor of the radio not TNC.
>
> >Peter, W7LUS, has a request that all zero beat to his station. He has
> >the kind of TNC that is accurate to a hertz or so and has zero-beat
> >himself to one of the often-heard stations in the NE.
> >
> >
> >John W. Wilson, KN4HX
> >z004391b@bcfreenet.seflin.lib.fl.us
> >
> 73's Rich N2CZF
> Jupiter Farms Florida
> n2czf@magg.net   (E-Mail)
> http://www.magg.net/~n2czf   (Personal)
> http://www.magg.net/~n2czf/aprs.html   (Florida APRS)
> http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
> Rights Group)

```
>
```

---

684. Re: [APRSSIG:4874] Re: HF

```
From: John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 20 Sep 1996 22:22:23 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609202254.B298-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain
```

```
All it takes is one station to start with.  If the Easterners beat to
Peter and the Westerners beat to one of them then they are all together.
Pick a station, hopefully one with a stable rig, and start there.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Wed, 18 Sep 1996, Doug Wetzel wrote:

> John W Wilson wrote:
> >
> > Peter, W7LUS, has a request that all zero beat to his station.  He has
> > the kind of TNC that is accurate to a hertz or so and has zero-beat
> > himself to one of the often-heard stations in the NE.
> >
>
> Unfortunately, I don't often hear Peter direct.  If N0AN, KU0G, or KF0ZH
> can hear him and sero beat, those of us west of the Rockies can probably
> get back on the dead center of the net.
>
> Doug
> KC7CO
>
```

---

685. Re: [APRSSIG:4879] Re: PCMCIA ?????

```
From: John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 20 Sep 1996 22:29:15 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609202252.E298-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain
```

```
That was my first feeling, that it would be too flimsy.  I have two
PCMCIA cards, a LAN and a MODEM card, and both have very delicate
connectors.  I would not use one in the car if it was open to being
bumped. The things are just too expensive.
73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Thu, 19 Sep 1996, Roger Sellers wrote:

> >I understand that there is a PCMCIA card which will add two (2) serial ports
> >to a computer (laptop). With all the conversation going on now, on the SIG,
> >about PCMCIA cards. Does any one know where I can get a dual port PCMCIA
> >card. I understand that a company named Pocket (sp?) makes one but I have
> >been unable to find out any information on them.
> >
>  I bought a single port PCMCIA serial card for about $120 from a mail order
> company. Check any mail order catalog. I have Insight, CDW, and Datacomm.
> Try www.insight.com or www.cdw.com on the web.
>   Hope this helps. It fixed my single port problem. I dont much like the
> PCMCIA connector though. too flimsy.
>
> 73,
>
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@rockford.com
>              kb9lbu@juno.com
> E-Mail Work: rsellers@snds.com
>
>
>
```

686. S/V SECOND WIND/KN6KB APRS TRACKING

```
From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Fri, 20 Sep 1996 21:38:08 -0700
To: aprssig@tapr.org
Cc: mmuething@juno.com, kb6lfm@ix.netcom.com
Message-ID: <199609210438.VAA27375@poseidon>
Rendered body type: text/plain
```

```
ATTN: APRS'ers APRS SPECIAL EVENT..           Filed: 210500GMT SEP 96
    Rick/KN6KB and his S/V Second Wind, 42footer, deptarted Berkeley, Ca.
Yacht Harbor this morning for a long voyage to Cape Canaveral, Fl. Due
to seasickness of a green crewmember, his first overnight stop was here
in Pillar Pt. Princeton Harbor, just north of Half Moon Bay.
    This first leg is to San Diego, Ca. about a 4 or 5 day voyage. Rick
will be up on 145.01/VHF for northern Ca., and 145.79 down in the Los
Angeles, San Diego area. He will also be on HF/10151/lsb for his APRS
tracking and 14065/Pactor for messages and QSO's with Bill/KB6LFM.
    On October 28th, Rick will sail in the Baja HA HA race from San Diego,
to Cabo San Lucas, Baja Calif. Mexico. GPS APRS tracking from then on will
be on 10151/LSB HF. After the race at Cabo, he will journey down the
Central American coast, stopping at various ports along the way.
    His plans are to be in Ziuhatenejo for two weeks and fly home for
Xmas holidays and return and continue trip down coast to Panama and
thence in 97 to Cape Canaveral Florida.
    Rick is a strong supporter here in Calif, of APRS and enjoys the GPS
tracking and we hope to have a complete voyage GPS/APRS HST tracking file
when all is done. We need the cooperation and help of all APRS users and
interested parties, to keep his positions posted and communications with
him for APRS activities. Rick has already authored an article in the
"Cruising World" Yacting magazine,(Feb/96), and this voyage should also
spurn another sailing article and the great virtures of GPS/Tracking/APRS,
and of course Ham Radio for Yachtsman.
   So the participation and support of all the APRS family will be
appreciated. Hopefully we will keep you all updated of events along his
cruise.
     73's & Enjoy, Bill/WB6LPG @KA6EYH.#NOCAL.CA.USA.NOAM <bbliss@juno.com>
NNNN


WBB/WB6LPG
```

687. DFjr Foxhunt

```
From: William Nolle <wa8inz@cris.com>
Date: Sat, 21 Sep 1996 01:35:41 -0700
To: aprssig@tapr.org
Message-ID: <3243A8DD.F71@cris.com>
Rendered body type: text/plain
```

```
Well had another foxhunt tonight using the DFjr. There was a group of 8
or 9 hunting groups, besides myself there was one other person using a
homebrew doppler system with antenna array at 120 degree, so he used 3
antennas. Well i came in first and the other doppler cam in second. For
those wanting to know about the DFjr it works perfect. This hunt was
right in midtown Huntsville and locating the fox i never made a wrong
turn it led me right to the fox who was sitting in a car parked in
someones driveway, but of course he wasn't visible because he ducked down
below seat back level, and don't forget this was at 9:30 PM pretty black
around there at that time of night. So to sum this hunt up the DFjr
worked just great (Of course it did i came in first Hi). The only bad
thing about this is the way they work it here is that the winner will be
the fox next time, i don't realy want to be because i like the hunting
part better. O well.
--
                   \////
                   (0 0)
              *--o0-(_)-0o--*
              wa8inz@amsat.org
              wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

688. help on tapr cd rom

From: gerardo arias <hk3gal@ibm.net>
Date: Sat, 21 Sep 1996 14:49:25 GMT
To: aprssig@tapr.org
Message-ID: <199609211449.OAA50377@smtp-gw01.ny.us.ibm.net>
Rendered body type: text/plain

hi to all.

i am interested on test de winaprs software, and have buy the tapr 1996 cd rom
to find it, but it say that beta time has expired...

any sugestion __?? tnx

de hk3gal (Gerardo Arias L.)

---

689. Re: [APRSSIG:4863] N1IUH address?

From: mbary@nmaa.org (Mark L. Bary)
Date: Sat, 21 Sep 1996 11:06:38 -0700
To: aprssig@tapr.org
Message-ID: <32442EAE.6DBB@nmaa.org>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> He send a request for a Rhode Island Map but no return address. ANyone
> know him and can tell him of the problem?
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

I forwarded what I had from my QRZ CD-ROM for him to you via sepcor.

73
Mark
N4EOC

---

690. Logo Page

From: William Nolle <wa8inz@cris.com>
Date: Sat, 21 Sep 1996 10:40:32 -0700
To: aprssig@tapr.org
Message-ID: <32442890.7DBC@cris.com>
Rendered body type: text/plain

For those interested in APRS logo's I have added a new one you may be
interested in. As a service to the Amateur radio community i will for a
limited time offer my services to those that wan't one of these made for
your state. You of course have to look at this logo to know what i'm
talking about Hi. This page i'm sure will be slooow in loading for the
average system so be aware of this. Remember to capture any of these
logo's using Netscape you have to click your right mouse button when the
pointer is on the logo, don't know about other browsers.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

691. aprtrak

From: foga@foothill.net (DAN FOGARD)
Date: Sat, 21 Sep 1996 09:43:42 -0700
To: aprssig@tapr.org
Message-ID: <199609211643.JAA03248@ns1.foothill.net>
Rendered body type: text/plain

BEEN LO0KING AT APRTRAK ....WITH THIS LATEST SHUTTLE ....PUTTING
IN KEPS

I GET A DIFFERENT TRACK ON APRTRAK THAN ON OTHER PROGRAMS I HAVE.......

APTRTRAK IS ALWAYS BEHIND ....PROVED BY AOS AND LOS .....OF BIRD

AM I MISSING SOMETHING ......OR DO I HAVE TO PAY UP FIRST?

692. Re: [APRSSIG:4967] aprtrak LO0KING FOR A CORRECT TRACK....DAN W6PRL

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 21 Sep 1996 13:44:32 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae69f56dbdf0@[199.1.11.130]>
Rendered body type: text/plain

```
>BEEN LO0KING AT APRTRAK .......WITH THIS LATEST SHUTTLE ....PUTTING IN KEPS
>
>        I GET A DIFFERENT TRACK ON APRTRAK THAN ON OTHER PROGRAMS I HAVE.......
>
>        APTRTRAK IS ALWAYS BEHIND ..........PROVED BY AOS AND LOS .....OF BIRD
>
>         AM I MISSING SOMETHING ......OR DO I HAVE TO PAY UP FIRST?
>
>
>
>
>                                  LO0KING FOR A CORRECT TRACK....DAN W6PRL


If you are using the same KEPS then check to see if you have typed in the
same local time to UTC(GMT) offset for APRtrack .

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

693. Re: [APRSSIG:4968] Re: aprtrak

From: foga@foothill.net (DAN FOGARD)
Date: Sat, 21 Sep 1996 18:02:42 -0700
To: aprssig@tapr.org
Message-ID: <199609220102.SAA17078@ns1.foothill.net>
Rendered body type: text/plain

```
>>BEEN LO0KING AT APRTRAK .......WITH THIS LATEST SHUTTLE ....PUTTING IN KEPS
>>
>>        I GET A DIFFERENT TRACK ON APRTRAK THAN ON OTHER PROGRAMS I
HAVE.......
>>
>>        APTRTRAK IS ALWAYS BEHIND ..........PROVED BY AOS AND LOS .....OF BIRD
>>
>>         AM I MISSING SOMETHING ......OR DO I HAVE TO PAY UP FIRST?
>>
>>
>>
>>
>>                                  LO0KING FOR A CORRECT TRACK....DAN W6PRL

>
>
>If you are using the same KEPS then check to see if you have typed in the
>same local time to UTC(GMT) offset for APRtrack .
>
>73
>
>Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
>
>TIMES ARE THE SAME.......CHECKED THAT  DAN W6PRL
>
>
```

---

694. VA Beach Hamfest

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 21 Sep 1996 21:02:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960921205750.19921A-100000@arctic>
Rendered body type: text/plain

```
Well just got back from a 500 mile round trip to VaBch for a 1 hour talk
on APRS.  Its was pretty well attended, about 20 to 30 people showed up.
Hope this plants the seed in Norfolk and RIchmond...  Only new thoughts
```

during the 12 hours on the road as I used the MicEncoder on every 2m
repeater I could find, was the way to ID.

Typically I say WB4APR GPS PACKET MOBILE

Or APRS MOBILE

or GPS mobile.

I donno which one is more meaningful. There are folks who dont know what
APRS means and there are HAMS that dont know what GPS means... hi hi

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

695. GPS via fiberglass and SNR?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 21 Sep 1996 21:20:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960921211305.19921D-100000@arctic>
Rendered body type: text/plain

On Fri, 20 Sep 1996, Richard Garcia wrote:

> Has anyone tried to attach a GPS antenna inside of these fiberglass bodies
> (with silicone or such) and see if that worked?

APRSdos REPLY/COMMENT: Today I did that test. Remember that the entire
roof of the Transport/Lumina/Silouette is plastic, with only a steel shell
around the edges. I could hold the GPS unit to the roof over my head, and
get a few satellites, but SEVERAL DB below what I got holding it out the
window. THis raises a question which TOM CLARK clarified for me and maybe
he could clarify again.

He says the that Signal-to-noise level reported by the GPS units is not a
true SNR to thermal noise, but SNR to channel noise level which for one
satellite means its signal compared to the noise of the receiver AND all
the noise of the other 7 satellites in view. (did I get that right Tom?)

I notice that when my garmin 45 gets its first 1, 2 or 3 satellites, they
are FULL strength over the top graph line. But once more satellies get
locked on, the signals reported for those initial 3 satellites goes
down... Is this what you are talking about Tom? Or was this just a
fluke?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

696. Re: [APRSSIG:4952] HELP - APRS / GPS-45 & KPC-3

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 21 Sep 1996 21:24:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960921212348.19921F-100000@arctic>
Rendered body type: text/plain

On Fri, 20 Sep 1996, Alan K. Unangst wrote:

> Here is the problem, getting GPS data to run thru APRS, into a KPC-3 and be
> transmitted.
>
> SYSTEM: IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS 7.7b, "Y"
> harness (GPS-45 to Comp. Serial Port to KPC-3 Parallel Port).

APRSdos REPLY/COMMENT: There is no such thing as a "Y" cable. It must be
an HSP switch or a push button switch or a dual port PC. Sorry...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

697. Re: [APRSSIG:4967] aprtrak

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 21 Sep 1996 21:37:18 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960921213441.19921H-100000@arctic>
Rendered body type: text/plain

On Sat, 21 Sep 1996, DAN FOGARD wrote:

```
>         BEEN LO0KING AT APRTRAK .......WITH THIS LATEST SHUTTLE ....PUTTING
> IN KEPS  I GET A DIFFERENT TRACK ON APRTRAK THAN ON OTHER PROGRAMS I HAVE..
```

APRSdos REPLY/COMMENT: Be sure it is APRtrak version 0.5 or later. 0.4 is stuck in Eastern Standard Time. Be sure to enter your correct time zone offset when you start APRtrak. If you have saved a config file it will start with what every time xzone you had before, so be careful when you change between Standard and Daylight time.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

698. Re: [APRSSIG:4865] Re: DFjr: Good or Bad?

From: Jim Conrad <jjc@infi.net>
Date: Sat, 21 Sep 1996 23:55:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19960921235551.37eff658@mailhost.infi.net>
Rendered body type: text/plain

```
At 06:47 PM 9/18/96 -0500, William Nolle wrote:
>robert wrote:
>>
>> Is the DFjr worth its price?  Is is reliable and easy to use, especially
>> with APRS?  I would like to hear the opinions of those who have and use
>> one.
>>
>> Thanks!
>
>Well Robert that's a big question Hi. Is it reliable, that remains to be seen
>it's not been on the market all that long. Does it work YES it does a great
>job and never failed to point right to the signal. Could it be better, of
```

~~snip~~

I have heard alot about the DFjr and the MicEncoder. Can someone tell me where I can get additional specs/info and purchase info.

Thanks .. Jim - N4WFP - Norfolk Va

```
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8217 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

---

699. Re: [APRSSIG:4974] Re: DFjr: Good

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 22 Sep 1996 00:09:33 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae6a88383a97@[199.1.11.120]>
Rendered body type: text/plain

```
>I have heard alot about the DFjr and the MicEncoder. Can someone tell me
>where I can get additional specs/info and purchase info.
>
```

For DFjr info ; if you missed the ending of Joe's messages: :-)

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

700. Re: [APRSSIG:4974] Re: DFjr: Good or Bad?

From: William Nolle <wa8inz@cris.com>
Date: Sun, 22 Sep 1996 00:11:04 -0700
To: aprssig@tapr.org
Message-ID: <3244E688.6F45@cris.com>
Rendered body type: text/plain

```
Jim Conrad wrote:
>
> At 06:47 PM 9/18/96 -0500, William Nolle wrote:
> >robert wrote:
> >>
> >> Is the DFjr worth its price?  Is is reliable and easy to use, especially
> >> with APRS?  I would like to hear the opinions of those who have and use
> >> one.
> >>
> >> Thanks!
> >
> >Well Robert that's a big question Hi. Is it reliable, that remains to be seen
> >it's not been on the market all that long. Does it work YES it does a great
> >job and never failed to point right to the signal. Could it be better, of
>
> ~~snip~~
>
> I have heard alot about the DFjr and the MicEncoder. Can someone tell me
> where I can get additional specs/info and purchase info.
>
> Thanks .. Jim - N4WFP - Norfolk Va
>
>
> <:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>> <:>       Jim Conrad - Ocean
 View Communications - jjc@infi.net      <:>
> <:>  757-490-8217 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
> <:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>Yes Jim just go to my APRS
webpage and you will find a link to the DFjr
web site. Just click on the DFjr Icon.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

701. Re: HELP - APRS / GPS-45 & KPC-3

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Sun, 22 Sep 1996 01:44:38 EDT
To: aprssig@tapr.org
Message-ID: <19960921.224208.4231.0.KC7LSP@juno.com>
Rendered body type: text/plain

```
On Sat, 21 Sep 1996 20:34:04 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:

>> SYSTEM:  IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS 7.7b,
"Y"  harness (GPS-45 to Comp. >> Serial Port to KPC-3 Parallel Port).

>APRSdos REPLY/COMMENT:  There is no such thing as a "Y" cable.  It must
be an HSP switch or a push button >switch or a dual port PC.  Sorry...

Bob,  what is an HSP switch?
If it's a small chip or a few discrete components that automagically
suspends throughput from the computer to the TNC when the GPS is sending
data,  I understand.  I would like to know what the "HSP" stands for in
any event.

My dad, KC7EPD runs a PK-96 on his laptop with a Garmin-45.  From the
>EXTERNAL< view the adapter sure
 looks like a Y-cable to me.  All it does is allow him to route the GPS's
data into the same data
stream /RS-232 port that the TNC uses.  I admit I've never cracked open
his case to peek inside, but for only 31 bux I'd be surprised if there
was more than just a couple of solder points for the GPS cable.

If there is more to it, I'd appreciate a schematic for such a circuit.  I
believe I have a practical application for one.
```

```
73. Kevan

Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
-----------------------------------------------------------------------
Cruise Missile Coordinates :    4631.17N/12255.10W
```

702. Re: [APRSSIG:4604] Baja, Mex, & CentAm maps

From: r_denis@globalnet.hn (Ricardo Denis)
Date: Sat, 21 Sep 1996 23:07:33 -0600
To: aprssig@tapr.org
Message-ID: <19960922051553015.AAD185@globalnet.hn>
Rendered body type: text/plain

```
>I've uploaded BajaMaps.zip and .txt to
>tapr.org:/tapr/SIG/aprssig/files/upload
>
>This file contains Maplist.MX and maps from San Diego to the Panama Canal,
>most at the 256 mile scale. They were created to support Rick, KN6KB, on his
>upcoming trip from San Francisco to Miami via the canal, and any other APRS
>/MM operations in that area.
>
>Countries covered include: Mexico (Pacific coast), Honduras, El Salvador,
>Nicaragua, Costa Rica, Belize, and Panama.
>
>These maps were created from 1:2,000,000 scale aeronautical Jet Navigation
>Charts (JNC), and concentrate primarily on the Pacific coastal areas. Some
>Caribbean coverage from the canal up to the Yucatan is also included. The
>JNCs are Lambert Conformal type projections, so some errors will exist but
>I've have tried to minimize them.
>
>Using pkunzip -dn will put the new MAPLIST.MX and the maps in their proper
>directories.
>
>73, Ken, W7KKE
>kswaggart@aol.com
>

Ken,

I tried to download the file but I get an error message. I live in San Pedro
Sula, Honduras (on the Atlantic side) and *had* been thinking of making an
APRS map of the country. Of course, now I don't have to (and thanks, by the
way!) but, I already had taken several GPS readings around HR land (cities,
villages, node and bbs locations etc.) and if they would be useful at all I
can e-mail them to you so you can add them.

When is Rick comming down this way? I can give him (or you for that matter)
several 2m Digi routes so we could see each other.

Thanks again for your work!

73 de Rick, HR2KOS
```

703. Re: [APRSSIG:4977] Re: HELP - APRS / GPS-45 & KPC-3

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sun, 22 Sep 1996 02:03:42 -0500
To: aprssig@tapr.org
Message-ID: <3244E4CE.4856@web-access.net>
Rendered body type: text/plain

```
Kevan J Coleman wrote:
>
> On Sat, 21 Sep 1996 20:34:04 -0500 (CDT) Bob Bruninga
> <bruninga@nadn.navy.mil> writes:
>
> >> SYSTEM:  IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS 7.7b,
> "Y"  harness (GPS-45 to Comp. >> Serial Port to KPC-3 Parallel Port).
>
> >APRSdos REPLY/COMMENT:  There is no such thing as a "Y" cable.  It must
> be an HSP switch or a push button >switch or a dual port PC.  Sorry...
>
> Bob,  what is an HSP switch?
> If it's a small chip or a few discrete components that automagically
> suspends throughput from the computer to the TNC when the GPS is sending
> data,  I understand.  I would like to know what the "HSP" stands for in
> any event.
>
```

snip....

Didn't mean to butt in, Bob, but because I noticed the question, and
knew the answer, so I thought I'd provide the answer to Kevan. HSP
stands for Hardware Single Port. If you have a copy of APRS, look in
the docs: GPS.txt file, Kevan. Bob not only explains the HSP, but shows
a schematic of the same. If you don't have a copy, obtain one from the
tapr ftp site: ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/

Look for the latest aprsnn.zip file. Currently: aprs77b.zip

Hope this helps.

Dale. KG5LT
dseaburg@web-access.net

---

704. REGISTRATION CHANGE

From: Ron Tivey <tivey@kuentos.guam.net>
Date: Sun, 22 Sep 1996 19:54:47 +1000
To: aprssig@tapr.org
Message-ID: <m0v4lFN-002F3YC@saba.kuentos.guam.net>
Rendered body type: text/plain

Bob Bruninga/WB4APR

Sir,
I recently sent a request and check to register my APRS74 program with
you. I also asked for an updated version of the program. I am now running
APRS75C and no longer require the updated version, but I do need to register
my ICOM GP-22 GPS that I use with an AEA PK-12. Please do not send me an
upgrded APRS program, but instead, send GPS registration number. Thank you
for your time.

Ron Tivey/ N4GFO
tivey@kuentos.guam.net

---

705. Re: [APRSSIG:4963] DFjr Foxhunt

From: Doug Wittich <dwittich@concentric.net>
Date: Sun, 22 Sep 1996 09:17:43 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960922131743.00665c20@pop3.concentric.net>
Rendered body type: text/plain

At 01:50 AM 9/21/96 -0500, you wrote:
>Well had another foxhunt tonight using the DFjr. There was a group of 8
>or 9 hunting groups, besides myself there was one other person using a

I very much like to do the hunting too. What exactly is a DFJr, and where
does one acquire one?

Thanks

Doug

---

706. Re: [APRSSIG:4975] Re: DFjr: Good

From: Doug Wittich <dwittich@concentric.net>
Date: Sun, 22 Sep 1996 09:26:05 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960922132605.006b7398@pop3.concentric.net>
Rendered body type: text/plain

At 12:15 AM 9/22/96 -0500, kc5ejk@onramp.net (Robert Winingham) wrote:

> WEB: http://home.navisoft.com/agrelo/ae.htm
>Designer & Manufacturer of intelligent microprocessor
>   based Doppler, talking products and RF.
>   Experts in Microchip & Motorola processors

Thanks, that answers my question.

---

707. Sunday Balloon flight on JavAPRS (Atlanta)

From: rwf <rwf@mindspring.com>
Date: Sun, 22 Sep 1996 10:15:00 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960922141500.006fdfb4@mindspring.com>
Rendered body type: text/plain

```
A bit of short notice, but Bill Brown WB8ELK  (the Elk Man) is launching a
balloon from Huntsville AL any moment now.
So far, it hasn't gone up, per its APRS beacon. Call sign is KE4ROC-11
Wanted to remind folks that you may see this on the JavAPRS site here in
Atlanta.
I am writing this at 10:09 AM EDT

http://www.radio.org/~wa4dsy  is the site, I think
```

708. Sorry- Bad URL Balloon/Java

From: rwf <rwf@mindspring.com>
Date: Sun, 22 Sep 1996 10:18:32 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960922141832.006c636c@mindspring.com>
Rendered body type: text/plain

```
Correct one is:

http://wa4dsy-3.wa4dsy.radio.org/Xaprs/soeast.html
```

709. Sorry- again Good Grief!

From: rwf <rwf@mindspring.com>
Date: Sun, 22 Sep 1996 10:25:06 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960922142506.006c8d8c@mindspring.com>
Rendered body type: text/plain

```
I was looking at the JavAPRS console and seeing the data from the balloon
fine, but it looks like the Application doesn't know what to do with it,
cause it isn't showing up on the map.   Anyway-  you can at least see the
raw data as it comes into the TNC by  clicking  Options  Sho Java Console on
Netscape.    Sorry gang
```

710. Re: HELP - APRS / GPS-45 & KPC-3

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Sun, 22 Sep 1996 11:53:49 EDT
To: aprssig@tapr.org
Message-ID: <19960922.085055.4495.1.KC7LSP@juno.com>
Rendered body type: text/plain

```
>HSP stands for Hardware Single Port.
>If you have a copy of APRS, look inthe docs: GPS.txt file, Kevan.
>Bob not only explains the HSP, but shows a schematic of the same

Thanks, I'll do that.  I personally do not have a GPS so I never got to
that text file.

73, Kevan

Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
-----------------------------------------------------------------------
Cruise Missile Coordinates :    4631.17N/12255.10W
```

711. WA2JNF-4 Back Online

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 22 Sep 1996 11:54:22
To: aprssig@tapr.org
Message-ID: <199609221555.LAA26671@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
Hi All,

     I'm sure all of us in the "northeast corridor" are pleased
to see that WA2JNF-4 (Brooklyn NY) is back on the air after a
week or so of repair.  It seems the lightning storm we had de-
cided to have a close encounter with the tower on which the
digi is located and a relay got slagged.

     In response, N2ZRC WIDE-RELAY has been rescinded by me and
you can now see my cute little yagi atop the apartment house.
(hmmm, hey Bob ... not everybody lives in a hospital, school or
single-family dwelling ... how's about giving us some high-rise
big-city-type dwellings?  8-{)>   73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
```

[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

712. Re: [APRSSIG:4977] Re: HELP - APRS / GPS-45 & KPC-3

From: rbost@itexas.net (Roy Bost)
Date: Sun, 22 Sep 1996 12:04:33 -0500
To: <aprssig@tapr.org>
Message-ID: <19960922170707457.AAA84@rbost.itexas.net>
Rendered body type: text/plain

Here is a wiring diagram that was on the sig around Nov-Dec of last year that makes a "y" cable for the Garmin-45, KPC-3 and a laptop. It has no switching, so whatever problems that may create you would have to deal with!

```
9 PIN           25 PIN

1       to      8
2       to      3   + Brown wire from GPS-45 power/data cable
3       to      2   + White wire from GPS-45 power/data cable
4       to      20
5       to      7   + Black wire from GPS-45 power/data cable
6       to      6
7       to      4
8       to      5
9       to      22
```

Also, the mod on page 96 of the KPC-3 manual will supply power to the GPS-45 through pin 25! Makes a nice installation.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

---

713. HF APRS Transceiver for $199

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 13:31:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922132117.27630A-100000@arctic>
Rendered body type: text/plain

I am still convinced that a 50 watt black box stick-it-under-the-seat HF Xtal controlled 10.151 packet transceiver can be built for well under $199. Ten tec seemed interested but still say there is no market.

Anyone want to investigate? There are lots and lots of QRP kits available and there have been articles for 20 and 50 watt two and 3 transistor PA's. A great contribution to HF APRS could be made by someone researching these articles and kits and finding what is the best combinatation for APRS HF packet Mobile. I will NOT go buy a $1300 HF mobile rig to do APRS. Its just too big a toy at risk in my car. But 50 watts or even 10 watts is worth putting under the seat or in the trunk if we can do it for under $199.

If you dont believe 10 watts is worth doing, replay XMAS93.HST included in all versions of APRS. That is a track history *as-received-in Maryland* of my trip to alabama using only 10 watts and a mag mount HF whip on the roof of my car! It was a solid track (except when I switched to VHF through Chatanooga and Huntsville...

I am ready to buy a XTAL HF Xmtr for 10.151 but need to know what is best.

We need experience on direct conversion receivers for use with packet too.

If you have any experience in these areas, please consider taking on the project. If you wanna make a comercial product, BE MY GUEST! Ill buy one!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

714. Re: HELP - APRS / GPS-45 & KPC-3

From: aa7ya@juno.com
Date: Sun, 22 Sep 1996 13:31:17 EDT
To: aprssig@tapr.org

Message-ID: <19960922.112845.5359.2.aa7ya@juno.com>
Rendered body type: text/plain

```
On Sun, 22 Sep 1996 00:47:41 -0500 (CDT) kc7lsp@juno.com (Kevan J
Coleman) writes:

>On Sat, 21 Sep 1996 20:34:04 -0500 (CDT) Bob Bruninga
><bruninga@nadn.navy.mil> writes:
>
>>> SYSTEM:  IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS
>7.7b,
>"Y"  harness (GPS-45 to Comp. >> Serial Port to KPC-3 Parallel Port).
>
>>APRSdos REPLY/COMMENT:  There is no such thing as a "Y" cable.  It

There is a "Y" cable, but that is only used in cases where you want to
connect stereo audio jacks to a mono jack, hence the "Y".   It is also
used in the broadcast radio industry to route a single audio signal
in two different directions, as an example, a radio talk show out
over the air live, and fed to another radio station or satellite, live.

Also, I have a KAM PLUS, and I use it on both VHF and HF
simultaneously, and it has a RS232 connector going to the PC, and
about half way down the cable, it goes in 2 directions for the mic
connections, one way to the VHF radio, the other to the HF radio,
and it looks like a "Y"....  Though, this is not what the discussion
involved (mic cables), I thought that I would make note of the fact
that there is such a thing as a "Y" cable.  There might be another
name for it, but calling it "Y-cable" is easier to picture.

>>SNIP<<

73 - Stacey, AA7YA
        aa7ya@juno.com
```

715. Re: [APRSSIG:4974] Re: DFjr: Good or Bad?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 13:44:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922134305.27630E-100000@arctic>
Rendered body type: text/plain

```
On Sat, 21 Sep 1996, Jim Conrad wrote:

> I have heard alot about the DFjr and the MicEncoder. Can someone tell me
> where I can get additional specs/info and purchase info.

APRSdos REPLY/COMMENT:  Welcome to Norfolk!!!  Read about DF in DF.txt and
about the MicEncoder in VOX-APRS.txt.  Both files in the APRS README
directory found in eery copy of APRS...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

716. HSP switch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 13:47:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922134511.27630F-100000@arctic>
Rendered body type: text/plain

```
On Sun, 22 Sep 1996, Kevan J Coleman wrote:

> Bob,  what is an HSP switch?
> If it's a small chip or a few discrete components that automagically
> suspends throughput from the computer to the TNC when the GPS is sending
> data,  I understand.  I would like to know what the "HSP" stands for in
> any event.

APRSdos REPLY/COMMENT:  Hardware Single Port Switch.  It is 2 transistors
and a few diodes and resistors.  It lets APRS switch between the GPS and
TNC by raising and lowering the laptop DTR line...  Or just use a SPDT
pushbutton switch to do the same thing manually whenever you need a fresh
Posit on your map.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

717. Re: [APRSSIG:4988] Re: HELP - APRS / GPS-45 & KPC-3

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 14:04:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922140206.27630I-100000@arctic>
Rendered body type: text/plain

On Sun, 22 Sep 1996, Roy Bost wrote:

> Here is a wiring diagram that was on the sig around Nov-Dec of last year
> that makes a "y" cable for the Garmin-45, KPC-3 and a laptop. It has no
> switching, so whatever problems that may create you would have to deal
> with!

APRSdos REPLY/COMMENT: What he means to say is that this Y cable cannot
be used with both the GPS and a TNC at the same time!!!!!!!! Yes, it is a
Y cable. Just dont plug the GPS and TNC in at the same time, hi hi..
So it is NOT an HSP switch and it is NOT going to let you operate APRS and
GPS and TNC at the same time. But ifyou add a simple Push Button switch
on the RXD going into the PC, then you CAN.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

718. NEC/Ultralite 286F LapTop Gamble

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 14:19:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922141246.27630J-100000@arctic>
Rendered body type: text/plain

At VA beach, I had to buy something. A shady looking character had a
typical pile of junk including 4 laptops. He wanted $75 each and
claimed he did not know if they were good or not, but I suspected that he
certainly would have tested them before bringing them so they must
certainly have been bad.   Only 1 had a P.S. and it did work, but it was
a dual floppy system. I chose the 286 with a clearly bad LCD
display (looked like a termite got behind the glass). Just charged the
battery and it looks great! (except for the termite area...)

I have no PC nor info on the 4 pin power connector. Anyone out there have
info on this NEC/Ultralite 286F black laptop? It will replace my old big
Zenith in the car...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

719. re aprtrak ..again

From: foga@foothill.net (DAN FOGARD)
Date: Sun, 22 Sep 1996 12:18:11 -0700
To: aprssig@tapr.org
Message-ID: <199609221918.MAA03545@ns1.foothill.net>
Rendered body type: text/plain

GOT TRACKS WORKING ON SAME MACHINE OK USING LOCAL DAYLIGHT
TIME....MADE A DISK
USING ZULU TIME OFFSET -8.......MOVED IT TO A 8088 MACHINE AND TRACKS ARE
OFF....
MOVED IT BACK TO 486 WHICH USES LOCAL TIME AND DISK IS STILL IN ZULU
TIME......TRACKS ARE OK AS LONG AS I STAY ON THE SAME MACHINE.....WHEN I
MOVE TO THE 8088 WITH THE DISK
 THINGS CHANGE AND TRACKS ARE INCORRECT ON 8088......? BOB SAYS WATCHOUT
WHEN CHANGING BETWEEN DAYLIGHT AND ZULU TIME ....MAYBE THAT IS MY PROBLEM
TRIED ALL COMBOS AND STILL
THE 8088 HAS THE WRONG TRACKS 486 HAS GOOD TRACKS FROM EITHER DR A: OR DR C:
AND DR A:
IS USING ZULU TIME AND DR C: IS USING LOCAL DAYLIGHT.......PUZZLE ANY ONE
HAVE ANY MORE IDEAS?

DAN W6PRL

---

720. Re: [APRSSIG:4981] Re: DFjr Foxhunt

From: William Nolle <wa8inz@cris.com>
Date: Sun, 22 Sep 1996 14:18:56 -0700
To: aprssig@tapr.org
Message-ID: <3245AD40.33EF@cris.com>
Rendered body type: text/plain

Doug Wittich wrote:
>
> At 01:50 AM 9/21/96 -0500, you wrote:
> >Well had another foxhunt tonight using the DFjr. There was a group of 8
> >or 9 hunting groups, besides myself there was one other person using a
>
> I very much like to do the hunting too. What exactly is a DFJr, and where
> does one acquire one?
>
> Thanks
>
> Doug

The best way i think right now is to go to my wepage below and you will find a
link to Agrelo Engineering Home page that will fill you in on the whole unit.
I don't have the direct URL right now.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

721. Huntsville Balloon

From: William Nolle <wa8inz@cris.com>
Date: Sun, 22 Sep 1996 14:31:57 -0700
To: aprssig@tapr.org
Message-ID: <3245B04D.43BC@cris.com>
Rendered body type: text/plain

Well the Huntsville balloon launch finally took place after a very
lenghty delay due to several problems. One was that twice when ready to
launch the parachute fell off (Yes it did). Then there was a bigger
problem when the balloon hit the ground enough to vreate a 8 inch hole in
the side, when that was repaired using good old ducktape from Wal-Mart
and added some more helium to make up for the loss it was ready to go at
around 11:30am, well that's what everyone was thinking Hi. When it was
finally launched and went NE it got hung up on a telephone cable that was
about 25 feet of the ground. With some quick thinking (I think) someone
got a hook and broke the payload loose from the wire. Finally we had
liftoff (Yes it realy did this time). It went SSE from Huntsville and i
finally lost the position beacon when it was nearing Atlanta (Actually
between Atlanta and the Alabama state line. Seen N4NEQ-9 place a object
on the map there. Not an un-eventfull day!. By the way last altitude
beacon i seen it was only at 32K feet.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

722. Re: HELP - APRS / GPS-45 & KPC-3

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Sun, 22 Sep 1996 17:15:38 EDT
To: aprssig@tapr.org
Message-ID: <19960922.141244.4495.0.KC7LSP@juno.com>
Rendered body type: text/plain

On Sun, 22 Sep 1996 12:13:03 -0500 (CDT) rbost@itexas.net (Roy Bost)
writes:

>Here is a wiring diagram that was on the sig around Nov-Dec of last year
that makes a "y" cable for the >Garmin-45, KPC-3 and a laptop.

Roy,
   TNX for the post. I've added it to my text collection for future

reference.

73, Kevan

---

723. MIM Board & GPS20

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Sun, 22 Sep 1996 17:24:56
To: aprssig@tapr.org
Message-ID: <199609222224.SAA31380@mail-e2b-service.gnn.com>
Rendered body type: text/plain

I have a MIM board tied to a Garmin 20 with the Oct-95 QST Patch
antenna attached. With a "str" = GP??? in the MIM I get $GPGSV
statements with up to 8 satellites, and data on three or four.
When I set "str" to GPRMC I get a fix statement that looks like:
<call> 221122 ,162438,V,,,,,,,220996,,/GPS FIX. I suspect that I
am getting satellites, but without sufficient signal strength to
get a fix. Anyone with any ideas? Would a Trimble active GPS
antenna work on the Garmin, and would it help get a fix? HELP,
please. John, N5XAK...

---

724. RE: [APRSSIG:4970] VA Beach Hamfest

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Sun, 22 Sep 96 23:47:22 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199609222352150902@msn.com>
Rendered body type: text/plain

Just got back mysellf from Virginia Beach Hamvention where I got to meet Bob
in the flesh. He's taller than he seems on this SIG.

Excellent 1 hour explanation and demostration of APRS. Bob even got a
better spot in the program than Gordon West! There is no truth to the rumor
that he bribed Many for the slot.

Bob did fumble a bit trying to bring up .hst files for the neat VGA
projection screen. The lesson I guess is to prepare by putting good stuff in
a special subdirectory......../snakeoil/.....???

Great dog and pony show Bob.   Hope you get some converts in Norfolk or
Richmond.
73 Jack
cjcavanagh@msn.com

---

725. Re: [APRSSIG:4989] HF APRS Transceiver for $199

From: Joe Agrelo <jagrelo@concentric.net>
Date: Sun, 22 Sep 1996 21:11:00 -0700
To: aprssig@tapr.org
Message-ID: <32460DD4.2892@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> I am still convinced that a 50 watt black box stick-it-under-the-seat HF
> Xtal controlled 10.151 packet transceiver can be built for well under
> $199. Ten tec seemed interested but still say there is no market.
>
> Anyone want to investigate? There are lots and lots of QRP kits available
> and there have been articles for 20 and 50 watt two and 3 transistor PA's.
> A great contribution to HF APRS could be made by someone researching these
> articles and kits and finding what is the best combinatation for APRS HF
> packet Mobile. I will NOT go buy a $1300 HF mobile rig to do APRS. Its
> just too big a toy at risk in my car. But 50 watts or even 10 watts is
> worth putting under the seat or in the trunk if we can do it for under
> $199.
>
>   If you dont believe 10 watts is worth doing, replay XMAS93.HST
> included in all versions of APRS. That is a track history *as-received-in
> Maryland* of my trip to alabama using only 10 watts and a mag mount HF
> whip on the roof of my car! It was a solid track (except when I switched
> to VHF through Chatanooga and Huntsville...
>
> I am ready to buy a XTAL HF Xmtr for 10.151 but need to know what is best.
>
> We need experience on direct conversion receivers for use with packet too.
>
> If you have any experience in these areas, please consider taking on the
> project. If you wanna make a comercial product, BE MY GUEST! Ill buy

> one!
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

I though about it, but I have to agree with Ten Tec. Their really needs to be
some commercial applications to justify it.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553 "   "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

726. Re: [APRSSIG:4999] MIM Board & GPS20

From: clark@tomcat.gsfc.nasa.gov
Date: Mon, 23 Sep 96 01:57:26 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <107002@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

John -- in the GSV message for each satellite you are tracking is
also reported tehe SNR. Numbers like 40-50 are good. My "Totally Accurate
Clock" (TAC) "SHOWTIME " software includes a barchart SNR plot in realtime
to help you see what is happening (the bars for the Garmoiin have 20 subtracted
from the reported values) as a function of azimuth & elevation. All my TAC
stuff is at URL

  ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/

To use SHOWTIME, you will have to add one wire from the GPS-20 to the PC
so that the computer gets the 1PPS signal on the DCD line; see the PostScript
schematic in the file emulate.zip for details.

The latest SHOWTIME code is in the /distribution directory; see the readme
file for instructions on how to make an installable distribution disk.

73 de Tom, W3IWI

---

727. unproto

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sun, 22 Sep 1996 19:08:30 -0800
To: aprssig@tapr.org
Message-ID: <199609230206.TAA15684@franc.ucdavis.edu>
Rendered body type: text/plain

Ladies and Gentlemen,
    I can appreciate that hard limits on unproto paths would not be
desirable. Unfortunately there doesn't seem to be any definitive text on
how the system works and how and why to set one's path. This is important
in a system such as APRS which is enjoying substantial success and gaining
new users every day. If one of you who have been in this for long enough to
know how it all works were to publish such a document, then at least nobody
would have to be screwing up out of ignorance. I have really made an effort
to find this information and if it exists, it's at least not very easy to
find.

Regards John Lakeland kc6vlr

---

728. Re: [APRSSIG:4999] MIM Board & GPS20

From: clark@tomcat.gsfc.nasa.gov
Date: Mon, 23 Sep 96 02:04:51 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <107008@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

And, by the way, the Trimble antenna works fine.

If I ever find time to wrtiite it up, I have a nice preamplified 2-turn helix antenna that is easy to build and has onyly $5-10 in parts.

73 again, Tom

---

729. Re: [APRSSIG:4995] re aprtrak ..again

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 23:03:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922230049.5978E-100000@arctic>
Rendered body type: text/plain

```
On Sun, 22 Sep 1996, DAN  FOGARD wrote:

>         GOT TRACKS WORKING ON SAME MACHINE OK USING LOCAL DAYLIGHT
> TIME....MADE A DISK
> USING ZULU TIME OFFSET -8.......MOVED IT TO A 8088 MACHINE AND TRACKS ARE
> OFF....
> MOVED IT BACK TO 486 WHICH USES LOCAL TIME AND DISK IS STILL IN ZULU
> TIME......TRACKS ARE OK AS LONG AS I STAY ON THE SAME MACHINE.....WHEN I

APRSdos REPLY/COMMENT:  APRtrak stores your CONFIG file in the ROOT
directory of your CURRENT drive.  So when you make a "disk" from the
C drive and copy it onto the 8088, then the CONFIG file is NOT getting
copied over.  If you are running APRtrak on the 8088 from the A drive,
then the CONFIG file will be saved on the A drive...

In other words, you gotta save a CONFG file on the machine you are using
after you get all the clocks and Time zones correct...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

730. Re: [APRSSIG:5000] RE: VA Beach Hamfest

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 23:14:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922231111.5978J-100000@arctic>
Rendered body type: text/plain

```
On Sun, 22 Sep 1996, Jack Cavanagh wrote:

> Just got back myselff from Virginia Beach Hamvention where I got to meet Bob
> in the flesh.  He's taller than he seems on this SIG.... Great dog and
> pony show Bob.   Hope you get some converts in Norfolk or Richmond.
> 73 Jack,      cjcavanagh@msn.com

APRSdos REPLY/COMMENT:  THere I was in a dark room talking about how now
you can get maps down to street level anywhere for the $32 CD rom.  Didnt
even know that Jack  was in the room till after.  Jack had as much to do
with the current popularity of APRS as I have.  He wrote the MAKEMAP1 and
MK100K programs!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

731. Re: [APRSSIG:5003] unproto

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 23:18:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922231557.5978K-100000@arctic>
Rendered body type: text/plain

```
On Sun, 22 Sep 1996, John Lakeland wrote:

> ... Unfortunately there doesn't seem to be any definitive text on
> how the system works and how and why to set one's path.
> ...  If one of you who have been in this for long enough to
> know how it all works were to publish such a document, then at least nobody
> would have to be screwing up out of ignorance.

APRSdos REPLY/COMMENT:  It should be in OPS.txt.  If not, then I should
put it there!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

732. Re: [APRSSIG:5004] Re: MIM Board & GPS20

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Sep 1996 23:21:48 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960922232101.5978M-100000@arctic>
Rendered body type: text/plain

```
On Sun, 22 Sep 1996 clark@tomcat.gsfc.nasa.gov wrote:

> If I ever find time to wrtiite it up, I have a nice preamplified 2-turn
> helix antenna that is easy to build and has onyly $5-10 in parts.

APRSdos REPLY/COMMENT:  Wasnt sure if you knew that your Backspace is
not working right in your messages, hi hi.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

733. Re: [APRSSIG:5003] unproto

From: rbost@itexas.net (Roy Bost)
Date: Sun, 22 Sep 1996 22:43:01 -0500
To: <aprssig@tapr.org>
Message-ID: <19960923034535200.AAA120@rbost.itexas.net>
Rendered body type: text/plain

```
Well said!!!  I second the motion.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

734. Huntsville Balloon details

From: rwf <rwf@mindspring.com>
Date: Sun, 22 Sep 1996 23:48:00 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960923034800.007023c8@mindspring.com>
Rendered body type: text/plain

```
Balloon landed in a Kudzu patch behind the home of a sweet elderly lady, Ms
Swafford of Dallas GA.

We used a kit-built Directional Systems Doppler DF  (for info email
ka4iia@radio.org)  on the hunt and to to locate the house it was behind and
then used a 4 element beam with an attenuator to close in on it. When 50 ft
away, we heard the piezo sounders.

APRS was extremely useful, and plotted the first half of the flight well.
However due to garbled TNC data during the last hour of the flight, we only
got 2 valid digi-able reports. I'll post a history file on TAPR as soon as I
clean it up.

N4NEQ ( Ralph Fowler- rwf ) was copying the garbled data manually and
deciphered the last few position locations, the last of which was very close
to the actual landing site.  Even after we had located the package,  the TNC
continued sending garbled data with positions all over the map.  All of a
sudden it did send a garbled packet with the correct position.   Because the
garbled packets were not digi-able, all deciphered-received positions were
entered manually into APRS for others to see.  A WIDE,WIDE,WIDE path was
used temporarily during this time to ensure that all possible distant
stations got the word that we had recovered the balloon.

The Huntsville foxhunting team arrived about 2 hours after we retrieved the
package.  They had a long 4-5 hour drive each way!  Bless them!

Atlanta Team members were:

Ralph Fowler, N4NEQ  rwf
Eddie Foust, WD4JEM
Steve, KD4GVP
Tom Armour, KE4WIO
Ted, WB4CAB
Avery Davis, WB4RTP
Kip Turner, W4KIP
and  Brandi, the balloon sniffing Rat Terrier puppy !  (who had stowed away
in Ralph's van)

KC4ELV and KD4ICT helped out with some remote bearings.

It was fun!!!
```

```
Ralph Fowler, N4NEQ ,  S.E.R.A. ATV Technical Advisor       Atlanta, GA USA

Internet Email:  rwf@mindspring.com      Pager Email:  7647836@skytel.com
2 way pager: 1 (800) 764-7836
http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
Ask me how!
```

---

735. Re: [APRSSIG:5001] Re: HF APRS Transceiver for $199

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Sun, 22 Sep 1996 21:03:39 -0700
To: aprssig@tapr.org
Message-ID: <32460C1B.40F87AC9@cyclades.com>
Rendered body type: text/plain

```
Joe Agrelo wrote:
>
> Bob Bruninga wrote:

>> I am still convinced that a 50 watt black box stick-it-under-the-seat
>> HF Xtal controlled 10.151 packet transceiver can be built for well
>> under $199.  Ten tec seemed interested but still say there is no
>> market.

> I though about it, but I have to agree with Ten Tec. Their really
> needs to be some commercial applications to justify it.

Has anyone asked Ramsey or MFJ?  This is right up their alley, and they
are small enough that they don't have to sell a million units to cover
development costs.

--
         +-----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | Maker of High Performance Multiport Serial Cards   |
         | Unsolicited mail ads subject to a $25 handling fee |
         +-----------------------------------------------------+
```

---

736. Re: [APRSSIG:5003] unproto

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Mon, 23 Sep 1996 00:14:57 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960923041457.006a84c0@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 09:20 PM 9/22/96 -0500, you wrote:
>Ladies and Gentlemen,
>    I can appreciate that hard limits on unproto paths would not be
>desirable. Unfortunately there doesn't seem to be any definitive text on
>how the system works and how and why to set one's path. This is important
>in a system such as APRS which is enjoying substantial success and gaining
>new users every day. If one of you who have been in this for long enough to
>know how it all works were to publish such a document, then at least nobody
>would have to be screwing up out of ignorance. I have really made an effort
>to find this information and if it exists, it's at least not very easy to
>find.
>
>Regards  John Lakeland kc6vlr
>
>Somebody say Amen!!!!!!!
 Regards Ron SWFL kd4ams
>
73 cu Ron"KD4AMS"
```

---

737. Re: [APRSSIG:4999] MIM Board & GPS20

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 22 Sep 1996 23:39:02 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae6bcefe3ea9@[199.1.11.125]>
Rendered body type: text/plain

>I have a MIM board tied to a Garmin 20 with the Oct-95 QST Patch
>antenna attached. With a "str" = GP??? in the MIM I get $GPGSV
>statements with up to 8 satellites, and data on three or four.
>When I set "str" to GPRMC I get a fix statement that looks like:
><call> 221122 ,162438,V,,,,,,,220996,,/GPS FIX. I suspect that I
>am getting satellites, but without sufficient signal strength to
>get a fix. Anyone with any ideas? Would a Trimble active GPS
>antenna work on the Garmin, and would it help get a fix? HELP,
>please. John, N5XAK...

Well John this sure looks like your message of Sept 15 called
[APRSSIG:4755] Garmin 20 and MIN Board.

Use Bob's SIGPLOT DOS basic program to track what the unit is sending and the progress of the fix locking in. The plot will also tell you if you are getting a good signal.

Patch Ant works better for sats overhead and down to say 45 degs.

Some said to use a stiff 5.2 volts power supply and also to take the unit outside for a few hours.

I got a lock in the window using a Garmin-45 Ant after 45 Mins.

SIGPLOT on www.tapr.org and may have been part of complete aprs pkg.

IF a MAC user then run a MACaprs version less then 2.6.0 and watch the GPS/NMEA sky chart window #9 ; Don't use version 2.6.0 as the GPS sky chart is missing. The chart look a bit like the Garmin GPS display but with better resolution.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

738. Paccomm web page or email address

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Sun, 22 Sep 1996 22:14:02 -0700
To: aprssig@tapr.org
Message-ID: <199609230514.WAA16799@netcom4.netcom.com>
Rendered body type: text/plain

Could someone send me either or both of these?
I have three Paccomm TNCs that I want to use for APRS.
One's got a GPS RX in it already.
73, doug

739. The Western North Carolina APRS Web Site

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Mon, 23 Sep 1996 03:57:27 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960923075727.0068be6c@bluenet.net>
Rendered body type: text/plain

I've been busy the past few days getting the site in order. I promise if you come by you will not be disappointed. Even if your not in NC come by and check out the files and links. (Note: be sure to reload on each visit so much new stuff being added daily)

http://www.bluenet.net/ke4htm

If you have any suggestions please e-mail me. I'm always looking for more ideas on how to get more hams interested in APRS.

73,
Jamie - KE4HTM

```
+----------------------------------------------------+
|                  Jamie R. Dean                     |
| Amateur Radio Call: KE4HTM                         |
| Internet E-Mail...: ke4htm@bluenet.net             |
| AX.25 E-Mail......: ke4htm@kd4om.#hky1.nc.us.noam |
| APRS Page.........: http://www.bluenet.net/ke4htm |
+----------------------------------------------------+
```

740. Re: [APRSSIG:5014] Paccomm web page or email address

```
From: "Ken Mirabella" <kjm@deltanet.com>
Date: Mon, 23 Sep 1996 01:35:22 -0700
To: <aprssig@tapr.org>
Message-ID: <199609230838.BAA06135@mail1.deltanet.com>
Rendered body type: text/plain
```

```
It's not really too difficult:

http://www.paccomm.com/

73,  KM6YH

----------
> From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5014] Paccomm web page or email address
> Date: Sunday, September 22, 1996 10:30 PM
>
> Could someone send me either or both of these?
> I have three Paccomm TNCs that I want to use for APRS.
> One's got a GPS RX in it already.
> 73, doug
>
```

---

741. Re: [APRSSIG:5011] Re: HF APRS Transceiver for $199

```
From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 23 Sep 1996 06:23:58 -0600
To: aprssig@tapr.org
Message-ID: <3246815E.2002@slkc.uswest.net>
Rendered body type: text/plain
```

```
Paul Christenson [N3EOP] wrote:
>
> Joe Agrelo wrote:
> >
> > Bob Bruninga wrote:
>
> >> I am still convinced that a 50 watt black box stick-it-under-the-seat
> >> HF Xtal controlled 10.151 packet transceiver can be built for well
> >> under $199.  Ten tec seemed interested but still say there is no
> >> market.

MFJ makes a 20 mtr qrp ssb transceiver that sells for around $230.  It
would be perfect for this if they could do a 30 m version, or if the 20
meter net ever becomes reality.  The other qrp rigs are mostly cw only
and would require some kind of direct fsk mods (have to modify the tnc,
too) to work.

Doug
KC7CO
```

---

742. Re: [APRSSIG:5003] unproto

```
From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 07:45:48 -0700
To: aprssig@tapr.org
Message-ID: <3246A29C.9BC@cris.com>
Rendered body type: text/plain
```

```
John Lakeland wrote:
>
> Ladies and Gentlemen,
>     I can appreciate that hard limits on unproto paths would not be
> desirable. Unfortunately there doesn't seem to be any definitive text on
> how the system works and how and why to set one's path. This is important
> in a system such as APRS which is enjoying substantial success and gaining
> new users every day. If one of you who have been in this for long enough to
> know how it all works were to publish such a document, then at least nobody
> would have to be screwing up out of ignorance. I have really made an effort
> to find this information and if it exists, it's at least not very easy to
> find.
>
> Regards  John Lakeland kc6vlr

You are so right John, and don't feel bad i have been at this for more then 3
years and i don't fully understand it either. A good example that there should
be clear documentation available is last night i seen a group of mostly new
users within a 10 mile radius of a good digi keyboarding with each other all
night long, most all of them where using path's of 2 digi calls then 2 wides
```

added 1 even had relay added to the path. And this i believe is only because
of the lack of clear documentation on how this works and why, and what it does
if you use them in a way you shouldn't. But i asked this question a few years
back and was told to read the documentation. I hate to say it but there are
those users that are truly informed as to how all this works, but forget they
had to learn somewhere also Hi. I would love to add a page to my webpage on
this subject!.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

743. Re: [APRSSIG:5009] Re: unproto

From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 07:49:24 -0700
To: aprssig@tapr.org
Message-ID: <3246A374.3A2C@cris.com>
Rendered body type: text/plain

Roy Bost wrote:

>
> Well said!!! I second the motion.
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W

And I also, but i already have seen a message (It's in the doc's) just
like i said they would Hi.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

744. Re: [APRSSIG:5014] Paccomm web page or email address

From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 07:55:00 -0700
To: aprssig@tapr.org
Message-ID: <3246A4C4.13E1@cris.com>
Rendered body type: text/plain

Doug Faunt N6TQS +1-510-655-8604 wrote:

>
> Could someone send me either or both of these?
> I have three Paccomm TNCs that I want to use for APRS.
> One's got a GPS RX in it already.
> 73, doug

Doug my webpage has a link to paccomm.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

745. Re: [APRSSIG:5011] Re: HF APRS Transceiver for $199

From: John.Klingelhoeffer@comsat.com
Date: Mon, 23 Sep 1996 09:06:11 -0400
To: aprssig@tapr.org
Message-ID: <2468F730.1957@comsat.com>
Rendered body type: text/plain

```
As Bob B. knows, I looked into doing this about 18-20 months ago after he
and I discussed it at some length (we live only about 15 miles apart).  At
that time, I had a preliminary design and had even purchased parts for 2-3
prototypes.  (At that time, the power output discussed was 10 watts - I'm
not sure how it jumped up to 50 W).

They did not get built due to "other priorities", but the thing that
stopped me from thinking about going much further is that I would have had
to had the receiver tested in order to meet FCC part 15.  That would have
been $1500 to $2000 to a testing house.  It is somewhat incredible that one
can produce an HF transmitter and sell it without testing, but anything
with a receiver (in this frequency range) in it gets tagged with this
"barrier to market entry" fee.  Obviously, this fee has to be spread out
and covered in the price of the product.

In any case, I think Bob's price of $199 IS realistic (for a single
channel, single band unit with 10 watts output).  However, there needs to
be an *amateur* market of more than 20-30 people to make it worthwhile.  If
the market could generate maybe 500 unit demand, then it would be a
reasonable thing to proceed with.  (note: I used to work for Heathkit, so I
am pretty familiar with pricing this sort of unit for the amateur market).

Somewhere I had a set of specs for the prototype that I was working on.
Perhaps I will post them on the net, here, and see what comments I might
get.  If you'd like to discuss this subject with me, please send a message
directly to me at the address below.  I am off to London today for a couple
of days, and will have the APRSSig turned off to keep my mailbox from
getting jammed.

John...
WB4LNM

                        John.Klingelhoeffer@comsat.com
______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5011] Re: HF APRS Transceiver for $199
Author:  aprssig@tapr.org at INTERNET
Date:    22/09/96 11:26 PM


Joe Agrelo wrote:
>
> Bob Bruninga wrote:

>> I am still convinced that a 50 watt black box stick-it-under-the-seat
>> HF Xtal controlled 10.151 packet transceiver can be built for well
>> under $199.  Ten tec seemed interested but still say there is no
>> market.

> I though about it, but I have to agree with Ten Tec. Their really
> needs to be some commercial applications to justify it.

Has anyone asked Ramsey or MFJ?  This is right up their alley, and they
are small enough that they don't have to sell a million units to cover
development costs.

--
        +----------------------------------------------------+
        | Technical Support Engineer, Cyclades Corporation   |
        | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
        | Maker of High Performance Multiport Serial Cards   |
        | Unsolicited mail ads subject to a $25 handling fee |
        +----------------------------------------------------+
```

---

746. Re: [APRSSIG:4953] Re: PicoPacket & MacAPRS

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 23 Sep 1996 10:00:32 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609230943.A11922-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
If the TNC somehow got into 'transparant' mode then a simple control 'c'
won't work.  Look into the book to see how to get back out of transparant
mode.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Fri, 20 Sep 1996, Kevan J Coleman wrote:

> On Fri, 20 Sep 1996 15:20:37 -0500 (CDT) jm1@webspan.net (Jay Millard)
> writes:
>
> >Can't get the TNC out of converse mode...aarghh.
> Jay, I don't know if I'm wasting bandspace here or not since I do not
> have a Pico Packet, but on AEA TNC's a good old fashioned "CONTROL-C"
> will put one back into COMMAND mode.
>
```

---

747. Re: [APRSSIG:4972] Re: HELP - APRS / GPS-45 & KPC-3

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 23 Sep 1996 10:21:49 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9609231012.B11922-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
There really is a 'Y' cable.  Seymour, KC4NMY, came up with the idea of
connecting a Kantronics KPC3 with GPS rom to a TNC (input only, of
course) and the output of the TNC to the computer.  That means that the
computer will not be able to send data to the TNC (the gps can only do
that) but the TNC can send data to the computer.

If the TNC is in GPS mode it can't be controlled by the computer, but it
does receive data from the radio and passes it to the computer.  That
allows APRS to work (listen only mode) and the GPS/TNC connection sends
out it's Tracker style position reports.

In order for you to see yourself on the APRS screen you depend on
listening to your own digipeated packets.

He has also modified the 'Y' cable and put a SPST switch in so that the
computer can occasionally 'talk' to the TNC.  This is much like the 'Y'
switch described in the APRS docs, but the switch center (common) is to
the TNC and not to the computer.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Sat, 21 Sep 1996, Bob Bruninga wrote:

> On Fri, 20 Sep 1996, Alan K. Unangst wrote:
>
> > Here is the problem, getting GPS data to run thru APRS, into a KPC-3 and be
> > transmitted.
> >
> > SYSTEM:  IBM Thinkpad 760, Garmin GPS-45, Kantronics KPC-3, APRS 7.7b, "Y"
> > harness (GPS-45 to Comp. Serial Port to KPC-3 Parallel Port).
>
> APRSdos REPLY/COMMENT:  There is no such thing as a "Y" cable.  It must be
> an HSP switch or a push button switch or a dual port PC.  Sorry...
>
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

---

748. Re: [APRSSIG:5019] Re: unproto

From: KB9NQR <kb9nqr@interaccess.com>
Date: Mon, 23 Sep 1996 09:57:59 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960923145759.0067ec78@interaccess.com>
Rendered body type: text/plain

```
I recently loaded up APRS, read the docs, and turned on my tnc and radio. It
didn't take more than a few hours before there was a message on my pbbs from
```

the local aprs path police informing me that I was using the wrong path in the unproto. It was a nice message telling me that I was a newbie and there was a lot to learn. The person gave me an e-mail address that I could send a message to. I did and asked some questions about how to properly set up so I could be a good aprs citizen. Never got a response. I guess this guy is just to busy pointing out faults, than to give out some good solid direction. Sure hope you get the info up on a web page. I dont think anyone intentionally sets out to be a bad operator.

73, Matt

---

749. Re: [APRSSIG:5017] Re: HF APRS Transceiver for $199

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Sep 1996 11:27:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960923112456.24823L-100000@arctic>
Rendered body type: text/plain

Doug Wetzel wrote concerning the search for cheap APRS HF rig:

> MFJ makes a 20 mtr qrp ssb transceiver that sells for around $230. It would be perfect for this if they could do a 30 m version, or if the 20 meter net ever becomes reality. The other qrp rigs are mostly cw only and would require some kind of direct fsk mods (have to modify the tnc, too) to work.

APRSdos REPLY/COMMENT: Mods to CW should be trivial. A varactor across the XTAL and feed it from modem disconnect header in TNC.. Thanks. Keep looking... CW rigs are good candidates...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

750. Re: [APRSSIG:4971] GPS via fiberglass and SNR?

From: "Michael Petz" <mpetz@ccm.stlcc.cc.mo.us>
Date: Mon, 23 Sep 1996 10:49:46 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19960923110559.26b7bcdc@ccm.stlcc.cc.mo.us>
Rendered body type: text/plain

Or is there metallic paint (if any) over the fiberglass that is attenuating the signal????

Michael
KA9HNT

At 08:31 PM 9/21/96 -0500, you wrote:

>On Fri, 20 Sep 1996, Richard Garcia wrote:
>
>> Has anyone tried to attach a GPS antenna inside of these fiberglass bodies (with silicone or such) and see if that worked?
>
>APRSdos REPLY/COMMENT: Today I did that test. Remember that the entire roof of the Transport/Lumina/Silouette is plastic, with only a steel shell around the edges. I could hold the GPS unit to the roof over my head, and get a few satellites, but SEVERAL DB below what I got holding it out the window. THis raises a question which TOM CLARK clarified for me and maybe he could clarify again.
>
>He says the that Signal-to-noise level reported by the GPS units is not a true SNR to thermal noise, but SNR to channel noise level which for one satellite means its signal compared to the noise of the receiver AND all the noise of the other 7 satellites in view. (did I get that right Tom?)
>
>I notice that when my garmin 45 gets its first 1, 2 or 3 satellites, they are FULL strength over the top graph line. But once more satellies get locked on, the signals reported for those initial 3 satellites goes down... Is this what you are talking about Tom? Or was this just a fluke?
>
> Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>

---

751. Re: [APRSSIG:5024] Re: unproto

From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 10:51:39 -0700
To: aprssig@tapr.org

Message-ID: <3246CE2B.1666@cris.com>
Rendered body type: text/plain

```
KB9NQR wrote:
>
> I recently loaded up APRS, read the docs, and turned on my tnc and radio. It
> didn't take more than a few hours before there was a message on my pbbs from
> the local aprs path police informing me that I was using the wrong path in
> the unproto. It was a nice message telling me that I was a newbie and there
> was a lot to learn. The person gave me an e-mail address that I could send a
> message to. I did and asked some questions about how to properly set up so I
> could be a good aprs citizen. Never got a response. I guess this guy is just
> to busy pointing out faults, than to give out some good solid direction.
> Sure hope you get the info up on a web page. I dont think anyone
> intentionally sets out to be a bad operator.
>
> 73, Matt

No i'm sure nobody does this intentionlly, and i'm sure you didn't. This is
exactly the reason i started the Mentor page on my website, and there are 36
users that must be in agreement with the idea because they have beem good enough
to ask me to add their names to the list, but i know there are many that always
look for information but when asking them for help they are not there to help. I
don't mean for this to be a flame at anyone but i have seen this many times
before.

I would like to see Bob Bruninga add a new feature to the software so when a
person is chatting (Keyboarding) Locally within 10 or 20 miles of their digi
that it would be imposible to have any wides in your unproto path. Like i said
last night there where 10 or so users within 10 miles or so of their digi that
even i could hit direct from 105 miles away those users had two wides in their
path. Not only that but they got hostile when i suggested as new users they
should read the OPS.TXT file. On top of all that a NEW 2 week old user was
running an HF gate at the same time. So Bob please notice.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

752. APRS OPS Manual!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Sep 1996 12:15:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960923121100.14220A-100000@arctic>
Rendered body type: text/plain

```
In regard to recent traffic.  I just re-read the OPS.TXT file and
everything about routine and special event OPERATIONS is in there.

It address digipeaters, WIDES, GATES, HF and RELAYS... etc

The file is named OPS.TXT beacause OPERATIONS.TXT is not a legal DOS
filename.  If OPS for some reason is not understood by newcommers, then I
would be happy to change the name to something that they would read...

(I did decide to re-sequence some of the paragraphs to put them into a
more logical sequence.  If there is anything that is NOT addressed in
this OPERATIONS manual, I woul dbe happy to address it...)
```

---

753. Wide/Relay with U-II Wx Sta

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Mon, 23 Sep 1996 11:16:29 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960923161629.0066e88c@tbcnet.com>
Rendered body type: text/plain

```
Hi,

Maybe somebody can help me.  The Kishwaukee Amateur Radio Club has got a
Wide/Relay, WA9CJN-15, that they want to use as a U-II WX site with rain gauge.
```

My assumption was that we had an either/or situation...either we could configure the TNC as a WIDE/RELAY, or as a WX station, which would reset the alias to RELAY each time dosAPRS was started. We're also hoping to keep the APRS-format for xmitted wx so non-aprs stations can read it too, ie.,

```
@230928/4155.48N/08845.07W_292/000/T058/R000/P000/U-II(auto)
```

vs.

```
#D007200020000
```

We hate to give up the Wide/Relay green symbol but the WX capability is a high priority, too.

Is there some way we can do both?

Equipment:
Dos APRS v 7.6d Validated for WX
Zenith 8088 computer with 2 serial ports
KPC-3 w/ ver 6 firmware
Alinco DR120T radio
Peet Bros U-II w/ Rain Gauge

Thanks

jbl

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

---

754. Re: [APRSSIG:5026] Re: GPS via fiberglass and SNR?

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Mon, 23 Sep 96 16:22:11 UTC
To: aprssig@tapr.org
Message-ID: <107065@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Fibreglas/Epoxy has a dielectric constant in the 3-4 range. It is lossy at microwave frequencies, which is why you don't use G10 (high quality compared to the stuff they make boats/cars/etc from) in microwave PCBs if you care about performance. I would expect that the fibreglas shell in question is about 1/4" thick, so I'd guess it will have ~6 dB loss at GPS frequencies.

If you want to do an experimental test, take a piece of the material in question and pop it in a microwave oven for ~30 seconds. If it is warm, it has a couple dB loss. If it is hot, it is many dB. FYI, the microwave oven is at ~2450 MHz, GPS is at 1575 MHz. GPS losses will be a bit less, but not by much!

Regarding GPS SNR's, the "N" in SNR is thermal noise plus the total power received from all GPS satellites. In a quiet location with a good antenna, the total of the GPS satellites will add about 3 dB of noise, i.e. double the "good" system temperature. A "good" system temperature from a low-loss antenna with a good preamp is usually in the 200-300K range, so the GPS satellites add ~300K of noise to the system. Although I don't know for sure, the GPS-20's seem to produce SNRs (as seen in the GSV message) in approximate C/No dB referenced to ~1 Hz bandwidth. The biggest S/N I've seen on a GPS-20 is ~50. Since the GPS C/A spreading code is at 1.023 Mb/s we have ~60 dB of spreading gain and the GPS signal at best is about -10 dB below the noise floor (i.e. each GPS signal contributes a few tens degrees Kelvin). Also FYI, the GPS system uses a 1023 bits spreading code, so the absolute best code orthogonality to separate one signal from another results in a < 30 dB Strongest to Weakest dynamic range; more typically for the DSP implementations used in simple receivers (one-bit sampling, throw away the amplitude, resulting in a ~2 dB SNR hit plus other implementation losses plus some nasty statistics), the "real world" dynamic range is more like 22-23 dB.

All these numbers (if you can't bedazzle them with brilliance, at least befuddle them with bulls**t!) are to impress on you that GPS is a weak signal mode and the frequencies are at microwaves! If you want good performance, be ever vigilant of losing anything in SNR! If you are mobile, try to use an external antenna. Make sure that the antenna is amplified so that you don't throw away precious dB in ohmic losses in your coax.

If you want to do another simple experiment, observe the SNR's you are getting and put your hand over the antenna. Your body will attenuate the signal (bringing new meaning to the words "dummy load"!) by a few dB.

If your setup has good performance, then you won't lose any satellites.
But if you drop lock, you had better try improving your system if reliabilty
is important to you.

73 de Tom, W3IWI

755. Re: [APRSSIG:4946] Re: DGPS Tests in Balto/Wash Area

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Mon, 23 Sep 96 16:48:17 UTC
To: aprssig@tapr.org
Message-ID: <107078@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Another update: It looked like the performance was marginal with the direct paths from the W3IWI-13 not being too great. The Balto/Wash APRS lan is in shambles, but to try to improve things this morning I added WB3V-11 as a digi in the unproto path.

The main DGPS beacon "hits" at seconds 11,31,51 UTC (20 second rate). The main output is about 60 characters long. Every so often (like every 5 minutes) the DGPS beacon has an extra line appended for an additional "housekeeping" message type. There are about 6 "extra" message types, and I slowed them down, making their repeat rates related as prime numbers times the 20 sec basic rate so that they would not step on each other very often. Also, I had been sending all the data as one single <UI> frame; this was changed so that each of the messages (when more than one is sent) is a separate <UI> frame for better flow control.

The other small maintenance fix was to crank the TX audio level down -- IWI-13 sounded very "heavy" compared to other stations on the channel.

I'm still soliciting reports on the IWI-13 DGPS beacon: (a) Are you copying it either directly or via WB3V-11? (b) If you copy it, does it drive your GPS receiver OK, and (c) If it is connected to your receiver, what kind of results improvement do you see?

73, Tom

756. KC7LSP - QRT

From: kc7lsp@juno.com (Kevan J Coleman)
Date: Mon, 23 Sep 1996 13:10:25 EDT
To: aprssig@tapr.org
Message-ID: <19960923.100647.4495.3.KC7LSP@juno.com>
Rendered body type: text/plain

All,
I've really enjoyed reading this SIG. It's been very educational to say the least. Unfortunantly there are just too many message coming through here for me to keep up with.

73, Kevan

```
Postal   : 313 Cedar Court - Winlock, WA 98596-9777
Packet  : KC7LSP@WA7SJN.#WWA.WA.USA.NOAM
-----------------------------------------------------------------------
Cruise Missile Coordinates :    4631.17N/12255.10W
```

757. Re: [APRSSIG:5027] Re: unproto

From: schiers@ames.net
Date: Mon, 23 Sep 96 12:32:59 -0500
To: aprssig@tapr.org
Message-ID: <199609231738.MAA25093@tapr.org>
Rendered body type: text/plain

In <810940@bbs.ames.net>, on 09/23/96 at 12:03 PM,
aprssig@tapr.org said:

>Locally within 10 or 20 miles of their digi
>that it would be imposible to have any wides in your unproto path.

Making it difficult or cumbersome to put wides in the unproto path is fine with me. Making it locked out by the software itself is short-sighted, as local topography and station density determine how many (if any) wides may suit the local user community and network. We don't need big brother deciding it for us.

This is all too close to the "please save us from ourselves" philosophy

```
that has caused us so much difficulty in the past. User education is the
key and peer pressure (persuasion) is the solution to these kinds of
problems, not hamstringing the software, which has features that might be
abused in some areas, but be essential in others.

Let's not have the cure be worse than the problem it's supposed to solve.

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

758. Re: [APRSSIG:5027] Re: unproto

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Sep 1996 14:53:00 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960923145048.6583C-100000@arctic>
Rendered body type: text/plain

```
On Mon, 23 Sep 1996, William Nolle wrote:

> I would like to see Bob  add a new feature to the software so when a
> person is Keyboarding Locally within 10 or 20 miles of their digi
> that it would be imposible to have any wides in your unproto path.

APRSdos REPLY/COMMENT: APRS could doubtfully be that smart.  How could it
know that the person was local?  In California you can cover 150 miles in
one hop via a mountain top digipeater.  In florida, you are lucky to talk
25  miles..

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

759. Re: [APRSSIG:5029] Wide/Relay with U-II Wx Sta

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Sep 1996 14:57:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960923145416.6583D-100000@arctic>
Rendered body type: text/plain

```
On Mon, 23 Sep 1996, John B. Leonard, Jr wrote:

> Maybe somebody can help me.  The Kishwaukee Amateur Radio Club has got a
> Wide/Relay, WA9CJN-15, that they want to use as a U-II WX site with rain
> gauge.
>
> My assumption was that we had an either/or situation...either we could
> configure the TNC as a WIDE/RELAY, or as a WX station, which would reset the
> alias to RELAY each time dosAPRS was started.
> We hate to give up the Wide/Relay green symbol but the WX capability is a
> high priority, too.
>
> Is there some way we can do both?

APRSdos REPLY/COMMENT:  Forget the PC. A singel DIGI can do it all, but
will not show up green all the time.  I would just simply wire TWO TNC's
to the same radio.  Let one TNC (with dual aliases for WIDE-RELAY) be
the digi and the second one would be the WX station and PC computer doing
whatever it wanted...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

760. Re: [APRSSIG:5033] Re: unproto

From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 14:34:33 -0700
To: aprssig@tapr.org
Message-ID: <32470269.6C75@cris.com>
Rendered body type: text/plain

```
schiers@ames.net wrote:
>
> In <810940@bbs.ames.net>, on 09/23/96 at 12:03 PM,
>    aprssig@tapr.org said:
>
> >Locally within 10 or 20 miles of their digi
> >that it would be imposible to have any wides in your unproto path.
>
> Making it difficult or cumbersome to put wides in the unproto path is fine
> with me. Making it locked out by the software itself is short-
> sighted, as local topography and station density determine how many (if
> any) wides may suit the local user community and network. We  don't need
> big brother deciding it for us.
>

O Come-On, if you can't hit a digi that's 10 miles away direct then you
should improve your antenna system or not use a rubber ducky for an antenna.

> This is all too close to the "please save us from ourselves" philosophy
> that has caused us so much difficulty in the past. User education is the
> key and peer pressure (persuasion) is the solution to these kinds of
> problems, not hamstringing the software, which has features that might be
> abused in some areas, but be essential in others.
>

The i have another idea (This may even help Bob!. Place a limit on unproto
path's in the unregistered version since all new users run that version!.
Normally you don't see the veteran user use path's like that, But i'm sure
you won't afree with that either (Hopefully you have a registered version)

> Let's not have the cure be worse than the problem it's supposed to solve.
>

I could live with that with no problems at all.

> 73,
>
> hasan schiers, N0AN--
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

761. Re: [APRSSIG:4723] Re: APRS Mobiles

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 23 Sep 1996 14:27:16 -0500
To: <aprssig@tapr.org>
Message-ID: <199609232033.PAA02243@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
> Makes me want to get the mobile HF going next time I take a long drive.
> There are a lot of APRS dead areas on VHF!
> Memphis TN is an area that is amazingly dead, and so is Missouri, down
I-44.
> Those KC guys need to get crackin down near Rolla.
> , seriously- I am working with a fella on a possible Digi in Rolla.
>
> Ralph
>
>
I'd like to see the Rolla digi going! Went thru there and nothing on APRS
last week.
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *
```

---

762. Re: [APRSSIG:5034] Re: unproto

From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 16:33:40 -0700
To: aprssig@tapr.org
Message-ID: <32471E54.6086@cris.com>

Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Mon, 23 Sep 1996, William Nolle wrote:
>
> > I would like to see Bob  add a new feature to the software so when a
> > person is Keyboarding Locally within 10 or 20 miles of their digi
> > that it would be imposible to have any wides in your unproto path.
>
> APRSdos REPLY/COMMENT: APRS could doubtfully be that smart.  How could it
> know that the person was local?  In California you can cover 150 miles in
> one hop via a mountain top digipeater.  In florida, you are lucky to talk
> 25  miles..
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

Good point Bob. The only thing right now that i can come up with if all digi
owners use the correct HAAT then it could be anything within that area.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

763. Re: [APRSSIG:5036] UNPROTO and crippled unregistered software.

From: byoung@qni.com
Date: Mon, 23 Sep 1996 16:43:03 -0500
To: aprssig@tapr.org
Message-ID: <9609232143.AA25822@qni.com>
Rendered body type: text/plain

```
On Mon, 23 Sep 1996, Hasan Schiers and William Nolle were discussing:
>
>The i have another idea (This may even help Bob!. Place a limit on
>unproto path's in the unregistered version since all new users run
>that version!. Normally you don't see the veteran user use path's
>like that, But i'm sure you won't afree with that either (Hopefully
>you have a registered version) Let's not have the cure be worse than
>the problem it's supposed to solve.
>
>I could live with that with no problems at all.
>

BAD IDEA!  I want to give you only two of *MANY* reasons I can see:

#1  When I "sell" APRS to a ham, I want to give him a program that
allows him to see, touch, and try all the possibilities his ticket
permits.  This process, probably more than my demonstration, is what
actually gets a person "hooked" on APRS.

#2  I'd rather see Bob's energy and limited time continue to go toward
enhancements (and the infrequent bug fix...).  There's an honest limit
to how much he can cram into his code, and I'd rather have bells and
whistles, *NOT* balls and chains!

If you're gonna put restrictions on the package, why not ask Bob to
limit an unregistered user to 30 minutes?  No wait, that's not harsh
enough... Why not prevent anybody but an Extra Class ticket from using
the software?  Or "better still", why not put a virus in that destroys
the boot-sector on their hard drive if they use the wrong UNPROTO?

Come on guys!  I look on each new (or otherwise...) APRS user that's
"doing it wrong" as a real opportunity to mentor and fraternize with a
fellow ham.  It's a chance to pass on other operating "tips, tricks,
and traps" that they may not be aware of.

Bill Young
byoung@qni.com
KB0UZQ
```

764. Re: [APRSSIG:5039] Re: UNPROTO and crippled unregistered software.

From: William Nolle <wa8inz@cris.com>
Date: Mon, 23 Sep 1996 17:43:12 -0700
To: aprssig@tapr.org
Message-ID: <32472EA0.5399@cris.com>
Rendered body type: text/plain

```
byoung@qni.com wrote:
>
> On Mon, 23 Sep 1996, Hasan Schiers and William Nolle were discussing:
> >
> >The i have another idea (This may even help Bob!. Place a limit on
> >unproto path's in the unregistered version since all new users run
> >that version!. Normally you don't see the veteran user use path's
> >like that, But i'm sure you won't afree with that either (Hopefully
> >you have a registered version) Let's not have the cure be worse than
> >the problem it's supposed to solve.
> >
> >I could live with that with no problems at all.
> >
>
> BAD IDEA!  I want to give you only two of *MANY* reasons I can see:
>
> #1  When I "sell" APRS to a ham, I want to give him a program that
> allows him to see, touch, and try all the possibilities his ticket
> permits.  This process, probably more than my demonstration, is what
> actually gets a person "hooked" on APRS.
>
> #2  I'd rather see Bob's energy and limited time continue to go toward
> enhancements (and the infrequent bug fix...).  There's an honest limit
> to how much he can cram into his code, and I'd rather have bells and
> whistles, *NOT* balls and chains!
>
> If you're gonna put restrictions on the package, why not ask Bob to
> limit an unregistered user to 30 minutes?  No wait, that's not harsh
> enough... Why not prevent anybody but an Extra Class ticket from using
> the software?  Or "better still", why not put a virus in that destroys
> the boot-sector on their hard drive if they use the wrong UNPROTO?
>
> Come on guys!  I look on each new (or otherwise...) APRS user that's
> "doing it wrong" as a real opportunity to mentor and fraternize with a
> fellow ham.  It's a chance to pass on other operating "tips, tricks,
> and traps" that they may not be aware of.
>
> Bill Young
> byoung@qni.com
> KB0UZQ

Well i can see your thinking, but at the same time all those users could
be paying for Bob's time by registering the software, i see many that
have run the shareware version for a year and are still not registered is
that what your looking for?.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

765. Shirts

From: KD4EMI@aol.com
Date: Mon, 23 Sep 1996 20:21:09 -0400
To: aprssig@tapr.org
Message-ID: <960923202109_291603943@emout20.mail.aol.com>
Rendered body type: text/plain

All remaining shirts are being picked up and sent tomorrow night.
You should all have your shirts by the end of the week.

I actually broke even !!

I have several XXL shirts that are still available if anyone is interested.

If I get alot more orders I will make another run of them.
73 Mike

KD4EMI@AOL.COM

766. Re: [APRSSIG:5011] Re: HF APRS Transceiver for $199

From: Glenn Little <glittle@awod.com>
Date: Mon, 23 Sep 1996 21:32:32 -0400
To: aprssig@tapr.org
Message-ID: <199609240123.VAA07467@sumter.awod.com>
Rendered body type: text/plain

At 11:26 PM 9/22/96 -0500, you wrote:
>Joe Agrelo wrote:
>>
>> Bob Bruninga wrote:
>
>>> I am still convinced that a 50 watt black box stick-it-under-the-seat
>>> HF Xtal controlled 10.151 packet transceiver can be built for well
>>> under $199. Ten tec seemed interested but still say there is no
>>> market.
>
>> I though about it, but I have to agree with Ten Tec. Their really
>> needs to be some commercial applications to justify it.
>
>Has anyone asked Ramsey or MFJ? This is right up their alley, and they
>are small enough that they don't have to sell a million units to cover
>development costs.
>
>--

Why not use a surplus marine transceiver??

These are cheap at hamfests, especially the xtal controlled units.

They cover the freq range needed.
They usually run about 100W.

The last one I bought cost $10.00.

This seems cheap enough. If you cannot fix it if is broke then a
reevaluation of the amateur radio qualifications might be in order.

73
Glenn Little
WB4UIV

767. Re: [APRSSIG:5022] Re: PicoPacket & MacAPRS

From: jm1@webspan.net (Jay Millard)
Date: Mon, 23 Sep 1996 21:53:29 +0000
To: aprssig@tapr.org
Message-ID: <v01510101ae6cb64b8c40@[38.10.232.159]>
Rendered body type: text/plain

Thank you to all those who replied (or were thinking of replying) to my
request for help with my PicoPacket. A phone call to PacComm and Bob in
service led us to conclude that one of us (the TNC or me) had lost our
mind. Since the PicoPacket could not FEDEX me back to my parents, I chose
to FEDEX it to its. Hopefully that will result in a brain transplant and a
happier ham at this end.

So far so good on the customer service aspect of PacComm, I'll keep y'all
posted.

73 de Jay

Jay Millard
Harmill Communications Inc.
** Amateur Radio Station KD1LY **
Darien, Connecticut 06820

768. Re: [APRSSIG:5025] Re: HF APRS Transceiver for $199

From: Doug Wetzel <dwetzel@slkc.uswest.net>
Date: Mon, 23 Sep 1996 20:04:16 -0600
To: aprssig@tapr.org
Message-ID: <324741A0.1270@slkc.uswest.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>

> Doug Wetzel wrote concerning the search for cheap APRS HF rig:
> >
> > MFJ makes a 20 mtr qrp ssb transceiver that sells for around $230. It
> > would be perfect for this if they could do a 30 m version, or if the 20
> > meter net ever becomes reality. The other qrp rigs are mostly cw only
> > and would require some kind of direct fsk mods (have to modify the tnc,
> > too) to work.
>
> APRSdos REPLY/COMMENT: Mods to CW should be trivial. A varactor across
> the XTAL and feed it from modem disconnect header in TNC.. Thanks. Keep
> looking... CW rigs are good candidates...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

They sure are - question is, can inexpensive tncs like the kpc3 clock
the uart output at 300 bps - and it doesn't have a disconnect header
(although one COULD resort to a chip clip and leave the cover off...:-(

KC7CO

---

769. APRS Message HOT keys

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Sep 1996 22:36:27 -0400 (EDT)
To: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960923222951.11446A-100000@arctic>
Rendered body type: text/plain

On 23 Sep 1996, J. Scott Ratchford, KC5JGV wrote about high speed ops:

> there were a few that wanted to "keyboard". That's ok if your stopped but
> not at 70 mph! SO, the idea hit, is there a way of adding "programmable"
> function keys to the program? Programmable, meaning, user changable
> keystrokes. Like, "Funnel Clound Sighted at _____" or "Hello from KC5JGV
> APRS mobile!" or anything else such a series of commands.

APRSdos REPLY/COMMENT: Its all in there. Read HELP.txt about sending
messages. You can duplicate a previous message to a new station by
hitting F2 for "reply" and then the number key of the existing message
you want to send to this new person. THen hit ENTER... 3 Keys...

You can even pre-load several such mesasges by sending them to MSG1,
MSG2 and so forth. They will NOT be transmitted to MSGx... but are
available then for copying with the 3 strokes above...

VERY HANDY for MOBILES! You should be able to come up with a half dozen
generic responses that will cover most of the needed replies while you
are on the road..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

770. Re: [APRSSIG:5017] Re: HF APRS Transceiver for $199

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Mon, 23 Sep 1996 20:35:06 -0700
To: aprssig@tapr.org
Message-ID: <324756EA.24D52BC9@cyclades.com>
Rendered body type: text/plain

Doug Wetzel wrote:

> The other qrp rigs are mostly cw only and would require some kind of
> direct fsk mods (have to modify the tnc, too) to work.

The modification to the transmitter is relatively minor. (No mod is
needed for the receiver.) Typically, all that is needed is to switch a
capacitor across the VFO cap.

The line needed from the TNC should be already available on the modem
disconenct header. (Sorry, KPC-3 users...)

It's definitely not a task for appliance ops, but someone should be able
to come up with a decent "Heathkit" modification for something like the
MFJ 30m CW rig.

I'd give it a shot, but the resulting rig would be useless to me with my

```
license... <G>  Someone should check with MFJ; their rig may already
have the proper connection and/or instructions for the mod.

--
         +---------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | Maker of High Performance Multiport Serial Cards   |
         | Unsolicited mail ads subject to a $25 handling fee |
         +---------------------------------------------------+
```

---

771. Re: [APRSSIG:5023] Re: HELP - APRS / GPS-45 & KPC-3

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Mon, 23 Sep 1996 21:06:29 -0700
To: aprssig@tapr.org
Message-ID: <32475E45.587A3B59@cyclades.com>
Rendered body type: text/plain

```
Has anyone investigated using the diode matrix used to "stack" TNCs?
This seems to be the answer to the "Y cable" problem.. cheap, easy to
find parts, and the schematic is readily available.

--
         +---------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | Maker of High Performance Multiport Serial Cards   |
         | Unsolicited mail ads subject to a $25 handling fee |
         +---------------------------------------------------+
```

---

772. Re: [APRSSIG:5029] Wide/Relay with U-II Wx Sta

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Tue, 24 Sep 1996 07:21:42 -0400
To: aprssig@tapr.org
Message-ID: <3247C446.2B8D@co.pinellas.fl.us>
Rendered body type: text/plain

```
John B. Leonard, Jr wrote:
>
> Hi,
>
> Maybe somebody can help me.  The Kishwaukee Amateur Radio Club has got a
> Wide/Relay, WA9CJN-15, that they want to use as a U-II WX site with rain gauge.
>
> My assumption was that we had an either/or situation...either we could
> configure the TNC as a WIDE/RELAY, or as a WX station, which would reset the
> alias to RELAY each time dosAPRS was started.  We're also hoping to keep the
> APRS-format for xmitted wx so non-aprs stations can read it too, ie.,
> @230928/4155.48N/08845.07W_292/000/T058/R000/P000/U-II(auto)
>
> vs.
>
> #D007200020000
>
> We hate to give up the Wide/Relay green symbol but the WX capability is a
> high priority, too.
>
> Is there some way we can do both?
>
> Equipment:
> Dos APRS  v  7.6d Validated for WX
> Zenith 8088 computer with 2 serial ports
> KPC-3 w/ ver 6 firmware
> Alinco DR120T radio
> Peet Bros U-II w/ Rain Gauge
>
> Thanks
>
> jbl
> -------------------------------------------------------------------
> J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
> WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
> American Red Cross Disaster Services - DeKalb Co Chapter

Well Barry, making the KPC-3 a wide-relay is a simple matter of setting
myalias to WIDE and Mynode to Relay using any terminal program or the
terminal mode in APRS...it just won't show up as a green star, but
rather, as a weather station if you are outputing weather data and
designate it with the _ symbol code for APRS.
```

```
--
**********************************************************************
From:  Kevin Heyboer            E-mail:kheyboer@co.pinellas.fl.us
Amateur Radio Call:  KD4UYR     Packet Mail: KD4UYR @W4DPH.#CLW.FL.US
Assistant Emergency Coordinator and SKYWARN Coordinator
Greater Pinellas County (St Petersburg/Clearwater) Florida
**********************************************************************
```

---

773. Getting the GPS-20 to work.

From: Joe Scalet - WK0G <jscalet@sound.net>
Date: Mon, 23 Sep 1996 20:26:49 -0500
To: aprssig@tapr.org
Message-ID: <324738D9.7775@sound.net>
Rendered body type: text/plain

```
I've noticed a resurgence in messages about getting the GPS-20 to run
 so I thought I'ld throw in my $2/100 worth. I'm now on my second board.
 The first was fried when my regulator failed. Garmin swapped it for
 $45.00. I thought this was a great deal since the board had gotten hot
 enough to melt the labels and blister the conformal coating.(BTW a fuse
 would have made no difference as the total current consumed was only
 about 500mah. All that a fuse does is prevent a fire.)

 Voltage required:

         The first power supply delivered 4.92 volts and the GPS-20 came
up each
 and every time. The new power supply is a PT5101 switching 5 volt
 regulator and it supplies 4.97 volts. Again the GPS-20 comes up each
and
 every time. It also comes up on my bench supply at 5.000 volts with no
 problems. The first power supply was a 7805 and 7 NIMH cells rated at
 1800mah. The supply now uses the same batteries. When the supply
voltage
 falls below regulation to 4.5 or below the GPS-20 still initializes but
 puts out random garbage. I'm not sure what a "hard" power supply is
 (maybe a ps thats got a copy of the "Volts of Steel" video ?). I've
even
 gotten both boards to initialize by gradually turning up the voltage on
 my bench ps from 0 to 4.9 volts.
         I'ld almost suspect that there is something else going on. It
could be
 a bad connector in the interface plug (very easy to do), or a shorted
 antenna connection. If you are getting no data out of the GPS-20 try
 monitoring the supply current with an analog meter and you will see a
 pulsing of the current drain in synch with the data sentences. This is
a
 good indication that something in your connector is not good(very easy
 to happen).
         I've had a blast with mine and really want to thank Bob and
TAPR for
 offering this board. I ran into another ham at our club meeting and
 he'ld purchased the GPS-25 evaluation kit (12 channel parallel) from
 Garmin. I was a little jealous at first. He got the board, the prewired
 connector with a DB-9 on it, an active antenna, a wall wart to power it
 and some skimpy documentation. Then I found out it cost $650. I like to
 keep my toys cheap so I'm happy.
```

---

774. Re: [APRSSIG:5039] Re: UNPROTO and crippled unregistered software.

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 24 Sep 1996 08:22:37 -0500
To: aprssig@tapr.org
Message-ID: <v03007800ae6d9084af51@[138.87.2.109]>
Rendered body type: text/plain

```
On Mon, 23 Sep 1996, Bill Young said:

>#1  When I "sell" APRS to a ham, I want to give him a program that
>allows him to see, touch, and try all the possibilities his ticket
>permits.  This process, probably more than my demonstration, is what
>actually gets a person "hooked" on APRS.
>
>#2  I'd rather see Bob's energy and limited time continue to go toward
>enhancements (and the infrequent bug fix...).  There's an honest limit
>to how much he can cram into his code, and I'd rather have bells and
>whistles, *NOT* balls and chains!

Let's keep with these ideas.
```

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

775. Re: aprs and U2000 signals

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 09:47:11 -0400 (EDT)
To: Ronald Kramer <rkramer@merge1.mergetel.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924091826.14747A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 24 Sep 1996, Ronald Kramer reports that his U2K connected to APRS
serial port gives the following WX data:

......_059/000/T068/R000p000b0193h65g000U2K   (which is OK)

but if he feeds it to a standalone Paccomm tiny-2, APRS shows:

......_059/000/068c652p024b0193h27U2KR

Which shows different values:
   1) It dropped the T in temperature (this must be a bug.  I'll fix)
   2) The c652 is the raw rain counter, since now there is no way to
      report the *change* in rain counter
   3) The p024 is probably the second raw rain counter, but it should
      not be there, or at least the label should not be "p"
   4) The h27 is showing humidity, but it is certainly lower than
      the previous value of h65.  DId he have the humidity sensor
      in different places?

THe OFF-AIR raw WX data was: !!0000002AB001827D102FF028C----010A056C

I will check on the T in temperature and the p value, but is anyone else
seeing a humidity reading that is not correct in the stand-alone reports?
Since there are both inside and outside humidity sensors, could I be
reading the wrong one in one of these modes?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

776. Re: [APRSSIG:5048] Re: Wide/Relay with U-II Wx Sta

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 24 Sep 1996 08:43:50 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960924134350.006cf174@tbcnet.com>
Rendered body type: text/plain

```
I think what we decided was that 10 people would check their stuffed chairs
for loose change in the cushions and buy a second TNC.  Then we can keep the
green star and at the same time, xmit Wx info.  The tempation was to just
leave the aliases intact (WIDE/RELAY) but just not have the green star.  But
that would go against the spirit of the Wide concept.

Thanks to BobAPR and all else who responded.

jbl

At 06:28 9/24/96 -0500, you wrote: (various snips herein)

>> Maybe somebody can help me.  The Kishwaukee Amateur Radio Club has got a
>> Wide/Relay, WA9CJN-15, that they want to use as a U-II WX site with rain
gauge.
>>

>Well Barry, making the KPC-3 a wide-relay is a simple matter of setting
>myalias to WIDE and Mynode to Relay using any terminal program or the
>terminal mode in APRS...it just won't show up as a green star, but
>rather, as a weather station if you are outputing weather data and
>designate it with the _ symbol code for APRS.
-----------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

777. Enough of Y cables...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 10:18:24 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924101327.14747F-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996, someone wrote:

> Has anyone investigated using the diode matrix used to "stack" TNCs?
> This seems to be the answer to the "Y cable" problem.. cheap, easy to
> find parts, and the schematic is readily available.

APRSdos REPLY/COMMENT: YOu can combine 100 devices to your single COM port in any way you want using X, Y or Z cables, but since the GPS is constantly outputting data every second, all you will get is garbled data unless you have a switch. Either Manual or HSP. Period.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

778. Re: APRS Message HOT keys

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 10:35:19 -0400 (EDT)
To: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924102532.14747J-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996, J. Scott Ratchford, KC5JGV wrote:

> Wow! I must have missed that in the docs. OK, here is another idea. Why
> not have a Sendmsg command in the Hooked commands. i.e. new station
> comes on-line and you move the cursor to it on the map screen and hit
> return Send message....

APRSdos REPLY/COMMENT: Its in there. Just hook a station and hit S for send. I guess I could add that to the Hooked menu, huhh...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

779. Re: [APRSSIG:5052] Re: Wide/Relay with U-II Wx Sta

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 10:41:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924103722.14747K-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996, John B. Leonard, Jr wrote:

> ...We decided to buy a second TNC. Then we can keep the
> green star and at the same time, xmit Wx info.

APR REPLY: OOps, but if they have the same posit, then they will be on top of each other and only the last one will show on everyone's map... Why not put the repeater TNC up high on a hill where it will do the most good. For that matter, put the WX station up there too... OOps, but then you have the same problem, hi hi...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

780. Re: [APRSSIG:5051] Re: aprs and U2000 signals

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 11:09:28 -0400 (EDT)
To: aprssig@tapr.org
Cc: ksproul@hardees.rutgers.edu, Mark Sproul <sproul@ap.org>
Message-ID: <Pine.GSO.3.95.960924105320.27161A-100000@arctic>
Rendered body type: text/plain

I earlier wrote, but have since checked the code on these reports:

```
> Ron's U2000 report:    ...059/000/T068/R000p000b0193h65g000U2K   (OK)
> His Standalone report: ...059/000/068c652p024b0193h27U2KR
>    1) It dropped the T in temperature (I'll fix this)
```

*** The T is in the code... Maybe he had a typo when he typed it in

```
>    2) The c652 is the raw rain counter, since now there is no way to
>       report the *change* in rain counter
>    3) The p024 is probably the second raw rain counter, but it should
>       not be there, or at least the label should not be "p"

*** The c652 is the raw rain counter (the second one, not normally used
    by APRS.  THe p024 is the first raw rain counter.  I had assumed that
    everyone was zeroing this every day, so that it could be interpreted
    as rain per day.  I dont think that is a good idea.  We cant guarantee
    that everyone will do this, especially if it is remotely mounted on
    a hilltop...  So I just changed  my code so that this second raw rain
    counter is reported as x024.  I can use any character instead of
    the "x" but I will wait until I hear from Sproul's before I make it
    official.

>    4) The h27 is showing humidity, but it is certainly lower than
>       the previous value of h65.  DId he have the humidity sensor
>       in different places?
>
> THe OFF-AIR raw WX data was: !!0000002AB001827D102FF028C----010A056C

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

781. Re: [APRSSIG:5045] APRS Message HOT keys

From: ku0g@sprynet.com (Jim Duncan)
Date: Tue, 24 Sep 1996 08:02:59 -0700
To: aprssig@tapr.org
Message-ID: <199609241502.IAA00732@m1.sprynet.com>
Rendered body type: text/plain

```
>APRSdos REPLY/COMMENT:  Its all in there.  Read HELP.txt about sending
>messages.  You can duplicate a previous message to a new station by
>hitting F2 for "reply" and then the number key of the existing message
>you want to send to this new person.  THen hit ENTER...  3 Keys...
>
>You can even pre-load several such mesasges by sending them to MSG1,
>MSG2 and so forth.  They will NOT be transmitted to MSGx...  but are
>available then for copying with the 3 strokes above...
>
>VERY HANDY for MOBILES!  You should be able to come up with a half dozen
>generic responses that will cover most of the needed replies while you
>are on the road..


Yes, BUT.....If you program 10 messages for out-going texts don't you fill
up the incoming message buffer????  We suggested this same idea a year and a
half ago.
I'd still like to see the function available through a "set up" mode then
the pre-coded texts could be stored in the CFIG file and immediately
available on initialization of the software!

73 de Jim, KU0G
```

---

782. SALE STUFF

From: KD4EMI@aol.com
Date: Tue, 24 Sep 1996 12:00:58 -0400
To: aprs-fl@tapr.org
Cc: aprssig@tapr.org
Message-ID: <960924120057_316275211@emout09.mail.aol.com>
Rendered body type: text/plain

```
Im in a bit of a pinch and am selling some stuff, if anyone needs this, let
me know.

Garmin 45 perfect condtion  $175 Firm
Kenwood TR 7950 (50 watt mobile)  $175
Kenwood Tr 7900 (30 watt mobile)  $150
Kam with version 5.0 $175

486sx33 w/ 4M ram and 500 meg HD runs fine, windows etc.
With monitor (monitor is a bit old)
$300 Firm
Please call Mike at 954-974-4153
```

---

783. Re: [APRSSIG:5052] Re: Wide/Relay with U-II Wx Sta

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 24 Sep 1996 13:17:42 -0400

To: aprssig@tapr.org
Message-ID: <324817B6.4EE4@cyberenet.net>
Rendered body type: text/plain

I thought I remembered a few revs back that it was possible to have a GREEN circle, indicating a WIDE/Wx station.

Bob (APR), is/was this true and is that option still available?

73 all...Bob

784. Re: HF APRS Transceiver for $199

From: kf4dys@juno.com (Joe Foor)
Date: Tue, 24 Sep 1996 08:12:07 PST
To: aprssig@tapr.org
Message-ID: <19960924.130749.4503.3.kf4dys@juno.com>
Rendered body type: text/plain

Why do you folks keep refering to the KPC3 in this thread?

Have I missed a command in the manual? Is there a way to tell the KPC3 to change from 1200 baud to 300 baud, for the net speed?

Shouldn't you be talking in reference to the MFJ 1270? At least it operates at the right speed for HF nets, and the price is about the same.

regards,
Joe

785. Re: [APRSSIG:5057] Re: APRS Message HOT keys

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 14:35:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924143328.28763A-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996, Jim Duncan wrote:

> >APRSdos REPLY/COMMENT: Its all in there. Read HELP.txt about sending
> >messages. You can duplicate a previous message to a new station by
> >hitting F2 for "reply" and then the number key of the existing message
>
> Yes, BUT.....If you program 10 messages for out-going texts don't you fill
> up the incoming message buffer????

*** NO. Only the outgoing buffer.

> I'd still like to see the function available through a "set up" mode then
> the pre-coded texts could be stored in the CFIG file and immediately
> available on initialization of the software!

APRSdos REPLY/COMMENT: They are saved when you do a backup. Just save and reload the backup...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

786. Re: [APRSSIG:5057] Re: APRS Message HOT keys

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 24 Sep 1996 13:44:36 -0500
To: <aprssig@tapr.org>
Message-ID: <199609241845.NAA19447@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

> From: Jim Duncan <ku0g@sprynet.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5057] Re: APRS Message HOT keys
> Date: Tuesday, September 24, 1996 10:09 AM
>
>
> >APRSdos REPLY/COMMENT: Its all in there. Read HELP.txt about sending
> >messages. You can duplicate a previous message to a new station by
> >hitting F2 for "reply" and then the number key of the existing message
> >you want to send to this new person. THen hit ENTER... 3 Keys...
> >
> >You can even pre-load several such mesasges by sending them to MSG1,

> >MSG2 and so forth. They will NOT be transmitted to MSGx... but are
> >available then for copying with the 3 strokes above...
> >
> >VERY HANDY for MOBILES! You should be able to come up with a half dozen
> >generic responses that will cover most of the needed replies while you
> >are on the road..
>
>
> Yes, BUT.....If you program 10 messages for out-going texts don't you fill
> up the incoming message buffer???? We suggested this same idea a year and a
> half ago.
> I'd still like to see the function available through a "set up" mode then
> the pre-coded texts could be stored in the CFIG file and immediately
> available on initialization of the software!
>
> 73 de Jim, KU0G

Exactly!
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *

---

787. HF/XCVR, UNPROTO,WIDE,W,W

From: bbliss@juno.com (William B. Bliss)
Date: Tue, 24 Sep 1996 14:54:04 EDT
To: aprssig@tapr.org
Message-ID: <19960924.115330.9207.0.bbliss@juno.com>
Rendered body type: text/plain

APRS'ers, One and You all..
    Recient sig messages regarding the subject matter. Appears to me a lot
of users are unaware of the DOS README.DIR files, or they have failed to
read same.
     Also appears no such file exists for the WinAPRS, MacAPRS users. May I
suggest to the Sproul Bro's. include a ZIP'ed file of the DOS README.DIR
with their program., and also a ZIP'ed file should be made available on the
TAPR aprssig. program files, for users to download.
    As APR/Bob mentioned read the following files, as minimum reading anyway:
OPS.TXT, DIGIS.TXT, HF,TXT... There is enough documentation info in these
three files alone, that should clear up some misunderstanding.
    Gateway Rules, Digipeater rules, Routing ops, are paragraphs that explain
a lot on UNPROTO PATHS, use of WIDE,WIDE,WIDE
    " Paths of W,W,W   SHOULD BE AVOIDED. "   Do not Gate VHF, TO HF ,
appropriate paths for Mobile and Fixed stations are discussed.
      The README.DIR has been included since day one of the DOS program,
at least the last THREE years since Ver 2.4 when I started.
     I just recently had two incidences of Southern Calif. APRS ops , QSO'ng
on HF and found they were on VHF. This last one, new nothing about any
readme.dir of unproto paths and was using the following:
WIDE,WIDE,GATE,GATE,
WIDE,WIDE,RELAY.. , with WinAPRS,   No idea of not going VHF to HF..
????????

  New Subj: Re VOX-APRS & Mic-Encoder. If we had a common HF 20Meter
Voice APRS QSO frequency for Mobiles crossing country, and us land locked
sailors, would the same concept of GPS position burst at end of Voice on HF
work ??? as explained for VHF..   ???   APR/Bob, your comments. Were looking
for HF packet frequencies in other bands, how bout a common Voice band

using Mic-encoder concept ?.   Something new to kick around ..

    Also, couple recient Ballon tracking events back midwest/east, how bout
couple HF relay stations of tracking info, for us early risers out here in the
west, nothing appeard on HF band for us to copy. Would it hurt the HF

bands
that much for a mid-west (Kansas City Area, - N0AN/KU0G) allowd to
relay
special events like the balloon runs . ?????

      While on HF, does anyone object to my CWID on 10151/lsb every 30M,
for
propogation information. I frequently hear HH2B from Purerto Rico and it
gives
me an idea of 30M conditions. Perhaps mine in the west and another up in
North East and Kansas City area, would be of some benifit to the HF
users. ??

    On the HF/Transciever, single channel ideas. Two advertizers in World
Radio
could possibely be contacted, as suppliers..

     New one 1st add for QRP type kits: NW2080, Monobanders,
80,40,30,20, 5
watts , Superhet with Variable Bandwidth Crystal Ladder Filter, RIT $75
plus
other..   EMTECH , 3641A Preble St. Bremerton, WA 98312
(360-415-0804),
E-mail <roygregson@aol.com>

      Another QRP supplier may be interested: Wilderness Radio, P.O.
Box 734,
Los Altos, CA 94023-0734 (415-494-3806) , 3 band $295, 6 bands #369.
      Althought QRP rigs & kits, possible more power output transistor
capable.

    73's & Enjoy, Bill/WB6LPG <wbliss@coastside.net// bbliss@juno.net>
NNNN

---

788. Re: [APRSSIG:5059] Re: Wide/Relay with U-II Wx Sta

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 15:04:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924144044.28763C-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996, Bob Derderian wrote:

> I thought I remembered a few revs back that it was possible to have a
> GREEN circle, indicating a WIDE/Wx station.
> Bob (APR), is/was this true and is that option still available?

APRSdos REPLY/COMMENT: YES! It will be a green circle everytime it
BEACONS and will turn into a WX report every time it sends WX data, I
think... As long as you put in the BText the words WIDE-RELAY

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

789. Re: [APRSSIG:5063] HF/XCVR, UNPROTO,WIDE,W,W

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Sep 1996 19:06:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960924190402.27402C-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996, William B. Bliss wrote:

>   New Subj: Re VOX-APRS & Mic-Encoder. If we had a common HF 20Meter
> Voice APRS QSO frequency for Mobiles crossing country, and us land locked
> sailors, would the same concept of GPS position burst at end of Voice
> on HF work ???

APRSdos REPLY/COMMENT: The packet would be 1.5 seconds long... Might not
be appreciated. Might not even be legal in voice bands, but I would
argue that it is not packet, it is Selective Calling.... Which is legal.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

790. Re: [APRSSIG:5058] SALE STUFF

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 24 Sep 1996 22:30:44 -0400

To: aprssig@tapr.org
Message-ID: <32489954.4BD7@global2000.net>
Rendered body type: text/plain

```
KD4EMI@aol.com wrote:
>
> Im in a bit of a pinch and am selling some stuff, if anyone needs this, let
> me know.
>
> Garmin 45 perfect condtion  $175 Firm
> Kenwood TR 7950 (50 watt mobile)  $175
> Kenwood Tr 7900 (30 watt mobile)  $150
> Kam with version 5.0 $175
>
> 486sx33 w/ 4M ram and 500 meg HD runs fine, windows etc.
> With monitor (monitor is a bit old)
> $300 Firm
> Please call Mike at 954-974-4153

Mike

What comes with the Garmin 45 besides the unit itself?

John
```

---

791. Test

From: "Stephen Dubois" <steved@vianet.on.ca>
Date: Tue, 24 Sep 1996 23:12:18 -0400
To: <aprssig@tapr.org>
Message-ID: <199609250308.XAA12968@vianet.on.ca>
Rendered body type: text/plain

```
Hi All,
Jst testing MS mailer. Thanks all..Sri for bandwidth..73...........



Steve Dubois
CANWARN SPOTTER VA3HOI
(S)huttle(A)mateur(R)adio(EX)periment STATION
APRS,WinAPRS,APRTRAK
E-mail:steved@vianet.on.ca
```

---

792. Re: [APRSSIG:4989] HF APRS Transceiver for $199

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 24 Sep 1996 22:30:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609250330.WAA00169@tapr.org>
Rendered body type: text/plain

```
>
>I am still convinced that a 50 watt black box stick-it-under-the-seat HF
>Xtal controlled 10.151 packet transceiver can be built for well under
>$199.  Ten tec seemed interested but still say there is no market.
>
If I could find a HF radio for $199 I'd sure consider it for APRS. Maybe
they don't think there's a market for it because no one is asking. Or not
enough people are asking.
   I just bought my first HF radio used. I'd like to consider a HF APRS
system. It was a tough decision just to put the money into a VHF station for
the hobby. But I cant justify tying up a thousand $$ radio for APRS. If
there was a $199 HF radio, I'd definitely look into it.

   May a bunch of us could do a mass email or call-in to ten-tec or a
company doing the kit type radios. Just how many request do they need?

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

793. Re: [APRSSIG:4964] help on tapr cd rom

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 24 Sep 1996 22:44:32 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609250344.WAA00504@tapr.org>

Rendered body type: text/plain

```
>
>hi to all.
>
>i am interested on test de winaprs software, and have buy the tapr 1996 cd rom
>to find it, but it say that beta time has exipired...
>
>any sugestion __?? tnx
>
>de hk3gal (Gerardo Arias L.)
>
>
set your web browser to   ftp://aprs.rutgers.edu/pub/hamradio/aprs/

That should get you to the latest windows version.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

794. Re: [APRSSIG:5066] Re: SALE STUFF

From: BordingK@aol.com
Date: Tue, 24 Sep 1996 23:47:21 -0400
To: aprssig@tapr.org
Message-ID: <960924234721_292673899@emout16.mail.aol.com>
Rendered body type: text/plain

```
I spoke to Mike today and he said he terminated his AOL account as of today.
 I purchased the Garmin 45, but most of the other stuff is still available.
 You'll have to call him for more info.

de KF4COH
Ken in Jax
```

---

795. Re: [APRSSIG:4994] NEC/Ultralite 286F LapTop Gamble

From: rsellers@firecraker.com (Roger Sellers)
Date: Tue, 24 Sep 1996 22:49:02 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609250349.WAA00688@tapr.org>
Rendered body type: text/plain

```
...... snip...
>I have no PC nor info on the 4 pin power connector.  Anyone out there have
>info on this NEC/Ultralite 286F black laptop?  It will replace my old big
>Zenith in the car...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
check NEC's home page for a tech support number. I went through a similar
trek when I bought a used ACER 486 for $75. It cost me another $75 for a new
keybaord and I bought a used HD for it at a hamfest. So I got a 486sx33 for
under $200. Go for the tech support....

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

796. HF STATIONS HEARD IN NE OHIO.

From: kb8ast@kb8ast.#neoh.oh.usa.noam
Date: 24 Sep 96 13:12:00 UTC
To: aprs@usa
Message-ID: <6612_KB8AST@kd4idr.bbs>
Rendered body type: text/plain

```
R:960925/0354z @:KD4IDR.#ENG.FL.USA.NOAM Englewood, FL Z:34224 $:6612_KB8AST
R:960925/0358Z @:WB0TAX.#SHRV.LA.USA.NOAM #:49580 $:6612_KB8AST
R:960925/0350Z @:WB7AWL.#SWOR.OR.USA.NOAM #:5387  $:6612_KB8AST
R:960925/0344Z @:KA6EYH.#NOCAL.CA.USA.NOAM #:5720 [Pacifica] $:6612_KB8AST
```

```
R:960925/0339z @:WB8BII.#NEOH.OH.USA.NOAM #:43641 $:6612_KB8AST
R:960924/2329 @:WA8BXN.#NEOH.OH.USA.NA #:56003 $:6612_KB8AST
R:960924/1312z @:KB8AST.#NEOH.OH.USA.NOAM #:6612
```

KT4DD, KUOG-1, KF0ZH, WB9OML, W4HBK, N2CZF, HH2B, WD5CWZ, VA6RTX,
WD4HZO, W5RPQ, N0AN, WB5RYR, NU5Q, W7LUS-14/mob, W7LUS, K4OLZ, KP4DDB

I have a question, are the hf digi's vertically or horizonally polarized.
I would suspect vertical because that would permit the best 360 degree
pattern. 73, de KB8AST

797. Re: [APRSSIG:5061] Re: APRS Message HOT keys

From: ku0g@sprynet.com
Date: Tue, 24 Sep 1996 22:00:10 -0700
To: aprssig@tapr.org
Message-ID: <199609250500.WAA26893@m1.sprynet.com>
Rendered body type: text/plain

I really meant the out-going buffer. Dyslexic being was I, me excuse Please

I still think that it should be a matter of configuration, though. What about instances of high traffic? The user is probably going to need that out-going message buffer area.

Here's an idea: The F6FBB software reads from a text file that contains the TEN user-programmable messages that are called up by hitting F1 through F10. Obviously some of the F Keys are already in use but isn't there some other keyboard one-stroke thing that we could come up with? I'm speaking from a SKYWARN/NWS viewpoint, as usual because it's my particular area of interest, of course.

Time is critical in emergency situations. Having a little cue card with the F-strings printed would be easy. All of these message could be routed to ALERT or WX or anything similar to the current BLN messages. Only concern I would have is that these messages should ONLY go out once or twice (to allow for collisions) and NOT follow the time-decay methods of normal bulletins/messages/etc...

I'd like to see the system be so user friendly that an untrained operator at NWS could sit down at the APRS terminal and only have to deal with a few keystrokes to rapidly disseminate information to the network (and vice versa!).

One of the biggest complaints that I hear over and over from new users (especially the NON-technical minded/non-computer illiterate/plug-n-play types) is that there is SO much to learn to fully utilize the potential of the APRS software that it's quite overwhelming.

I'm still, slowly but surely, working on a users guide to DOS APRS that combines all of the readme files, eliminates duplication and presents the software in an easy-to-follow manual with the new user in mind. More on this after Marching Band season ends in mid-November, Bob....Was hoping that I could get to PIA and sit down with you on this...We'll talk....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

798. aprs Pk-232MBX and GPS45XL

From: "DENNIS JAMES" <denniswj@aljan.com.au>
Date: Wed, 25 Sep 1996 17:58:26 +1000
To: "Aprs Group" <aprssig@tapr.org>
Message-ID: <199609250859.SAA06182@orion.aljan.com.au>
Rendered body type: text/plain

Hello I wonder if someone can tell me how to set up the pk-232mbx using the
GPS45XL
I have been reading the mail for sometime and am keen to give it a go.
Dennis
Scone Australia
The Horse Capital of Australia
VK2DOR KO-23 UO-22 KO-25
GRID QF57KX
denniswj@aljan.com.au

799. Re: [APRSSIG:5039] Re: UNPROTO and crippled unregistered software.

From: Rich Weinkauf x7179 <weinkar@aa.wl.com>
Date: Wed, 25 Sep 1996 08:58:34 -0400 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <7134580825091996/A04964/PDAV01/11A9CA3A1D00*@MHS>
Rendered body type: text/plain

```
>On Mon, 23 Sep 1996, Hasan Schiers and William Nolle were discussing:
>>
>>The i have another idea (This may even help Bob!. Place a limit on
>>unproto path's in the unregistered version since all new users run
>>that version!.

>BAD IDEA!  I want to give you only two of *MANY* reasons I can see:
>
<snip>
>Come on guys!  I look on each new (or otherwise...) APRS user that's
>"doing it wrong" as a real opportunity to mentor and fraternize with a
>fellow ham.  It's a chance to pass on other operating "tips, tricks,
>and traps" that they may not be aware of.
>
>Bill Young

I've been using APRS on and off for two years now, and finally got serious
about it and registered my version, bought a Magellan GPS and mounted it in my
Pathfinder, and have been enjoying the application. And I agree with Bill, let
the new folks come online and learn for themselves.  One look at the Digi
screen and they'll learn how to set UNPROTO.  And they also get a chance to
experiment- when I first set APRS up, I put in an UNPROTO of RELAY,
WIDE,WIDE,WIDE,WIDE just to see what happened.  I pinged and heard this
horrible mess all over 145.790.  I changed my UNPROTO back to WIDE,WIDE
immediately, but the point is I got to experiment and hear it for myself.

If I had left it like that and cobbled up the frequency for very long, I'm sure
a local APRS user would send me a message with a suggestion to change UNPROTO
to something more reasonable.

Rich Weinkauf, N8QLT
```

---

800. Re: WX Station goes grey on 7.7b

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Sep 1996 09:45:00 -0400 (EDT)
To: Larry Miller <lmiller@ezl.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960925093927.4668E-100000@arctic>
Rendered body type: text/plain

```
On Tue, 24 Sep 1996, Larry Miller wrote:

>   Loaded up 7.7b over the weekend.  Now my wx station goes grey.  Don't
> know when (how long) after I start it it greys out, but its happening.

APRSdos REPLY/COMMENT:  Argh!  That was supposed to have been fixed in
77a and b. (b which shows itself as 77a in the Help screen and logo).
Anyone else confirm that it is NOT fixed yet?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

801. Re: [APRSSIG:4808] Help w/ commercial UHF radio

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 25 Sep 1996 06:56:33 -0700
To: aprssig@tapr.org
Message-ID: <199609251356.GAA02752@m1.sprynet.com>
Rendered body type: text/plain

```
Ken:

One of our APRS boys here works for Midland!  I have forwarded your message
on reprogramming the UHF radios to him.. You should hear something from him,
I would hope.  If it's the radio I'm thinking of, though, I have two.  They
are EXTREMELY unstable in a mobile environment but are generally reliable in
a fixed station with good temperature control...

73 de Jim, KU0G
```

---

802. Re: [APRSSIG:5060] Re: HF APRS Transceiver for $199

From: blaine@unicomp.net
Date: Wed, 25 Sep 1996 09:01:04 -0500 (CDT)
To: aprssig@tapr.org

Message-ID: <199609251401.JAA14583@ns1.unicomp.net>
Rendered body type: text/plain

```
This message does not belong to me.  Please take precautions so that I don't
receive anymore.

Thanks
BB

At 01:30 PM 9/24/96 -0500, you wrote:
>Why do you folks keep refering to the KPC3 in this thread?
>
>Have I missed a command in the manual? Is there a way to tell the KPC3 to
>change from 1200 baud to 300 baud, for the net speed?
>
>Shouldn't you be talking in reference to the MFJ 1270? At least it
>operates at the right speed for HF nets, and the price is about the
>same.
>
>regards,
>Joe
>
>
>
```

803. Re: [APRSSIG:4948] Re: Secondary Freq Ref for 30m

From: James Kerns <jkerns@usit.net>
Date: Wed, 25 Sep 1996 10:03:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609251403.KAA02798@smtest.usit.net>
Rendered body type: text/plain

```
Snip ::   Bob I connected to WWW below and get the USNA but can't any APRS
or you on the page, whjats it under??

Jim in Tn.
>freq czar, hi hi    For those of you that dont know it, W3ADO is the
>callsign of the Naval Academy Amateur Radio club.  Its HF APRS system is
>in my office, hi hi...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
>
```

804. UHF Freq.

From: kr4ol@juno.com
Date: Wed, 25 Sep 1996 10:05:56 PST
To: aprssig@tapr.org
Message-ID: <19960925.100604.16455.0.KR4OL@juno.com>
Rendered body type: text/plain

```
Is there an active UHF freq. for APRS in the Southeast? If so, what
is it and who is active there?
        Thank you very much for your help! de Tom, KR4OL
```

805. Re: [APRSSIG:5073] Re: APRS Message HOT keys

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 25 Sep 1996 09:09:37 -0500
To: <aprssig@tapr.org>
Message-ID: <199609251410.JAA00128@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
---------
> From: ku0g@sprynet.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:5073] Re: APRS Message HOT keys
> Date: Wednesday, September 25, 1996 12:04 AM
>

snip

> Here's an idea:  The F6FBB software reads from a text file that contains
the TEN
> user-programmable messages that are called up by hitting F1 through F10.

> Obviously some of the F Keys are already in use but isn't there some
other
```

```
> keyboard one-stroke thing that we could come up with?  I'm speaking from
a
> SKYWARN/NWS viewpoint, as usual because it's my particular area of
interest, of
> course.
>

How about using ALT-F# keystrokes? Anything that makes single stroke
messaging while mobile easier. It doesn't have to be SKYWARN, although
that is what I would use it mostly for, but could also be "nth runner
passing 3rd and Washington now", or even "Navy runner just dropped the
ball!". hihi

> Time is critical in emergency situations.  Having a little cue card with
the
> F-strings printed would be easy.  All of these message could be routed
to ALERT
> or WX or anything similar to the current BLN messages.  Only concern I
would
> have is that these messages should ONLY go out once or twice (to allow
for
> collisions) and NOT follow the time-decay methods of normal
> bulletins/messages/etc...
>

Time IS critical when looking at the funnel! (Do I run like hell or stay
my ground, oh, let me hit this key first then run like hell!) I suggest
that the "routed to" be also user programmable. This would add flexibility
to "local special nets" that are still filterable at the staionary
terminal. Just a little flexibility is needed.

> I'd like to see the system be so user friendly that an untrained
operator at NWS
> could sit down at the APRS terminal and only have to deal with a few
keystrokes
> to rapidly disseminate information to the network (and vice versa!).
>

How about the addition RCM (Radar Coded Message) display on the map
screen? The data, ASCII text no more than 4K, is a normal weather product
automatically sent by the WSR-88D NEXRAD systems and is sent out by the
NWS. Again a useful tool while mobile and especially when storm spotting.
Something to go Hmmmm about!

> One of the biggest complaints that I hear over and over from new users
> (especially the NON-technical minded/non-computer illiterate/plug-n-play
types)
> is that there is SO much to learn to fully utilize the potential of the
APRS
> software that it's quite overwhelming.
>
> I'm still, slowly but surely, working on a users guide to DOS APRS that
combines
> all of the readme files, eliminates duplication and presents the
software in an
> easy-to-follow manual with the new user in mind.  More on this after
Marching
> Band season ends in mid-November, Bob....Was hoping that I could get to
PIA and
> sit down with you on this...We'll talk....
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *
```

---

806. Re: [APRSSIG:5073] Re: APRS Message HOT keys

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Sep 1996 10:16:50 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960925101146.4668J-100000@arctic>
Rendered body type: text/plain

On Wed, 25 Sep 1996 ku0g@sprynet.com wrote:

> I still think that pre-canned message should be.... stored in the CONFIG
> file though and why use up the outgoing message buffer for those
> messages?

APRSdos REPLY/COMMENT: I agree, it would be nice to have more than 10 lines, but there is no more rooom in APRS. What should I leave out?

You will want separate pre-canned messages for different aplications, it is far easier to load them from various NAMED backup files than constantly quitting and re-starting APRS so you can load a separate CONFIG file, believe me.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

807. Re: 7.7b REDRAW bug...???

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Sep 1996 10:19:52 -0400 (EDT)
To: ku0g@sprynet.com
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960925101757.4668K-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Sep 1996 ku0g@sprynet.com wrote:

> I enabled REDRAW in my previous version. When I upgraded to 7.7b the redraw
> went berserk and kept redrawing as soon as it finished the map and got
> stations printed. Is this a bug or have I screwed something up?

APRSdos REPLY/COMMENT: You may have to restart from scratch depending on what you upgraded from. Ill check the REDRAW and make sure it aint broke... ANyone else?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

808. Re: [APRSSIG:5066] Re: SALE STUFF

From: kb6lfm@ix.netcom.com
Date: Wed, 25 Sep 1996 07:26:48 -0700
To: aprssig@tapr.org
Message-ID: <32494128.5129@ix.netcom.com>
Rendered body type: text/plain

John M Domblewski wrote:
>
> KD4EMI@aol.com wrote:
> >
> > Im in a bit of a pinch and am selling some stuff, if anyone needs this, let
> > me know.
> >
> > Garmin 45 perfect condtion $175 Firm
> > Kenwood TR 7950 (50 watt mobile) $175
> > Kenwood Tr 7900 (30 watt mobile) $150
> > Kam with version 5.0 $175
> >
> > 486sx33 w/ 4M ram and 500 meg HD runs fine, windows etc.
> > With monitor (monitor is a bit old)
> > $300 Firm
> > Please call Mike at 954-974-4153
>
> Mike
>
> What comes with the Garmin 45 besides the unit itself?
>
> John

John..?, I'll take the 7950 if it's still available!

809. Re: [APRSSIG:4916] Re: Poor Bob

From: ku0g@sprynet.com (Jim Duncan)
Date: Wed, 25 Sep 1996 07:31:51 -0700
To: aprssig@tapr.org
Message-ID: <199609251431.HAA11450@m1.sprynet.com>
Rendered body type: text/plain

>
>Some guys are just jealous that they are just a measly county.
>Sam K3BY (almost the only station in Delaware).
>
>
>On Thu, 19 Sep 1996, rwf wrote:
>
>> At 06:15 PM 9/19/96 -0500, Someone from New York City wrote:
>>
>> >   Okay. Here in New York City I normally see stations from:
>> >New Hampshire, Massachusetts, Rhode Island, Connecticuit, New
>> >York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia
>> >not to mention Washington DC. I raise you two states and a
>> >District (hi-hi). 73
>>
>>
>> Here in Grorgia, we have Counties bigger than some of those states.
>> And... I left Kentucky and Mississippi off my original list.
>> hehe
>>
>

Sounds like a bunch of elementary school kids hollering "my dad's bigger
than your dad!" If I added the stations in Nebraska, South Dakota and
Oklahoma that we see once in a long while then we've got more again.

I'll see your 2 states and a district and raise ya 3 states!

<snicker>

73 de Jim, KU0G

---

810. Re: Your APRS Web Page

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Sep 1996 10:59:51 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960925105807.4668N-100000@arctic>
Rendered body type: text/plain

On Wed, 25 Sep 1996, Robert Kirk wrote:

> Bob... Check your web page. The JAVA data hasn't been reset for a week.

APRSdos REPLY/COMMENT: Sorry folks, the local WIDE is still down, so the
WEB page sees nothing. Just called Public-Works again about when do we
get AC power back at the site... ARGH!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

811. Re: [APRSSIG:5079] Re: Secondary Freq Ref for 30m

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Sep 1996 11:02:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960925110159.4668O-100000@arctic>
Rendered body type: text/plain

On Wed, 25 Sep 1996, James Kerns wrote:

> Snip ::   Bob I connected to WWW below and get the USNA but can't any APRS
> or you on the page, whjats it under??
>
> >See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

APRSdos REPLY/COMMENT: THat page listed above and below should do it.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

812. Re: [APRSSIG:5083] Re: 7.7b REDRAW bug...???

From: byoung@qni.com
Date: Wed, 25 Sep 1996 10:02:29 -0500
To: aprssig@tapr.org
Message-ID: <9609251502.AA11945@qni.com>
Rendered body type: text/plain

Bob and the group,

I also had this problem *UNTIL* I created new config files. I was
using 7.6f, and experienced the "constant redraw syndrome" after I
performed an upgrade (on both my "-9 laptop" and my QTH computer) to
7.7b. I had seen something on the SIG from someone who said that
creating new config files had resolved a similar problem, so I tried
that route. The problem cleared up right away.

Bill Young
byoung@qni.com
KB0UZQ

On Wed, 25 Sep 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>On Tue, 24 Sep 1996 ku0g@sprynet.com wrote:
>
>> I enabled REDRAW in my previous version. When I upgraded to 7.7b
the redraw
>> went berserk and kept redrawing as soon as it finished the map and
got
>> stations printed. Is this a bug or have I screwed something up?
>
>APRSdos REPLY/COMMENT: You may have to restart from scratch
depending on
>what you upgraded from. Ill check the REDRAW and make sure it aint
>broke... ANyone else?
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>

813. Re: 7.7b REDRAW bug...???

From: kb5edb@juno.com (David E Eaton)
Date: Wed, 25 Sep 1996 11:26:20 EDT
To: aprssig@tapr.org
Message-ID: <19960925.102442.8135.2.kb5edb@juno.com>
Rendered body type: text/plain

Have had the same problem just thought it was me, also. Thanks again Bob
for all the hard work.

814. Re: [APRSSIG:5070] Re: SALE STUFF

From: blaine@unicomp.net
Date: Wed, 25 Sep 1996 10:55:25 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609251555.KAA21487@ns1.unicomp.net>
Rendered body type: text/plain

please stop sending me this stuff.

I do not belong to this mailing forum or whatever
bb

At 11:04 PM 9/24/96 -0500, you wrote:
>I spoke to Mike today and he said he terminated his AOL account as of today.
> I purchased the Garmin 45, but most of the other stuff is still available.
> You'll have to call him for more info.
>
>de KF4COH
>Ken in Jax
>
>
>

815. Re: [APRSSIG:5083] Re: 7.7b REDRAW bug...???

From: "Sam Nabkey, WJ8T/P" <snabkey@wingsbbs.com>
Date: Wed, 25 Sep 1996 12:15:38 -0400
To: aprssig@tapr.org
Message-ID: <199609251625.LAA25431@tapr.org>
Rendered body type: text/plain

On 25 Sep 96 at 9:23, Bob Bruninga wrote:

> On Tue, 24 Sep 1996 ku0g@sprynet.com wrote:
>
> > I enabled REDRAW in my previous version. When I upgraded to 7.7b
> > the redraw went berserk and kept redrawing as soon as it finished
> > the map and got stations printed. Is this a bug or have I screwed
> > something up?
>

```
> APRSdos REPLY/COMMENT:  You may have to restart from scratch
> depending on what you upgraded from.  Ill check the REDRAW and make
> sure it aint broke...  ANyone else?
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>

Just turn the Redraw Value off and resave the Config file and all is
well again!
```

---

816. Re: [APRSSIG:5075] Re: UNPROTO and crippled unregistered software.

From: William Nolle <wa8inz@cris.com>
Date: Wed, 25 Sep 1996 11:39:15 -0700
To: aprssig@tapr.org
Message-ID: <32497C53.10AE@cris.com>
Rendered body type: text/plain

```
Rich Weinkauf x7179 wrote:
>
>
> I've been using APRS on and off for two years now, and finally got serious
> about it and registered my version, bought a Magellan GPS and mounted it in my
> Pathfinder, and have been enjoying the application. And I agree with Bill, let
> the new folks come online and learn for themselves.  One look at the Digi
> screen and they'll learn how to set UNPROTO.  And they also get a chance to
> experiment- when I first set APRS up, I put in an UNPROTO of RELAY,
> WIDE,WIDE,WIDE,WIDE just to see what happened.  I pinged and heard this
> horrible mess all over 145.790.  I changed my UNPROTO back to WIDE,WIDE
> immediately, but the point is I got to experiment and hear it for myself.
>
> If I had left it like that and cobbled up the frequency for very long, I'm sure
> a local APRS user would send me a message with a suggestion to change UNPROTO
> to something more reasonable.
>
> Rich Weinkauf, N8QLT

This is exactly what i'm talking about. Here a user admits using APRS for two years
without registering, don't try to tell me it took that long for that user to make up
his mind on if he wanted to use APRS or not. Also look at the path he used just to
do some testing (Sure) at other users expense. This would have been prevented if
there was no way for this user to have that type of path.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

817. NEWBIE

From: "Kevin Watkins" <kb5sej@insolwwb.net>
Date: Wed, 25 Sep 1996 11:42:23 -0500
To: <aprssig@tapr.org>
Message-ID: <199609251635.LAA10268@ns.insolwwb.net>
Rendered body type: text/plain

```
Lookout... here comes a newbie. Is WinAPRS discussed in this forum? It
appears that DOSAPRS is supported quite well here. How well does DOSAPRS
work under win95? I have been toying with APRS here locally for a few days.
We are heavy into NWS/Skywarn and looking to expand our horizons a little.
We have one WX station getting ready to go online at the local EOC now.
Best wishes to all.

/* Kevin Watkins
    kb5sej@insolwwb.net
    http://www.insolwwwb.net/~respond   */
```

---

818. Trimble Antenna and Garvin 20 GPS

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Wed, 25 Sep 1996 13:03:01
To: aprssig@tapr.org
Message-ID: <199609251802.OAA11072@mail-e2b-service.gnn.com>
Rendered body type: text/plain

```
I just got a Trimble antenna from Paccomm and it has a female
connector on it - same as is on GPS 20.  Any idea where I can get a
male-male adapter?

John - N5XAK
```

819. Re: [APRSSIG:5080] UHF Freq.

From: rwf <rwf@mindspring.com>
Date: Wed, 25 Sep 1996 13:48:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960925174816.006a42cc@atl.mindspring.com>
Rendered body type: text/plain

```
At 09:20 AM 9/25/96 -0500, KR4OL wrote:
   Is there an active UHF freq. for APRS in the Southeast?


Not that I know of, yet.

We here in the GA area are in the process of selecting one and working with
the packet coordinator.  The one Bob has suggested before is not in the
bandplan for packet in SERA territory.

Ralph
```

820. Huntsville Fox Hunters Read This

From: rwf <rwf@mindspring.com>
Date: Wed, 25 Sep 1996 13:48:21 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960925174821.00691860@atl.mindspring.com>
Rendered body type: text/plain

```
Sorry for the bandwidth, but I have lost the email address of KE4GNN, who
came to GA to pick up the balloon. Please email me so I can get your address
again

Tahnks

Ralph
rwf@mindspring.com
```

821. Re: [APRSSIG:5094] Trimble Antenna and Garvin 20 GPS

From: Joe Scalet <jscalet@dound.net>
Date: Wed, 25 Sep 1996 15:39:50 -0700
To: aprssig@tapr.org
Message-ID: <3249B4B6.590E@dound.net>
Rendered body type: text/plain

```
John L. Gafford wrote:
>
> I just got a Trimble antenna from Paccomm and it has a female
> connector on it - same as is on GPS 20.  Any idea where I can get a
> male-male adapter?
>
> John - N5XAK  Don't bother,been there done that, it wasn't worth it. The SMX
connector needs a special crimpng tool, Its not available in solder
mount. The local electronics supply house had the tool and let me use it.
The problem is that it is a fragile connector and I don't believe the
GPS-20 will survive too many insertions. Just get a chassis mount BNC for
the box the GPS-20 is in and mount it that way. Then put a BNC on your
antenna cable. If you get good BNC's the losses will be negligible and
you can try different antenna's.
        BTW I really like the PACCOM/Trimble antenna.
```

822. Re: [APRSSIG:5076] Re: WX Station goes grey on 7.7b

From: rkramer@vaxxine.com (Ronald Kramer)
Date: Wed, 25 Sep 1996 21:47:39 GMT
To: aprssig@tapr.org
Message-ID: <3249a84b.70267456@vaxxine.com>
Rendered body type: text/plain

```
On Wed, 25 Sep 1996 08:40:24 -0500 (CDT), you wrote:

>On Tue, 24 Sep 1996, Larry Miller wrote:
>
>>   Loaded up 7.7b over the weekend.  Now my wx station goes grey.  Don't
>> know when (how long) after I start it it greys out, but its happening.
>
```

>APRSdos REPLY/COMMENT: Argh! That was supposed to have been fixed in
>77a and b. (b which shows itself as 77a in the Help screen and logo).
>Anyone else confirm that it is NOT fixed yet?
>
Bob .. it's ok on my ver of 7.7b mine no longer fades out.....
73

```
Regards, Ron ...                           73 de Ron
         Internet: rkramer@vaxxine.com (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

823. Re: [APRSSIG:5096] Huntsville Fox Hunters Read This

From: William Nolle <wa8inz@cris.com>
Date: Wed, 25 Sep 1996 16:27:13 -0700
To: aprssig@tapr.org
Message-ID: <3249BFD1.7032@cris.com>
Rendered body type: text/plain

rwf wrote:
>
> Sorry for the bandwidth, but I have lost the email address of KE4GNN, who
> came to GA to pick up the balloon. Please email me so I can get your address
> again
>
> Tahnks
>
> Ralph
> rwf@mindspring.com

Ralph his address is as follows.
rbarnett@traveller.com

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

824. Re: [APRSSIG:5092] Re: UNPROTO and crippled unregistered software.

From: byoung@qni.com
Date: Wed, 25 Sep 1996 17:34:35 -0500
To: aprssig@tapr.org
Message-ID: <9609252234.AA17379@qni.com>
Rendered body type: text/plain

On Wed, 25 Sep 1996, William Nolle <wa8inz@cris.com> wrote:

>This is exactly what i'm talking about. Here a user admits using APRS
>for two years without registering, don't try to tell me it took that
>long for that user to make up his mind on if he wanted to use APRS or
>not. Also look at the path he used just to do some testing (Sure) at
>other users expense. This would have been prevented if there was no
>way for this user to have that type of path.

Bill and the group,

You miss the point! It *DID* take him that long to make up his mind about using APRS, and when he (finally...) did decide, he registered just as Bob intended.

Also, take note of the fact that the user tried some "strange stuff", but caught his own error and learned a few things that he can now pass on *from his own experience* to new users he helps.

Because Bob has written us such a powerful piece of software, we have a huge matrix of possible configurations, some of which are "poison". Some of those poison configs are known to us, some are not.   Let's document and share the ones we know about, let's all (registered and un-registered users alike...) find the ones we don't know about, but let's not ask Bob to invest his time in "hamstringing" this valuable tool. We should "self-police" the ranks of APRS just as we do all other aspects of amateur radio, with courtesy and the deft hand of a mentor if at all possible.

Bill Young
byoung@qni.com
KB0UZQ

---

825. Re: [APRSSIG:5042] Re: HF APRS Transceiver for $199

From: SARDUCK@aol.com
Date: Wed, 25 Sep 1996 18:36:38 -0400
To: aprssig@tapr.org
Message-ID: <960925183637_110795847@emout01.mail.aol.com>
Rendered body type: text/plain

Glenn -

Good thought! &

Good deal!! ...only i guess you have to be where marine equipment is not scarce - that leaves out even us on the hard water coast.

really, I'd love one (marine xcver) & watch the boats & marine sigs - got close twice, missed ones in the $150.00 range by minutes. one fellow said he got 125 replies!
so please find some and advise!

Most stuff ive bought for a song has needed the chior to help get it working right -

73
Dan Ka./Chicago!

In a message dated 96-09-23 21:57:24 EDT, you write:

>Why not use a surplus marine transceiver??
>These are cheap at hamfests, especially the xtal controlled units.
>They cover the freq range needed.
>They usually run about 100W.
>The last one I bought cost $10.00.
>
>This seems cheap enough. If you cannot fix it if is broke then a
>reevaluation of the amateur radio qualifications might be in order.
>
>

qualifications, heck, i left all the test gear in the tech school - so id have to put off even the $10.00 xtlcvr till latter then
..........only if the test bench investment has been paid off the credit cards!hihi

---

826. Re: [APRSSIG:5097] Re: Trimble Antenna and Garvin 20 GPS

From: Joe Agrelo <jagrelo@concentric.net>
Date: Wed, 25 Sep 1996 18:49:29 -0700
To: aprssig@tapr.org
Message-ID: <3249E129.4180@concentric.net>
Rendered body type: text/plain

Joe Scalet wrote:
>
> John L. Gafford wrote:
> >
> > I just got a Trimble antenna from Paccomm and it has a female
> > connector on it - same as is on GPS 20. Any idea where I can get a
> > male-male adapter?
> >
> > John - N5XAK Don't bother,been there done that, it wasn't worth it. The SMX
> connector needs a special crimpng tool, Its not available in solder
> mount. The local electronics supply house had the tool and let me use it.
> The problem is that it is a fragile connector and I don't believe the
> GPS-20 will survive too many insertions. Just get a chassis mount BNC for
> the box the GPS-20 is in and mount it that way. Then put a BNC on your
> antenna cable. If you get good BNC's the losses will be negligible and
> you can try different antenna's.
>   BTW I really like the PACCOM/Trimble antenna.

Hi,

When I bought my GPS-20 it came with a long line of coax and the correct connector for the GPS-20, then I bought the Trimble antenna from
PacComm,
I then took the Trible antenna apart and removed the coax with the wrong connector, I then replaced it with the coax and connector supplied with
the

```
GPS-20. It works great!

This was my solution, I didn't have to buy or borrow anything extra.
The only draw back was that the coax supplied with the GPS-20 was no
where near as long as the coax supplied with the antenna. Oh well!
can't have everything I guess.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

827. Re: [APRSSIG:5082] Re: APRS Message HOT keys

From: Daniel Velez <dvelez@infi.net>
Date: Wed, 25 Sep 1996 19:38:46 -0400
To: aprssig@tapr.org
Message-ID: <3249C286.5FA8@infi.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
> APRSdos REPLY/COMMENT:  I agree, it would be nice to have more than 10
> lines, but there is no more rooom in APRS.  What should I leave out?

Bob, how much memory would be saved if all the LORAN routines were
removed?
Or, how about the DX cluster routines?  I don't know anyone who uses
either..perhaps someone using these features could give us an idea...
--
Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

828. Re: [APRSSIG:5081] Re: APRS Message HOT keys

From: "Gerald H. Nies" <gnies@rwic.und.edu>
Date: Wed, 25 Sep 1996 18:56:37 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SGI.3.94.960925184917.15463B-100000@oz.rwic.und.edu>
Rendered body type: text/plain

```
On Wed, 25 Sep 1996, J. Scott Ratchford, KC5JGV wrote:

> snip
>
> How about the addition RCM (Radar Coded Message) display on the map
> screen? The data, ASCII text no more than 4K, is a normal weather product
> automatically sent by the WSR-88D NEXRAD systems and is sent out by the
> NWS. Again a useful tool while mobile and especially when storm spotting.
> Something to go Hmmmm about!
>
>
I would also be interested in seeing if the RCM data could be
incorporated. We have the potenetial for a Skywarn/APRS network being
established in our area if it can be. Our National Weather Service office
is really interested!

Just another challenge for Bob and the Brothers Sproul.

Thanks  for a great Product guys.
```

---

829. Re: [APRSSIG:5093] NEWBIE

From: "Steve Hall" <kk4pm@ix.netcom.com>
Date: Wed, 25 Sep 1996 20:12:14 -0400
To: <aprssig@tapr.org>, <,kb5sej@insolwwb.net>
Message-ID: <199609260012.RAA00463@dfw-ix7.ix.netcom.com>
Rendered body type: text/plain

```
----------
> From: Kevin Watkins <kb5sej@insolwwb.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5093] NEWBIE
> Date: Wednesday, September 25, 1996 12:56 PM
>
> Lookout... here comes a newbie. Is WinAPRS discussed in this forum? It
> appears that DOSAPRS is supported quite well here. How well does DOSAPRS
> work under win95? I have been toying with APRS here locally for a few
days.
> We are heavy into NWS/Skywarn and looking to expand our horizons a
little.
> We have one WX station getting ready to go online at the local EOC now.
> Best wishes to all.
>
> /* Kevin Watkins
>     kb5sej@insolwwb.net
>     http://www.insolwwwb.net/~respond   */
>

There was another TAPR SIG "winaprs" devoted to the windows version but it
doesn't get much traffic.

73, de Steve - KK4PM
```

830. Re: [APRSSIG:5068] Re: HF APRS Transceiver for $199

From: Glenn Little <glittle@awod.com>
Date: Wed, 25 Sep 1996 20:35:58 -0400
To: aprssig@tapr.org
Message-ID: <199609260026.UAA24345@sumter.awod.com>
Rendered body type: text/plain

```
At 10:44 PM 9/24/96 -0500, you wrote:

snip

>If I could find a HF radio for $199 I'd sure consider it for APRS. Maybe
>they don't think there's a market for it because no one is asking. Or not
>enough people are asking.

snip

>
>73,
>
>Roger Sellers
>Amateur Radio: KB9LBU
>E-Mail Home: rsellers@rockford.com
>             kb9lbu@juno.com
>E-Mail Work: rsellers@snds.com
>
>
>
>
>

What is wrong with a surplus 2-30 Mhz marine crystal controlled radio??

They cost about $10.00 at the hamfests.
They require a pair of crystals, another approx $15-25 depending on where
you get them.

The cost is now $25-35 for a 100W radio on the frequency that you want it on.

If using HF you are at least a general.  The general theory covers
transceiver theory and operation, therefore repair of a malfunctioning unit
is no problem.

The savings are about $175 over a commercial unit made for the ham bands.
The marine unit will be much more rugged than any commercial ham rig.

73
Glenn Little
WB4UIV
```

831. Re: [APRSSIG:5100] Re: UNPROTO and crippled unregistered software.

From: MBoyce1856@aol.com
Date: Wed, 25 Sep 1996 21:05:18 -0400

To: aprssig@tapr.org
Message-ID: <960925210517_110937770@emout04.mail.aol.com>
Rendered body type: text/plain

Thank God someone came up with an extremely good comment concerning the APRS software package and not making it crippleware! Without experimentation, where would all us be, still using the spark gap?!? Documentation is fine, but what makes sense to one who writes it, doesn't mean that it makes the same sense to one who reads it! Until you've sat at the operators station and listen to the stations he hears (or doesn't hear!), you can't make a valid argument as to why he should not use a wide, wide path. Walk a mile in his shoes before you tell him how to operate his station.

K0COY - Mike Boyce
k0coy@amsat.org

---

832. APRS info

From: Phil Ashler <n4iph@freenet.tlh.fl.us>
Date: Wed, 25 Sep 96 21:11:11 18000
To: aprssig@tapr.org
Message-ID: <199609260111.VAA28840@fn3.freenet.tlh.fl.us>
Rendered body type: text/plain

Bob WB4APR

I was asked by another ham in Tallahassee to contact you for information on the APRS shareware registration. He wishes to register his copy of APRS ($24.00) and would like to know what other information/support he would receive by adding the additional $9.00 registration for the weather and $9.00 for the GPS? Any information would be appreciated.   Thanks Phil N4IPH
--

---

833. Re: [APRSSIG:5106] Re: HF APRS Transceiver for $199

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 25 Sep 1996 18:45:22 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960925184225.89A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

Another nice feature of the old xtal marine radios that were fazed out with the channel realignment is that they usually come with a neat remote tuner.

Bob - wd6dod - vessel "Stormy Petrel"

---

834. Re: [APRSSIG:5087] Re: page and ????please

From: etjm@ECUA.NET.ec (Teodoro Jaramillo)
Date: Wed, 25 Sep 1996 20:09:30 -0500
To: aprssig@tapr.org
Message-ID: <9609260202.AA48542@ecua.net.ec>
Rendered body type: text/plain

Good evening BOb and all....

I also checked into attempting to see APRS LIVE on youpage but .. got all
hanged-up for not having the proper SOFT... JAVA.. SO
THE SIMPLE QUESTION now how where and do I get the proper
soft required... and should make me able to link up and
see your page and I assume many others which require the JAVA
WHICH IS NEW TO ME...(NEWBIE)
any help .. thanks a lot.

TED   HC5K
ECUADOR S.A.

```
>On Wed, 25 Sep 1996, James Kerns wrote:
>
>> Snip ::   Bob I connected to WWW below and get the USNA but can't any APRS
>> or you on the page, whjats it under??
>>
>> >See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>APRSdos REPLY/COMMENT:  THat page listed above and below should do it.
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
```

>

---

835. APRSDOS & LORAN

From: tedant@usa.pipeline.com (Theodore A. Antanaitis)
Date: Thu, 26 Sep 1996 02:08:45 GMT
To: aprssig@tapr.org
Message-ID: <199609260208.CAA18172@pipe5.t2.usa.pipeline.com>
Rendered body type: text/plain

```
I may be a minority of one

 *BUT*

I do use a LORAN set (MicroLogic Mariner) with APRSdos sometimes as a
standalone tracker and other times with an HSP direct feed.

Ted Antanaitis WA7ZZB

[A Registered APRSdos user since ver. 3.05]
```

---

836. Radio Shack Weather Stations

From: BordingK@aol.com
Date: Wed, 25 Sep 1996 23:04:59 -0400
To: aprssig@tapr.org
Message-ID: <960925230457_529877829@emout19.mail.aol.com>
Rendered body type: text/plain

```
Several people in Jacksonville area are considering putting up weather
stations in near future.  An one how accurate the new RS Wx Stns are?  Also
has anyone been able to get the output code so they can be added to both DOS
APRS and WinAPRS.

I'm not too impressed with my Peet Bros U-2000.  It has quite twice before I
can even get around to wiring it up for APRS.

de KF4COH
Ken in Jax, FL
```

---

837. Docs

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Wed, 25 Sep 1996 20:17:32 -0800
To: aprssig@tapr.org
Message-ID: <199609260315.UAA19731@guilder.ucdavis.edu>
Rendered body type: text/plain

```
Hi all,
        Well thanks to some of you I downloaded APRS77b.ZIP onto my
Macintosh and deleted all but the docs and maps. (DOS .exe files are
fatally toxic to Macs) The result, most of the info I need and some nice
maps which Mac APRS can convert to it's own format, cool. I must say, as a
Mac user I would not have been able to guess (as in fact I did not) that
most of the documentation I need is gotten this way!
        Anyway I strongly agree that the Doc files from APRS should
accompany Mac APRS, and Win APRS. Also I think having a file named
APRSDOCS.ZIP (even a legal filename) with just the docs would be very
useful. If I had seen such a file I'd have downloaded it long ago. Now at
least I have the raw information. However, I still think that a distilled
doc intended to help new users of all 3 softwares keep from screwing up
would be in all our interests.
        I agree that education is the key to a good network. Hard limits,
except for perhaps ones on things that are "NEVER" legitimate, (if there
are such things) are the worst solution. So let's hope that we can get an
APRSDOCS.ZIP file posted just everywhere soon and then anyone who asks can
get a simple answer "Download APRSDOCS.ZIP and read the files." Meanwhile
thanks to all who have helped me.

John Lakeland kc6vlr
```

---

838. APRS / PCMCIA Serial I/O Adapter Problem

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 25 Sep 1996 21:26:27 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960926042627.0068cd20@mailhost.primenet.com>
Rendered body type: text/plain

```
>Date: Wed, 25 Sep 1996 18:41:53 -0700
>To: APRSSIG
>From: Mail Delivery Subsystem <MAILER-DAEMON@primenet.com> (by way of "Alan
K. Unangst" <alanwc7r@mailhost.primenet.com>)
>Subject: APRS / PCMCIA Serial I/O Adapter Problem
>
>
>Well here is a new problem. The IBM Thinkpad working under Windows95 will
>not let me move the Mwave modem to any other interrupt other than 03 or 04.
>My Com 1 is on 04 and the Mwave,on Com 2, is on 03. APRS will allow only
>come 1 or 2 intrusts be used. I understand that it is a DOS protocol (from
Bob).
>
>The PCMCIA I/O adapter is assigning 09 to the PCMCIA serial adapter, on Com 3.
>
>The question is, obviously, how do I get it to work. Four + hours on the
>phone with IBM and 1 + hour on the phone with Socket (I/O manufacturer)
>yielded no results.
>
>Jumping thru all the hoops to disable the internal modem leads to major
>restart problems, that took almost 45 minutes to undo and correct.
>
>So I am doing what I should have done in the begriming, turning it over to
>the real experts.....YOU GUYS......"HHHHEEELLLPPP"
>
>In advance, Thanks, I do appreciate it.
>
>73,  Alan
>Alan K. Unangst, WC7R
>Email: alanwc7rprimenet.com
>Packet: WC7R @ KB7FRV
>
>
>
>
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV
```

---

839. Re: Radio Shack Weather Stations

From: "Kevin Watkins" <kb5sej@insolwwb.net>
Date: Wed, 25 Sep 1996 23:36:30 -0500
To: <aprssig@tapr.org>
Message-ID: <199609260427.XAA10497@ns.insolwwb.net>
Rendered body type: text/plain

```
|
| Several people in Jacksonville area are considering putting up weather
| stations in near future.  An one how accurate the new RS Wx Stns are?
Also
| has anyone been able to get the output code so they can be added to both
DOS
| APRS and WinAPRS.
|

Don't know anything about the accuracy but they are made under
AccuWeather's name. I do not see a weather station on AccuWeathers page but
then again I haven't looked at their entire site. They did not respond to
an inquiry about one.  www.tandy.com says that the new WX-200 (i think that
is what it is called) will not be ready until 1QTR 97.... even tho the book
says 10/96.  If you see/hear different please let me know.


/* Kevin Watkins
    kb5sej@insolwwb.net
    http://www.insolwwb.net/~respond   */
```

---

840. Re: [APRSSIG:5113] Docs

From: William Nolle <wa8inz@cris.com>
Date: Wed, 25 Sep 1996 23:47:48 -0700
To: aprssig@tapr.org
Message-ID: <324A2714.6953@cris.com>
Rendered body type: text/plain

```
John Lakeland wrote:
>
> Hi all,
>        Well thanks to some of you I downloaded APRS77b.ZIP onto my
> Macintosh and deleted all but the docs and maps. (DOS .exe files are
> fatally toxic to Macs) The result, most of the info I need and some nice
> maps which Mac APRS can convert to it's own format, cool. I must say, as a
> Mac user I would not have been able to guess (as in fact I did not) that
> most of the documentation I need is gotten this way!
>         Anyway I strongly agree that the Doc files from APRS should
> accompany Mac APRS, and Win APRS. Also I think having a file named
> APRSDOCS.ZIP (even a legal filename) with just the docs would be very
> useful. If I had seen such a file I'd have downloaded it long ago. Now at
> least I have the raw information. However, I still think that a distilled
> doc intended to help new users of all 3 softwares keep from screwing up
> would be in all our interests.
>         I agree that education is the key to a good network. Hard limits,
> except for perhaps ones on things that are "NEVER" legitimate, (if there
> are such things) are the worst solution. So let's hope that we can get an
> APRSDOCS.ZIP file posted just everywhere soon and then anyone who asks can
> get a simple answer "Download APRSDOCS.ZIP and read the files." Meanwhile
> thanks to all who have helped me.
>
> John Lakeland kc6vlr

John these are nobel thoughts and would be great if life was this simple, but
in reallity those users that are determined to use path's like i have talked
about are not about to read anything in the doc directory or they would have
done that in the first place. I know many hams say we have to police ourselfs
and that does sound great if it would only works which it doesn't in many
cases. So the next step is to force the newcomer to abide by the simple rules
set forth in the documentation, and i still stick with the idea that the
users that use unregisters versions shouldn't complain about it having a
limitation placed in it. Only those that have no intentions of ever
registering the software are concerned about this in the first place (And i
see many that run it for years without registering), if you have to be that
cheap then put up with the limitation.
--
                            \////
                            (0 0)
                       *--o0-(_)-0o--*
                       wa8inz@amsat.org
                       wa8inz@cris.com
          Check out my dedicated A.P.R.S Web Page.
With i believe the first animated APRS logo located on my Logo Page.
            A BIG HAND FOR THOSE MENTOR VOLUNTEERS

               http://www.concentric.net/~wa8inz
```

---

841. Re: page and ????please

From: n8chb@juno.com (Roger Breckon)
Date: Thu, 26 Sep 1996 04:04:00 PST
To: aprssig@tapr.org
Message-ID: <19960926.040401.7366.0.n8chb@juno.com>
Rendered body type: text/plain

```
Hello Ted,

I copy your WX station HC5K on the map here in Michigan.
Nice to see you this pm.

73

Roger
```

---

842. APRS Web Page

From: William Nolle <wa8inz@cris.com>
Date: Thu, 26 Sep 1996 01:27:29 -0700
To: aprssig@tapr.org
Message-ID: <324A3E71.488C@cris.com>
Rendered body type: text/plain

```
For those interested i have placed an animated APRS logo on my webpage, I
believe the first one ever made for APRS Hi. Feel free to use it but
please give credit where credit is due (Not like some). By the way it's
of course on my Logo Page that can be reached from the main page now.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

843. Modular APRS?

```
From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 26 Sep 1996 07:22:52 -0500
To: <aprssig@tapr.org>
Message-ID: <199609261300.IAA18194@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain
```

```
> Bob Bruninga wrote:
> > APRSdos REPLY/COMMENT:  I agree, it would be nice to have more than 10
> > lines, but there is no more rooom in APRS.  What should I leave out?
>
> Bob, how much memory would be saved if all the LORAN routines were
> removed?
> Or, how about the DX cluster routines?  I don't know anyone who uses
> either..perhaps someone using these features could give us an idea...
> --
> Dan

Maybe it's time to create a modular APRS system, Bob, in that each user
can load that portion that they are interested in vs. the whole program! I
don't know if that is possible, but if it were, that would lead to more
user specific programs that use less memory while maintaining the
integrety of your basic program. Modular parts could be the GPS, SPACE,
WX, DX ect. I don't have a need for GPS routines at the QTH! Some more to
go Hmmmmm about!

Ideas anyone?

73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *
```

---

844. Re: [APRSSIG:5072] HF STATIONS HEARD IN NE OHIO.

```
From: Roger Breckon <n8chb@tir.com>
Date: Thu, 26 Sep 1996 13:48:29 -0700
To: aprssig@tapr.org
Message-ID: <324AEC1D.301@tir.com>
Rendered body type: text/plain
```

```
kb8ast@kb8ast.#neoh.oh.usa.noam wrote:


 I have a question, are the hf digi's vertically or horizonally
polarized.
 I would suspect vertical because that would permit the best 360 degree
 pattern. 73, de KB8AST

====================================================================

At the moment mine's a horz dipole at 20 feet.
I have found inverting it works best on aprs.


73

Roger  n8chb
```

---

845. Criticism

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Sep 1996 09:58:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960926091902.29540B-100000@arctic>
Rendered body type: text/plain
```

```
On Wed, 25 Sep 1996, someone criticised a new user:

> Also look at the path (RELAY,WIDE,WIDE,WIDE,WIDE) he used just to
> do some testing (Sure) at other users expense.

APRSdos REPLY/COMMENT:  Actually, I think such a limited test is good
proof to anyone how bad that path is.  Some self-appointed experts in
some areas (where everyone's a wide) might learn a lot themselves if they
performed such a test too... then it would be to other users "benefit"

Testing is one of the primary tennets of amateur radio.  Thats how we
learn...
```

```
Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

846. Re: [APRSSIG:5095] Re: UHF Freq.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Sep 1996 10:12:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960926100154.29540E-100000@arctic>
Rendered body type: text/plain

```
On Wed, 25 Sep 1996, rwf answered someone else's question:

>    Is there an active UHF freq. for APRS in the Southeast?
>
> We here in the GA area are in the process of selecting one and working with
> the packet coordinator.  The one Bob has suggested before is not in the
> bandplan for packet in SERA territory.

APRSdos REPLY/COMMENT:  The suggested 445.925 was suggested exactly be
cause it was *not* in the packet bandplan, or more accurately, because it
was in the FM simplex area.  It was not suggested as a backbone frequency,
it was suggested as an APRS calling frequency.  With the APRS MicEncoder,
this is a valid argument....  A place where all mobiles can "talk" or
"ping" their position while they drive so that others will see them.

I suggest getting STANDARD Packet channels where backbones or trunks are
desired, but for an AREA WIDE MOBILE APRS "calling" channel, I suggest
asking for an FM simplex channel...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

847. Re: [APRSSIG:5112] Radio Shack Weather Stations

From: jm1@webspan.net (Jay Millard)
Date: Thu, 26 Sep 1996 10:14:40 +0000
To: aprssig@tapr.org
Message-ID: <v01510100ae70070df50e@[38.26.47.145]>
Rendered body type: text/plain

```
Ken recently wrote:

<snip for bandwith police>

>I'm not too impressed with my Peet Bros U-2000.  It has quite twice before I
>can even get around to wiring it up for APRS.
>
>de KF4COH
>Ken in Jax, FL

I purchased a Peet Bros U-2000 and had the display quit on me for reasons
unknown.  It took one call to Peet (800 number toll free, I LIKE that) and
a new one was on it's way.  It has been working fine for almost a year.
It's a unit, based on my experience that I would recommend to anyone, even
bought one for a friend in the UK (Peet wired it for 220v, no charge).

73 de Jay

Jay Millard
Harmill Communications Inc.
** Amateur Radio Station KD1LY **
Darien, Connecticut  06820
```

---

848. Re: [APRSSIG:5093] NEWBIE

From: Mark Sproul <sproul@ap.org>
Date: Thu, 26 Sep 1996 09:48:35 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae7039b5d5db@[165.1.27.20]>
Rendered body type: text/plain

```
>Lookout... here comes a newbie. Is WinAPRS discussed in this forum? It
>appears that DOSAPRS is supported quite well here. How well does DOSAPRS
>work under win95? I have been toying with APRS here locally for a few days.
>We are heavy into NWS/Skywarn and looking to expand our horizons a little.
>We have one WX station getting ready to go online at the local EOC now.
>Best wishes to all.
>
>/* Kevin Watkins
>    kb5sej@insolwwb.net
>    http://www.insolwwwb.net/~respond   */


Yes WinAPRS is supported and disscussed here, many of the topics are
related to dosAPRS, MacAPRS and WinAPRS all at the same time, of course
many of the questions are specific to a version. The  Mac version and
Windows versions are VERY similar and based on the same code.

You can also direct specfic questions directly to myself and Keith
(ksproul@noc.rutgers.edu) if you like as well.


Mark Sproul
(author of WinAPRS)

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

849. Re: [APRSSIG:5103] Re: APRS Message HOT keys

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Sep 1996 10:57:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960926105454.29540O-100000@arctic>
Rendered body type: text/plain

```
On Wed, 25 Sep 1996, Daniel Velez wrote:

> How much memory would be saved if LORAN were removed?  ***  None

> Or, how about the DX cluster routines?

APRSdos REPLY/COMMENT:  Removing DX would gain about 2 more pages of
monitored posits from everyone...  But It is so cute, I hate to remove
it..  But will eventually...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

850. "Big Brother BOB"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Sep 1996 11:09:12 -0400 (EDT)
To: William Nolle <wa8inz@cris.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960926110342.29540R-100000@arctic>
Rendered body type: text/plain

```
Actually, Bill has made a good point, (and a few enemies, hi hi).

I am beginning to think that putting in a WIDE,WIDE,WIDE and
GATE,GATE filter in the code while a person is still a "newuser" wouldn't
really hurt serious users of the networks...

Ill check with Sproul Bros too...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

851. Re: [APRSSIG:5119] Modular APRS?

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Thu, 26 Sep 1996 10:11:34 -0500
To: aprssig@tapr.org
Message-ID: <v03007803ae704cbd3cd5@[138.87.2.109]>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996 08:06 J. Scott Ratchford, KC5JGV said:

>Maybe it's time to create a modular APRS system, Bob, in that each user
>can load that portion that they are interested in vs. the whole program! I

Good idea.  The protocal algorithm is the key and as long as it isn't
modified the modules would satisfy each interest.  Of course, Bob would be
worn out doing "everyones" desires.
```

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

852. Re: [APRSSIG:5034] Re: unproto

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 26 Sep 96 08:27:53 -0700
To: <aprssig@tapr.org>
Message-ID: <199609261523.LAA22108@bridge.net>
Rendered body type: text/plain

```
>> I would like to see Bob  add a new feature to the software so when a
>> person is Keyboarding Locally within 10 or 20 miles of their digi
>> that it would be imposible to have any wides in your unproto path.
>
>APRSdos REPLY/COMMENT: APRS could doubtfully be that smart.  How could it
>know that the person was local?  In California you can cover 150 miles in
>one hop via a mountain top digipeater.  In florida, you are lucky to talk
>25  miles..
>
But why couldn't it look at the Digi path, see it was hearing the other
station (say on one wide), and remove any other wides, gates, etc from
the path. That should be do-able.

Steve KO4HD
```

---

853. Re: [APRSSIG:5107] Re: UNPROTO and crippled unregistered software.

From: Paul Christenson <paulc@cyclades.com>
Date: Thu, 26 Sep 1996 08:54:25 -0700
To: aprssig@tapr.org
Message-ID: <324AA731.47B6241F@cyclades.com>
Rendered body type: text/plain

```
MBoyce1856@aol.com wrote:
>
> Without experimentation, where would all us be, still using the spark
> gap?!?

Nah... still using CW!

--
         +----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | Maker of High Performance Multiport Serial Cards   |
         | Unsolicited mail ads subject to a $25 handling fee |
         +----------------------------------------------------+
```

---

854. Re: [APRSSIG:5128] Re: unproto

From: William Nolle <wa8inz@cris.com>
Date: Thu, 26 Sep 1996 11:44:18 -0700
To: aprssig@tapr.org
Message-ID: <324ACF02.79D4@cris.com>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> >> I would like to see Bob  add a new feature to the software so when a
> >> person is Keyboarding Locally within 10 or 20 miles of their digi
> >> that it would be imposible to have any wides in your unproto path.
> >
> >APRSdos REPLY/COMMENT: APRS could doubtfully be that smart.  How could it
> >know that the person was local?  In California you can cover 150 miles in
> >one hop via a mountain top digipeater.  In florida, you are lucky to talk
> >25  miles..
> >
> But why couldn't it look at the Digi path, see it was hearing the other
> station (say on one wide), and remove any other wides, gates, etc from
> the path. That should be do-able.
>
> Steve KO4HD

Good idea Steve!. Your right The software already knows if you are
hearing the direct or not.
--
                    \////
```

```
                (0 0)
           *--o0-(_)-0o--*
           wa8inz@amsat.org
           wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

855. Re: [APRSSIG:5120] Re: HF STATIONS HEARD IN NE OHIO.

From: Richard Mulvey <mulveyr@frontiernet.net>
Date: Thu, 26 Sep 1996 12:58:14 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609261658.MAA36122@mail.frontiernet.net>
Rendered body type: text/plain

```
>
> kb8ast@kb8ast.#neoh.oh.usa.noam wrote:
>
>
>  I have a question, are the hf digi's vertically or horizonally
> polarized.
>  I would suspect vertical because that would permit the best 360 degree
>  pattern. 73, de KB8AST
>


Polarization at HF is irrelevant, especially after the first skip.
The reflection off of the atmosphere will change the polarization in
a fashion that you'll never be able to predict.  :-)

- Rich
```

---

856. Re: [APRSSIG:5126] "Big Brother BOB"

From: byoung@qni.com
Date: Thu, 26 Sep 1996 12:50:55 -0500
To: aprssig@tapr.org
Message-ID: <9609261750.AA03062@qni.com>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>Actually, Bill has made a good point, (and a few enemies, hi hi).
>
Bob and the group,

Regarding Bill Nolle:  Nah, he hasn't made any enemies that I'm aware
of!  I simply disagree with him on this point.  I'm glad that Bill is
out there and obviously read his postings along with the postings of
all my fellow APRSers (sorting the good from the bad :^)...).

Regarding any decision on adding/deleting "features" to DOS-APRS,
that's Bob's to make.  I can choose to "update" to the newer version
or not.  I'm aware of many people that have stayed at an earlier
release just so they don't get "reminded" not to digipeat onto HF!
(Not me!  I'm on the "bleeding" edge running 7.7b!!)

Bill Young
byoung@qni.com
KB0UZQ
```

---

857. APRS/AMSAT VHF FREQ

From: bbliss@juno.com (William B. Bliss)
Date: Thu, 26 Sep 1996 14:37:38 EDT
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <19960926.113712.2287.0.bbliss@juno.com>
Rendered body type: text/plain

```
ATTN Bob/WB4APR and sig readers;

   Following msg just received from our local NCPA President,
(Northern Calif Packet Assoc.) and forwarding to sig for info,
and consideration at the earliest..... .

Quote: ...                                                   Date:
26-Sep 02:23...

There is a rumor going around, apparently founded on good info.
that AMSAT no longer needs their 144.3-144.5 satellite segment.
```

The NCPA is in the process of verifying this with AMSAT. If true,
the plan is for the NCPA to allocate it for digital use. The information
is coming from the NFCC (National Frequency Coordinator's Council)
via their remailer.

Now, as APRS representatives on the NCPA board, I wanted to give you
the earliest opportunity to discuss (among the APRS folks) the following
comment from one of the NFCC higher-ups....

>From: WhitBrown@aol.com
>Date: Wed, 25 Sep 1996 17:58:04 -0400
>To: coordinators@cs.tamu.edu
>Subject: Re: lower 2 meter Satellite segment

[snip]
>I suggest that this might be an
>excellent opportunity to ask the APRS troops to consider QSY'ing from
>145.79 to somewhere in the vacated 144.3-144.5 segment, perhaps 144.49
> (or even .47 or .48)?.
>
> 73, Whit

In this region, APRS is currently assigned 145.01, while 145.79 is
allocated for BBS LAN use. If 144.3-144.5 is becoming available, I
don't see any problem moving APRS as Whit suggests. This is a chance
for APRS to have at least one nation-wide, two-meter frequency... and
possibly another one (at least in this region).

As more information comes in, I'll post a message to the whole NCPA
board. However I wanted you to have a chance to consult the rest of
your APRS friends as soon as possible... just in case.
    73, Gary WB6YRU@NOARY.#NCS.CA.USA.NOAM

UNQUOTE.....

      For a NATIONAL RECOGNIZED dedicate APRS frequency , we need the
coordination and agreement of all the APRS users in the U.S.
     For many a costly move, with 20-25 digipeaters in our area alone,
quite
a cost to change frequencies, buy new crystals, etc.. Lots of
considerations
everywhere but we should at least ask for a specific frequency right now
and be held for us , and then all agree to move. If want to stay on
145.79
then give up the new requested frequency later.
      Comments and suggestions from all, now is the time to act on a
specific
dedicated frequency. From Here to Eternity... hi...

         Someone close to AMSAT should confirm release of 144.3-5 VHF...

    73's & Enjoy, Bill/WB6LPG Rep for APRS with local Calif NCPA
NNNN

---

858. Re: [APRSSIG:5130] Re: unproto

From: ttyamada@CCGATE.HAC.COM
Date: Thu, 26 Sep 96 12:17:02 PST
To: aprssig@tapr.org
Message-ID: <9608268437.AA843766584@CCGATE.HAC.COM>
Rendered body type: text/plain

If this is implemented, remember to put in a override
     feature for those times you want another person
     farther away to see your message.
     (like in a keyboard round-table)
     Ted..

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5130] Re: unproto
Author: aprssig@tapr.org at CCGATE
Date: 9/26/96 10:19 AM

  >>> clipped <<<<
> >
> But why couldn't it look at the Digi path, see it was hearing the other
> station (say on one wide), and remove any other wides, gates, etc from
> the path. That should be do-able.
>

> Steve KO4HD

Good idea Steve!. Your right The software already knows if you are
hearing the direct or not.
--
>>> clipped <<<<

859. Re: [APRSSIG:5133] APRS/AMSAT VHF FREQ

From: William Nolle <wa8inz@cris.com>
Date: Thu, 26 Sep 1996 14:49:32 -0700
To: aprssig@tapr.org
Message-ID: <324AFA6C.2966@cris.com>
Rendered body type: text/plain

William B. Bliss wrote:
>
> ATTN Bob/WB4APR and sig readers;
>

------- Heavy Snip ----------

> Someone close to AMSAT should confirm release of 144.3-5 VHF...
>
> 73's & Enjoy, Bill/WB6LPG Rep for APRS with local Calif NCPA
> NNNN
>

I would be for this even though 145.790 is my coordinated digi frequency.
Here's a chance for the weather folks Skywarn, Ares etc to have a freq
for community weather service!

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

860. Re: [APRSSIG:5120] Re: HF STATIONS HEARD IN NE OHIO.

From: "Tom Devine" <ep@eyephrase.com>
Date: Thu, 26 Sep 1996 13:34:45 -0700
To: <aprssig@tapr.org>
Message-ID: <199609262024.NAA08027@wind.hurricane.net>
Rendered body type: text/plain

> I have a question, are the hf digi's vertically or horizonally
> polarized.
> I would suspect vertical because that would permit the best 360 degree
> pattern. 73, de KB8AST
>
> ===
>
> At the moment mine's a horz dipole at 20 feet.
> I have found inverting it works best on aprs.
> Roger n8chb
>

I suspect it's a matter of station preferences, not to mention budget! I
myself use one of two antennas, a dipole and a R-7. The dipole is much,
much quieter allowing for more signals to clear the Pk232 I use. However,
as the next solar cycle takes off I'm sure the R-7 will see more use. It
has a (unmeasured, and only a theory) better take off angle than the dipole
I use. Like I said, just a matter of personal preferences...

73!
Tom, KC7DRX
Seattle/Bremerton WA
PACNWEST APRS Member

Check out the PACNWEST home page at:
http://hurricane.net/~eyephrase/aprs.htm

861. Re: [APRSSIG:5133] APRS/AMSAT VHF FREQ

From: rwf <rwf@mindspring.com>
Date: Thu, 26 Sep 1996 17:40:45 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960926214045.006d5514@mindspring.com>
Rendered body type: text/plain

```
At 01:50 PM 9/26/96 -0500, William Bliss wrote:

>Now, as APRS representatives on the NCPA board, I wanted to give you
>the earliest opportunity to discuss (among the APRS folks) the following
>comment from one of the NFCC higher-ups....
>
>>From:   WhitBrown@aol.com
>>Date:     Wed, 25 Sep 1996 17:58:04  -0400
>>To:         coordinators@cs.tamu.edu
>>Subject: Re: lower 2 meter Satellite segment
>



I am following that discussion.  It has been a bit confusing, because of
typos being made.  As a matter of fact, the message that was quoted here has
already been questioned where it was originally posted because the
frequencies it suggests are used for SHUTTLE/MIR UPLINK!

Here is a quote from someone on the Coordinator's Remailer list:


"But, 144.47 and 144.49 are currently used as Space Shuttle uplinks.  144.49
is the standard packet uplink, and 144.47 is an alternate voice uplink when a
combined Shuttle/Mir operation is underway (such as right now)."

end quote


Let's not confuse the issue even more (yet)
```

---

862. WinAPRS Can't load serial dlls msg

From: "Steven R. Bible" <srbible@gnatnet.net>
Date: Thu, 26 Sep 1996 18:18:19 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960926221819.006a0d04@gnatnet.net>
Rendered body type: text/plain

```
I have been trying to get WinAPRS to work on a laptop 486SL.  I keep getting
the message "Requires Serial DLLs" on the opening dialog box.  As a
consequence I can't get GPS NMEA to input to the program and plot.  I've
installed WinAPRS per the instructions.  What am I doing wrong?

Thanks,

 - Steve, N7HPR

srbible@gnatnet.net
n7hpr@amsat.org
n7hpr@tapr.org
```

---

863. Re: [APRSSIG:5134] Re: unproto

From: William Nolle <wa8inz@cris.com>
Date: Thu, 26 Sep 1996 17:24:53 -0700
To: aprssig@tapr.org
Message-ID: <324B1ED5.63A2@cris.com>
Rendered body type: text/plain

```
ttyamada@CCGATE.HAC.COM wrote:
>
>
>      If this is implemented, remember to put in a override
>      feature for those times you want another person
>      farther away to see your message.
>      ( like in a keyboard round-table)
>      Ted..
>
> ______________________________ Reply Separator _________________________________
> Subject: [APRSSIG:5130] Re: unproto
> Author:  aprssig@tapr.org at CCGATE
> Date:    9/26/96 10:19 AM
>
>   >>> clipped <<<<
> > >
> > But why couldn't it look at the Digi path, see it was hearing the other
> > station (say on one wide), and remove any other wides, gates, etc from
> > the path. That should be do-able.
> >
> > Steve KO4HD
>
> Good idea Steve!. Your right The software already knows if you are
> hearing the direct or not.
>      --
>        >>> clipped <<<<

O YES THAT MAKES A WHOLE LOT OS SENSE!!!
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

864. Re: [APRSSIG:5133] APRS/AMSAT VHF FREQ

From: ku0g@sprynet.com
Date: Thu, 26 Sep 1996 15:31:10 -0700
To: aprssig@tapr.org
Message-ID: <199609262231.PAA28850@m1.sprynet.com>
Rendered body type: text/plain

Don't the Canadian boys operate APRS somewhere in the 144.3 - 144.5 area? It would seem that this would also be a way to have MORE than just a US frequency, but a CONTINENTAL standard! Wonder if that would be workable down in Central or South America, too? PLANETARY????? (maybe that's too much)

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

865. Thanks for the good times

From: aa7ya@juno.com
Date: Thu, 26 Sep 1996 18:17:18 EDT
To: aprssig@tapr.org
Message-ID: <19960926.154220.5383.0.aa7ya@juno.com>
Rendered body type: text/plain

Hello to the SIG,

Well, I think that I have had my fill of the SIG, and got to know quite a few along the way, albeit, no one was willing to answer any of my questions, just alot of T-Shirt promotions, "Poor Bob!" "My location see's more than your location" type of messages, and nothing geared toward the NEWBIE. Although, I did stick around long enough after the fact that I did ask if there was anyone on the SIG that would share what they have learned with APRS to a NEWBIE like myself. I think the APRS SIG is for the most part, a bunch of guys rubbing elbows with each other, "good 'ol boy" back slapping, and if you happen to be a JUNO customer, you were the scum of the earth, and shunned for being one. I know a few bad things about some of the other services that are out there, but you never saw any mention of it from *this* user.

I thought that maybe if I did get some questions answered that perhaps that it would help me in getting some users interested in APRS in my immediate area.

Apparently, my take is this, I would try in my best judgement, add some constructive thought, but for the most part, stayed off on the sidelines, since I know very little of APRS, but no one was willing, even as Bill Nolle calls a "Mentor", to lead/help me to a better understanding of APRS. So, I guess I will go back to working on my JNOS BBS system, building packet networks, or in other words, moving on to something that I take more enjoyment, and pride in doing, and not pulling my hair out to the root because I don't quite grasp APRS, though I was patient to learn, but didn't get any help when I wanted.

So with that, I bid everyone farewell, and thanks for allowing me
to express my feelings about this SIG.

Stacey, aa7ya@juno.com

** Hailing frequency off **

---

866. Re: [APRSSIG:5137] Re: APRS/AMSAT VHF FREQ

From: William Nolle <wa8inz@cris.com>
Date: Thu, 26 Sep 1996 17:58:00 -0700
To: aprssig@tapr.org
Message-ID: <324B2698.78C2@cris.com>
Rendered body type: text/plain

rwf wrote:
>
> At 01:50 PM 9/26/96 -0500, William Bliss wrote:
>
> >Now, as APRS representatives on the NCPA board, I wanted to give you
> >the earliest opportunity to discuss (among the APRS folks) the following
> >comment from one of the NFCC higher-ups....
> >
> >>From: WhitBrown@aol.com
> >>Date: Wed, 25 Sep 1996 17:58:04 -0400
> >>To: coordinators@cs.tamu.edu
> >>Subject: Re: lower 2 meter Satellite segment
> >
>
> I am following that discussion. It has been a bit confusing, because of
> typos being made. As a matter of fact, the message that was quoted here has
> already been questioned where it was originally posted because the
> frequencies it suggests are used for SHUTTLE/MIR UPLINK!
>
> Here is a quote from someone on the Coordinator's Remailer list:
>
> "But, 144.47 and 144.49 are currently used as Space Shuttle uplinks. 144.49
> is the standard packet uplink, and 144.47 is an alternate voice uplink when a
> combined Shuttle/Mir operation is underway (such as right now)."
>
> end quote
>
> Let's not confuse the issue even more (yet)

Now i'm totally confused, the person that posted that message never mentioned
the frequency you are talking about (Right). He was talking about 144.3-5 why
are you confusing the issue by adding 144.47 and 144.49 ?????

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

867. Dual Port (PCMCIA) APRS / GPS

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Thu, 26 Sep 1996 16:32:34 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960926233234.006735a4@mailhost.primenet.com>
Rendered body type: text/plain

Well I am still stuck. I have not been able to change the internal Mwave
modem, on my IBM Thinkpad 760, to a Com port & Interrupt other then Com 1 or
2. There is no simple way to disable the modem, so I have to somehow change
its address.

The Socket PCMCIA I/O adapter will not "share" addresses and APRS must have
Interrupt 03 or 04. Does anybody out there have any idea what I need to do?
I am really stuck and need some help!!

In advance, Thank You for your assistance, I do appreciate it.

73, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com

Amateur Radio Packet: WC7R @ KB7FRV

---

868. Re: [APRSSIG:5142] Re: APRS/AMSAT VHF FREQ

From: rwf <rwf@mindspring.com>
Date: Thu, 26 Sep 1996 19:44:45 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960926234445.006e2cbc@mindspring.com>
Rendered body type: text/plain

At 05:59 PM 9/26/96 -0500, Nolle wrote:

>
>Now i'm totally confused, the person that posted that message never mentioned
>the frequency you are talking about (Right). He was talking about 144.3-5 why
>are you confusing the issue by adding 144.47 and 144.49 ?????

Because I told you that that was a different message in the same list. Look
and you will see that those freqs do fall between 144.3-5.
(at least they do on MY radio).

When Mr Bliss posted his message here, I doubt that he had seen the message
in the other remailer that was posted in response to the one he quoted for
us here.

And because I said in my msg that the issue was already confused. The
thread includes typos of 145.49 vs 144.49 and then someone even added the
other frequencies too. I saw no need to quote all the messages on the other
remailer-= only enough to show that there was already confusion. You just
need to take my word that the other freqs were mentioned.

I'm just letting you guys know what is going on- If you don't want to know,
then tell me and I'll keep you in the dark. You can rest assured that our
discussions are being looked at over there.

Please don't imply that I am making things up.

---

869. X-1J4 (NODE) Question

From: mark.endicott@nashville.com
Date: Thu, 26 Sep 96 18:43:52
To: aprssig@tapr.org
Message-ID: <199609262345.SAA25558@tapr.org>
Rendered body type: text/plain

Bob, SIG or Anybody

Nashville has a little problem that we need some help with.
We now have 2 APRS digi's and are in the process of adding
couple more in the area. The problem is that the digi's
that are running X-1J4 firmware turn to "gray" after few
hours. I use the term "gray" loosely, the star becomes a
green outline with a gray center and the call sign
disappears. The ones that run conventional firmware remain
as green star, as they should. All of the digi's show up
in my heard log 3 to 8 times an hour and all are
WIDE-RELAYS. It is interesting to note that this "fade" is
only apparent on DOS versions, the MAC APRS screen does not
have this same phenomenon. I have seen this with
AEA,Kantronics and TAPR TNC's, Can anybody explain what is
happening ?.

73....Mark WB0NOO

```
    If Found, Please Return To:
  ______________________________
 |                              \
 |         Mark Endicott          \
 |        P.O. Box 148242           \
 |   Nashville, Tennessee 37214      >
 |             WB0NOO               /
 |  mark.endicott@nashville.com   /
 |______________________________/
```

---

870. Elmers and Unprotos

From: Al Zelna <ldajz@epix.net>
Date: Thu, 26 Sep 1996 19:24:43 -0700

To: aprssig@tapr.org
Message-ID: <324B3AEB.26C6@epix.net>
Rendered body type: text/plain

```
Once again this SIG has yielded quite a thread, of part of a thread, of
a bit of a thread.  If memory suits me (and it usually doesn't) the
original question concerning UNPROTO was some absurd GATE,WIDE,WIDE,WIDE
combination.

Another note concerns the use of similiar "long generic" UNPROTOs on
VHF.  By generic, I mean the regional problems with the use of
WIDE,WIDE,WIDE and so on.  If some users would take the time to learn
the program, and be able to interpolate the information they see on
their screens, they may be able to realize what their own UNPROTO is
doing to other areas around them.

If an APRSer can only "work" one WIDE in their area and their map is
always hoppin'; That is to their advantage.  But what if that WIDE can
"work" another two WIDEs, and one of those two can "work" three WIDEs,
maybe even a previous one.  You see how WIDE,WIDE,WIDE will bounce like
a cracked ping-pong ball?  Moreover, how about the APRSer's in that span
who can only "work" one WIDE?  Their DCD lights will probably burn out.

Once again I bring up one simple fact.  It is up to those involved and
concerned with the well-being, and future of APRS, (let's not throw this
to the authors) to take strides in "Elmering" those thought of as lids.
All things must be considered in your own little corner of the globe: 1.
Frequency, 2. Accepted UNPROTOs, and 3. SKYWARN vs. Keyboarding vs.
staring at the screen, afraid to touch that dial and tick someone off.


Shields are up... Flame away if you must.

73 de N3KAE
```

---

871. Re: [APRSSIG:5140] Re: APRS/AMSAT VHF FREQ

From: "Stephen Dubois" <steved@vianet.on.ca>
Date: Thu, 26 Sep 1996 20:07:06 -0400
To: <aprssig@tapr.org>
Message-ID: <199609270002.UAA11962@vianet.on.ca>
Rendered body type: text/plain

```
The Canadian Boys APRS freq. is 144.390. Works fine up here..in Ontario..
Hope this helps..:-)
Chow for now et 73.....to all


---------------------------------------------------------------------------
---
Steve Dubois
CANWARN SPOTTER VA3HOI
(S)huttle(A)mateur(R)adio(EX)periment STATION
APRS,WinAPRS,APRTRAK
E-mail:steved@vianet.on.ca
---------------------------------------------------------------------------
----

----------
> From: ku0g@sprynet.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:5140] Re: APRS/AMSAT VHF FREQ
> Date: Thursday, September 26, 1996 18:40
>
> Don't the Canadian boys operate APRS somewhere in the 144.3 - 144.5 area?
 It
> would seem that this would also be a way to have MORE than just a US
frequency,
> but a CONTINENTAL standard!  Wonder if that would be workable down in
Central or
> South America, too?  PLANETARY????? (maybe that's too much)
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
```

---

872. Re: [APRSSIG:5076] Re: WX Station goes grey on 7.7b

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 26 Sep 1996 20:57:52 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960926205701.24292A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Wed, 25 Sep 1996, Bob Bruninga wrote:
>
> >   Loaded up 7.7b over the weekend.  Now my wx station goes grey.  Don't
> > know when (how long) after I start it it greys out, but its happening.
>
> APRSdos REPLY/COMMENT:  Argh!  That was supposed to have been fixed in
> 77a and b. (b which shows itself as 77a in the Help screen and logo).
> Anyone else confirm that it is NOT fixed yet?


I converted from 7.5 to 7.7b a few days ago. Running UII WX stn. Seems OK
so far.

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

873. Re: [APRSSIG:5143] Dual Port (PCMCIA) APRS / GPS

From: rwf <rwf@mindspring.com>
Date: Thu, 26 Sep 1996 21:11:55 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960927011155.006dfd78@mindspring.com>
Rendered body type: text/plain

```
My thinkpad doesn't have mwave, but a bunch of them at work do.  I am going
to pass your message to some of our gurus who may have the answer.




At 06:37 PM 9/26/96 -0500, Alan U wrote:
>Well I am still stuck. I have not been able to change the internal Mwave
>modem, on my IBM Thinkpad 760, to a Com port & Interrupt other then Com 1 or
>2.

snip
```

---

874. Re: [APRSSIG:5141] Thanks for the good times

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 27 Sep 1996 00:44:44 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae7119c0b025@[199.1.11.140]>
Rendered body type: text/plain

```
>...no one was willing to answer
>any of my questions,

>I thought that maybe if I did get some questions answered that
>perhaps that it would help me in getting some users interested
>in APRS in my immediate area.

>... I was patient to learn, but didn't
>get any help when I wanted.

What help did you ask for ????????

I keep ALL the APRS sig messages from "day-one" online so that I
can look up information with a Eudora search.

I went back and looked at all your APRSsig postings and I can't
find any questions that you asked on how to use APRS.

--------
Postings by (Stacey T Hanrahan) aa7ya@juno.com
starting 88-13-96

[APRSSIG:3721] APRS in Montana? statement about "lack of Montana maps"
[APRSSIG:3745] Re: Free email service
[APRSSIG:3789] Re: Common courtesy...
[APRSSIG:3829] Re: JUNO
[APRSSIG:3830] Re: JUNO
[APRSSIG:3878] QST article (GPS) " You asked about cheap GPS"
[APRSSIG:3879] Re: JUNO
[APRSSIG:3930] Re: QST article (GPS)
[APRSSIG:3932] Re: QST article (GPS) 'Maybe with enough "newbie's" like myself"
[APRSSIG:3979] Re: QST article (GPS)
```

[APRSSIG:4032] Re: FREQ COORDINATION LETTER
[APRSSIG:4033] Re: APRS @ 9600

Postings by aa7ya@juno.com

[APRSSIG:4125] Re: MAXON RADIOS!
[APRSSIG:4511] Re: CHANGE EMAIL ADDRESS
[APRSSIG:4928] Re: Poor Bob!
[APRSSIG:4990] Re: HELP - APRS / GPS-45 & KPC-3

Unless I am missing a posting, all but two mail messages were reply's.
Could it be that your questions never made it to the APRSSIG. ?????
or did you mail directly to some APRSsig people and not get a reply ??

Don't over look downloading the TAPR archives of this SIG.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

875. Re: [APRSSIG:5141] Thanks for the good times

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 26 Sep 1996 22:56:13 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960926225646.2cd77f22@mailhost.primenet.com>
Rendered body type: text/plain

At 05:58 PM 9/26/96 -0500, aa7ya@juno.com wrote:
>Hello to the SIG,
>

>Apparently, my take is this, I would try in my best judgement, add
>some constructive thought, but for the most part, stayed off on the
>sidelines, since I know very little of APRS, but no one was willing,
>even as Bill Nolle calls a "Mentor", to lead/help me to a better
>understanding of APRS.

Sheesh! How pathetic can you get? I thought APRS was kinda self explanatory and simple, especially if one reads the documentation.

>So, I guess I will go back to working on
>my JNOS BBS system, building packet networks, or in other
>words, moving on to something that I take more enjoyment, and
>pride in doing, and not pulling my hair out to the root because I
>don't quite grasp APRS, though I was patient to learn, but didn't
>get any help when I wanted.

Yes, we snubbed you on purpose... perhaps we have a little persecution complex?
I vote we never help anyone named Stacey from juno.com ever again in regards to APRS. BTW, when is the next "we hate Stacey" meeting?
>
>So with that, I bid everyone farewell, and thanks for allowing me
>to express my feelings about this SIG.
>
Allowing you?

>Stacey, aa7ya@juno.com
>
>** Hailing frequency off **
>

Now where's that "Nerd alert" button?

Honestly... I'm prepared for the slings and arrows generated from this post. But please, how many thin skinned "net whiners" can I tolerate? How many of us have been on the outside of a group? I bet all of us. I remember my first PUG (packet users group) meeting where I didn't know anyone, as well as my first ThunderBird ARC meeting. I knew no one. It took talking to individuals and getting involved to learn anything or to get to know people. It took time. I didn't stand in front of the group pitifully begging to be recognized.

Yes, I've been snubbed by other hams and been treated rudely for no reason by good old boy (and girl!) repeater nets. We all have. That's life. You have two choices. Stick around and try to participate, or weenie out.

Mark KC7BXS

876. Re: [APRSSIG:5128] Re: unproto

From: Bob Derderian <n2iph@cyberenet.net>
Date: Fri, 27 Sep 1996 01:58:41 -0400
To: aprssig@tapr.org
Message-ID: <324B6D10.2466@cyberenet.net>
Rendered body type: text/plain

To Steve and the Group:

I think I asked Bob(APR) this or a similar question about 6 or 8 months ago, don't remember what his reply was.

I had asked if it were possible to have APRS look at the incoming path of a MSG and then use that SAME path in REVERSE as the reply path.

Also, I don't know how everyone else feels but I could loose the USA.map on key 1, so I could have another programmed map key. The reason I suppose that the 2,4,6,8 keys are not used is that most laptops or computers with compact keyboards do not have a separate numeric keypad. So the map keys cannot use all 10 of the numeric keys located just below the Fkeys, cause the ASCII scancodes are different for the numeric keypad and the number keys on the main keyboard section.

A modular approach is something to think about. I'm not sure how to go about the install process using PKUNZIP.exe, seems you would need a script to query the user which modules to install and then pass these params off to PKUNZIP so that it only extracted the required optional components along with the basic required stuff. This will make the overall .zip file larger than can fit onto 1 floppy though I fear, which would hinder distribution somewhat.

The docs could also be zipped up in a separate zip within the overall zip and the one file with the detail text files extracted to the readme DIR, maybe leaving the whatsnew.txt and install.txt in the main zip to be readily available.

877. 1996 ARRL SW Division Convention

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 26 Sep 1996 23:10:26 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960926231101.2cd7a720@mailhost.primenet.com>
Rendered body type: text/plain

Don't forget the ARRL Southwest Division Convention is October 11-13 in Mesa, Arizona.

To be held at the Mesa Convention Center.

For more info check: www.getnet.com/~davidh/cadxa.html

Unfortunately, I will not be there for eyeball QSO's as I have another commitment. But it should be a blast.

This may be your LAST chance to tour Barry Goldwater's shack (reservations required in advance).

BTW, the Wouff Hong will be Saturday at midnight! I believe Len Winkler of "Ham Radio and More" will be hosting the evening.

I hear about 80 vendors will be there (no swap meet), but again ICOM is snubbing Arizona events.

ThunderBird ARC will have a table as well as the ARA. If you go please remind the ARA that we would be very pleased to get an APRS digi on one of their sites.

73,

Mark
KC7BXS

878. N2IPH-15 WIDE digi down

From: Bob Derderian <n2iph@cyberenet.net>
Date: Fri, 27 Sep 1996 02:22:24 -0400
To: APRS dicussion group <aprssig@tapr.org>
Cc: Matt Wilson <matt@cyberenet.net>, Bill Davis <n2zso@cyberenet.net>,
warnerh@cyberenet.net
Message-ID: <324B72A0.47A6@cyberenet.net>
Rendered body type: text/plain

I'm sending this to the SIG cause of the number of people affected by it.

The N2IPH-15 WIDE digi in SNJ is temporarly down (for maybe 2 or 3 days). The TNC has given up the ghost. It was an original MFJ-1278 from '88 and has seen much use, lately continous duty as the APRS digi for the past 2+ years. It will be replaces sometime over the weekend maybe by a KPC-3 which will allow us to run WIDE/RELAY at that site. The 1278 will probably go back in service if its repairable.

73...Bob
n2iph

NNNN

---

879. Busted!

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 27 Sep 1996 01:04:31 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960927010507.2cd7b2c0@mailhost.primenet.com>
Rendered body type: text/plain

I know this isn't directly related to APRS, I know this will be of interest to most. And hey, who says APRS can't be of use in cases like this in the future? I think a few APRS'd DF Jr.'s would be good.

Friday August 16, 1996 Mesa, Arizona:

Mesa Police, FCC Agents, and Arizona Repeater Association representatives executed search warrants and arrested three individuals suspected (caught red-handed) of causing interference to ham radio, police, fire, and other radio communications. They were also charged with abusing the 911 system, impersonating police officers, and false reporting.

The interference consisted of transmitting false officer emergency calls (999's), sending "hot tones" over the air, profane and lewd remarks, as well a physical threats and bomb threats. It is believed that these three have been causing interference on many local amateur repeaters as well as public safety frequencies for over a year, but the interference escalated in July 1996. 911 hang-ups on autopatches and general (unusual) QRM raised the ire of ARA interference committee as well as general members, causing them to investigate. Most interference could be heard on the inputs in the Mesa area, and Mesa police had already approached local hams for help in tracking down their QRM problem. Local T-hunters went to the chase, verbal QRM was recorded, and the suspects were pinpointed and surveilled.

Arrested are:

Joshua D. Cavender
3443 East University #133
Mesa, AZ
DOB: 12/21/79

Brad E. Shelley
542 S. 37th St.
Mesa, AZ
DOB: 12/25/79

Christopher R. Johnson
2006 N. Higley
Mesa, AZ
DOB: 05/18/76

I'm told that at least one is a No-code tech. All electronic equipment in each household searched was confiscated (ALL ELECTRONIC EQUIPMENT). FURTHER ARRESTS ARE PENDING. At least one suspect has confessed.
Voice recordings were sent to the FBI labs and they say the case against the three is AIRTIGHT. In fact, no warrants were issued until the FBI was certain that the case would stick.

This is despicable behavior, especially from licensed operators. Too bad 2 of them are juveniles. Perhaps a little time in Sheriff Joe's Tent City wearing pink underwear would set them straight. With only 500 beds available for "yute" offenders in our whole state, they'll probably get sent home to their mommies...

I know Sheriff Joe would love for them to be guests, as it's HIS 911 system they messed with. (G)

BTW, the Ham Radio Posse has expressed an interest in assisting in these investigation in the future. Perhaps some generous vendors here (hint. hint.) might donate equipment and software for this purpose.

Mark
KC7BXS

880. Busted!

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 27 Sep 1996 01:04:41 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19960927010518.2cd7cf44@mailhost.primenet.com>
Rendered body type: text/plain

On a similar note:

The ARA sent a nasty-gram to a boot-legger using a bogus call sign in August. In light of recent events he seems to have decided to turn his interests elsewhere.

August 30, 1996. Phoenix, AZ.

Timothy Harold Hoffman of Phoenix, AZ was issued a further N.A.L. in the amount of $6000.00 for violations of several FCC regulations. Hoffman is (was) a licensed ham and is (was) a dues paying member of the ARA when his first N.A.L. was issued a year ago. The ARA also voted him OUT of the association. I'm told this is only the second time in twenty years that a membership has been revoked.

It seems the FCC didn't want to prosecute Mr. Hoffman, but a write-in campaign to lawmakers was started by ARA members. Unfortunately only three federal congressman saw this situation serious enough to warrant a response. They are: John Shaddig, Bob Stump, and Sen. John McCain. As a personal aside: I've noted that Republican lawmakers are far more interested in protecting ham radio than Democrats. I only joined the NRA when asked personally by Joe Foss and Sen. McCain. Bob Stump is a local conservative icon who's probably the most frugal Congressional Delegate currently seated.

Enough about the Republicans, I've only heard one Democrat "official" try to intervene in this matter. And this one will blow your socks off: HILLARY RODHAM CLINTON wrote the FCC and asked them respond to the ARA case against Mr. Hoffman!

I hope that in the future we'll be using APRS locally to track these guys down.

73,

Mark KC7BXS

881. Re: GPS vs. fiberglass and SNR?

From: Mike Parker <parker@rincon.com>
Date: Fri, 27 Sep 1996 04:36:19 -0700
To: aprssig@tapr.org
Message-ID: <324BBC33.2C33@rincon.com>
Rendered body type: text/plain

I have successfully put GPS receivers in several gliders looking through the fiberglass body. I probably lose a little SNR, but as a practical matter everything works fine.

It should not work, however, if the fiberglass is reinforced with carbon fiber. I haven't actually tried either carbon fiber or kevlar reinforced structures.

Mike Parker, KT7D

882. Re: unproto

From: kf4dys@juno.com (Joe Foor)
Date: Fri, 27 Sep 1996 07:00:03 PST
To: aprssig@tapr.org

Message-ID: <19960927.070058.4503.0.kf4dys@juno.com>
Rendered body type: text/plain

```
Bob Derderian <n2iph@cyberenet.net> wrote:
>Also, I don't know how everyone else feels but I could loose the USA.map
>on key 1, so I could have another programmed map key.

A while back, Bob B. posted the information that the map
and location of button 1 is the default position and
range at the beginning of the maplist. You can change
this with a text editor, to any position and range you
want.

regards,
Joe
```

---

883. Baycom as a Wide Digi?

From: "Richard L. Holbert" <holbert@arinc.com>
Date: Fri, 27 Sep 1996 09:47:00 -0400
To: aprssig@tapr.org
Message-ID: <96Sep27.084700edt.27652@interlock.arinc.com>
Rendered body type: text/plain

```
I know APRS can't use  Baycom modems directly, but has anyone tried
to use one as a digipeater? The current Dayton Wide consists of a
dedicated "klunker" computer running APRS and a TNC.  By switching to
Baycom I could free up the TNC for some other projects.

Thanks!
```

---

884. Re: [APRSSIG:5136] Re: HF STATIONS HEARD IN NE OHIO.

From: kb6lfm@ix.netcom.com
Date: Fri, 27 Sep 1996 06:02:25 -0700
To: aprssig@tapr.org
Message-ID: <324BD061.11E5@ix.netcom.com>
Rendered body type: text/plain

```
Tom Devine wrote:
>
> ----------
> >  I have a question, are the hf digi's vertically or horizonally
> > polarized.
> >  I would suspect vertical because that would permit the best 360 degree
> >  pattern. 73, de KB8AST
> >
> > ====================================================================
> >
> > At the moment mine's a horz dipole at 20 feet.
> > I have found inverting it works best on aprs.
> > Roger  n8chb
> >
>
> I suspect it's a matter of station preferences, not to mention budget! I
> myself use one of two antennas, a dipole and a R-7. The dipole is much,
> much quieter allowing for more signals to clear the Pk232 I use. However,
> as the next solar cycle takes off I'm sure the R-7 will see more use. It
> has a (unmeasured, and only a theory) better take off angle than the dipole
> I use. Like I said, just a matter of personal preferences...
>
> 73!
> Tom, KC7DRX
> Seattle/Bremerton WA
> PACNWEST APRS Member
>
> Check out the PACNWEST home page at:
> http://hurricane.net/~eyephrase/aprs.htm
>
> Hello Tom. Bill here in San Francisco. The HF GATEWAY here is a
TS-450s/AT, KAM+ and a 2 element Quad at 50'. Generally speaking, an
omni-directional antenna would be the preferred, but having the Pacific
Ocean as my neighbor, wouldn't make "propagating"  to the west a very
good idea. I do track some M/M's at times such as the "TransPac-96"
sailboat race that started 16 Solo Sailboats on a voyage/race from San
Francisco to Hawaii. perhaps you caught it. The "Baja Ha Ha!" S/V race
will start in San Diego on October 28th. and will end in Cabo Saint Lucas
 Mexico. So, as you can see there are some advantages to having a
directional HF antenna for APRS. I'll be looking for your "icon" on my
screen Tom!
```

73 de Bill (Radio Flyer) KB6LFM
APRS M/M GATEWAY Station in San Francisco.

---

885. Re: [APRSSIG:5157] Re: GPS vs. fiberglass and SNR?

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 27 Sep 1996 08:32:04 -0500
To: <aprssig@tapr.org>
Message-ID: <199609271333.IAA09163@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
>
> I have successfully put GPS receivers in several gliders looking through
the fiberglass
> body.  I probably lose a little SNR, but as a practical matter
everything works fine.
>
> It should not work, however, if the fiberglass is reinforced with carbon
fiber.  I haven't
> actually tried either carbon fiber or kevlar reinforced structures.
>
>
> Mike Parker, KT7D

As a fiberglass reinforced plastics (FRP) manufacturer I have used various
materials in our products for our customers. Fiberglass and Kevlar have
close to the same dielectric strengths and have posed no problems
concerning RF. Carbon fiber, on the other hand, is very conductive. I have
an RF cure machine and use in with glass and kevlar. However, carbon will
literally cause an explosion resulting in fire. Personally I would not
suggest using carbon based products in any part of the radio hobby.
Especially as an enclosure for a transmitting antenna with high power. I
have never seen any research done on the use of carbon enclosures in the
radio market and would be an interesting one!

Anyway, I drive a K5 Blazer with a fiberglass top with the GPS antenna
mounted inside the vehicle with no noticable problems. The only problem
with a fiberglass top is it doesn't make a ground plane unless I use an
adhesive backed foil stuck to the inside roof. Then I'm not too sure one
wouldn't slowly cook the brain!

73
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *
```

---

886. Re: [APRSSIG:5119] Modular APRS?

From: Chris Dapples <ccdapple@wtp.net>
Date: Fri, 27 Sep 1996 07:41:41 -0600
To: aprssig <aprssig@tapr.org>
Message-ID: <9609271341.AA30514@wtpprod1.wtp.net>
Rendered body type: text/plain

```
>     From: jratchf@bulldog.afsc.k12.ar.us
>     Date: 9/26/96  8:03:19AM
>     To: aprssig
>     Subject: [APRSSIG:5119] Modular APRS?
>
>     > Bob Bruninga wrote:
>     > > APRSdos REPLY/COMMENT:  I agree, it would be nice to have
>     more than 10
>     > > lines, but there is no more rooom in APRS.  What should I
>     leave out?
>     >
>     > Bob, how much memory would be saved if all the LORAN
>     routines were
>     > removed?
>     > Or, how about the DX cluster routines?  I don't know anyone
>     who uses
>     > either..perhaps someone using these features could give us
>     an idea...
>     > --
>     > Dan
>
>     Maybe it's time to create a modular APRS system, Bob, in that
>     each user
>     can load that portion that they are interested in vs. the
>     whole program! I
>     don't know if that is possible, but if it were, that would
>     lead to more
>     user specific programs that use less memory while maintaining
>     the
>     integrety of your basic program. Modular parts could be the
>     GPS, SPACE,
>     WX, DX ect. I don't have a need for GPS routines at the QTH!
>     Some more to
>     go Hmmmmm about!

GOOD idea!!  There are several satellite ground control station
programs that
run in this manner and although I use all the modules here, many do
not.  The
system works with noe main controlling program and calls up the
modules it
needs to perforn the needed task.  I would think that APRS would be
a good
candidate for this mode of operation.
Chris Dapples, KF7KN
ccdapple@wtp.net
```

---

887. Re: Southeast UHF Frequency

From: kr4ol@juno.com
Date: Fri, 27 Sep 1996 09:38:17 PST
To: aprssig@tapr.org
Message-ID: <19960927.094103.22151.1.KR4OL@juno.com>
Rendered body type: text/plain

```
Thank you for the replies regarding the UHF frequency in the
Southeast. We are currently working on putting up a new WIDE digi in
Central Georgia. The site we will be using is already in use as a packet
BBS and has a tremendous area of coverage; from Clarkesville Ga, to Vienna, Ga. That is approximately a
90 mile radius. We are planning both VHF (145.790) and UHF frequencies on this digi.
        Since there is no established UHF frequency for APRS in this
area, we are going to proceed with the frequency that is recommended by
Bob. When the SERA allocates a frequency for use, we will move to it. I
currently have no concrete timetable for the implementation of this new
WIDE digi, but it is comming! I'm sure you will know when it happens.
        There is terrific interest in APRS in Central Georgia. The local
ARES organization intends to include APRS in its SKYWARN activities.

                                Thanks again for your help,
                                                       de Tom, KR4OL
```

---

888. Re: [APRSSIG:5138] WinAPRS Can't load serial dlls msg

From: Mark Sproul <sproul@ap.org>
Date: Fri, 27 Sep 1996 09:11:00 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae7182787b22@[165.1.27.20]>
Rendered body type: text/plain

```
>I have been trying to get WinAPRS to work on a laptop 486SL.  I keep getting
>the message "Requires Serial DLLs" on the opening dialog box.  As a
>consequence I can't get GPS NMEA to input to the program and plot.  I've
>installed WinAPRS per the instructions.  What am I doing wrong?
>
>Thanks,


The REQUIRES SERIALL DLLS message is just to indicate that the DLLs are
needed for that version, not that they are missing.


Open the INTERNAL STATE window, that will tell you if they are loaded
properly or not.

Does TNC input work?

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

889. Re: [APRSSIG:5140] Re: APRS/AMSAT VHF FREQ

From: "Paul Gilmore" <pgilmore@beachnet.org>
Date: Fri, 27 Sep 1996 10:36:20 -0400
To: <aprssig@tapr.org>
Message-ID: <m0v6e0b-0000COC@beachnet.org>
Rendered body type: text/plain

```
To answer your question, YES WE UP HERE IN CANADA USE " 144.390 " AS OUR
NATIONAL ASSIGNED APRS FREQ, great idea for a North America Wide Net


 Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
 AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
 EMAIL  pgilmore@beachnet.org


----------
> From: ku0g@sprynet.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:5140] Re: APRS/AMSAT VHF FREQ
> Date: Thursday, September 26, 1996 6:40 PM
>
> Don't the Canadian boys operate APRS somewhere in the 144.3 - 144.5 area?
 It
> would seem that this would also be a way to have MORE than just a US
frequency,
> but a CONTINENTAL standard!  Wonder if that would be workable down in
Central or
> South America, too?  PLANETARY????? (maybe that's too much)
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com
>
```

---

890. APRS CROSSLINK

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 10:53:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927091754.16266A-100000@arctic>
Rendered body type: text/plain

A month ago, there was discussion of how to network APRS packets using cross band links. The problem was that curently, there was no way to do it without using up a digi hop at each gateway and node. There is a simple way, however, to do this with an APRS CROSSLINK regenerator. This Chip, simply repeats a packet exactly as it was received. (it has the option of selectively only linking certain TO subnets). Of course it will only work in a crosslink environment, because if any packet EVER was heard again after being crosslinked, it would go on forever!

APPLICATIONS:

1. You live in a hole. Even if you put up a WIDE digipeater, it will only digipeat packets that still have a WIDE to go in their digi path.... It will not digipeat all of those packets that have already hit their last wide and it could disrupt existing network by adding a WIDE to other hops. The CROSSLINK chip, would allow you to listen on a UHF frequency to EVERY packet heard by your DIGI on the mountain and there would be no impact to the existing net.

2) You have some old 6m radios laying around. You put one at your current 2m WIDE site and crosslink EVERY packet heard onto a 6m backbone. The purpose of this backbone is SKYWARN. So you tell the crosslink chip to only crosslink packets adderssed to APRSKY. Only these packets will travel on the backbone. But the entry point into the net will still be on 145.79 so the users dont have to change... You could set up a statewide SKYWARN net...

AVAILABILITY. Will Clement has the MIM chip both transmitting and receiving packets. It would be "trivial" to make it do this.. Right Will?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

891. Re: [APRSSIG:5159] Baycom as a Wide Digi?

From: ku0g@sprynet.com (Jim Duncan)
Date: Fri, 27 Sep 1996 07:58:50 -0700
To: aprssig@tapr.org
Message-ID: <199609271458.HAA15896@m1.sprynet.com>
Rendered body type: text/plain

```
>I know APRS can't use  Baycom modems directly, but has anyone tried
>to use one as a digipeater? The current Dayton Wide consists of a
>dedicated "klunker" computer running APRS and a TNC.  By switching to
>Baycom I could free up the TNC for some other projects.
>
>Thanks!

My question here is "WHY?"  All you need is a TNC and a radio for a
digipeater.  No need to run the computer and software if all the site is
used for is digipeating.
73 de Jim, KU0G

>
```

---

892. Re: APRS/AMSAT VHF FREQ

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 11:15:44 -0400 (EDT)
To: aprssig@tapr.org
Cc: amsat-bb@amsat.org
Message-ID: <Pine.GSO.3.95.960927110327.29077B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996, William B. Bliss wrote:

>    Following rumor just received from our local NCPA President,
> (Northern Calif Packet Assoc.) and forwarding to sig for info:
>
> ... AMSAT no longer needs their 144.3-144.5 satellite segment. ...
> the plan is for the NCPA to allocate it for digital use. The information
> is coming from the NFCC (National Frequency Coordinator's Council)...
>
> Now, as a representative on the NCPA board, I wanted to give you the
> opportunity to discuss the following comment from one of the NFCC vips:
>
> >From:   WhitBrown@aol.com
> >
> >I suggest that this might be an excellent opportunity to ask the APRS
> >troops to consider QSY'ing from 145.79 to somewhere in the vacated
> >144.3-144.5 segment, perhaps 144.49 (or even .47 or .48)?.

COMMENT: Well, I sure hate to see AMSAT give that up.  I thought that was
used for MIR and SHUTTLE uplinks and scheduled QSO's!  Especially in light
of the impossibility of finding other worldwide SATELLITE channels.  I
personally think that we are only beginning to see the vast potential for
mobile vehicle, boats RV's use of GPS and APRS for remote vehicle
tracking and communications.  Since 30 watts into an FM rig with only a
lightly modiifed TNC will give you a very good uplink to an amateur
PACSAT.  I would hope that one channel in that band would be dedicated
to APRS/GPS position/status report uplinks from mobiles worldwide!

Reply mail addr: wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

893. Re: [APRSSIG:5134] Re: unproto

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 11:18:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927111617.29077C-100000@arctic>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996 ttyamada@CCGATE.HAC.COM wrote:

> > But why couldn't it look at the Digi path, see it was hearing the other
> > station (say on one wide), and remove any other wides, gates, etc from
> > the path. That should be do-able.
>
> Good idea Steve!. Your right The software already knows if you are
> hearing the direct or not.

APRSdos REPLY/COMMENT: APRS will flag if it EVER hears a packet direct.
Or in the case above, if it EVER heard you via 1 wide.  I would NOT want
packet routing to be based on such chance occurrances.   What you are
asking would be to keep statistics on every packet heard and determine the
"best path" for replies.  I dont have room for all that.
```

```
Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

894. Re: [APRSSIG:5145] X-1J4 (NODE) Question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 11:29:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927112732.29077F-100000@arctic>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996 mark.endicott@nashville.com wrote:

>           Nashville has a little problem that we need some help with.
>           couple more in the area.  The problem is that the digi's
>           that are running X-1J4 firmware turn to "gray" after few
>           hours.  I use the term "gray" loosely, the star becomes a

APRSdos REPLY/COMMENT: Send me a copy of the *raw* packet being beacond by
that digi.  If the installer has placed a DATE/TIME in the packet then he
is doing it worng.  The packetmust begin with !LAT/LONG...  There is *no*
date-time field in a digipeater posit report.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

895. Re: [APRSSIG:5141] Thanks for the good times

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 11:35:36 -0400 (EDT)
To: aprssig@tapr.org
Cc: aa7ya@juno.com
Message-ID: <Pine.GSO.3.95.960927112943.29077G-100000@arctic>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996 aa7ya@juno.com wrote:

> Well, I think that I have had my fill of the SIG, and got to know
> quite a few along the way, albeit, no one was willing to answer
> any of my questions, just alot of T-Shirt promotions, ...

APRSdos REPLY/COMMENT:  I agree, there is a lot of wasted bandwidth here.
I try to answer all APRS questions I see.  A question like you posed, what
is APRS or how do I use it, really is an unanswerable question within the
bandwidth of this SIG, hi hi.  I have written over 2 inches of printed
documtation in the readme files and everyone wants me to write MORE....

I think the way to get an answer, is to ask a specific question, those
are easy to answer...  hi hi

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

896. FW: [APRSSIG:5159] Baycom as a Wide Digi?

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 27 Sep 1996 11:35:56 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBAC68.0D44A780@gwyn.paccomm.com>
Rendered body type: text/plain

```
Richard L. Holbert[SMTP:holbert@arinc.com] said on Friday, September 27,
1996 4:04 AM

>I know APRS can't use  Baycom modems directly, but has anyone tried
>to use one as a digipeater? The current Dayton Wide consists of a
>dedicated "klunker" computer running APRS and a TNC.  By switching to
>Baycom I could free up the TNC for some other projects.


The Baycom should work fine as a normal digipeater. Its your choice - a
computer and a baycom or a stand-alone TNC. Guess it depends on what you
have excess of.
```

---

897. Re: [APRSSIG:5152] Re: unproto

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 12:15:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927121120.29077K-100000@arctic>
Rendered body type: text/plain

On Fri, 27 Sep 1996, Bob Derderian wrote:

> I had asked if it were possible to have APRS look at the incoming path
> of a MSG and then use that SAME path in REVERSE as the reply path.

APRSdos REPLY/COMMENT: That is the #1 best improvement that can be made in APRS, but here is the probelm. Using UI frames, you have to go to command moe\de, change the unproto path, then go back to converse mode, then send the packet, then wait up to 10 or 15 seconds for the channel to clear or whatever, to be sure that that UNPROTO path gets used for THAT packet. Once you change the UNPROTO path, you have NO GUARANTEE that it will be used by any given packet in the queue. The UNPROTO is assigned at the instant of transmitting, NOT when you firsst send it to the TNC. SO I have found that you have to NOT send anything to the TNC for up to 10 wseconds or more to guarantee that the packet gets teh UNPROTO you intended before you can change the UNPROTO to smoething eles. This is just too much trouble on ARPS until we go to KISS mode...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

898. Re: [APRSSIG:5160] Re: HF STATIONS HEARD IN NE OHIO.

From: Dave Creek <dcreek@pixi.com>
Date: Fri, 27 Sep 1996 06:06:17 -1000 (HST)
To: kb6lfm@ix.netcom.com
Cc: aprssig@tapr.org
Message-ID: <Pine.PCW.3.95.960927055117.9807A-100000@mothra28.pixi.com>
Rendered body type: text/plain

> > Hello Tom. Bill here in San Francisco. The HF GATEWAY here is a
> TS-450s/AT, KAM+ and a 2 element Quad at 50'. Generally speaking, an
> omni-directional antenna would be the preferred, but having the Pacific
> Ocean as my neighbor, wouldn't make "propagating" to the west a very
> good idea. I do track some M/M's at times such as the "TransPac-96"
> sailboat race that started 16 Solo Sailboats on a voyage/race from San
> Francisco to Hawaii. perhaps you caught it. The "Baja Ha Ha!" S/V race
> will start in San Diego on October 28th. and will end in Cabo Saint Lucas
> Mexico. So, as you can see there are some advantages to having a
> directional HF antenna for APRS. I'll be looking for your "icon" on my
> screen Tom!
>
> 73 de Bill (Radio Flyer) KB6LFM
> APRS M/M GATEWAY Station in San Francisco.

Hello Bill, Dave here on Oahu. I guess we APRS users here in Hawaii really don't NEED to see what's going on on the mainland. It isn't like any mainland mobiles are going to be driving out our way.
We run into the same problems during field day and other contests, it's hard to communicate when talking to the back of all the beams in '6'land.
As a San Franciscan born and raised, I used to think that we had a more worldly view than this.
In 1993 while visiting my sister in Woodland, I had my 2 meter HT with me.
Many times on the Sacramento Valley repeater system I was asked what kind of strange call I had. I was even accused of being a bootlegger! <SIGH>
It's tough being an Old Fart Ham.

Dave Creek, NH6BA
Ewa Beach, HI
dcreek@pixi.com

899. Re: [APRSSIG:5159] Baycom as a Wide Digi?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 12:23:13 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927122212.29077M-100000@arctic>
Rendered body type: text/plain

On Fri, 27 Sep 1996, Richard L. Holbert wrote:

> I know APRS can't use Baycom modems directly, but has anyone tried
> to use one as a digipeater? The current Dayton Wide consists of a
> dedicated "klunker" computer running APRS and a TNC. By switching to
> Baycom I could free up the TNC for some other projects.

APRSdos REPLY/COMMENT: The APRS TNC on a chip called the MIM is being prepared to operate as a complete APRS DIGI. We will let you konw when it is ready...

Reply mail addr: wb4apr@amsat.org

See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

900. RE: [APRSSIG:5166] APRS CROSSLINK

From: "William I. Clement" <wclement@the-hermes.net>
Date: Fri, 27 Sep 1996 12:30:50 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBAC6F.E083C520@athena-4.the-hermes.net>
Rendered body type: text/plain

AVAILABILITY. Will Clement has the MIM chip both transmitting and
receiving packets. It would be "trivial" to make it do this.. Right
Will?

Yup, trivial.

Will Clement, N3XLM, President
Clement Engineering, Inc.
wclement@the-hermes.net

```
begin 600 WINMAIL.DAT
M>)\^(CL0`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`(@```%)%.B!;05!24U-)1SHU,38V72!!4%)3($-23U-3
M3$E.2P#\" $%@ ,`#@```,P'"0`;``P`'@`R``4`6 $!(( #``X```#,!PD`
M&P`,`!T`&@`%`#\!`0F `0`A````.4(Q0T8P,C(V,3$X1# Q,4)$-3<T-#0U
M-3,U-# P,# `PP8!`Y &``0#```2````"P`C```````#`"8```````L`*0``
M`````P`V``````! `#D`0*+\/I&LNP$>`' ``0```"(```!213H@6T%04E-3
M24<Z-3$V-ET@05!24R!#4D]34TQ)3DL````"`7$``0```!8````!NZR1/OPB
M\!R<&&$1T+U71$535 `````>`!X,`0````0```!&05@`'@`?# $````2````
M*S$@*#0Q,"D@-3$X+38U.3<````#``80JO;\0@,`!Q##````'@`($ $```!E
M````059!24Q!0DE,25195TE,3$-,14U%3E1(05-42$5-24U#2$E00D]42%12
M04Y3345!4$E.1T%.1%)%0T5)5DE.1U!!0TM%5%-)5%=/54Q$0D4B5%))5DE!
M3")43TU!2T5)5$1/5 `````"`0D0`0```(0!``" `0``E (``$Q:1G66,=7S
M_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"`'!R0G$1
MXG-T96T"@S/O`T43-0=M`H,T`N0'$P* +GT*@ C/"=D[&#\R-1XU`H *@0VQ
M"V!N9S%\,#,44 L*%H$+\A-0;P43T&,%0$%604E,!$%"'9!)5%DN(,P@5P,0
M`R!#;!/@"?!''4 1@ 0@=&AE!=!)5 R<@!Q(;6D"0 N
M9R -`'!D"H480&-E:793(1(*L&-K$<!S'B%)905 =PA@;&0@(!^ (I<@@"(Q
M!T B'U!O( # Y2+ ("#@(&0DH!]@! ""+AXA4FEG:'0*A:T>4C\*CQQ(8P!
M("<%L%EU<"P@<20C+B<//QQ/*.8JKRB%'EHID$XSZ%A,32F04!A `) -L/<"
M,"QE'J9%&T +@ G@!1 C&T ID$EN8RHF=V-5'K1 'V$M'W!R!X$N?3%@= M&
M%%$KKP7 %V$``38P`P`0$ `````#`!$0`````$ `!S!@SW@,D:R[`4 `"#!@
=SW@,D:R[`1X`/0`!````!0```%)%.B `````);@`
`
end
```

---

901. Re: [APRSSIG:5129] Re: UNPROTO and crippled unregistered software.

From: Bill Lefler <wo0e@sky.net>
Date: Fri, 27 Sep 1996 13:26:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.960927132518.25580A-100000@sky.net>
Rendered body type: text/plain

On Thu, 26 Sep 1996, Paul Christenson wrote:

> Nah... still using CW!
>   ^^^^^^^^^^^^^^^^

You mean there is some other HF mode?????????????????????? 8-)

****
wo0e@sky.net - Bill Lefler - Kansas City KS
Amateur Radio - WO0E (Dub-Yo-Zeree)
"There is mno milk without some manure."
****

---

902. FW: [APRSSIG:5173] Re: unproto

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 27 Sep 1996 14:51:05 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBAC83.50A674C0@gwyn.paccomm.com>
Rendered body type: text/plain

Bob Bruninga[SMTP:bruninga@nadn.navy.mil] said:

. This is just too much trouble on ARPS until we go to KISS mode...

Do you mean 'unless we go to KISS mode' or as you said it? If the former, when?

903. Docs vs Restrictions

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Fri, 27 Sep 1996 11:54:22 -0800
To: aprssig@tapr.org
Message-ID: <199609271852.LAA08108@guilder.ucdavis.edu>
Rendered body type: text/plain

Hi all,

While I agree that putting some restrictions in the unregistered version of APRS would probably be a good idea, there are a few things to consider. Not the least is that many versions are already released which have no restrictions. Second, while it might prompt some to register it won't necessarily "make them learn" or force them to care.

At the least, making APRS documentation as easily available as possible, and as clear and easy to understand as possible would allow those who do care to "get with it" as quickly and completely as they can. I find "learning" about systems like APRS is one of the things I enjoy about amateur radio. It is satisfying to me to be able to visualize what is going on in the net. APRS is particularly nice from this standpoint.

MAJOR POINT: more and more Mac APRS and Win APRS users are coming on the system. Few to none of these are going to figure out right off the bat that they need to download APRS77 and keep the docs and throw away the rest. Without this material one is really crippled no matter what one's desire to "do things right". So I really hope Keith Sproul will include the DOS docs (the ones that are general) with both his programs. Also, a "docs only" file would make it a lot easier for those already on the system to get the information they need to become competent.

Don't get me wrong, I've been in technical enterprises all my life and I know that there will always be poeple who don't really care and screw things up. What can be done about that I haven't yet figured out (probably nothing). My point is that lets not make it hard for those who do care to do right. It's very easy to forget what it was like to have no idea what a UI frame is or what UNPROTO means etc. Most newbies have no such knowledge.

Well, I've got the docs I need now, and I've already emailed them to another Mac user who asked if I could save him the trouble of downloading a meg of DOS .exe files to get them. I'm just a user though and don't have the time or resources to distribute this stuff. Hope you guys do.

John Lakeland kc6vlr

904. APRSKY

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 27 Sep 1996 14:20:09 -0500
To: "aprssig taprorg" <aprssig@tapr.org>
Message-ID: <199609271920.OAA14596@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Talk about a need for the APRS SKYWARN. Yesterday we had the kind of storms that you don't want! Tornado and Flash Floods!

Just before 7 am our voice repeater blew it top and there was a need for the SKYWARN net in less than an hour! Fortunately, we had another repeater available to us locally, but it was not connected to the state skywarn net (which has failed anyway). Our local SKYWARN net went into effect at 7:14 am and ran until 4 pm. At 7:43 a tornado was sighted. It took over 30 minutes to get the information through the NWS in LR and back out over "regular" channels. By that time the storm had passed our area and was touched down close to a heavily populated area. Then came the rains. Flooding insued and at least one vehicle was caught and washed down a town branch!

During all this the APRS net was quitely and efficiently being used in the local area. The information as it was happening was being entered by another station and bulletins were being issued as well. What was the NWS doing at that time? They were tied up with un-ending squelch tails from the multiple linked repeaters that totally disrupted the SkyWarn voice net and was of no use! Had we had an APRS SKYWARN Net available and in place, the information would have been distributed and equally importantly reported on time and in a timely manner.

It is ever more clear that there is a need, at least here, for a packet based SKYWARN Net. I hope that this issue will be followed through in the future as "improvements" to APRS and its many uses.

Is there a future for the APRSKY? You bet! During my trip to NY I met with several hams that expressed an interest in the idea. Unfortunately, most were not users of the internet or this group. That will only take time. One thing that kept coming up was the need for a national conference on APRS and it's many uses. Dayton was mentioned on several occations but with reservation as there didn't seem to be enough focus on the issues. Or enough time for that matter. "Everyone goes to Dayton to visit and look at the new stuff" was repeated over and over. Maybe there should be a more detailed agenda planned or planning for longer meetings.

Anyhoo, this is yet another atempt to bring SKYWARN to the forefront and see what happens. I want to thank all those who participated in the previous discussions and for the direct e-mail. I also want to appologize for the bandwidth to those who don't care about this issue. And to those I missed on the trip, well..... maybe next time!

73

J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *

---

905. Re: [APRSSIG:5175] APRS TNC on a chip

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 27 Sep 1996 16:03:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199609272003.QAA13669@smtp1.erols.com>
Rendered body type: text/plain

>APRSdos REPLY/COMMENT: The APRS TNC on a chip called the MIM is being
>prepared to operate as a complete APRS DIGI. We will let you konw when it
>is ready...

I've seen mention of this MIM TNC on a chip, but no particulars. I'm new to this stuff so maybe I've missed it. What is it, where is it and how much is it? I guess that just about covers it.

N3AGG
JWK

---

906. Re: HF STATIONS HEARD IN NE OHIO.

From: n8chb@juno.com (Roger Breckon)
Date: Fri, 27 Sep 1996 19:59:11 PST
To: aprssig@tapr.org
Message-ID: <19960927.195915.7406.0.n8chb@juno.com>
Rendered body type: text/plain

Hello Dave NH6BA,

If you want to see the tables turned just check into the Hawaii /
Cal net any evening
on 20 mtrs. Your area is often 59 + 10 and with a 3 el mono I can hardly
hear the
zillion others (usually 40 or more hi) stations pointed your way.

Ever feel like you'r trapped on an Ill dave?
well your feelings are not lie-in to you. You R.......

Have fun wit aprs and send some RF to the east sometime.

73

Roger n8chb somewhere in Michigan.

---

907. Re: [APRSSIG:5159] Baycom as a Wide Digi?

From: rwf <rwf@mindspring.com>
Date: Fri, 27 Sep 1996 16:16:41 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960927201641.006c8214@atl.mindspring.com>
Rendered body type: text/plain

I don't know for sure 0if it can even digi, but if it could, you would have to tie up a PC. A PC costs about 130.00 per year to run (so I have heard). I own a Baycom, and used it twice. Then I got a real TNC so it could work when the PC was off.

Remember a Baycom is a MODEM only. It has no smarts. IT *must* have a PC
attached, running the proper software!

Ralph

At 08:04 AM 9/27/96 -0500, you wrote:
>I know APRS can't use Baycom modems directly, but has anyone tried
>to use one as a digipeater?

---

908. Re: [APRSSIG:5179] Docs vs Restrictions

From: William Nolle <wa8inz@cris.com>
Date: Fri, 27 Sep 1996 15:22:01 -0700
To: aprssig@tapr.org
Message-ID: <324C5389.6FA@cris.com>
Rendered body type: text/plain

```
John Lakeland wrote:
>
> Hi all,
>      While I agree that putting some restrictions in the unregistered
> version of APRS would probably be a good idea, there are a few things to
> consider. Not the least is that many versions are already released which
> have no restrictions. Second, while it might prompt some to register it
> won't necessarily "make them learn" or force them to care.
> John Lakeland kc6vlr

--------- snip ---------

That was not the idea the forcing users to register. You are missing the point
totally!. When a group of new users get on the area system and use path's that
create a total mess, and then as a long time user like myself ask (In a
friendly way) to read the OPS.TXT in order to use the correct path when
keyboarding with another users that's only 10 miles away (With a digi between
them yet) and those people get hostile and send me messages to stick it!, then
no documentation or being a Mentor would ever help those people. Fellows i
live in the real world not one of where everything is perfect like some of you
seem to be living in.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

909. Re: [APRSSIG:5181] Re: APRS TNC on a chip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 16:43:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927164256.6537H-100000@arctic>
Rendered body type: text/plain

On Fri, 27 Sep 1996, John W. Kozak wrote:

> I've seen mention of this MIM TNC on a chip, but no particulars. I'm new to
> this stuff so maybe I've missed it. What is it, where is it and how much is
> it? I guess that just about covers it.

APRSdos REPLY/COMMENT: See TELEMTRY.txt and VOX-APRS.txt in the README
directory of your copy of APRS.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

910. Re: [APRSSIG:5172] FW: Baycom as a Wide Digi?

From: Barbara Fehner <fehner@cts.com>
Date: Fri, 27 Sep 1996 13:51:35 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960927205135.006cee08@mail.cts.com>
Rendered body type: text/plain

Don't forget Digicom, the original software TNC. It can operate as both a digipeater and a KA type node. It also has the ability to operate from an external ROM which eliminates the need for a disk drive and also can be remote controlled. C64 and C128 computers are almost free for the taking. I use a C128 as a spare packet station here.

Barbara KK6IB
E-Mail: fehner@cts.com

At 10:45 AM 9/27/96 -0500, you wrote:
> Richard L. Holbert[SMTP:holbert@arinc.com] said on Friday, September 27,
>1996 4:04 AM
>
>>I know APRS can't use Baycom modems directly, but has anyone tried
>>to use one as a digipeater? The current Dayton Wide consists of a
>>dedicated "klunker" computer running APRS and a TNC. By switching to
>>Baycom I could free up the TNC for some other projects.
>
>
>The Baycom should work fine as a normal digipeater. Its your choice - a
>computer and a baycom or a stand-alone TNC. Guess it depends on what you
>have excess of.
>

911. Calif HF Gateway stations

From: bbliss@juno.com (William B. Bliss)
Date: Fri, 27 Sep 1996 17:23:06 EDT
To: wb4apr@amsat.org
Cc: aprssig@tapr.org
Message-ID: <19960927.142142.2287.0.bbliss@juno.com>
Rendered body type: text/plain

Hi Bob,   Filed: 271930GMT
SEP 96
Here info you requested. Sent a local Pkt msg for info, two out of state answers, none fm local area, . So here is dope as best I can figure, and in format for APRS GATES.BK file, I hope

```
p,WB6LPG      271827 !******/3727.27N/12226.29W&BAY AREA HF GATEWAY STA
p,W7KKE        271827 !******/3733.92N/12215.24W&30/40M OCASSIONALLY
p,WB6OVH      271828 !******/3838.03N/12116.82W&7085/LSB OCASSIONALLY
p,KO6JR          271829 !******/3759.23N/12205.13W@7085/LSB OCASSIONALLY
p,KB6LFM      271830 !******/3743.29N/12210.53W&30M/10151/LSB FREQUENTLY
p,AC6JA          271831 !******/3733.26N/12216.87W&30M/40M OCASSIONALY
p,KB6JC          271832 !******/3919.50N/12011.00W&30M ON OCCASIONS
p,WD6BKB      271833 !******/3806.78N/12236.35W& OCASSIONALY
p,KI6MP         271834 !******/3251.50N/11712.50W& 30M CONTINUOUSLY
```

Others in the Western states, and on HF/30M.

```
p,KB0MQQ     271153 @271852z3944.75N/10504.42W& Denver Gate
parttime.Lloyd
p,N0JVH        271203 !******/3902.32N/10444.23W& Jeff, Black Forest, CO.
p,KC7DRX      271107 @271807z4735.08N/12238.12W-PACNWEST/WEST PUGET SOUND
p,K7ZTM        271202 !******/4103.48N/11156.33W& Pete, Layton, UT.
p,KC7CO         271203 !******/4031.87N/11150.95W& Doug, Sandy, UT.
p,AA5PK       271204 !******/3125.07N/10029.04W& HF GATEway, San Angelo,
TX.
```

New Northern Calif Digis, on 145.01...

```
p,KC7LAS-3   271204 !******/3930.70N/11947.07W# APRS DIGI, Reno, NV.
p,KC7RSX-3   271205 !******/3646.87N/11942.33W# WIDE DIGI, Fresno, CA
<RKE>
```

Bob, sent on packet, then rememberd the may not pass on to you. Havin pblms with line length this Juno net, so may get extra lfcr out on end of line , sorry cain't figure it out.

73's & Enjoy, Bill/WB6LPG <wbliss@coastside.net><bbliss@juno.com>
/EX

NNNN

912. Re: [APRSSIG:5160] Re: HF STATIONS HEARD IN NE OHIO.

From: kb6lfm@ix.netcom.com
Date: Fri, 27 Sep 1996 14:35:31 -0700

To: Dave Creek <dcreek@pixi.com>
Cc: aprssig@tapr.org
Message-ID: <324C48A3.47D9@ix.netcom.com>
Rendered body type: text/plain

```
Dave Creek wrote:
>
> > > Hello Tom. Bill here in San Francisco. The HF GATEWAY here is a
> > TS-450s/AT, KAM+ and a 2 element Quad at 50'. Generally speaking, an
> > omni-directional antenna would be the preferred, but having the Pacific
> > Ocean as my neighbor, wouldn't make "propagating"  to the west a very
> > good idea. I do track some M/M's at times such as the "TransPac-96"
> > sailboat race that started 16 Solo Sailboats on a voyage/race from San
> > Francisco to Hawaii. perhaps you caught it. The "Baja Ha Ha!" S/V race
> > will start in San Diego on October 28th. and will end in Cabo Saint Lucas
> >  Mexico. So, as you can see there are some advantages to having a
> > directional HF antenna for APRS. I'll be looking for your "icon" on my
> > screen Tom!
> >
> > 73 de Bill (Radio Flyer) KB6LFM
> > APRS M/M GATEWAY Station in San Francisco.
>
> Hello Bill, Dave here on Oahu. I guess we APRS users here in Hawaii really
> don't NEED to see what's going on on the mainland. It isn't like any
> mainland mobiles are going to be driving out our way.
> We run into the same problems during field day and other contests, it's
> hard to communicate when talking to the back of all the beams in '6'land.
> As a San Franciscan born and raised, I used to think that we had a more
> worldly view than this.
> In 1993 while visiting my sister in Woodland, I had my 2 meter HT with me.
> Many times on the Sacramento Valley repeater system I was asked what kind
> of strange call I had. I was even accused of being a bootlegger! <SIGH>
> It's tough being an Old Fart Ham.
>
> Dave Creek, NH6BA
> Ewa Beach, HI
> dcreek@pixi.com


Nice try Dave!

Subject was/is "HF STATIONS HEARD IN NE OHIO" The only comments that I
can make to your "un-solicited" input is, You said in your first sentence
" We APRS users here in Hawaii".

You mean to say that there are two of you now??

Dave, if you are up to addressing the issues regarding the lack of
interest in APRS in KH6, or the absence of HF gateways to KH6 and the
rest of the world, I would love to see some "constructive" ideas or
proposals. This SIG (in my humble opinion) needs to address these issues.
after all, if we don't who will? When KH6 needs a HF GATEWAY STATION here
on the West Coast... I volunteer.!

GL es 73 Dave. de Bill  KB6LFM
```

---

913. DF Registration?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 27 Sep 1996 19:26:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960927192342.14680B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
I've just upgraded from 7.5 to 7.7b.

I've plugged in my APRS registration number.
I've plugged in my WX registration number.

I still have a DF registration number, but APRS has not yet asked me for it.
Where does it go in this version? (I run two APRS stns, one a WX the
other normal)

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

914. Re: APRS/AMSAT VHF FREQ

From: Miles Mann/PicTel <Miles_Mann@smtpnotes.pictel.com>
Date: 27 Sep 96 19:38:02 EDT
To: Bob Bruninga <bruninga@nadn.navy.mil>

Cc: aprssig <aprssig@tapr.org>, amsat-bb <amsat-bb@amsat.org>
Message-ID: <9609272340.AA20841@smtpnotes.pictel.com>
Rendered body type: text/plain

The Satellite Sub band will still be used by satellites.
Including Mir and the ISS.
There will be multiple channels set aside for Mir and ISS Satellite uplinks
between 144.300 and 144.500
channel 1 144.350 World wide uplink
 2 144.400 worldwide uplink
 3 144.450 worldwide uplink
 4 144.490 Uplink for Europe

down link channels for FM Ax.25 1200 baud packet
will be between 145.800-840 and 145.550

FM Sattelite operations requires a minimum of a 30k channel.
The move to 145.800 or 145.810 cannot take place until
APRS and all digi repeaters on 145.790 move south.

All freqs, below 144.500 should be considered "Weak Signal"
and no terrestrial repeater operations of any type should be allowed.
G. Miles Mann WF1F

To: aprssig @ tapr.org @ smtp
cc: amsat-bb @ amsat.org @ smtp
From: bruninga @ nadn.navy.mil (Bob Bruninga) @ smtp
Date: 09/27/96 11:15:44 AM
Subject: Re: APRS/AMSAT VHF FREQ

On Thu, 26 Sep 1996, William B. Bliss wrote:

>   Following rumor just received from our local NCPA President,
> (Northern Calif Packet Assoc.) and forwarding to sig for info:
>
> ... AMSAT no longer needs their 144.3-144.5 satellite segment. ...
> the plan is for the NCPA to allocate it for digital use. The information
> is coming from the NFCC (National Frequency Coordinator's Council)...
>
> Now, as a representative on the NCPA board, I wanted to give you the
> opportunity to discuss the following comment from one of the NFCC vips:
>
> >From: WhitBrown@aol.com
> >
> >I suggest that this might be an excellent opportunity to ask the APRS
> >troops to consider QSY'ing from 145.79 to somewhere in the vacated
> >144.3-144.5 segment, perhaps 144.49 (or even .47 or .48)?.

COMMENT: Well, I sure hate to see AMSAT give that up. I thought that was
used for MIR and SHUTTLE uplinks and scheduled QSO's! Especially in light
of the impossibility of finding other worldwide SATELLITE channels. I
personally think that we are only beginning to see the vast potential for
mobile vehicle, boats RV's use of GPS and APRS for remote vehicle
tracking and communications. Since 30 watts into an FM rig with only a
lightly modiifed TNC will give you a very good uplink to an amateur
PACSAT. I would hope that one channel in that band would be dedicated
to APRS/GPS position/status report uplinks from mobiles worldwide!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

915. Follow-up on MindSpring & PSINet Pipeline

From: w4wwq@juno.com (Peter J Lascell)
Date: Fri, 27 Sep 1996 17:23:48 PST
To: aprssig@tapr.org
Message-ID: <19960927.172649.5463.0.W4WWQ@juno.com>
Rendered body type: text/plain

I posted to the SIG a bit over a week ago (APRSSIG:4800)regarding issues
with subject Internet providers. Since I had sent the original SIG
message there have been a number of comments received.   Each was
interested in how their provider responds to someone else's problems.

 Here is what has happened.

MindSpring has responded quickly, by two people in their organization,
stating that I will not be given an account automatically (because I

said I didn't want it). Great!

Now the rub is on the other foot. I have to deal with
Billing@pipeline.com to get the charges dropped. That seems doable.
Two messages to them have gone unanswered even though follow-up contacts
at MindSpring (the new owner of Pipeline) say I should expect a response
from Pipeline, BUT, they are not able to (I read that as "will not")
intercede on my behalf.

I am waiting to see who is first to respond now, my credit card company
or Pipeline.

I want to get on with Ham Radio, APRS and nice fall weather, but this
little stuff keeps taking the fun out of it.

Pete W4WWQ

---

916. Re: [APRSSIG:5189] DF Registration?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Sep 1996 23:09:28 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960927230851.25482B-100000@arctic>
Rendered body type: text/plain

On Fri, 27 Sep 1996, Richard Amirault wrote:

> I've just upgraded from 7.5 to 7.7b.
>
> I still have a DF registration number, but APRS has not yet asked me for it.

APRSdos REPLY/COMMENT: It wont ask for it until you configure for a DF
unit.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

917. Re: [APRSSIG:5191] Follow-up on MindSpring & PSINet Pipeline

From: james-m@ix7.ix.netcom.com
Date: Fri, 27 Sep 1996 23:32:36 -5
To: aprssig@tapr.org
Message-ID: <199609280332.UAA12742@dfw-ix7.ix.netcom.com>
Rendered body type: text/plain

I have a question for the rest of the members in this sig..

How many of you honestly give a damn about this dumbasses problems
with internet access??

I know I don't, and think it is a waste of everyone's time to have to
read thru this crap.. It wasn't on topic the first time around and
sure as hell isn't this time around..

Take it somewhere else please..

Jeesh, I shouldn't go off like this, but these dumbasses are
sometimes more than a sane man can take..

---

918. Re: [APRSSIG:5114] APRS / PCMCIA Serial I/O Adapter Pr

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 27 Sep 1996 22:48:02 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609280348.WAA20990@tapr.org>
Rendered body type: text/plain

```
>
>>Date: Wed, 25 Sep 1996 18:41:53 -0700
>>To: APRSSIG
>>From: Mail Delivery Subsystem <MAILER-DAEMON@primenet.com> (by way of "Alan
>K. Unangst" <alanwc7r@mailhost.primenet.com>)
>>Subject: APRS / PCMCIA Serial I/O Adapter Problem
>>
>>
>>Well here is a new problem. The IBM Thinkpad working under Windows95 will
>>not let me move the Mwave modem to any other interrupt other than 03 or 04.
>>My Com 1 is on 04 and the Mwave,on Com 2, is on 03. APRS will allow only
>>come 1 or 2 intrusts be used. I understand that it is a DOS protocol (from
>Bob).
>>
```

>>The PCMCIA I/O adapter is assigning 09 to the PCMCIA serial adapter, on Com 3.
>>
>>The question is, obviously, how do I get it to work. Four + hours on the
>>phone with IBM and 1 + hour on the phone with Socket (I/O manufacturer)
>>yielded no results.
>>

First thought, can you change the modem port by hardware, telling it it's on
com3 or 4? Have you contacted Mwave? How "new" is it? Can you get a dealer
to help you?

Is there a reason you need it moved? The cardwiz or cardsoft software that
comes with modem PCMCIA cards will handle ID'ing other ports. Other than "it
came with it", can you remove the modem from the thinkpad? Do you want to do
this?

I have a PCMCIA serial card in my laptop and had to disable the external
mouse port in order to get the right IRQ. I now have the PCMCIA card working.

I ask these questions not in needing an answer, just to give you question
that may lead you in a direction to find your solution.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
kb9lbu@juno.com
E-Mail Work: rsellers@snds.com

---

919. Re: [APRSSIG:5146] Elmers and Unprotos

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 27 Sep 1996 22:48:58 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609280348.WAA21186@tapr.org>
Rendered body type: text/plain

>
>Once again this SIG has yielded quite a thread, of part of a thread, of
>a bit of a thread. If memory suits me (and it usually doesn't) the
>original question concerning UNPROTO was some absurd GATE,WIDE,WIDE,WIDE
>combination.
>

...... snip...

>
>Once again I bring up one simple fact. It is up to those involved and
>concerned with the well-being, and future of APRS, (let's not throw this
>to the authors) to take strides in "Elmering" those thought of as lids.
>All things must be considered in your own little corner of the globe: 1.
>Frequency, 2. Accepted UNPROTOs, and 3. SKYWARN vs. Keyboarding vs.
>staring at the screen, afraid to touch that dial and tick someone off.
>
>
>Shields are up... Flame away if you must.
>
>73 de N3KAE
>
>

Most of us that know a bit of something or another here started from
nothing. Personally I remember how frustration it is. Unlike others, my
expirience is less than 8 months with APRS. I learned enough to get my
station up, then proceeded to be a pain in the A.. till I either found
someone who was able to answer my question or figured it out.
We have a number of VERY KNOWLEDGABLE people monitoring the SIG. Since
most of us here lead real lives in our spare time, we don't always have the
time to answer some questions that are within our abilities to answer. We
leave it up to someone else sometimes(guilty here). Bob Bruninga, the
Sprouls, and some others do an OUTSTANDING job answering questions, but they
don't have the time to answer them all. So we are trying to do what we can.
I praise those people who take the time to answer for the 43,000th time
what a path or unproto is. But sometimes the "Newbies" have to take a bull
by the horns and read the documentation, or find the SIG in digest mode and
read it first.
I can't beleive the people here would purposely shun someone, but we're
only human and only have so much time. I've watched the sig grow in daily
message volume over the last several months to well in excess of 30-40
messages a day. That's a to keep up with. There are some threads I have to
delete because I am not interested at this time in a particular aspect of
APRS or just dont have the time to read. I assume there are others that do
this as well. It's just the only way I can keep my e-mail time to a minimum

and get back to other stuff.

So to those "newbies" who's questions go unanswered or just slip through the cracks, I can only say don't get too upset. There are LOTS of people monitoring this SIG and I can only assume it will get larger. We try to keep the wasted bandwidth down, but...   very few of us also have the time to take you by the hand so to speak via long distance. Once you get your APRS station up, see who locally is available and use APRS' messaging capabilities to find a local mentor as well.

In my county, we have very few people running APRS, this makes it tough for me as well. Even though NIAN is in my neighborhood, so to speak, I really can't and don't expect any NIAN member to drive 40-60 miles to my house to give me first hand tutoring. This has it's drawbacks as well, for my supporting NIAn from where I live. Sometimes they don't deal with that well. But the fact of the matter is, we're all learning and are doing what we can to help others here and locally.

Have patience and don't assume your being ignored just because you dont get an answer the first time you ask for help.

As I climb off the soapbox, send all flames to me at stupid@email.com

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com

---

920. Re: [APRSSIG:5179] Docs vs Restrictions

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 27 Sep 1996 22:49:29 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609280349.WAA21211@tapr.org>
Rendered body type: text/plain

>
>Hi all,
>   While I agree that putting some restrictions in the unregistered
>version of APRS would probably be a good idea, there are a few things to
>consider. Not the least is that many versions are already released which
>have no restrictions. Second, while it might prompt some to register it
>won't necessarily "make them learn" or force them to care.

Most people wont read documentation till they have absolutely no other alternative and the developer tells them for the 5th time to read such and such file.

>   MAJOR POINT: more and more Mac APRS and Win APRS users are coming on
>the system. Few to none of these are going to figure out right off the bat
>that they need to download APRS77 and keep the docs and throw away the
>rest. Without this material one is really crippled no matter what one's
>desire to "do things right". So I really hope Keith Sproul will include the
>DOS docs (the ones that are general) with both his programs. Also, a "docs
>only" file would make it a lot easier for those already on the system to
>get the information they need to become competent.
...snip...
>   Well, I've got the docs I need now, and I've already emailed them to
>another Mac user who asked if I could save him the trouble of downloading a
>meg of DOS .exe files to get them. I'm just a user though and don't have
>the time or resources to distribute this stuff. Hope you guys do.
>

This has been a sore spot with me on the WinAPRS program as well. The Sprouls are doing pretty good in the progression of adding and making features work with WinAPRS. Unfortunately they have been lax in the documentaion dept. They say they just don't have the time and all the features arent there so they would end up rewritting the docs. But, with the interst in the WinAPRS version since Dayton and all the new members I see here, there are just too many WinAPRS users asking questions that could and should be including in documetation.

I don't say this as taking a poke at the Sproul's, its just getting to be a fact. They are at a point with the program, and some many new users are coming online, that you just cant assume the user knows how to set it up and get it running right. There needs to be some better documetation for the WinAPRS version. It's rediculous to the a WinAPRS user to download DOSAPRS version just to get the documentation to figure out how to use the Windows version. Their primary concern is in getting the program going and doing the small stuff later. Well, maybe its time to deal with the small stuff because its starting to create big noises.

I have expressed this to Keith in the past, it's up to others to do so if they feel real strongly about it. But in the mean time... do what you can with what you've been give (I better duck after having said that one).

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com

921. Re: [APRSSIG:5180] APRSKY

From: rsellers@firecraker.com (Roger Sellers)
Date: Fri, 27 Sep 1996 22:50:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199609280350.WAA21230@tapr.org>
Rendered body type: text/plain

>
>Talk about a need for the APRS SKYWARN. Yesterday we had the kind of
>storms that you don't want! Tornado and Flash Floods!
>
>Just before 7 am our voice repeater blew it top and there was a need for
>the SKYWARN net in less than an hour! Fortunately, we had another repeater
>available to us locally, but it was not connected to the state skywarn net
>(which has failed anyway). Our local SKYWARN net went into effect at 7:14
>am and ran until 4 pm. At 7:43 a tornado was sighted. It took over 30
>minutes to get the information through the NWS in LR and back out over
>"regular" channels. By that time the storm had passed our area and was
>touched down close to a heavily populated area. Then came the rains.
>Flooding insued and at least one vehicle was caught and washed down a town
>branch!
>
>During all this the APRS net was quitely and efficiently being used in the
>local area. The information as it was happening was being entered by
>another station and bulletins were being issued as well. What was the NWS
>doing at that time? They were tied up with un-ending squelch tails from
>the multiple linked repeaters that totally disrupted the SkyWarn voice net
>and was of no use! Had we had an APRS SKYWARN Net available and in place,
>the information would have been distributed and equally importantly
>reported on time and in a timely manner.
>
>It is ever more clear that there is a need, at least here, for a packet
>based SKYWARN Net. I hope that this issue will be followed through in the
>future as "improvements" to APRS and its many uses.
>
>Is there a future for the APRSKY? You bet! During my trip to NY I met with
>several hams that expressed an interest in the idea. Unfortunately, most
>were not users of the internet or this group. That will only take time.
>One thing that kept coming up was the need for a national conference on
>APRS and it's many uses. Dayton was mentioned on several occations but
>with reservation as there didn't seem to be enough focus on the issues. Or
>enough time for that matter. "Everyone goes to Dayton to visit and look at
>the new stuff" was repeated over and over. Maybe there should be a more
>detailed agenda planned or planning for longer meetings.
>
>Anyhoo, this is yet another atempt to bring SKYWARN to the forefront and
>see what happens. I want to thank all those who participated in the
>previous discussions and for the direct e-mail. I also want to appologize
>for the bandwidth to those who don't care about this issue. And to those I
>missed on the trip, well..... maybe next time!
>
>73
>---
>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>* ARRL * ARES EC * RACES * NAARS, Inc. *
>* MVFD/EMS FR * CCL #426 *
>
>

I'd have sent this directly to you and not used bandwidth except you dont have a return email address in your signature and I dont see your real address via my mailer. Sorry all.....

I can sympathise for your situation. Try dealing with a SKYWARN that seems to run things bassackwards and doesnt want to use "real trained and expirienced" spotters and wont even concider interjecting technology during a call out. It took them 2 years to think of turning on a TV in the office that was already wired to cable, and turn it on to the weather channel to see whats on radar.

They've told expirience spotters to leave and are not doing proper training for the current spotters. The "special" training they got at this month's meeting was on hazardous materials handling.. DUH.... The NWS all but entirely disreguards their reports. Now mind you, since my town is west of Chicago in tornado alley, you can see how usefull this group of guys are. Listening to the SKYWARN NET is a hoot. Once a guy was told to "KEY the mic a couple times" if the could hear net control because they couldnt hear his voice. He was less than 5 miles from the repeater. Lookout Chicago..... we're here to help you!

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com

---

922. Two Chip GPS Reciever

From: Todd Erickson <z008876b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 28 Sep 1996 00:02:07 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9609272340.A20398-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I was reading in EE Times that SiRF Technology Inc has come out with a two chip GPS reciever system that receives the data from the satellites and outputs the data in a microcontroller ready format. This chip set apparently has a whole 1.5 GHz spread spectrum reciever that has a high gain front end and can lock on the birds in 100 milliseconds and outputs the data in a microcontroller ready format. It can also decode 12 satellites at the same time and make certain on-the-fly error corrections.

Just wait until some OEM starts using this chip set. Imagine the cost advantages and other possibilities it will lend to us!

KA4RTK
Todd Erickson
z008876b@bcfreenet.seflin.lib.fl.us

---

923. Re: [APRSSIG:5193] Re: Follow-up on MindSpring & PSINet Pipeline

From: William Nolle <wa8inz@cris.com>
Date: Fri, 27 Sep 1996 23:26:17 -0700
To: aprssig@tapr.org
Message-ID: <324CC509.15A@cris.com>
Rendered body type: text/plain

james-m@ix7.ix.netcom.com wrote:

> I have a question for the rest of the members in this sig..
>
> How many of you honestly give a damn about this dumbasses problems
> with internet access??
>
> I know I don't, and think it is a waste of everyone's time to have to
> read thru this crap.. It wasn't on topic the first time around and
> sure as hell isn't this time around..
>
> Take it somewhere else please..
>
> Jeesh, I shouldn't go off like this, but these dumbasses are
> sometimes more than a sane man can take..

But in reality what makes his different from yours, in fact even mine.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

---

924. Re: [APRSSIG:5110] Re: page and ????please

From: etjm@ECUA.NET.ec (Teodoro Jaramillo)
Date: Sat, 28 Sep 1996 09:28:35 -0500
To: aprssig@tapr.org
Message-ID: <9609281521.AA39698@ecua.net.ec>
Rendered body type: text/plain

```
Thanks a lot  I will try to acces to the  new   address and
looking forward to seing LIVE  APRS IN AN NEW ENVIROMENT
 which  certainly I do not have at this end.. of  Equatorial
location...... thanks  BOB and all...

TED  HC5K


>Good evening BOb and all....
>
>I also checked into  attempting to see APRS LIVE on youpage but .. got all
>hanged-up for not having the proper  SOFT... JAVA.. SO
>THE SIMPLE QUESTION  now  how where and  do I get the proper
>soft required... and  should  make me able to link up and
>see your page and I assume many others which require  the JAVA
>WHICH IS NEW TO ME...( NEWBIE)
>any help  .. thanks a lot.
>
>TED   HC5K
>ECUADOR S.A.
>
>
>
>>On Wed, 25 Sep 1996, James Kerns wrote:
>>
>>> Snip ::   Bob I connected to WWW below and get the USNA but can't any APRS
>>> or you on the page, whjats it under??
>>>
>>> >See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>>
>>APRSdos REPLY/COMMENT:  THat page listed above and below should do it.
>>
>>Reply mail addr:  wb4apr@amsat.org
>>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>>
>>
>>
>
>
>
```

---

925. Re: [APRSSIG:5199] Re: Follow-up on MindSpring & PSINet Pipeline

From: Bob Lorenzini <hwm@netcom.com>
Date: Sat, 28 Sep 1996 10:47:30 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.960928103649.85A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
On Fri, 27 Sep 1996, William Nolle wrote:

> james-m@ix7.ix.netcom.com wrote:
> >
> > I have a question for the rest of the members in this sig..
> >
> > How many of you honestly give a damn about this dumbasses problems
> > with internet access??

stuff deleted ....

>
> But in reality what makes his different from yours, in fact even mine.
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^



  The difference is Bill, that hopefully James message will show the
offender the error of his ways. :-)

Bob - wd6dod
```

---

926. (no subject)

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sat, 28 Sep 1996 10:47:26 -0800
To: aprssig@tapr.org

Message-ID: <199609281745.KAA13050@guilder.ucdavis.edu>
Rendered body type: text/plain

Hi all,

snip
"and those people get hostile and send me messages to stick it!, then no documentation or being a Mentor would ever help those people."
snip

Actually I didn't miss the point. I wrote....

"Don't get me wrong, I've been in technical enterprises all my life and I know that there will always be poeple who don't really care and screw things up."

I'm making a different point. SOME of us, and notably the ones using Mac APRS and Win APRS are having difficulty getting the information we need so as to not screw things up. I'm suggesting that the DOS docs be distributed with these softwares. I'm also suggesting that the "docs only" be made available in a separate file named something like APRSDOCS.ZIP. The reason is that I in my search for information would have downloaded such a file years ago if I'd ever seen one. It took me all this time to figure out that the docs are only in a file which includes the total DOS software.

While this may seem kind of obvious to some of you, it is not obvious to us newbies. Have any of you DOS guys downloaded Mac APRS to see what kind of doc files might be included that might be useful? If you have you're more dilligent than me. Just trying to be helpful here, hope I'm not offending anyone with my suggestions.

John Lakeland kc6vlr

---

927. PCMCIA Serial I/O - THE ANSWER !!!!

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 28 Sep 1996 12:01:19 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960928190119.00676264@mailhost.primenet.com>
Rendered body type: text/plain

First, let me thank all of you who answered my call for help. Each of you had a piece of the puzzle, and with IBM's help I was able to put it all together. I am posting the "Answer" in the hopes that it will help others with similar problems.

Problem Recap: To have an IBM Thinkpad 760, running under Windows95, recognize a PCMCIA Serial I/O Adapter as com 1 or 2 (Com 2 has the Mwave modem) so that APRS can be run in the dual port mode with Wx or GPS.

The Answer: Go into the Profiles section in system properties and create an additional profile. First COPY the EXISTING profile naming it whatever you want. Now you will have two (2) profiles, the original and it's copy. Restart the computer, a screen will appear asking which profile that you want to load, load the COPY. When it is loaded, go back to system profiles and disable the Mwave (any) modem. save and restart the computer, the same screen questioning which profile you want will come up, chose the one with the modem disabled, and after booting insert your I/O adapter, it should now be on Com 2.

I hope that I have explained this sufficiently so that the process makes sense. I have tried it and it works beautifully.

There is NO NEED to do this for WinAPRS, as the Sproul's program will allow you to choose whatever com port you want, in my case Com 3 IRQ 09, which is where the I/O adapter is assigned automatically after being inserted and recolonized (in "standard" mode). I understand that this is a windows allowable protocol, where DOS (APRS) only allows IRQs 03 & 04. For a better answer, if you really want one, you'll have to check with Bob, Mark. or Keith, or any other Computer programmer wiz (Which I, obviously, am not).

Again, thanks to all who came to the rescue, I appreciated it. I hope that this explanation is helpful. Hope to see you on the map now that signals are getting better!!!

73, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

928. Graying WX stations.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 28 Sep 1996 15:55:43 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960928155408.11121A-100000@arctic>
Rendered body type: text/plain

```
On Fri, 27 Sep 1996, Paul S. Malarik wrote:

> Hi Bob; as per your request for info I can confirm that 77b still greys out
> the home weather station.  The system runs as follows:
> PK232 ON COM1, DAVIS WEATHER MONITOR II ON COM 2

APRSdos REPLY/COMMENT:  I am getting conflicting data.  Some say it DO,
some say it DONT...  Anyone figure out the difference?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

929. Precision Mapping Problem?

From: n2czf@magg.net (Richard Garcia)
Date: Fri, 27 Sep 1996 20:05:39 -0400
To: aprssig@tapr.org
Message-ID: <199609282002.QAA18049@grumpy.magg.net>
Rendered body type: text/plain

```
I need some help from anyone using Precission Mapping with their GPS. A
couple of us at work have purchased this at work and we seem to have a
problem that depends on the GPS brand that we use.

I have a GARMIN with $GPRMC data output and it works fine, some quirks with
the comm port and some inaccurate data in the map locally but all in all a
heck of a lot better than Delorem map Expert! I also get no data in the sat.
bar graph window.

My co-workers have Magellan Meridians and they cannot get the program to
work. When they view the strings  under GPS Data Window they see the GGA and
GLL data but it does not plot, they DO not have $GPRMC. Does theis program
need RMC data to work properly ? If it does need RMC and does not work with
GGA or GLL then why does my RMC data not display any signal reports in the
sat. window at the left hand side of the page ? I was under the impression
that the RMC data did not have the information on signal levels that the
program needed to display it.

73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                (E-Mail)
http://www.magg.net/~n2czf                               (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

---

930. Re: [APRSSIG:5147] Re: APRS/AMSAT VHF FREQ

From: jwillis@vir.com (Joseph Willis)
Date: Sat, 28 Sep 1996 16:52:38 -0400
To: aprssig@tapr.org
Message-ID: <199609282050.QAA28074@Vir.com>
Rendered body type: text/plain

```
>The Canadian Boys APRS freq. is 144.390. Works fine up here..in Ontario..
>Hope this helps..:-)
>Chow for now et 73.....to all

We are operating 145.79  here in Montreal guys - maybe that's why I only see
US calls on, other than VE2's ...?
`````````````````
Joe Willis VE2CY
Email: jwillis@vir.com
Packet: ve2cy@ve2fkb
```

---

## 931. (no subject)

From: (unknown sender)
Date: (date unavailable)
Message-ID: <324D9554.14F2@usc.edu>
Rendered body type: text/plain

```
Date: Sat, 28 Sep 1996 14:15:00 -0700
From: Dick Mead <mead@usc.edu>
```
```

Organization: University of Southern California
X-Mailer: Mozilla 2.02 (Win95; I)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5205] Precision Mapping Problem?
References: <199609282002.QAA18049@grumpy.magg.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Richard Garcia wrote:
>
> I need some help from anyone using Precission Mapping with their GPS. A
> couple of us at work have purchased this at work and we seem to have a
> problem that depends on the GPS brand that we use.
>
> I have a GARMIN with $GPRMC data output and it works fine, some quirks with
> the comm port and some inaccurate data in the map locally but all in all a
> heck of a lot better than Delorem map Expert! I also get no data in the sat.
> bar graph window.
>
> My co-workers have Magellan Meridians and they cannot get the program to
> work. When they view the strings under GPS Data Window they see the GGA and
> GLL data but it does not plot, they DO not have $GPRMC. Does theis program
> need RMC data to work properly ? If it does need RMC and does not work with
> GGA or GLL then why does my RMC data not display any signal reports in the
> sat. window at the left hand side of the page ? I was under the impression
> that the RMC data did not have the information on signal levels that the
> program needed to display it.

Yes, as far as I have been able to determine, Prec Mapping GPS
NEEDS the RMC string to work.
Dick WB6NGC

---

932. DOS *.TXT FILES

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Sat, 28 Sep 1996 17:10:16
To: aprssig@tapr.org
Message-ID: <199609282210.SAA31751@mail-e2a.gnn.com>
Rendered body type: text/plain

For MAC and WIN users, I have transcribed ALL the aprs txt files to
a self-extracting zip file called "APRSTXT.EXE" It is 268,091 bytes
in size. I will send it to anyone that wants it for the cost of a
disk and postage, or if there is a way to post it on TAPR's ftp
site, (I don't know how to do that) then it will be available to
anyone, and Bob Burininga, I DO hope I have your authorization to
do this. 73 all, John - N5XAK...

---

933. Wx Problems in 7.7b?

From: Connie Hulst <chulst@polar.polarcomm.com>
Date: Sat, 28 Sep 1996 17:44:55 -0500
To: aprssig@tapr.org
Message-ID: <324DAA67.164C@polar.polarcomm.com>
Rendered body type: text/plain

I just joined the list. APRS 7.7b is not decoding U-2000 remote
packets correctly, and I heard that this might be a software
problem. Is this true? Any word on when the next version is coming?

73 de Nick Hulst, AA0VY

---

934. NEPA APRS

From: Al Zelna <ldajz@epix.net>
Date: Sat, 28 Sep 1996 13:30:18 -0700
To: aprssig@tapr.org
Cc: chimel@epix.net
Message-ID: <324D8ADA.7936@epix.net>
Rendered body type: text/plain

Howdy folks,

Some time ago I sent out a message to this SIG looking for the calls of
APRS WIDEs in WNY and ENY. I don't seem to recall getting any replies.
Does anyone know if there are any in or around Hamandsport, Ithaca,
Elmira, Binghamton, Utica, or Albany?

Depending on Sunday's weather, a few of us will be making an afternoon
trip to another mountain range near Scranton, PA to run a few tests. We
will be setting up a temporary APRS WIDE who's call should be either

```
WA3LWR OR KD3GG (SSID unknown).  The system will be running 25 watts
into a 13 element beam, on 145.79 MHz.

The goal of our mission:  Try to make contact with "the other side"
...which refers to the PA - NY state line.  We'll be swinging from 285
degrees over to 30 degrees in hope of being able to work a WIDE
directly.  If we are successful, an appropriate UNPROTO will be set, and
the digi may stay up for as much as a few weeks.

If anyone hears (sees) us, please send a message to our callsign.


73 de AL, N3KAE
```

---

935. Re: [APRSSIG:5206] Re: APRS/AMSAT VHF FREQ

From: rrtheri@ibm.net
Date: Sat, 28 Sep 1996 19:17:48 -0400
To: aprssig@tapr.org
Message-ID: <324DB21C.2216@ibm.net>
Rendered body type: text/plain

```
Good Evening Joe,

My name is reginald and live in Terrebonne Que.
In your message you mention that the APRS operating frequency
in Montreal is 145.790 MHZ.
A DIGI station has been in operation in Montreal for the last
2 years on 145.770MHZ on account of the fact that a BBS had
been on 145.790MHZ prior to the start of operation on APRS.
It is presently planned to go to 144.390MHZ in the near future
and possibly move to a different site with a much improved coverage.
Bob WA4APR is aware of that fact.
73 and hope to see your LAT/LONG position on APRS.
reginald ve2jv






Joseph Willis wrote:
>
> >The Canadian Boys APRS freq. is 144.390. Works fine up here..in Ontario..
> >Hope this helps..:-)
> >Chow for now et 73.....to all
>
> We are operating 145.79  here in Montreal guys - maybe that's why I only see
> US calls on, other than VE2's ...?
> ````````````````
> Joe Willis VE2CY
> Email: jwillis@vir.com
> Packet: ve2cy@ve2fkb
```

---

936. Docs -The fix-

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 28 Sep 1996 18:35:07 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae736b332b98@[199.1.11.140]>
Rendered body type: text/plain

```
>...SOME of us, and notably the ones
>using Mac APRS and Win APRS are having difficulty getting the information

Before the FTP site was reorganized it was a bit easier to get the docs.
Now each platform has a directory of its own.
We don't always look in the other areas.
I run all three version so I must look in all areas.

 >It took me all this time to figure out
>that the docs are only in a file which includes the total DOS software.

Almost correct: Bob puts three type of files on the Upload site:

1. Total latest APRS package.  (1 meg+ in size)
2. Updates of program and any revised docs or readme information (+400K)
3. Just the program.EXE file (+200k)

I am a MAC user and it is so easy to get the docs that PC only users
```

might think we were platform bragging again.

Just download and "drag and drop" on StuffIt Expander 401 and you
get a APRS folder all neatly laid out. There are only 6 or 7 .exe
to delete. (Use zipit of you don't have the Stuffit + program)

View by date to see if there are any new doc items to read.
I change the color of items in a new update download.

THIS doc problem is so easy to fix.

Bob, Keith and Mark are busy so lets let Bill upload a APRSdocs.zip
to the APRS,WINaprs,MACaprs areas. He can update the file when
Bob uploads a new version.

Bill can appoint a new documentation gofer when he get too busy.

John Gafford can help on this
 -when he learns how to upload to the APRSsig FTP site :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

937. Re: [APRSSIG:5164] Re: WinAPRS Can't load serial dlls msg

From: "Steven R. Bible" <srbible@gnatnet.net>
Date: Sat, 28 Sep 1996 20:34:33 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960929003433.006a58bc@gnatnet.net>
Rendered body type: text/plain

At 09:03 AM 9/27/96 -0500, you wrote:
>>I have been trying to get WinAPRS to work on a laptop 486SL. I keep getting
>>the message "Requires Serial DLLs" on the opening dialog box. As a
>>consequence I can't get GPS NMEA to input to the program and plot. I've
>>installed WinAPRS per the instructions. What am I doing wrong?

>The REQUIRES SERIALL DLLS message is just to indicate that the DLLs are
>needed for that version, not that they are missing.
>
>
>Open the INTERNAL STATE window, that will tell you if they are loaded
>properly or not.

I'm not familiar with this. Can you hum a few bars? :-)

>Does TNC input work?

Thanks for the reply Mark,

Yes, the TNC does work. Now I'm convinced that the serial port is working.

So my problem still remains as to how to connect a GPS NMEA output to
WinAPRS. Is there more to it than simply wiring the output of the GPS (a
Garmin 45) straight into the computer serial port?

Thanks again,

 - Steve, N7HPR

srbible@gnatnet.net
n7hpr@amsat.org
n7hpr@tapr.org

938. X-1J4 Fade in Nashville

From: mark.endicott@nashville.com
Date: Sat, 28 Sep 96 20:15:55
To: aprssig@tapr.org
Message-ID: <199609290120.UAA04586@tapr.org>
Rendered body type: text/plain

Bob:

The following is the information you requested regarding the "digi fade"
problem

```
in Nashville.  Help !! What are we doing wrong?


Hooked*KC4WPS-3 >WIDE*>ID:                HEARD: 3 4 6 7 6 5
Pos:!******/3626.54N/08629.30W#PHG3663/WIDE-RELAY...KC4WPS-3
Bcn:PHG3663/WIDE-RELAY...KC4WPS-3


KC4WPS-3>WIDE*>ID:TheNet X-1J4 (APRS79)
!3626.54N/08629.30W#PHG3663/WIDE-RELAY


                              Thanks...Mark (WB0NOO)



    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

---

939. X-1J4 Fade in Nashville +

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sat, 28 Sep 1996 21:41:27 -0500
To: aprssig@tapr.org
Message-ID: <9609282141.AA27495@oscar.telalink.net>
Rendered body type: text/plain

```
> Bob:
>
> The following is the information you requested regarding the "digi
> fade" problem
> in Nashville.  Help !! What are we doing wrong?
>
>
> Hooked*KC4WPS-3 >WIDE*>ID:                HEARD: 3 4 6 7 6 5
> Pos:!******/3626.54N/08629.30W#PHG3663/WIDE-RELAY...KC4WPS-3 Bcn:
> PHG3663/WIDE-RELAY...KC4WPS-3
>
>
> KC4WPS-3>WIDE*>ID:TheNet X-1J4 (APRS79)
> !3626.54N/08629.30W#PHG3663/WIDE-RELAY
>
>
>                               Thanks...Mark (WB0NOO)
>
Just to add what I copied off a terminal screen:

KC4WPS-3>ID,WIDE:TheNet X-1J4  (APRS79) !3626.54N/08629.30W#PHG3663/WIDE-
RELAY...KC4WPS-3

Bruce


--
***************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650                                    *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W   *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* URL:  http://www.telalink.net/~martinbw/home.html           *
*        ftp://ftp.telalink.net/~martinbw                     *
*    I have a 486DX33 to play games and run some HAM programs,*
*        when I want to do serious work I use a Macintosh.    *
***************************************************************
```

---

940. Re: [APRSSIG:5212] Docs -The fix-

From: William Nolle <wa8inz@cris.com>
Date: Sat, 28 Sep 1996 21:41:52 -0700
To: aprssig@tapr.org
Message-ID: <324DFE10.21F6@cris.com>
Rendered body type: text/plain

Robert Winingham wrote:

```
>
> >...SOME of us, and notably the ones
> >using Mac APRS and Win APRS are having difficulty getting the information
>
> Before the FTP site was reorganized it was a bit easier to get the docs.
> Now each platform has a directory of its own.
> We don't always look in the other areas.
> I run all three version so I must look in all areas.
>
>  >It took me all this time to figure out
> >that the docs are only in a file which includes the total DOS software.
>
> Almost correct: Bob puts three type of files on the Upload site:
>
> 1. Total latest APRS package.  (1 meg+ in size)
> 2. Updates of program and any revised docs or readme information (+400K)
> 3. Just the program.EXE file (+200k)
>
> I am a MAC user and it is so easy to get the docs that PC only users
> might think we were platform bragging again.
>
> Just download and "drag and drop" on StuffIt Expander™ 401 and you
> get a APRS folder all neatly laid out. There are only 6 or 7 .exe
> to delete. (Use zipit of you don't have the Stuffit + program)
>
> View by date to see if there are any new doc items to read.
> I change the color of items in a new update download.
>
> THIS doc problem is so easy to fix.
> ------------------------------------
>
> Bob, Keith and Mark are busy so lets let Bill upload a APRSdocs.zip
> to the APRS,WINaprs,MACaprs areas. He can update the file when
> Bob uploads a new version.
>
> Bill can appoint a new documentation gofer when he get too busy.
>
> John  Gafford can help on this
>  -when he learns how to upload to the APRSsig FTP site  :-)
>
> 73
>
> Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

Wow i'm sure glad i volunteered for this Hi. But where would a guy get
the MacWin version documentation?.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
     A BIG HAND FOR THOSE MENTOR VOLUNTEERS

      http://www.concentric.net/~wa8inz
```

941. Re: [APRSSIG:5205] Precision Mapping Problem?

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Sat, 28 Sep 1996 23:08:19 EDT
To: aprssig@tapr.org
Message-ID: <19960928.200713.4350.0.Hfigueroa@juno.com>
Rendered body type: text/plain

It is important that you use NMEA 183 Version 2.0

You must make sure that your GPS is sending NMEA-183 sentences: GPGGA,
GPGLL, GPRMB, GPRMC, GPGSA, GPGSV, GPVTG, and if you are using a garmin
PGRMA, PGRMZ.

the GPGSV sentence is important if you want satellite information
displayed on your screen, and I think only NMEA-183 v. 2.0 is the only
one that supports satellite information

Hector M. Figueroa E-Mail Hfigueroa@juno.com
World Wide Web Page http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL
Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM

```
On Sat, 28 Sep 1996 15:15:07 -0500 (CDT) n2czf@magg.net (Richard Garcia)
writes:
>I need some help from anyone using Precission Mapping with their GPS.
>A
>couple of us at work have purchased this at work and we seem to have a
>problem that depends on the GPS brand that we use.
>
>I have a GARMIN with $GPRMC data output and it works fine, some quirks
>with
>the comm port and some inaccurate data in the map locally but all in
>all a
>heck of a lot better than Delorem map Expert! I also get no data in
>the sat.
>bar graph window.
>
>My co-workers have Magellan Meridians and they cannot get the program
>to
>work. When they view the strings  under GPS Data Window they see the
>GGA and
>GLL data but it does not plot, they DO not have $GPRMC. Does theis
>program
>need RMC data to work properly ? If it does need RMC and does not work
>with
>GGA or GLL then why does my RMC data not display any signal reports in
>the
>sat. window at the left hand side of the page ? I was under the
>impression
>that the RMC data did not have the information on signal levels that
>the
>program needed to display it.
>
>73's Rich N2CZF
>Jupiter Farms Florida
>n2czf@magg.net                                                (E-Mail)
>http://www.magg.net/~n2czf                             (Personal)
>http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
>http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue
>Human
>Rights Group)
>
>
```

942. Re: [APRSSIG:5204] Graying WX stations.

From: james-m@ix9.ix.netcom.com
Date: Sat, 28 Sep 1996 23:26:15 -5
To: aprssig@tapr.org
Message-ID: <199609290326.UAA09348@dfw-ix5.ix.netcom.com>
Rendered body type: text/plain

```
Hello Bob,

I have the Ultimeter 2000 on com 2 and am running 77b.  I do not have
any problems with it greying out on me.. I doubt this will help with
the problems with the Davis weather monitor as I suspect that
instrument is handling in a differant section of the program. Anyway
for your info, 77b and my U2k are working just fine...



> Date:          Sat, 28 Sep 1996 14:55:18 -0500 (CDT)
> Reply-to:      aprssig@tapr.org
> From:          Bob Bruninga <bruninga@nadn.navy.mil>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:5204] Graying WX stations.

> On Fri, 27 Sep 1996, Paul S. Malarik wrote:
>
> > Hi Bob; as per your request for info I can confirm that 77b still greys out
> > the home weather station.  The system runs as follows:
> > PK232 ON COM1, DAVIS WEATHER MONITOR II ON COM 2
>
> APRSdos REPLY/COMMENT:  I am getting conflicting data.  Some say it DO,
> some say it DONT...  Anyone figure out the difference?
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

```
>
>
```

---

943. Re: [APRSSIG:5207] Re: Precision Mapping Problem?

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 28 Sep 1996 03:30:35 -0400
To: aprssig@tapr.org
Message-ID: <199609290327.XAA08858@grumpy.magg.net>
Rendered body type: text/plain

```
If this is the case then why does this program not seem to respond to my RMC
(and everything else the Garmin puts out) data so that the sat info window
works ?  I was under the impression that the sats signal levels would be
graphed in the window.

1st I thought it was probably looking for another brand of GPS data that may
have it but if it requires RMC like the Garmin puts out then it must be
another problem.


>Yes, as far as I have been able to determine, Prec Mapping GPS
>NEEDS the RMC string to work.
>Dick WB6NGC
>
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                  (E-Mail)
http://www.magg.net/~n2czf                             (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

---

944. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 29 Sep 1996 03:28:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;UNGA-1361-2900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:5...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

945. MS Explorer 3.0 Mailer

From: "Stephen Dubois" <steved@vianet.on.ca>
Date: Sun, 29 Sep 1996 08:14:06 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199609291210.IAA12285@vianet.on.ca>
Rendered body type: text/plain

```
GM All,
Just a helpful suggestion to those wanting to use the new Explorer 3.0
mailer. I have tested the mailer and it appears that I have eliminated the
extra attachment of encoding at the bottom of each message.
Here is how I set my config up:

Click on MAIL
Then click on OPTIONS to configure
Click on the SEND TAB
Click on SETTINGS within the Send Tab
Where it says "MIME" under Message Format make sure the "ENCODE TEXT USING"
window says
"NONE".

That should do it.

Sorry for the bandwidth people but thought since we had some problems in
the past it would help others out wanting to use the mailer.

Have a great day and 73..........to all.
```

```
---------------------------------------------------------------------------
---
Steve Dubois
CANWARN SPOTTER VA3HOI
(S)huttle(A)mateur(R)adio(EX)periment STATION
APRS,WinAPRS,APRTRAK
E-mail:steved@vianet.on.ca
---------------------------------------------------------------------------
----
```

---

946. Re: [APRSSIG:5205] Precision Mapping Problem?

From: rwf <rwf@mindspring.com>
Date: Sun, 29 Sep 1996 09:40:28 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960929134028.0068a4d4@atl.mindspring.com>
Rendered body type: text/plain

```
Rich garcia was looking for info on Precision Mapping/GPS:

>I have a GARMIN with $GPRMC data output and it works fine, some quirks with
>the comm port and some inaccurate data in the map locally but all in all a
>heck of a lot better than Delorem map Expert! I also get no data in the sat.
>bar graph window.

I don't remember the sentence you need for that, $GPGSV, I think. Same as
whatever Bob needs for his plot display. (the one everyone always forgets is
in APRS). ALT-S G P

>
>My co-workers have Magellan Meridians and they cannot get the program to
>work. When they view the strings  under GPS Data Window they see the GGA and
>GLL data but it does not plot, they DO not have $GPRMC. Does theis program
>need RMC data to work properly ?

I already saw another reply to you that said "yes", but that is news to me.
Don't remember it in PM's docs.

Another note.  I have *never* seen any altitude display on the PM program.
Bob's DOSAprs works fine displaying altitude off the GGA sentence.  Even IN
THE AIRLINER AT 30,000 FT I was getting good alt. data from APRS (Radio was
not powered up), but PM showed a big fat blank there.  Maybe a PM bug.

It would really be great if the APRS programs, WIN or DOS could send posits
to PM!!!!!!!




                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
```

---

947. Re: [APRSSIG:5141] Thanks for the good times

From: Daniel Velez <dvelez@infi.net>
Date: Fri, 27 Sep 1996 18:24:29 -0400
To: aprssig@tapr.org
Message-ID: <324C541D.2122@infi.net>
Rendered body type: text/plain

```
> ** Hailing frequency off **

What questions did you have?

I've read every day for some time now and don't recall seeing your
posts.

Oh, and please, let's get off the JUNO crap.  I don't care what the
domain name of your EMAIL service is.  Most don't.
--
Dan
```

```
    Daniel Velez | Aoooga!       Aoooga!
 dvelez@infi.net |
 N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

948. docs

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sun, 29 Sep 1996 08:16:01 -0800
To: aprssig@tapr.org
Message-ID: <199609291514.IAA27356@franc.ucdavis.edu>
Rendered body type: text/plain

```
Hi all,
    Two things. I don't think a Mac can deal with a SELF EXTRACTING zip
file since this is a .EXE file. The Motorola CPU in a Mac cannot execute
Intel CPU instructions. Also, the Mac Win docs can be gotten from Keith
Sproul's home page at Rutgers. I don't have the URL handy, maybe someone
else can supply it. Thanks to all for all the help,
John Lakeland kc6vlr
```

---

949. APRS forum at Hudson Division Convention?

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 29 Sep 1996 11:18:34
To: aprssig@tapr.org
Message-ID: <199609291519.LAA17500@mail-e2a.gnn.com>
Rendered body type: text/plain

```
Hi All,

     I recently received a mailing about the ARRL Hudson Divi-
sion's Convention in Melville, NY on Sunday October 20th.  In
it there was a line that said there will be a forum on APRS.
Does anybody happen to know who is going to be conducting this?

     Just in case you're interested in going, the directions
are (according to the mailing:)

          Melville Hilton Hotel
          I-495 (Long Island Expressway) to exit 48

I'll certainly be there anyway (it's the second biggest hamfest
in our local area) and hope to have the chance to put some fa-
ces together with those arcane symbols on the map!  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

---

950. APRS docs via ftp

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sun, 29 Sep 1996 12:21:27 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <324EA206.75F4@cyberenet.net>
Rendered body type: text/plain

```
Hello all,

If you need the docs to DosAPRS you can go to my ftp site which can be
reached from my website. You'll find a link marked "Goto my FTP site"
there.

The URL for Netscape 3.0 and compatable browsers is;

www.cyberenet.net/~n2iph/frontpg.html

for Netscape 2.0 and older browsers which do not support frames use;

www.cyberenet.net/~n2iph/bob.htm

To use Winsock FTP or similar ftp clients use;

ftp.cyberenet.net/~n2iph/.ftp

So now there is another site on the 'net where these files can be
viewed, which should eliminate all the whinning and QRM on the SIG.
```

73...Bob

NNNN

---

951. Re: [APRSSIG:5204] Graying WX stations.

From: Larry Miller <lmiller@ezl.com>
Date: Sun, 29 Sep 1996 11:45:13 -0500
To: aprssig@tapr.org
Message-ID: <324EA799.4092@ezl.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
> 
> On Fri, 27 Sep 1996, Paul S. Malarik wrote:
> 
> > Hi Bob; as per your request for info I can confirm that 77b still greys out
> > the home weather station.  The system runs as follows:
> > PK232 ON COM1, DAVIS WEATHER MONITOR II ON COM 2
> 
> APRSdos REPLY/COMMENT:  I am getting conflicting data.  Some say it DO,
> some say it DONT...  Anyone figure out the difference?

Bob and the Group...

  I still am having my station graying out.  I tried to delete the old
config file and rebuild and I am still having the problem.

  I have seen the comments that indicated it is not happening for every
one.  Perhaps I need to use the C-F-f option and let everything show up
all the time!  Looking for an answer to your post "Anyone figure out the
difference?"

  (I am using the U-II wx sta.)
-- 
Larry
   Personal: lmiller@ezl.com
   Ham Radio: n9lbg@kd9sg.#sil.il
   Home Page: http://www.ezl.com/~lmiller
```

---

952. Re: [APRSSIG:5204] Graying WX stations.

From: Tom Carpenter <wb8vji@tir.com>
Date: Sun, 29 Sep 1996 12:59:08 +0500
To: aprssig@tapr.org
Message-ID: <324E2C4C.4FE@tir.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
> 
> On Fri, 27 Sep 1996, Paul S. Malarik wrote:
> 
> > Hi Bob; as per your request for info I can confirm that 77b still greys out
> > the home weather station.  The system runs as follows:
> > PK232 ON COM1, DAVIS WEATHER MONITOR II ON COM 2
> 
> APRSdos REPLY/COMMENT:  I am getting conflicting data.  Some say it DO,
> some say it DONT...  Anyone figure out the difference?
> 
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
Hi Bob,

Tom here.  It do on mine.  PK232 with 486sx/33meg on com 1 and Peete
bros ulimeter II on port 4.  After I sign on it is blue and ok but after
a couple of hours I turn to light gray and then dark gray.


Hope this helps....
73  Tom Carpenter

wb8vji@tir.com
```

---

953. Unable To get To N2IPH's Web Page

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sun, 29 Sep 1996 11:12:01 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19960929181201.0068a37c@mailhost.primenet.com>
Rendered body type: text/plain

I have tried, unsuccessfully to get to N2IPH's web page. Used NS. 3.0, IE
3.0, and FTP....no luck.
All say URL not found???? Any ideas.

Thanks, & 73...Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

954. Re: [APRSSIG:5204] Graying WX stations.

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 29 Sep 1996 17:35:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960929173242.3507A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Sat, 28 Sep 1996, Bob Bruninga wrote:

> On Fri, 27 Sep 1996, Paul S. Malarik wrote:
>
> > Hi Bob; as per your request for info I can confirm that 77b still greys out
> > the home weather station. The system runs as follows:
> > PK232 ON COM1, DAVIS WEATHER MONITOR II ON COM 2
>
> APRSdos REPLY/COMMENT: I am getting conflicting data. Some say it DO,
> some say it DONT... Anyone figure out the difference?

I'm running 7.7b with KPC-3, Ultimeter II, on 286 machine..no problems
(but I did rename the config file so I could start fresh....I had had
problems with Just WX not wanting to un-toggle)

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

955. UNPROTO path

From: Doug Wittich <dwittich@concentric.net>
Date: Sun, 29 Sep 1996 19:38:00 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960929233800.0067c864@pop3.concentric.net>
Rendered body type: text/plain

I've read ops, digi & several other of the doc files. In a way, I'm more
confused than ever :-)

I can hear a wide (shows as a green star), so I've changed my path to
callsign,wide,wide, where the callsign of the wide is placed.   Is this right?

My alias is set as RELAY, as I'm two or three miles off I-95.

And if that is the right path, exactly, in plain English, does it mean?
Does it mean my packets will go to the wide, then go to another wide, which
will send it to a third, and that one will not send it out?

Doug N3VEJ Perry Hall, MD

---

956. Re: [APRSSIG:5208] DOS *.TXT FILES

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Sep 1996 19:49:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960929194848.27137B-100000@arctic>
Rendered body type: text/plain

Permission granted to copy the files, but maknig it a self extracting file
is uesless for the mac folks. SInce a mac will not run an .exe file....

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

957. Re: [APRSSIG:5209] Wx Problems in 7.7b?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Sep 1996 19:50:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960929195013.27137C-100000@arctic>
Rendered body type: text/plain

On Sat, 28 Sep 1996, Connie Hulst wrote:

> I just joined the list. APRS 7.7b is not decoding U-2000 remote
> packets correctly, and I heard that this might be a software
> problem. Is this true? Any word on when the next version is coming?

APRSdos REPLY/COMMENT: If this is true, someone better tell me about it..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

958. Re: [APRSSIG:5211] Re: APRS/AMSAT VHF FREQ

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Sep 1996 19:55:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960929195305.27137F-100000@arctic>
Rendered body type: text/plain

On Sat, 28 Sep 1996 rrtheri@ibm.net wrote:

> A DIGI station has been in operation in Montreal for the last
> 2 years on 145.770MHZ on account of the fact that a BBS had
> been on 145.790MHZ prior to the start of operation on APRS.
> It is presently planned to go to 144.390MHZ in the near future
> Bob WA4APR is aware of that fact.

APRSdos REPLY/COMMENT: Yes, I am aware of canadians on 144.39, but I still think that was unfortunate, hi hi... If I remember, this was because of one BBS in one city. My recommendation all along was to put that city on whatever other freq they wanted, and then let the rest of canada stick with 145.79 if available...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

959. Re: [APRSSIG:5224] docs

From: David & Roxanne McCarthy <davidmc@goodnet.com>
Date: Sun, 29 Sep 1996 19:35:33 -0700
To: aprssig@tapr.org
Message-ID: <324F31F5.DAE@goodnet.com>
Rendered body type: text/plain

John Lakeland wrote:
>
> Hi all,
>   Two things. I don't think a Mac can deal with a SELF EXTRACTING zip
> file since this is a .EXE file. The Motorola CPU in a Mac cannot execute
> Intel CPU instructions. Also, the Mac Win docs can be gotten from Keith
> Sproul's home page at Rutgers. I don't have the URL handy, maybe someone
> else can supply it. Thanks to all for all the help,
> John Lakeland kc6vlr

Its simply. Just make the doc a TEXT doc and the Mac can read it.

960. MS Mailer (Explorer 3.0)

From: "Stephen Dubois" <steved@vianet.on.ca>
Date: Sun, 29 Sep 1996 22:23:41 -0400
To: "APRSSIG" <aprssig@tapr.org>
Message-ID: <199609300245.WAA09128@vianet.on.ca>
Rendered body type: text/plain

Hello All,

Just a note to let others on the sig know the problem of encoding as an attachment at the end of a msg using MS mailer is correctable.. I am using the new MS-Explorer 3.0 with the mailer and news reader.

Here is what I did to correct the problem.

Click on "MAIL"
Click on "OPTIONS" to configure
Click on the "SEND" tab
Click on "SETTINGS" within the send tab
Where it says "MIME UNDER MESSAGE FORMAT" make sure the "ENCODE TEXT USING"
window
says "NONE"..

That should do it...73 to all and have fun..Hope this helps...

Steve Dubois
CANWARN SPOTTER VA3HOI
(S)huttle(A)mateur(R)adio(EX)periment STATION
APRS,WinAPRS,APRTRAK
E-mail:steved@vianet.on.ca

---

961. Re: [APRSSIG:5211] Re: APRS/AMSAT VHF FREQ

From: jwillis@vir.com (Joseph Willis)
Date: Sun, 29 Sep 1996 22:55:45 -0400
To: aprssig@tapr.org
Message-ID: <199609300253.WAA24709@Vir.com>
Rendered body type: text/plain

```
>Good Evening Joe,
>
>My name is reginald and live in Terrebonne Que.
>In your message you mention that the APRS operating frequency
>in Montreal is 145.790 MHZ.
....
Thank you very much for the info Reg.  I recognize your callsign from the
aprs map of Quebec that comes with the dos version of aprs.

Okay on the frequency of the aprs network here.  I am very new to this, but
I did meet one other Montreal ham on 145.79 whose call escapes me right now.
(He lives in Eastern Montreal).  I get lots of American stations, especially
one KB2LML who seems to be sitting right on the US/Canadian border.

Can you tell me - is it a bit like the packet system, where information is
passed through various gateways from one frequency to another?  Will I see
all those US stations if I sit on 145.77?  And does everybody digipeat
information for each other?  Thanks for your help Reg - hope to keyboard at
you some time.  Joe
--------------------------------------------------------
Joe Willis  VE2CY
Email:  jwillis@vir.com
Packet: ve2cy@ve2fkb
--------------------------------------------------------
```

---

962. Re: [APRSSIG:5231] UNPROTO path Reply

From: rwf <rwf@mindspring.com>
Date: Sun, 29 Sep 1996 23:23:13 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960930032313.006fd6e4@mindspring.com>
Rendered body type: text/plain

```
Doug was wondering about what the path DIGI, WIDE, WIDE meant.


Hi Doug

As long as you can *hit* the digi you specified as the first in the list,
you should digi thru it and out thru the WIDES one hop away from it.  Then
you will digi thru the WIDEs one more hop away (including the one you hit
the first time by using its callsign). This is the inherent problem with
Wide, Wide, Wide  (or Callsign, Wide, Wide).  If you can't hit that first
digi you specified, you will go nowhere except local to your house.

One day, when digis can keep from digiing the same packet twice, the world
will be full of sweetness and light   (ugghh yuck).

Your *alias* of RELAY will allow other users using an UNproto of RELAY
(usually beginners and passing mobiles) to use your station as a hop to help
them hit the digi.  I use RELAY as the first entry in my mobile tracker's
path a lot.  I never know where I will be, and the RELAY helps me hit
whatever is possible.  All our local digis respond to RELAY as well as WIDE.
You can't readily keep your alias as anything but RELAY anyway, at least
with DosAPRS (APRS sets it back to RELAY periodically even if you change it,
unless you use a command that manually sets you to WIDE.)


Ralph
rwf@mindspring.com
```

---

963. Upcoming SO Cal APRS trip this weekend

From: rwf <rwf@mindspring.com>
Date: Sun, 29 Sep 1996 23:23:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960930032316.006fe498@mindspring.com>

Rendered body type: text/plain

```
Just a reminder:
I'll be in San Diego beginning this Saturday thru tthe following Thursday or
Friday. Then heading to LA until Wed or so and then back to SD.  Keep an eye
out (I'll be on 145.79 as N4NEQ-9) and maybe we can eyeball.  My pager info
in in my signature.



Ralph Fowler, N4NEQ ,  S.E.R.A. ATV Technical Advisor       Atlanta, GA USA

Internet Email:  rwf@mindspring.com      Pager Email:  7647836@skytel.com
2 way pager: 1 (800) 764-7836
http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
Ask me how!
```

---

964. Re: [APRSSIG:5232] Re: DOS *.TXT FILES

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sun, 29 Sep 1996 23:23:51 -0400
To: aprssig@tapr.org
Message-ID: <324F3D47.273B@cyberenet.net>
Rendered body type: text/plain

```
That is one reason why I put the files for APRS77 at my FTP site up in
plain ASCII txt. They are not Zipped ot compressed in any way, so you
can just view them on-line or download to your hearts content.

73...Bob

NNNN
```

---

965. 144.3-.5 Mhz Mobile Satellite channels

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 00:30:40 -0400 (EDT)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org, wd0e@amsat.org
Message-ID: <Pine.GSO.3.95.960929224213.993A-100000@arctic>
Rendered body type: text/plain

```
> Comments recently on the Frequency Coordinator's remailer indicate that
> AMSAT has no future plans for the band 144.3 to 144.5 for satellite use.

WOOOAHA..  Please consider the following VERY IMPORTANT CONSIDERATION
before AMSAT relinquishes these satellite uplink frequencies.  These
2 meter frequencies are unique in three very important ways:

1)  At 2 meters, the doppler is only 3 KHz meaning that 9600 baud uplinks
    without satellite tracking automatic frequency control are possible.
2)  These frequencies are *not* shared with satellite downlinks.
3)  The path loss is 5 dB less than on any other amateur satellite band.

All three of these combine to make these 2 meter satellite uplink channels
IDEAL for any kind of nationwide (or worldwide) MOBILE VEHICLE POSITION/
STATUS reporting AMATEUR SATELLITE network!  Consider the following:

A)  Automatic Position Reporting and PRECISE TIME via GPS is
revolutionizing communication networks worldwide.  GPS IS HERE TO STAY!

B)  Mobile 9600 baud satellite packet uplinks using a 19" mobile whip and
25 watt FM rig on 2 meters are perfectly viable.

C)  At 9600 baud, a GPS position/status report using the new APRS
MicEncoder format takes under 40 ms.  Using GPS precise timing, assigned
slot TDMA can be used to accomodate up to 2400 stations per satellite
footprint if each one transmits once every 2 minutes.  This could
accomodate over 7200 mobiles nationwide per channel.

D)  Each position/status packet per vehicle contains the following info:
* Position to the nearest 60 feet PLUS Course and speed
* 4 optional analog telemetry values (battery voltage, etc...)
* 1 of 7 pre-defined msgs:  Onduty, Enroute, Returning, Emergency, etc
* Or, in place of the above, any other single line TEXT STATUS report or
message line.

E)  Mobiles transmit these UI frames periodically at a once every 2 minute
interval and are relayed by an APRsat whenever one comes into view.  One
APRsatellite would provide probably 4 reports per mobile per day, 2 in the
```

evening and 2 in the morning. Four APRsats could provide position/status
for all mobiles world wide at least every 90 minutes.

F) Because of the density of mobiles on the uplink, these channels cannot
be shared with any satellite downlinks, and require a nationwide (or
worldwide) allocation. Even though 144.3-.5 is NOT available in some
countries for satellite uplink, the other 90% of the earth's surface
(boats at sea and polar expeditions) could benefit from this application.
There are currently over 1000 members of the HAM RADIO RECREATIONAL
VEHICLE club, and unknown thouands of AMATEUR radio boat owners...

If HAM radio is to continue to stay current with modern technology, then
the use of Amateur Satellites to augment mobile vehicle position and
status communications must be considered as a fundamental need over the
next decade. I may have made some mistakes in the above thumbnail sketch
of the possibilities, but I wanted to get this out ASAP, before AMSAT does
something regretable in giving up currently protected 2 meter spectrum.
Currently published allocations:

144.34 National High Altitude Balloon and ATV voice channel
144.39 National Canadian APRS
144.45 SAREX
144.47 SAREX
144.49 SAREX

I REPEAT, please lets not give up these unique satellite frequencies with
low doppler and MINIMAL path loss WHICH ARE THE ONLY VIABLE CHANNELS for
simple mobile vehicle satellite uplinks.

---

966. Re: [APRSSIG:5214] X-1J4 Fade in Nashville

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 00:37:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960930003605.2575C-100000@arctic>
Rendered body type: text/plain

On Sat, 28 Sep 1996 mark.endicott@nashville.com wrote:

> The following is the information you requested regarding the "digi fade"
> problem in Nashville. Help !! What are we doing wrong?
>
> Pos:!******/3626.54N/08629.30W#PHG3663/WIDE-RELAY...KC4WPS-3
>
> KC4WPS-3>WIDE*>ID:TheNet X-1J4 (APRS79)
> !3626.54N/08629.30W#PHG3663/WIDE-RELAY

APRSdos REPLY/COMMENT: Wow, looks perfect to me! Maybe I gotta bug?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

967. Re: docs

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sun, 29 Sep 1996 23:35:27 -0500
To: aprssig@tapr.org
Message-ID: <9609292335.AA27407@oscar.telalink.net>
Rendered body type: text/plain

> John Lakeland wrote:
> > Hi all,
> >   Two things. I don't think a Mac can deal with a SELF EXTRACTING
> > zip file since this is a .EXE file. The Motorola CPU in a Mac
> > cannot execute Intel CPU instructions. Also, the Mac Win docs can
> > be gotten from Keith Sproul's home page at Rutgers. I don't have the
> > URL handy, maybe someone else can supply it. Thanks to all for all
> > the help, John Lakeland kc6vlr
>
> --
That David & Roxanne McCarthy <davidmc@goodnet.com> replied with:
> Its simply. Just make the doc a TEXT doc and the Mac can read it.
>

If the file is zipped and made self extracting, StuffIt expander will handel
it just fine either way.

Bruce

--

```
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net    *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                    *
* Hermitage TN  37076-2650                                     *
* Voice:     (615) 872-7733 Targeting:36 10 30 N/86 35 30 W    *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W       *
* URL:  http://www.telalink.net/~martinbw/home.html            *
*        ftp://ftp.telalink.net/~martinbw                      *
*    I have a 486DX33 to play games and run some HAM programs,*
*        when I want to do serious work I use a Macintosh.     *
****************************************************************
```

968. Re: [APRSSIG:5227] Re: Graying WX stations.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 00:59:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960930005709.2575J-100000@arctic>
Rendered body type: text/plain

```
On Sun, 29 Sep 1996, Larry Miller wrote:

>   I still am having my station graying out.  I tried to delete the old
> config file and rebuild and I am still having the problem.

APRSdos REPLY/COMMENT:  Sometimes your transmitted packet may be received
with a slight garble (such has having a "c" or "cmd" infront of it.  APRS
sees this as a NEW station with the call of cmdW3XYZ and then plots this
garble of your station ON TOP of your station.  Since this was a ONE-TIME
garble, it will eventually fade to gray!  COuld this be it?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

969. Re: [APRSSIG:5231] UNPROTO path

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 01:05:57 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960930010056.2575K-100000@arctic>
Rendered body type: text/plain

```
On Sun, 29 Sep 1996, Doug Wittich wrote:

> I can hear WB4APR-11 (a wide), so I've made my path WB4APR-11,wide,wide
> right?

APRSdos REPLY/COMMENT:  That is the same as W,W,W since APR-11 is a wide.
GO to VIEW screen and watch what happens each time you transmit, you will
probalby see LOTS of copies of your packet.   (thou maybe not this week,
since APR-1 is still down.

YOur best bet (when APR-1 comes back up) is to use WIDE,WIDE,WA2JNF-4
Which will get you to NY city, or W,W,WA4TFZ which will get you to
Charlottsville.  In both cases you will still also get out 2 hops in all
directions.


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

970. 145.79/ 144.39 and 145.01

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 01:16:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960930011000.2575M-100000@arctic>
Rendered body type: text/plain

```
If your area has chosen to use a frequency different from 145.79 due to
coordination problems, yet you would still like to see an occassional XTAL
controlled mobile who might drive into your area, consider this:

SImply add a 145.79 RECEIVER at your WIDE site.

You will hear his packet and digipeat it over onto your coordinated
frequency... AND  His puney 1 second packet low to the ground will likely
not be a problem to any pre-existing user of 145.79 while he is visiting.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

971. Re: Unable To get To N2IPH's Web Page

From: henryvb <henryvb@dpliv.com>
Date: Mon, 30 Sep 1996 00:42:37 -0500
To: aprssig@tapr.org
Message-ID: <324F5DCD.1862@dpliv.com>
Rendered body type: text/plain

```
Alan sed:

> I have tried, unsuccessfully to get to N2IPH's web page. Used NS. 3.0, IE
> 3.0, and FTP....no luck.
> All say URL not found???? Any ideas.
>

Web page works fine, no problem.  ftp page is

ftp://ftp.cyberenet.net/home/n2iph
```

---

972. Re: 144.3-.5 Mhz Mobile Satellite channels

From: Kaj Wiik <kwi@cc.hut.fi>
Date: Mon, 30 Sep 1996 10:31:12 +0300 (EET DST)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.OSF.3.93.960930102527.32350B-100000@delta.hut.fi>
Rendered body type: text/plain

```
On Mon, 30 Sep 1996, Bob Bruninga wrote:

> A)  Automatic Position Reporting and PRECISE TIME via GPS is
> revolutionizing communication networks worldwide.  GPS IS HERE TO STAY!
GPS is but don't know about APRS :)?

...

> F)  Because of the density of mobiles on the uplink, these channels cannot
> be shared with any satellite downlinks, and require a nationwide (or
> worldwide) allocation.  Even though 144.3-.5 is NOT available in some
> countries for satellite uplink, the other 90% of the earth's surface
> (boats at sea and polar expeditions) could benefit from this application.
> There are currently over 1000 members of the HAM RADIO RECREATIONAL
> VEHICLE club, and unknown thouands of AMATEUR radio boat owners...
To my knowledge this band is not allocated for *any* satellite use in
IARU Region 1, sorry. This segment was invented by ARRL.

Cheers,

Kaj
oh6eh@amsat.org

PS. No, I don't own a boat...
```

---

973. beeps

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Mon, 30 Sep 1996 04:29:30 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19960930082930.0068b7cc@bluenet.net>
Rendered body type: text/plain

```
I'll be running APRS and all of a sudden my laptop will start beeping like 5
beeps and a 3 sec pause and then 5 beeps. If I press any APRS command it
stops. What is this??
                                 Jamie

+----------------------------------------------------+
|                  Jamie R. Dean                      |
| Amateur Radio Call: KE4HTM                          |
| Internet E-Mail...: ke4htm@bluenet.net              |
| AX.25 E-Mail......: ke4htm@kd4om.#hky1.nc.us.noam |
| APRS Page.........: http://www.bluenet.net/ke4htm |
+----------------------------------------------------+
```

---

974. Re: [APRSSIG:5210] NEPA APRS

From: "J. Scott Ratchford, KC5JGV" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 30 Sep 1996 07:12:13 -0500
To: <aprssig@tapr.org>
Message-ID: <199609301212.HAA03067@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

There is a well located WIDE in Erie, PA. I ran across it on my trip thru
there. I'll have to look it up first!
--
J. Scott Ratchford - KC5JGV - Marshall, Arkansas
* ARRL * ARES EC * RACES * NAARS, Inc. *
* MVFD/EMS FR * CCL #426 *

> From: Al Zelna <ldajz@epix.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5210] NEPA APRS
> Date: Saturday, September 28, 1996 6:03 PM
>
> Howdy folks,
>
> Some time ago I sent out a message to this SIG looking for the calls of
> APRS WIDEs in WNY and ENY. I don't seem to recall getting any replies.
> Does anyone know if there are any in or around Hamandsport, Ithaca,
> Elmira, Binghamton, Utica, or Albany?
>
> Depending on Sunday's weather, a few of us will be making an afternoon
> trip to another mountain range near Scranton, PA to run a few tests. We
> will be setting up a temporary APRS WIDE who's call should be either
> WA3LWR OR KD3GG (SSID unknown). The system will be running 25 watts
> into a 13 element beam, on 145.79 MHz.
>
> The goal of our mission: Try to make contact with "the other side"
> ..which refers to the PA - NY state line. We'll be swinging from 285
> degrees over to 30 degrees in hope of being able to work a WIDE
> directly. If we are successful, an appropriate UNPROTO will be set, and
> the digi may stay up for as much as a few weeks.
>
> If anyone hears (sees) us, please send a message to our callsign.
>
>
> 73 de AL, N3KAE

975. Re: Mouse problem

From: kf4dys@juno.com (Joe Foor)
Date: Sun, 29 Sep 1996 21:49:34 PST
To: aprssig@tapr.org
Message-ID: <19960930.084358.4503.1.kf4dys@juno.com>
Rendered body type: text/plain

Thanks Bob;

I upgraded to ver 77b and the mouse is still working in
the morning, when I stagger in, with one eye partly open,
trying to look at the maps.

Now if it would just start the coffee pot for me... :-)

regards,
Joe

976. Re: [APRSSIG:5208] DOS *.TXT FILES

From: Brian Boccardi <n2mpm@worldnet.att.net>
Date: Mon, 30 Sep 1996 14:54:18 +0000
To: aprssig@tapr.org
Message-ID: <324FDF1A.5839@worldnet.att.net>
Rendered body type: text/plain

Thanks for creating the self extractor but it won't help on a
Macintosh. For Mac Users just Zipped is fine. I got the Files off the
TAPR CD, unzipped them and started reading.

977. Re: [APRSSIG:5208] DOS *.TXT FILES

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Sep 1996 10:40:00 -0400
To: aprssig@tapr.org
Message-ID: <v03007806ae758a7b1473@[165.1.27.20]>
Rendered body type: text/plain

>For MAC and WIN users, I have transcribed ALL the aprs txt files to
>a self-extracting zip file called "APRSTXT.EXE" It is 268,091 bytes
>in size. I will send it to anyone that wants it for the cost of a
>disk and postage, or if there is a way to post it on TAPR's ftp

```
>site, (I don't know how to do that) then it will be available to
>anyone, and Bob Burininga, I DO hope I have your authorization to
>do this.  73 all, John - N5XAK...


A xxx.EXE file is USELESS to a Mac user. A ZIP file is at least able to be
read on a Mac (can a PC handle a Mac Stuffit file?). Anyone who has access
to the internet and therefore could have received this message can download
all of this from the internet anyway.

We included ALL of the dosAPRS documentation on the CD-ROM we released in
May at Dayton, these documents have been put together in HTML for so they
can be easily read from any WEB brouser, the are still text files so can be
read individually by anyone who does not have a Web brouser.

I am sorry if I sound a bit miffed but for the most part I feel this entire
dicussion is mute. All of the people on this mailing list have access to
the internet and can download this if they want.  We have been discussing
the issues with Bob and will be including more of the general stuff (i.e.
digis and protocals) in the Mac/WinAPRS documentation.  In the mean time we
have alwasy made avaialble the dosAPRS documentation and it has been on
TAPR all of the time.


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

978. Re: [APRSSIG:5213] Re: WinAPRS Can't load serial dlls msg

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Sep 1996 10:43:01 -0400
To: aprssig@tapr.org
Message-ID: <v03007807ae758ca49676@[165.1.27.20]>
Rendered body type: text/plain

```
>
>>The REQUIRES SERIALL DLLS message is just to indicate that the DLLs are
>>needed for that version, not that they are missing.
>>
>>
>>Open the INTERNAL STATE window, that will tell you if they are loaded
>>properly or not.
>
>I'm not familiar with this.  Can you hum a few bars? :-)
>


Under the LIST WINDOWS is an item "INTERNAL STATE"  this is a list of all
of the information that could be useful to me in debugging what is going on
inside of WinAPRS. Look at this window and it will be tell you if there are
problems


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

979. Re: [APRSSIG:5212] Docs -The fix-

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Sep 1996 10:54:35 -0400
To: aprssig@tapr.org
Message-ID: <v0300780aae758e8e09a0@[165.1.27.20]>
Rendered body type: text/plain

```
>THIS doc problem is so easy to fix.
>-----------------------------------
>
```

```
>Bob, Keith and Mark are busy so lets let Bill upload a APRSdocs.zip
>to the APRS,WINaprs,MACaprs areas. He can update the file when=20
>Bob uploads a new version.
>
>Bill can appoint a new documentation gofer when he get too busy.
>
>John  Gafford can help on this
> -when he learns how to upload to the APRSsig FTP site  :-)
>


Yes Keith and Mark are busy, but I do not want Bill or anyone else
uploading stuff to the WinAPRS directory other than Maps.  We will address
the documentation issues and will upload the necessary documents.  In the
mean time WE will upload the entire dosAPRS documentation packages to the
approriate areas so that the Windows and Mac users can have access to them
without having to search for them.

Most of the TAPR ftp site is password proctected on uploading and almost
all of the Rutgers site is that way.

I am going to try to have the entire dosAPRS docs up on Rutgers in web
browser form today.


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

980. Re: [APRSSIG:5249] beeps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 11:52:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960930115208.27415C-100000@arctic>
Rendered body type: text/plain

```
On Mon, 30 Sep 1996, Jamie R. Dean wrote:

> I'll be running APRS and all of a sudden my laptop will start beeping like 5
> beeps and a 3 sec pause and then 5 beeps. If I press any APRS command it
> stops. What is this??

APRSdos REPLY/COMMENT:  EIther a WX alarm, or you have set a POSITION
alarm on someone, and they moved...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

981. APRS Documentation

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Sep 1996 13:04:24 -0400
To: aprssig@tapr.org
Message-ID: <v0300780eae75ac8012ee@[165.1.27.20]>
Rendered body type: text/plain

```
The ENTIRE documentation for APRS can be found at

http://aprs.rutgers.edu/APRS/

is is the same as before with the addition of


        dosAPRS Documentation.

This link takes you to a list of ALL of the dosAPRS readme files.  They can
all be accessed by clicking from within your web browser.  These are the
latest (7.7) docs for APRS.

You now have ONE location to get ALL of the docs.

I will be making the ENTIRE directory into a ZIP file, including the images
so that you can download it and view them locally.  This makes it MUCH
faster and makes it so that you do not have to dial in to read the docs.
```

All links are realitve with in the documents so that as long as the
directory structure is kept the same, it will all work. File names have
all been kept 8.3 so it will work under Windows 3.1, Win95 and Mac (and
unix too).

Mark Sproul

```
_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

---

982. Re: [APRSSIG:5219] Re: Precision Mapping Problem?

From: Dick Mead <mead@hamal.usc.edu>
Date: Mon, 30 Sep 96 11:01:21 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.844106481.mead@hamal.usc.edu>
Rendered body type: text/plain

```
> If this is the case then why does this program not seem to respond to my RMC
> (and everything else the Garmin puts out) data so that the sat info window
> works ?  I was under the impression that the sats signal levels would be
> graphed in the window.
>
> 1st I thought it was probably looking for another brand of GPS data that may
> have it but if it requires RMC like the Garmin puts out then it must be
> another problem.
>
>
> >Yes, as far as I have been able to determine, Prec Mapping GPS
> >NEEDS the RMC string to work.
> >Dick WB6NGC
> >
> >
> 73's Rich N2CZF
> Jupiter Farms Florida
> n2czf@magg.net                                                (E-Mail)
> http://www.magg.net/~n2czf                                 (Personal)
> http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
> http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
> Rights Group)
>
>
```

Beats me. I am using an old Magellan Meridan. I don't get sat info.

Dick

---

983. Re: 144.3-.5 Mhz Mobile Satellite channels

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Sep 1996 14:12:44 -0400 (EDT)
To: James R Miller <g3ruh@jrmiller.demon.co.uk>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.960930115532.27415E-100000@arctic>
Rendered body type: text/plain

On Mon, 30 Sep 1996, James R Miller commented on Bob Bruninga's proposal
for a 2 meter mobile satellite uplink channel:...

Bob said: The path loss is 5 dB less than on any other amateur band.

> Whilst I have sympathy for your thesis, I'd just like to point out that
> for any given TX power, a given distance and a given RX antenna size
> (area), frequency is irrelevant.

WB4APR REPLY: Very true. But for the typical vertical 1/4 wave omni
antenna which a mobile would use for mobile satellite communications,
and which the microsat will use as a receive antenna, the aperture of
the antenna *is* proportional to wavelength squared and therefore the
overall pathloss is less in this application. Considering the larger
aperture on both the vehicle and the satellite for 19" whips, I think the
advantage of 2 meters is actually about 9.5 dB!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

984. Re: [APRSSIG:5241] 144.3-.5 Mhz Mobile Satellite channels

From: n2czf@magg.net (Richard Garcia)
Date: Sun, 29 Sep 1996 22:34:16 -0400
To: aprssig@tapr.org
Message-ID: <199609302235.SAA16297@grumpy.magg.net>
Rendered body type: text/plain

```
Everything sounds great Bob, I agree it would be a "moving" accomplishment
for the amateur community to be able to do this, one problem. Who would do
this ??? AMSAT seems to have their hands full with Phase III, costs are
REALLY out of this world to build such a thing that lasts, no punn intended,
and how many people really have the exp. to pull a stunt like this off ?
Does AMSAT have enough people or interest to devote to another project ?



nip>>>
>> Comments recently on the Frequency Coordinator's remailer indicate that
>> AMSAT has no future plans for the band 144.3 to 144.5 for satellite use.
>
>WOOOAHA..  Please consider the following VERY IMPORTANT CONSIDERATION
>before AMSAT relinquishes these satellite uplink frequencies.  These
>2 meter frequencies are unique in three very important ways:
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                (E-Mail)
http://www.magg.net/~n2czf                           (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

---

985. Re: [APRSSIG:5245] Re: UNPROTO path

From: Doug Wittich <dwittich@concentric.net>
Date: Mon, 30 Sep 1996 19:24:07 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19960930232407.0068ee28@pop3.concentric.net>
Rendered body type: text/plain

```
>YOur best bet (when APR-1 comes back up) is to use WIDE,WIDE,WA2JNF-4
>Which will get you to NY city, or W,W,WA4TFZ which will get you to
>Charlottsville.  In both cases you will still also get out 2 hops in all

Thank you for the info.   I also got a useful email from another sig user
who explained the wides pretty well.  The sum of the two messages make a lot
more sense, and help me understand what I'm doing better.


Doug N3VEJ
```

---

986. Re: [APRSSIG:5231] UNPROTO path

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 30 Sep 1996 20:12:37 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960930200600.23141A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 29 Sep 1996, Doug Wittich wrote:

> I've read ops, digi & several other of the doc files.  In a way, I'm more
> confused than ever :-)

Welcome to the club.

>
> I can hear a wide (shows as  a green star), so I've changed my path to
> callsign,wide,wide, where the callsign of the wide is placed.
(snip)
> Does it mean my packets will go to the wide, then go to another wide, which
> will send it to a third, and that one will not send it out?

As I understand it: Assuming that there are WIDEs that can hear the next
WIDE .... Your packets will be digi'ed by the local WIDE (callsign),
then the second WIDE, then the third WIDE.

NOTE: Since your local WIDE (callsign) digi's with either callsign or WIDE
it TOO will digi your packet on the third hop, since it can hear the
second WIDE.
```

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

987. Re: [APRSSIG:5244] Re: Graying WX stations.

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 30 Sep 1996 20:21:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.960930201830.23141B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 30 Sep 1996, Bob Bruninga wrote:
>
> APRSdos REPLY/COMMENT:  Sometimes your transmitted packet may be received
> with a slight garble (such has having a "c" or "cmd" infront of it.  APRS
> sees this as a NEW station with the call of cmdW3XYZ and then plots this
> garble of your station ON TOP of your station.  Since this was a ONE-TIME
> garble, it will eventually fade to gray!  COuld this be it?

I have noticed this "garble" on occasion.....always on my own station call.
Whenever I see it I make sure to check the P page so see if it is there....
If so, I DELETE it right away. Never had a problem with grey out on my WX
stn with 7.7b


Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

988. Re: [APRSSIG:5253] Re: DOS *.TXT FILES

From: Chip Griffin <quarry@q.continuum.net>
Date: Mon, 30 Sep 1996 21:31:26 -0400
To: aprssig@tapr.org
Message-ID: <3250746E.468F@q.continuum.net>
Rendered body type: text/plain

```
Mark Sproul wrote:

> A xxx.EXE file is USELESS to a Mac user. A ZIP file is at least able
> to be read on a Mac (can a PC handle a Mac Stuffit file?). Anyone who
> has access to the internet and therefore could have received this
> message can download all of this from the internet anyway.

Yes, there is an unstuffit for IBM compatibles, it is freely available
on the net, I might even be able to mail you a copy for distribution if
you're interested.

--
Chip Griffin - President of TRAUG
 SysOp of The Quarry (860-889-6427)
------------------------+----------------------
quarry@q.continuum.net  |  N1MIE@n1okk.ct (packet)
griffge@nu.com          |  Chip@1:320/301.0
emme2@aol.com           |

http://q.continuum.net/~quarry/
```

---

989. APRS DOC Files

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Mon, 30 Sep 1996 09:07:45
To: aprssig@tapr.org
Message-ID: <199609301407.KAA26241@mail-e2a.gnn.com>
Rendered body type: text/plain

```
Gentlepersons, I don't have Bob's permission yet to put a zipped
set of APRS DOCS on TAPR's ftp, and won't until he tells me it's
OK. Also, if you people really don't want them there, then I can
forget the whole thing.  Was just trying to help.

73, John - N5XAK...
```

---

990. Re: [APRSSIG:5258] Re: Precision Mapping Problem?

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 30 Sep 96 21:44:29 EDT
To: aprssig@tapr.org
Message-ID: <m0v7tst-0001LjC@wa4mei.radio.org>
Rendered body type: text/plain

```
On Mon, 30 Sep 1996 13:05:40 -0500 (CDT) you wrote:
```

```
>> If this is the case then why does this program not seem to respond to my RMC
>> (and everything else the Garmin puts out) data so that the sat info window
>> works ?  I was under the impression that the sats signal levels would be
>> graphed in the window.
>>
>> 1st I thought it was probably looking for another brand of GPS data that may
>> have it but if it requires RMC like the Garmin puts out then it must be
>> another problem.
>>
>>
>> >Yes, as far as I have been able to determine, Prec Mapping GPS
>> >NEEDS the RMC string to work.
>> >Dick WB6NGC

I'm using a Garmin 45 and/or Garmin GPS-20 and both give sat sig levels
on Precision Mapping GPS.  The Garmin 45 must be in NEMA 183 2.0 mode
for this to work.  For example, NEMA 1.5 mode did not produce any
sat signal levels for me.  Go to I/O setup on the Garmin 45 to change
NEMA modes.

Another interesting thing... You can run both PMAP.exe and GPS.exe
and they will talk to each other with the GPS updating the map and
putting the "arrow" on the PMAP display!  This mode worked fine
under WIN-OS/2 (Warp 4.0) but attempting this on Windows 95 crashed the OS.
Because of this I think my Windows 95 partition will soon be history.





--------------------------------------------------
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
Running OS/2 Warp 4.0 :  The only x86 operating system that
is more stable than most people who use it.
```

991. Re: [APRSSIG:5179] Docs vs Restrictions

From: "Paul Christenson [N3EOP]" <paulc@cyclades.com>
Date: Sun, 29 Sep 1996 13:02:33 -0700
To: aprssig@tapr.org
Message-ID: <324ED5D9.75FF483D@cyclades.com>
Rendered body type: text/plain

```
I have a couple of possible solutions to the "newbie" problem.  They
have worked well in the *nix world.

1.  Put in a check for undesireable paths.  Give a warning, but allow
the path.  (Netscape does something similar with >4 line signatures.)

2.  Have a config file shipped with an incorrect, but still reasonable
name.  This forces users to read the docs to find out how to get the
program to run.

3.  Require a registration key.  Supply an "unregistered" registration
key in the documentation.

These all work well, with a minimal impact on the experienced user.

de N3EOP/6

--
         +----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | Maker of High Performance Multiport Serial Cards   |
         | Unsolicited mail ads subject to a $25 handling fee |
         +----------------------------------------------------+
```

992. Re: 144.3-.5 Mhz Mobile Satellite channels

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 1 Oct 1996 00:10:50 -0400 (EDT)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961001000523.12381C-100000@arctic>
Rendered body type: text/plain

```
On Mon, 30 Sep 1996, Richard Garcia wrote about the suggested Mobile
Satellite Uplink channels.

> Everything sounds great Bob, I agree it would be a "moving" accomplishment
> for the amateur community to be able to do this, one problem. Who would do
> this ??? AMSAT seems to have their hands full with Phase III, costs are
> REALLY out of this world to build such a thing that lasts, no punn intended,
> Does AMSAT have enough people or interest to devote to another project ?

WB4APR REPLY:  Well, I donno.  But I say it is time to move on.  We have
been putting up flying BBS's now for 10 years.  WIth the internet, who
needs them?  Isnt it time to apply amateur satellites to the MOBILE
HAM where there is NO OTHER long distance COMMUNICATION SOLUTION other
than HF?

 Reply mail addr:
wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

993. re: beeps

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Tue, 01 Oct 1996 00:29:11 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961001042911.0068140c@bluenet.net>
Rendered body type: text/plain

```
I found out the beeps where coming from the weather alarms.  Seems I forgot
to set the distance command and was getting a weather alarm from 500miles away.
                                   thanks,
                                        Jamie - KE4HTM

+----------------------------------------------------+
|                  Jamie R. Dean                     |
| Amateur Radio Call: KE4HTM                         |
| Internet E-Mail...: ke4htm@bluenet.net             |
| APRS Page.........: http://www.bluenet.net/ke4htm |
+----------------------------------------------------+
```

October 1996

Original source file: aprssig.9610
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-10/TAPR-APRS_1996-10.txt

1. c/cm/cmd calls

```
From: henryvb <henryvb@dpliv.com>
Date: Tue, 01 Oct 1996 02:36:20 -0500
To: aprssig@tapr.org
Message-ID: <3250C9F4.9AE@dpliv.com>
Rendered body type: text/plain
```

```
BobAPR sed (while talking about graying wx stations):

> Sometimes your transmitted packet may be received
> with a slight garble (such has having a "c" or "cmd" infront of it.  APRS
> sees this as a NEW station with the call of cmdW3XYZ and then plots this
> garble of your station ON TOP of your station.  Since this was a ONE-TIME
> garble, it will eventually fade to gray!

Bob, since this appears to be a gigantic problem (I get this 3-4 times a
day), how about stripping the lower case code off the front of a
callsign if it is a c/cm/cmd in front of an upper case callsign?  Should
be just a few lines of code, and would take care of a bunch-o-things,
including gray stations, dupes on the p- l- d- lists and bulletins, etc,
etc.

Henry
N9WMM
henryvb@dpliv.com
```

---

2. starting the coffee pot via aprs

```
From: henryvb <henryvb@dpliv.com>
Date: Tue, 01 Oct 1996 02:45:31 -0500
To: aprssig@tapr.org
Message-ID: <3250CC1B.10EF@dpliv.com>
Rendered body type: text/plain
```

```
Joe kf4dys wrote:

> Now if it would just start the coffee pot for me... :-)

I'm not sure if it can start the coffee pot, but APRS should
be able to make the rest of your breakfast for you.
Read the doccumentation about the Hardware Cereal Port :)

Henry
```

---

3. Re: [APRSSIG:5271] starting the coffee pot via aprs

```
From: William Nolle <wa8inz@cris.com>
Date: Tue, 01 Oct 1996 04:04:28 -0700
To: aprssig@tapr.org
Message-ID: <3250FABC.31F9@cris.com>
Rendered body type: text/plain
```

```
henryvb wrote:
>
> Joe kf4dys wrote:
>
> > Now if it would just start the coffee pot for me... :-)
>
> I'm not sure if it can start the coffee pot, but APRS should
> be able to make the rest of your breakfast for you.
> Read the doccumentation about the Hardware Cereal Port :)
>
> Henry

I BET it can start his coffee pot ;-)
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
```

```
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

4. Re: [APRSSIG:5271] starting the coffee pot via aprs

From: Cap Pennell <cap@cruzio.com>
Date: Tue, 01 Oct 1996 02:11:11 -0700
To: aprssig@tapr.org
Message-ID: <3250E02F.625B@cruzio.com>
Rendered body type: text/plain

```
henryvb wrote:
> Joe kf4dys wrote:
> > Now if it would just start the coffee pot for me... :-)
>
> I'm not sure if it can start the coffee pot, but APRS should
> be able to make the rest of your breakfast for you.
> Read the doccumentation about the Hardware Cereal Port :)
> Henry

In the morning, as I watch the screen for the latest aprS HIT from the
digipeater, I geusS HOW ERrors might sometimeS HAVE been caused by
collisions.  A little coffee and cereal, then off to work I drive hoping
that my stand-alone tracker doesn't cause a collision. :)  Start your
day with APRS!
73.  Cap

--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com
packet radio: ke6afe@kg6ee.#cca.ca.usa.noam
```

5. APRS DOC Files

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Tue, 01 Oct 1996 06:56:13
To: aprssig@tapr.org
Message-ID: <199610011155.HAA12489@mail-e2b.gnn.com>
Rendered body type: text/plain

```
An Open Letter to Mark Sproul:

Dear Mark:

My only motive in suggesting the posting of a zipped file of the
APRS TXT files on the TAPR ftp site was to try to help the MAC and
WIN95 users.  I had no intention of trespassing on your domain, and
apologize if it seemed that way.  I am a relatively new user of
APRS and did not know that APRSMAC had its own little acre on the
TAPR ftp.  And since I do not have the technical expertise to
upload to an ftp, you really don't have anything to worry about.
Also, I find MAC users a little strange as the ratio of MACs to IBM
compatibles in the reald world is about 1 to 99.

Have a nice day.  John - N5XAK...
```

6. Re: [APRSSIG:5273] Re: starting the coffee pot via aprs

From: ku0g@sprynet.com
Date: Tue, 1 Oct 1996 05:34:04 -0700
To: aprssig@tapr.org
Message-ID: <199610011234.FAA19748@m1.sprynet.com>
Rendered body type: text/plain

```
Stand-alone trackers don't cause collisions.  It's when you try to type on a
laptop in the passenger seat at 75 MPH!

A joke, yes, but seriously folks....

If you're running full laptop mobile APRS, PLEASE keep your eyes on the road
FIRST!  Mount your computer on the dashboard, if possible, or place it in the
vehicle so that you DON'T have to take your eyes off the road and risk killing
yourself or other!

My mobile installation ('93 Chevy Beretta) has the laptop on the dashboard
(passenger side) held in place with a rubber bungee.  The GPS has it's own
cradle and the SPM Switch is mounted to the GPS cradle.
```

I don't have to look at the GPS or the computer to update my position and a
quick glance to do an X-P to send the updated position is easily done without
taking my eyes off the road ahead for more than a second or two.

Not everybody has this type of recessed/flattened dashboard but when I bought
the car last spring mounting the computer WAS one of the considerations in
evaluating the interior. A mini-van was my close 2nd choice because of the
console...

On another note....

BOB B...Why doesn't the position timer reset when an updated posit is received
from the GPS? It would seem appropriate and eliminate the need to hit any keys
to send the new position. At 70 MPH given P>9 timer parameter by the time a
mobile sends the posit he may be 10-12 miles away. This is fine if you're in a
passive tracking mode and this type of accuracy is adequate but what about a
real-time tracking event (i.e. Marathon, Bike Rides, etc.)?
How about a choice of posit transmit periods? Normal or user selectable rate
would serve the purpose, I'd think. Same type of parm input as you're using on
REDRAW RATE....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

7. Re: Graying WX stations.

From: kf4dys@juno.com (Joe Foor)
Date: Mon, 30 Sep 1996 21:57:17 PST
To: aprssig@tapr.org
Message-ID: <19961001.075144.4503.0.kf4dys@juno.com>
Rendered body type: text/plain

On Mon, 30 Sep 1996 19:25:22 -0500 (CDT) Richard Amirault
<amirault@laraby.tiac.net> writes:
>On Mon, 30 Sep 1996, Bob Bruninga wrote:
>>
>> APRSdos REPLY/COMMENT: Sometimes your transmitted packet may be
>>received
>> with a slight garble (such has having a "c" or "cmd" infront of it.
>>APRS
>> sees this as a NEW station with the call of cmdW3XYZ and then plots
>>this
>> garble of your station ON TOP of your station.>
>
>I have noticed this "garble" on occasion.....always on my own station
>call.

I see this quite frequently, on any incoming packet. It
normally happens whenever I bring the APRS window into
the foreground (multi-tasking in windoze 3.11). I have
watched the output of the local digi and it doesn't
appear corrupted, so I figured it was just in my receive
buffer and blamed it on poor memory protection in
windoze.

If I run APRS from DOS, then it doesn't happen.

regards,
Joe

---

8. Re: [APRSSIG:5271] starting the coffee pot via aprs

From: mcinnis@austin.ibm.com (McInnis)
Date: Tue, 1 Oct 1996 09:54:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9610011454.AA21206@babe01.austin.ibm.com>
Rendered body type: text/plain

>
> Joe kf4dys wrote:
>
> > Now if it would just start the coffee pot for me... :-)
>
> I'm not sure if it can start the coffee pot, but APRS should
> be able to make the rest of your breakfast for you.
> Read the doccumentation about the Hardware Cereal Port :)
>
> Henry
>

>

Sure it does coffee. Check the archives for the java interface.

--
Mickey McInnis - mcinnis@austin.ibm.com
--
All opinions expressed are my own opinions, not my company's opinions.

9. Re: [APRSSIG:5253] Re: DOS *.TXT FILES

From: Paul Christenson <paulc@cyclades.com>
Date: Mon, 30 Sep 1996 15:07:29 -0700
To: aprssig@tapr.org
Message-ID: <325044A1.72204FE4@cyclades.com>
Rendered body type: text/plain

Mark Sproul wrote:

> A xxx.EXE file is USELESS to a Mac user. A ZIP file is at least able
> to be read on a Mac (can a PC handle a Mac Stuffit file?).

A self-extracting ZIP file can be unzipped by a regular unZIP program.
It's simply a standard ZIP file with a small header tacked on.

And yes, there are un-Stuffit programs available for the PC.

--
```
        +----------------------------------------------------+
        | Technical Support Engineer, Cyclades Corporation   |
        | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
        | Maker of High Performance Multiport Serial Cards   |
        | Unsolicited mail ads subject to a $25 handling fee |
        +----------------------------------------------------+
```

10. Re: [APRSSIG:5274] APRS DOC Files

From: Dick Mead <mead@hamal.usc.edu>
Date: Tue, 1 Oct 96 10:07:03 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.844189623.mead@hamal.usc.edu>
Rendered body type: text/plain

> An Open Letter to Mark Sproul:
>
> Dear Mark:

...

> Also, I find MAC users a little strange as the ratio of MACs to IBM
> compatibles in the reald world is about 1 to 99.
>
> Have a nice day. John - N5XAK...
>
>

Now John, this REALLY annoys me. I am NOT "a little strange".

I am a LOT strange   ;)
get a grip

Dick WB6NGC

11. Matt (WT3C) & USCG Icebreaker "Polar Star"

From: kb6lfm@ix.netcom.com
Date: Tue, 01 Oct 1996 10:11:21 -0700
To: aprssig@tapr.org
Message-ID: <325150B9.76CD@ix.netcom.com>
Rendered body type: text/plain

```
Greetings all.

  Please give Matt (newbie) WT3C a warm welcome to APRS SIG. Matt is the
MREO (Radioman) on the USCG Icebreaker Polar Star. Matt contacted me a
few days ago expressing a desire to get on APRS. I believe I've got him
pointed in the right direction by hooking him up with his local  APRS
"Guru" and suggested he join us here on the SIG. I'm going to try and get
Matt to rig-up a 30m beacon on the "Polar Roller". Believe "she" is in WA
now, and soon to depart for Antarctica. At present, Matt is looking for
some local maps.  <see attached>

My thanks & 73.  Bill
```

[Attachment: MATT5; text/plain; 1,097 bytes]

12. Ultimeter Data Logger Software

From: "Ron Malinowski, Jr." <weather@xnet.com>
Date: Tue, 1 Oct 1996 13:03:41 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199610011803.NAA25226@mail.xnet.com>
Rendered body type: text/plain

```
I am looking for a report on the Ultimeter's fotware that you can purchase
to log data.  I know people who own the davis units there software does a
pretty good job of logging and keeping information in a form that people can
determine one days high and low, and when a hig wind gust occured, and a
visual chart of current conditions and highs and low, does the Ultimeter
software do the same?  I am told you can graph any variable for any time
frame, which sound good.  Any comments appreciated, especially if anyone has
played with both software programs.
```

13. Re: [APRSSIG:5270] c/cm/cmd calls

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 1 Oct 1996 14:44:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961001144248.17410D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 1 Oct 1996, henryvb wrote:

> Bob, since this appears to be a gigantic problem (I get this 3-4 times a
> day), how about stripping the lower case code off the front of a
> callsign if it is a c/cm/cmd in front of an upper case callsign?  Should
> be just a few lines of code, and would take care of a bunch-o-things,

APRSdos REPLY/COMMENT: That code has been in there all along.  It
strips off any leading cmd: or "c"  but what still gets through are cmd:
cc, ccmd etc that dont match exactly.  Making it generic to all lower case
letters might work...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

14. Re: [APRSSIG:5275] Re: starting the coffee pot via aprs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 1 Oct 1996 14:49:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961001144719.17410E-100000@arctic>
Rendered body type: text/plain

```
On Tue, 1 Oct 1996 ku0g@sprynet.com wrote:

> BOB B...Why doesn't the position timer reset when an updated posit is
> received  from the GPS?  It would seem appropriate and eliminate the
> need to hit any keys to send the new position.  At 70 MPH given P>9 timer
> parameter by the time a mobile sends the posit he may be 10-12 miles
> away!

APRSdos REPLY/COMMENT:   Operator error. Set your POSRATE to what ever you
want using the ALT-S-POSRATE command.  Save a config file to keep it that
way...

Reply mail addr:  wb4apr@amsat.org
```

See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

15. Re: [APRSSIG:5259] Re: 144.3-.5 Mhz Mobile Satellite channels

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 01 Oct 1996 13:58:44 -0500
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961001135842.006f1b94@144.188.134.33>
Rendered body type: text/plain

```
At 01:26 PM 9/30/96 -0500, you wrote:
>WB4APR REPLY:  Very true.  But for the typical vertical 1/4 wave omni
>antenna which a mobile would use for mobile satellite communications,
>and which the microsat will use as a receive antenna, the aperture of
>the antenna *is* proportional to wavelength squared and therefore the
>overall pathloss is less in this application.  Considering the larger
>aperture on both the vehicle and the satellite for 19" whips, I think the
>advantage of 2 meters is actually about 9.5 dB!
>

I agree with the 9.5 dB statement, but be careful with the "considering the
larger aperture  on both" part. The reason is that only exactly the
transmitter power goes into the upper hemisphere from the TX  1/4 whip, no
matter what the wavelength. (OK ignoring cable losses, nearby object
absorption, atmospheric absorption and a few others). Thus only the
increase in the RX end aperture helps the path loss.


Paul Moller
Motorola CSG
847-523-5210
Motorola pager #7378
```

---

16. Re: [APRSSIG:5281] Ultimeter Data Logger Software

From: Paul Moller <Paul_Moller@csg.mot.com>
Date: Tue, 01 Oct 1996 14:21:34 -0500
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961001142132.006f4890@144.188.134.33>
Rendered body type: text/plain

```
At 01:09 PM 10/1/96 -0500, you wrote:
>I am looking for a report on the Ultimeter's fotware that you can purchase
>to log data.  I know people who own the davis units there software does a
>pretty good job of logging and keeping information in a form that people can
>determine one days high and low, and when a hig wind gust occured, and a
>visual chart of current conditions and highs and low, does the Ultimeter
>software do the same?  I am told you can graph any variable for any time
>frame, which sound good.  Any comments appreciated, especially if anyone has
>played with both software programs.
>

And what do we expect out of the next release of Winaprs? and how will that
compare to these softwares?


>
>
Paul, WD9ABE
```

---

17. Re: [APRSSIG:5285] Re: Ultimeter Data Logger Software

From: Mark Sproul <sproul@ap.org>
Date: Tue, 1 Oct 1996 15:49:22 -0400
To: aprssig@tapr.org
Message-ID: <v0300780fae7725ee95cd@[165.1.27.20]>
Rendered body type: text/plain

```
>>I am looking for a report on the Ultimeter's fotware that you can purchase
>>to log data.  I know people who own the davis units there software does a
>>pretty good job of logging and keeping information in a form that people can
>>determine one days high and low, and when a hig wind gust occured, and a
>>visual chart of current conditions and highs and low, does the Ultimeter
>>software do the same?  I am told you can graph any variable for any time
>>frame, which sound good.  Any comments appreciated, especially if anyone has
>>played with both software programs.
>>
>
>And what do we expect out of the next release of Winaprs? and how will that
>compare to these softwares?
>
```

```
>

About WinAPRS and weather history data

All of this is currently able to be done under MacAPRS, therefore it WILL
be ported to WinAPRS, it is not real high on the list but should be done in
a few more months.

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

18. APRS HF Dedicated Xcvr: FCC Part 15 Testing

From: John.Klingelhoeffer@comsat.com
Date: Tue, 1 Oct 1996 16:58:38 -0400
To: aprssig@tapr.org
Message-ID: <25188FA0.1957@comsat.com>
Rendered body type: text/plain

A couple of weeks ago, I posted a note about discussions I'd had with WB4APR about a dedicated HF transceiver for APRS use. I'd mentioned in that that one of the things that had dissuaded me from going much further on it was the need to submit the prototype design to an FCC test lab for Part 15 testing prior to kitting or manufacturing.

Offline in private conversation (if you can call 2 meters private!), Bob asked me if I was sure about that with regard to kits. I have gone back and checked 47CFR Part 15, and yes, indeed, that would be required. Per part 15.23 (referring to a kit type device):

"15.23 Home-built devices.

(a) Equipment authorization is not required for devices that are not marketed, are not constructed from a kit, and are built in quantities of five or less for personal use."

Since these devices would be both marketed, and a kit, testing and submission of data (by a qualified test house) does apply. I also fall back to my time as a design engineer for Heathkit in the late '70's and early '80's to know that at least at that time we had to go through this for each kit model that had a receiver within the Part 15 range.

Again, it does seem very strange to me that one can sell a kilowatt power amplifier kit without having it tested, but cannot sell a receiver where incidental radiation is the "problem". However, that is the case. Selling a "kitted" or complete amateur radio transceiver has the barrier to entry that the receive section must be tested at cost to the producer, but the transmitter does not necessarily have to.

What exactly consititutes a kit may be open to interpretation; if a PWB alone is sold, and it is up to the purchaser to find the other parts, is it a kit? If you sell a grouping of all of the electronic components, but no cabinet, is it a kit? Certainly, if anything, the performance would probably be more repeatable if only one entity were supplying all of the parts.

I'd still like to know how many APRS'ers would want to spend the $199 for a single channel, single band, low power, FSK only, HF data radio.

73

John...
WB4LNM

---

19. Re: [APRSSIG:5276] Re: Graying WX stations.

From: rwf <rwf@mindspring.com>
Date: Tue, 01 Oct 1996 17:49:18 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961001214918.006e9d70@mindspring.com>
Rendered body type: text/plain

Happens all the time to me in DOS. The filter is a great Idea, Bob!!
And Bob- if you say the filter for   c is there, then maybe you broke it,

cause I get a lot of them.

I see it on other calls, too. Used to show up a lot on HSP mode (folks would also become lighthouses), but with the PICO, all that problem has disappeared.

>>> APRSdos REPLY/COMMENT: Sometimes your transmitted packet may be
>>>received
>>> with a slight garble (such has having a "c" or "cmd" infront of it.
>>>APRS
>>> sees this as a NEW station with the call of cmdW3XYZ and then plots
>>>this
>>> garble of your station ON TOP of your station.>
>>
>>I have noticed this "garble" on occasion.....always on my own station
>>call.

---

20. Re: [APRSSIG:5275] Re: starting the coffee pot via aprs

From: rwf <rwf@mindspring.com>
Date: Tue, 01 Oct 1996 17:49:16 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961001214916.006d0714@mindspring.com>
Rendered body type: text/plain

At 07:50 AM 10/1/96 -0500, KU0G wrote:

>How about a choice of posit transmit periods? Normal or user selectable rate
>would serve the purpose, I'd think. Same type of parm input as you're
using on
>REDRAW RATE....

Jim- Why not try using HSP mode. I use it and love it! The ALT S P screen allows selectable posit rates all the way down to once a second. Same for the update on screen from the GPS. I use a 30 second screen update rate and the default 180 second position rate. If I need a good screen trail, I can toggle HSP once a second, getting a good breadcrumb trail and then slow down the toggle when I have mapped the road I want.

Why are you using SPM anyway, you seem to be a pretty intense user of APRS- I'd expect you to be using it already (but I do know you sell the SPM switch).

And your comment on how easy it is to do an X P and send a posit.... I have been trying to impress that on the Authors of APRS for other platforms too! Many people don't operate mobile much and have a chance to appreciate the single key commands. No functon or alternate key, just plain, simple single keys (like you can do out of the corner of your eye).

Ralph Fowler, N4NEQ , S.E.R.A. ATV Technical Advisor Atlanta, GA USA

Internet Email: rwf@mindspring.com Pager Email: 7647836@skytel.com
2 way pager: 1 (800) 764-7836
http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
Ask me how!

---

21. RE: [APRSSIG:5287] APRS HF Dedicated Xcvr: FCC Part 15 Testing

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 1 Oct 1996 18:14:21 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBAFC4.5F50C400@gwyn.paccomm.com>
Rendered body type: text/plain

John.Klingelhoeffer@comsat.com[SMTP:John.Klingelhoeffer@comsat.com] said:

>Again, it does seem very strange to me that one can sell a kilowatt power
>amplifier kit without having it tested, but cannot sell a receiver where
>incidental radiation is the "problem". However, that is the case.

I agree with the facts John has uncovered and with his observation about 'strangeness.' I'd call it dumb!
Describe it as you may, it is a real hinderance to the production of amateur radio products.

But, the cost is perhaps $5000 so it is not a show stopper if there really

is a market. But that is $10 over 500 units (unlikely) or $50 over 100
units (too much per unit).   Don't you see why hams tag along on commercial
units.

22. RE: NE Ohio Hf Stations heard

From: "KB8AST" <kb8ast@rush.MWWEB.COM>
Date: Tue, 01 Oct 96 21:07:56 PDT
To: aprssig@tapr.org
Message-ID: <MAPI.Id.0016.00623861737420203030303630303036@MAPI.to.RFC822>
Rendered body type: text/plain

I wrote a message on HF STATIONS HEARD IN NE OHIO.
>KT4DD, KUOG-1, KF0ZH, WB9OML, W4HBK, N2CZF, HH2B, WD5CWZ, VA6RTX,
>WD4HZO, W5RPQ, N0AN, WB5RYR, NU5Q, W7LUS-14/mob, W7LUS, K4OLZ, KP4DDB
>I have a question, are the hf digi's vertically or horizonally polarized.
>I would suspect vertical because that would permit the best 360 degree
>pattern. 73, de KB8AST
>END OF MSG

...and I recieved this interesting note on Tuesday, October 1.

From: WB4GQK@W4DPH.#TPA.FL.USA.NA
To : KB8AST@KB8AST.#NEOH.OH.USA.NA

Hi, Well you will not see my station, simply because I use a full wave
30 meter end fed sloper. It's slope direction is 170 deg. Unfortunately
NE OHIO is PRECISELY blanked by my 50' tower.
This antenna was purposely set up to track cruising hams in the
Caribbean. I maintain a list of 29 vessels and pass their positions over
a voice Maritime Mobile net. On an average there is about 3 vessels
that will digi their positions each day.
Generally they transmit between 0800-0900 EDT. The posit
beacons are directed to me and as soon as my station ACKs their
beacon they generally shut down (to conserve power). You should
be able to see the vessels in the P.R. and Virgins. There have
been 5 transmitting from Venezula and Trinidad which are fairly
weak. You may not be able to copy them. AD4MR has a good S7
signal and he is cruising in the San Blas islands, just off Panama. My
station runs every day from 0600 to 2200 EDT.
As a side issue most of these cruising Hams have given our tel
number to their family and close friends. My XYL, N4TFP and I
receive at least one phone call a week for information about a
vessel's location and enroute progress. ....APRS is serving another
great service. 73 de Jim WB4GQK@W4DPH.#TPA.FL.USA.NOAM

GRIDSQ   --- EN91kr

May you have the pleasure of participating in a challenging existance..
73 from G. R. (Bob) Merchant in Perry Twp, Lake County, Ohio

Packet   --- kb8ast.#neoh.oh.usa.na
ampr.org --- kb8ast@geaugasw.ampr.org
TCP/IP   --- kb8ast.ampr.org [44.70.248.17]
neswch.ampr.org [44.70.248.18]
INTERNET --- hi010@cleveland.freenet.edu
KB8AST@www.mwweb.com
PUBLIC ACCESS LANDLINK ---   216-259-5612

23. Precision Mapping

From: "Bob Dye" <kc4hdk@gate.net>
Date: Tue, 1 Oct 1996 21:43:36 -0400
To: "aprs sig" <aprssig@tapr.org>
Cc: "Chicago Map Corporation" <Mail@chicagomap.com>
Message-ID: <199610020142.VAA42570@osceola.gate.net>
Rendered body type: text/plain

I purchased the software last Wednesday and have found that is inoperative with a Magellan Meridian. A Garmin seems to work fine. Only the RMC statement is missing from the Magellan. Neither has the satellite information working. I contacted the company Sunday with e-mail and have yet to receive a response. Monday I did call and was informed that a new version of the GPS interface would be released and available through their web page. I wrote a small letter including a few line of sample data from the Magellan and faxed it over to their company. I am patiently awaiting their response. I am not directly on the APRS sig so please E-MAIL me direct.

```
           Bob
kc4hdk@gate.net!
```

24. Re: [APRSSIG:5286] Re: Ultimeter Data Logger Software

From: "Jerry Rector" <jerryr49@magg.net>
Date: Tue, 1 Oct 1996 22:16:54 -0400
To: <aprssig@tapr.org>
Message-ID: <199610020218.WAA21769@grumpy.magg.net>
Rendered body type: text/plain

```
Mark,
   I am using the Davis Weather Monitor II (COM4) and an MFJ 1270b (COM2)
under WinAPRS 1.1.3

   All weather data gets transmitted correctly, but in the Weather Display
Window, the current wind direction
   shows up on the upper compass rose, while the current wind speed shows
up the the lower box.

   What are the two compass roses and the two wind speed boxes?

    (The upper wind speed box never shows and data)

    (I don't know WHAT the lower compass rose is displaying.)

73 de Jerry, KB4OAM
----------
> From: Mark Sproul <sproul@ap.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5286] Re: Ultimeter Data Logger Software
> Date: Tuesday, October 01, 1996 4:11 PM
>
> >>I am looking for a report on the Ultimeter's fotware that you can
purchase
> >>to log data.  I know people who own the davis units there software does
a
> >>pretty good job of logging and keeping information in a form that
people can
> >>determine one days high and low, and when a hig wind gust occured, and
a
> >>visual chart of current conditions and highs and low, does the
Ultimeter
> >>software do the same?  I am told you can graph any variable for any
time
> >>frame, which sound good.  Any comments appreciated, especially if
anyone has
> >>played with both software programs.
> >>
> >
> >And what do we expect out of the next release of Winaprs? and how will
that
> >compare to these softwares?
> >
> >
>
> About WinAPRS and weather history data
>
> All of this is currently able to be done under MacAPRS, therefore it WILL
> be ported to WinAPRS, it is not real high on the list but should be done
in
> a few more months.
>
> Mark
>
>
__________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
>
__________________________________________________________________________
>
```

25. Re: [APRSSIG:5244] Re: Graying WX stations.

From: Larry Miller <lmiller@ezl.com>
Date: Tue, 01 Oct 1996 22:02:29 -0500
To: aprssig@tapr.org
Message-ID: <3251DB45.37D0@ezl.com>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Sun, 29 Sep 1996, Larry Miller wrote:
>
> >   I still am having my station graying out. I tried to delete the old
> > config file and rebuild and I am still having the problem.
>
> APRSdos REPLY/COMMENT: Sometimes your transmitted packet may be received
> with a slight garble (such has having a "c" or "cmd" infront of it. APRS
> sees this as a NEW station with the call of cmdW3XYZ and then plots this
> garble of your station ON TOP of your station. Since this was a ONE-TIME
> garble, it will eventually fade to gray! COuld this be it?

I don't think so. I zeroed the memory and my station still appeared
gray. Looks like I need to go back to 7.6f.
--
Larry
   Personal: lmiller@ezl.com
   Ham Radio: n9lbg@kd9sg.#sil.il
   Home Page: http://www.ezl.com/~lmiller

---

26. Re: [APRSSIG:5280] Matt (WT3C) & USCG Icebreaker "Polar Star"

From: etjm@ECUA.NET.ec (teodoro jaramillo)
Date: Tue, 01 Oct 1996 20:48:26 -0500
To: aprssig@tapr.org
Message-ID: <9610020340.AA46794@ecua.net.ec>
Rendered body type: text/plain

Hello Bill and HELLO MATT W T 3 C ....

Short msg to reunite efforts and fun and new digital techniques
nowdays....sosrt of lost each other on pactor-short and long
path for a while...great opportunity to "TRACK THE POLAR STAR".
everyone around will be delilghted and a great challenge..so with
the efffective help of Bill and everyone on this net.... i do not think
you have an alternative.... have to set up a 30meter. system
with a vertical,tunned or anything on the   Breaker.... Great to see you ...
My efforts are at this time:
486 dx 4 100 and or course APRS.
ICOM 765 (TCXO) ON 10.151 USUALLY AT PROPAGATION TIMES WHICH ARE
EVENINGS 2300Z TILL 1200Z OR SO MOSST OF THE TIME.

BEACONING WITH A   PACCOMM TINY -2 MK2-GPS AND A   KAM+ GATEING
FROM VHF TO HF AT TIMES WHEN MOBILE.. NOT TOO OFTEN...AND FIXED
AT 0255.15S 0799.56W AND 2860 METERS ABSL.
ANTENA B & W BETWEEN TWO TOWERS ABOUT 75 FEET OR SO....
FUTURE SYSTEMS STUDYING THE POSSIBILITIES AND SERVICES OF EITHER
A ULTIMETER-II AND OR DAVIS SYSTEM (UNDER STUDY AT PRESENT TIME).

So far I am the only (crazy sysop) doing all digital modess inclu
dying some sats, and pactor 1 and 2   Clover and also contesting
RTTY at times. Just need more time.....
Well i have taken note of your address at prodigy and will not
abusse the aprssig net... again.

Much to learn yet at this end but friends very helpful and reading
an average of 50-80 msgs a day keeps you busy with APRS and variations.....

Look forward as well as everyone else to TRACK the POLAR STAR in it's
artic approach... long ways from ECUADOR'S ANDES but will do out best.

Thanks Bill for posting and Bill also got me into the net a few
months ago....sure great.
Let us all know tyour operating routines for the future and I shall be on
the llok out for   gps-aprs and other pactor and g-tor as well...
  73's and   next msg will be thru Prodigy. Please do it
likewisse when you can...

etjm@az.pro.ec.

(message sort of justified for 'NEWBIES'......)
TED HC5K
>Greetings all.
>

```
>  Please give Matt (newbie) WT3C a warm welcome to APRS SIG. Matt is the
>MREO (Radioman) on the USCG Icebreaker Polar Star. Matt contacted me a
>few days ago expressing a desire to get on APRS. I believe I've got him
>pointed in the right direction by hooking him up with his local  APRS
>"Guru" and suggested he join us here on the SIG. I'm going to try and get
>Matt to rig-up a 30m beacon on the "Polar Roller". Believe "she" is in WA
>now, and soon to depart for Antarctica. At present, Matt is looking for
>some local maps.  <see attached>
>
>My thanks & 73.  Bill
>MSG#568 09/29/96 02:11:06 FROM WT3C TO KB6LFM
>SUBJECT: APRS INFO
>PATH: KG6DV
>
>Greetings.
>Thanks for the reply.
>Here is the information you requested:
>
>APRS VERSION:  APRS75C
>TNC:           KPC3 V 6.0 (GPS NMEA CAPABLE)
>               ALSO HAVE A KAM BUT ONLY V 7.1
>GPS:           GARMIN 45XL
>PURPOSE:       HOPEFULLY BOTH VHF AND HF
>               BASE, CAR AND MARTIME MOBILE
>               I'm on the CG icebreaker POLAR STAR
>
>Yes I'm on the net.
>I've searched the web and found many sites with APRS
>info but many came back with an invalid address.
>
>I downloaded my copy of APRS software on the web but
>was unable to find any maps for my area other than the
>generic US 48 state map.  What I was hoping for was
>someone to hold my hand and get me going with APRS
>vice continuing to search the web.
>
>INTERNET ADDRESS:  PHKV94A@PRODIGY.COM
>I'm on packet too but I prefer internet email and PACTOR/GTOR.
>
>Thanks again for taking the time to answer me.
>Hope to hear from you again soon.
>
>73,
>Matt (WT3C)
>
>OH, in case I forgot to tell you... I'm in the
>Seattle/Puget Sound area  (MAPS?)
>
>DE WT3C  SK
>
>
>
```

---

27. Re: [APRSSIG:5289] Re: starting the coffee pot via aprs

From: ku0g@sprynet.com
Date: Tue, 1 Oct 1996 21:36:11 -0700
To: aprssig@tapr.org
Message-ID: <199610020436.VAA17021@m1.sprynet.com>
Rendered body type: text/plain

Well, I tried to build an HSP and failed. I got in a hurrt as I had an event to track (the Olympic Torch Relay) and had to get the GPS interfaced and operational. I'm thinking that it may be best in the long-run with regard to channel-loading to use the SPM and force the xmit at my choice. Obviously if I am following a wall cloud then I'm going to want to uplink my position VERY often whereas when I'm mobile on the way to work I don't transmit my position more than every few minutes.

Maybe one of my local brethren in APRS will send me a better schematic than I have in the APRS docs. I'm a little fuzzy on what connects where in that printout....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

28. Re: NEPA APRS

```
From: rkramer@vaxxine.com (Ronald Kramer)
Date: Wed, 02 Oct 1996 06:47:26 GMT
To: aprssig@tapr.org
Message-ID: <32520e3c.4750202@vaxxine.com>
Rendered body type: text/plain
```

```
On Mon, 30 Sep 1996 07:30:14 -0500 (CDT), you wrote:

>There is a well located WIDE in Erie, PA. I ran across it on my trip thru
>there. I'll have to look it up first!

I believe it's callsign is   N3EOY

>J. Scott Ratchford - KC5JGV - Marshall, Arkansas
>* ARRL * ARES EC * RACES * NAARS, Inc. *
>* MVFD/EMS FR * CCL #426 *
>
>
>----------
>> From: Al Zelna <ldajz@epix.net>
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:5210] NEPA  APRS
>> Date: Saturday, September 28, 1996 6:03 PM
>>
>> Howdy folks,
>>
>> Some time ago I sent out a message to this SIG looking for the calls of
>> APRS WIDEs in WNY and ENY.  I don't seem to recall getting any replies.
>> Does anyone know if there are any in or around Hamandsport, Ithaca,
>> Elmira, Binghamton, Utica, or Albany?

For WNY  WIDE-RELAY's try:
KB2WYA in Rochester NY 144.390
W2ICZ-2  in Buffalo NY 144.390
KE2VW-2 in Holland NY 144.390

and on the North side of lake Ontario  try
VE3RPT   NE of Toronto 144.390
VE3YYZ  downtown Toronto 144.390
VE3YAP  NW of Toronto 144.390
VE3LSR  Norht of Toronto near Barrie 144.390

Hope this is of some help to you on your travels


Regards, Ron ...                          73 de Ron
         Internet: ve3mx@mergetel.com (Ron Kramer)
         Packet:   ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
```

---

29. Setup TheNet X-1J4 and APRS

```
From: Ken Morris <kmorris@enterprise.powerup.com.au>
Date: Wed, 02 Oct 1996 17:41:27 -0700
To: aprssig@tapr.org
Message-ID: <32530BB7.521F@mail.powerup.com.au>
Rendered body type: text/plain
```

```
Anybody setup the X1J software for APRS ?
It seems that only LAT's/Long's can be used in beacon ?

Be interested in any setup's for X1J's so that we can try it out
here in VK. We have 13 X1J's in service.

Best 73's
Ken Morris
VK4KWM
```

---

30. Subscribe

```
From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Wed, 02 Oct 1996 00:46:16 EDT
To: aprssig@tapr.org
Message-ID: <19961003.075107.7791.1.WD4CQE@juno.com>
Rendered body type: text/plain
```

```
subscribe
aprssig
wd4cqe@juno.com
```

---

31. Re: [APRSSIG:5296] Re: starting the coffee pot via aprs

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Wed, 02 Oct 1996 07:41:40 -0400
To: aprssig@tapr.org
Message-ID: <325254F4.3ADC@co.pinellas.fl.us>
Rendered body type: text/plain

ku0g@sprynet.com wrote:
>
> Well, I tried to build an HSP and failed. I got in a hurrt as I had an event to
> track (the Olympic Torch Relay) and had to get the GPS interfaced and
> operational. I'm thinking that it may be best in the long-run with regard to
> channel-loading to use the SPM and force the xmit at my choice. Obviously if I
> am following a wall cloud then I'm going to want to uplink my position VERY
> often whereas when I'm mobile on the way to work I don't transmit my position
> more than every few minutes.
>
> Maybe one of my local brethren in APRS will send me a better schematic than I
> have in the APRS docs. I'm a little fuzzy on what connects where in that
> printout....
>
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.comJim, when I built my HSP, I thought I had failed too...until I realized
those silver colored plastic db-9 connectors conduct electricity and
ground out your circuit unless you insulate it....make sure the
transistor legs cannot touch the body of your shielded 9 pin connector
before you give up on the idea....mine works great and was built right
from the docs.
--
***Kevin Heyboer
E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR   Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
****

32. Re: [APRSSIG:5296] Coffee pots and HSP vs SPM switches...

From: byoung@qni.com
Date: Wed, 2 Oct 1996 08:19:59 -0500
To: aprssig@tapr.org
Message-ID: <9610021320.AA25485@qni.com>
Rendered body type: text/plain

>Maybe one of my local brethren in APRS will
>send me a better schematic than I have in
>the APRS docs. I'm a little fuzzy on what
>connects where in that printout....

>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com

To the APRS SIG,

WHEREAS, I have successfully constructed (from the schematic in the
APRS docs...) and utilized an HSP switch.

WHEREAS, Jim has "commented" several times on the operation of my HSP
switch, and how much he'd like to get one working.

THEREFORE, Wishing to advance the APRS fraternity, and since I'm a
very kind, generous sort of person (as Jim will attest to...), I will
take pity on Jim (my fellow Kansas City APRS Working Group Board
Member, friend, and APRS mentor...), and help him install an HSP
switch. ;^)

Jim, you get the parts and a "proto" board, and we'll build you an
HSP...

Bill Young
byoung@qni.com
KB0UZQ

33. Re: [APRSSIG:5100] Re: UNPROTO and crippled unregistered software.

From: Rich Weinkauf x7179 <weinkar@aa.wl.com>
Date: Wed, 02 Oct 1996 11:04:03 -0400 (EDT)
To: "aprssig@tapr.org" <aprssig@tapr.org>

Message-ID: <7603041102101996/A93064/PDAV02/11AA12C33500*@MHS>
Rendered body type: text/plain

```
>On Wed, 25 Sep 1996, William Nolle <wa8inz@cris.com> wrote:
>
>>This is exactly what i'm talking about. Here a user admits using APRS
>>for two years without registering, don't try to tell me it took that
>>long for that user to make up his mind on if he wanted to use APRS or
>>not. Also look at the path he used just to do some testing (Sure) at
>>other users expense. This would have been prevented if there was no
>>way for this user to have that type of path.
>
>Bill and the group,
>
>You miss the point!  It *DID* take him that long to make up his mind
>about using APRS, and when he (finally...) did decide, he registered
>just as Bob intended.
>
>Also, take note of the fact that the user tried some "strange stuff",
>but caught his own error and learned a few things that he can now pass
>on *from his own experience* to new users he helps.
>

>
>Bill Young
>byoung@qni.com
>KB0UZQ

THANK YOU, Bill, for getting the point, and correcting an emotional
respsondent, who didn't.  It DID take two years to make up my mind, because I
didn't see all the features in the software I needed when I first started using
it.  I downloaded a copy now and then to check out it's progress.  I support
shareware staunchly, and register all software I USE.

And experimentation is one of the bases for amateur radio.  I EXPERIMENTED with
the wild digi path, I didn't set it up and walk away from it.  I thought I made
it clear in my message, but you can always count on someone to miss the point.

Thanks again, Bill, for your level-headed view of the world.
Rich
```

34. unsubscribe

From: "PATRICK EBERHART" <pceberhart@combase.com>
Date: Wed, 2 Oct 1996 11:02:12 -0400
To: <aprssig@tapr.org>
Message-ID: <199610021514.LAA18713@ns.combase.com>
Rendered body type: text/plain

[Empty message body]

35. Re: [APRSSIG:5299] Subscribe

From: hilman@camosun.bc.ca (Don Hilman)
Date: Wed, 2 Oct 1996 08:35:04 -0700
To: aprssig@tapr.org
Message-ID: <9610021535.AA14183@ccins.camosun.bc.ca>
Rendered body type: text/plain

```
got this in error I presume>subscribe
>aprssig
>wd4cqe@juno.com
>
>
>
-Don
```

36. Re: [APRSSIG:5303] unsubscribe

From: hilman@camosun.bc.ca (Don Hilman)
Date: Wed, 2 Oct 1996 08:49:53 -0700
To: aprssig@tapr.org
Message-ID: <9610021549.AA18414@ccins.camosun.bc.ca>
Rendered body type: text/plain

```
extra traffic

>
>
>
-Don
```

37. Re: [APRSSIG:5257] APRS Documentation

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Wed, 2 Oct 1996 11:02:46 -0500
To: aprssig@tapr.org
Message-ID: <v03007801ae78404e7b14@[138.87.2.109]>
Rendered body type: text/plain

```
Mark Sproul said:
>The ENTIRE documentation for APRS can be found at
>
>http://aprs.rutgers.edu/APRS/
>

I missed the area where it talks about where (what directory) to put either
of the .DLLs when I am using Windows 95.   I didn't see it in the WinAPRS
documentation file included with WinAPRS. Would someone tell me:

- What is the subdirectory arrangement necessary for WinAPRS?

- Is folder WinAPRS the required name in the root directory?

- Which system directory do the DLL's go into?

- How do you know which DLL to put in?

- What is the minimum RAM memory necessary?

Make it simple, us Mac users are used to plug and play. Thank you in advance.


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

38. Re: [APRSSIG:5304] Re: Subscribe

From: hilman@camosun.bc.ca (Don Hilman)
Date: Wed, 2 Oct 1996 09:10:44 -0700
To: aprssig@tapr.org
Message-ID: <9610021610.AA20028@ccins.camosun.bc.ca>
Rendered body type: text/plain

```
Yoou habve bounced this message to me severaltimes now ..please fix your
listserv.




>got this in error I presume>subscribe
>>aprssig
>>wd4cqe@juno.com
>>
>>
>>
>-Don
>
>
>
-Don
```

---

39. Re: [APRSSIG:5298] Setup TheNet X-1J4 and APRS

From: Don Pendry <dpendry@mail.telis.org>
Date: Wed, 2 Oct 1996 09:16:43 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19961002091618.1ab7fbbe@mail.telis.org>
Rendered body type: text/plain

```
At 02:40 02/10/96 -0500, you wrote:
>Anybody setup the X1J software for APRS ?
>It seems that only LAT's/Long's can be used in beacon ?
>
>Be interested in any setup's for X1J's so that we can try it out
>here in VK. We have 13 X1J's in service.
>
>Best 73's
>Ken Morris
>VK4KWM
>
>I'm currently running X1J software as a node and would like to try it on APRS -
```

```
any info you can furnish would be greatly appreciated..73's N6AER - Don in
Joshua Tree, CA.
>
Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California  92252
dpendry@telis.org
```

---

40. Re: [APRSSIG:5257] APRS Documentation

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Wed, 2 Oct 1996 11:23:56 -0500
To: aprssig@tapr.org
Message-ID: <v03007802ae78472d187e@[138.87.2.109]>
Rendered body type: text/plain

```
>Mark Sproul said:
>
>The ENTIRE documentation for APRS can be found at
>
>http://aprs.rutgers.edu/APRS/

The full WinAPRS documentation is at:

ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/WinAPRSDocs.txt

Thank you very much.

Larry
```

---

41. Re: [APRSSIG:5306] Re: APRS Documentation

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 02 Oct 1996 13:22:56 -0700
To: aprssig@tapr.org
Message-ID: <3252CF20.42AD@cris.com>
Rendered body type: text/plain

```
Larry Keeran wrote:
>
> Mark Sproul said:
> >The ENTIRE documentation for APRS can be found at
> >
> >http://aprs.rutgers.edu/APRS/
> >
>
> I missed the area where it talks about where (what directory) to put either
> of the .DLLs when I am using Windows 95.   I didn't see it in the WinAPRS
> documentation file included with WinAPRS. Would someone tell me:
>
> - What is the subdirectory arrangement necessary for WinAPRS?
>
> - Is folder WinAPRS the required name in the root directory?
>
> - Which system directory do the DLL's go into?
>
> - How do you know which DLL to put in?
>
> - What is the minimum RAM memory necessary?
>
> Make it simple, us Mac users are used to plug and play. Thank you in advance.

Larry,

The DLL's are for running WinAPRS on a 16 bit system like Windows 3.1,
if you are
running Win95, then you don't need the DLL's beacuase the program is 32
bit and so
is your operating sydtem.

Hope this helps you. I'm back into the wood work.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "        "
        mailto:Jagrelo@cris.com
```

```
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

42. Re: Subscribe

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 2 Oct 1996 13:08:55 PST
To: aprssig@tapr.org
Message-ID: <19961002.131125.8215.4.kf4dys@juno.com>
Rendered body type: text/plain

```
Hi Don;

According to the "welcome aboard" message I received, when I subscribed
to a mailing list at tapr.org, tapr uses a listproc, not a listserv. If
you address your commands to the address listproc@tapr.org you might be
able to accomplish something.

regards,
Joe

On Wed, 2 Oct 1996 11:21:26 -0500 (CDT) hilman@camosun.bc.ca (Don Hilman)
writes:
>Yoou habve bounced this message to me severaltimes now ..please fix
>your
>listserv.
>
>
>
>
>>got this in error I presume>subscribe
>>>aprssig
>>>wd4cqe@juno.com
>>>
>>>
>>>
>>-Don
>>
>>
>>
>-Don
>
>
```

---

43. APRS FAQ/Tutorial

From: SWeigold@aol.com
Date: Wed, 2 Oct 1996 14:40:53 -0400
To: aprssig@tapr.org
Message-ID: <961002144052_116582207@emout16.mail.aol.com>
Rendered body type: text/plain

```
I hope I put this post in the right place... Can someone point me in the
direction of good starter information on APRS?
Thanks for any help
73,
Steve KF8KI
```

---

44. Re: [APRSSIG:5307] Re: Subscribe

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 2 Oct 1996 12:16:46 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961002121433.85A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
On Wed, 2 Oct 1996, Don Hilman wrote:

> Yoou habve bounced this message to me severaltimes now ..please fix your
> listserv.


  There is nothing wrong with the listserver, it is working as designed.
The problem is with the user who did not follow the instructions he was
given when he subscribed.

Bob - wd6dod
```

45. More on W3IWI-13 DGPS Beacon

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Wed, 02 Oct 96 19:12:43 UTC
To: aprssig@tapr.org
Message-ID: <108031@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

I have received several signal reports that the beacon is being heard for a few miles. Obviously coverage is limited by the lack of a good area digipeater on 145.79!

Bob, N3OZB says that the beacon signals work well at improving the performance he gets with his Motorola TRAXAR+ (providing, of course, that he can hear them!).

Has anyone else besides Bob & me had any luck in using the W3IWI-13 DGPS corrections?

Has anyone got a suggestion on how to improve the coverage, especially into Chesapeake Bay? (Like for WB4APR: if the old APR-1 site on the tall tower isn't available, howz about a VHF port on your stuff in the USNA lab building?)

73, Tom

---

46. Re: [APRSSIG:5312] APRS FAQ/Tutorial

From: William Nolle <wa8inz@cris.com>
Date: Wed, 02 Oct 1996 14:55:04 -0700
To: aprssig@tapr.org
Message-ID: <3252E4B8.6545@cris.com>
Rendered body type: text/plain

SWeigold@aol.com wrote:

>
> I hope I put this post in the right place... Can someone point me in the
> direction of good starter information on APRS?
> Thanks for any help
> 73,
> Steve KF8KI

Yes right in your APRS README subdirectory, that's where all the doc files are located.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

47. where is the map?

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 2 Oct 1996 14:53:58 PST
To: aprssig@tapr.org
Message-ID: <19961002.145401.4391.0.kf4dys@juno.com>
Rendered body type: text/plain

Hi All;

I'm beginning to get a little frustrated and I can't believe I am the only one with this problem.

I'm looking for a particular map. I have searched through a bunch of zipped files of map collections, with no luck.

Before I start systematically searching through every map collection on the tapr site, is there a master listing of every map, with a source file identification?

What's really bad, is it is listed in most maplists, including the maplist.usa. The mapfile I am looking for, right now, is Caribean.map.

regards,
Joe

---

48. Re: [APRSSIG:5315] Re: APRS FAQ/Tutorial

From: byoung@qni.com
Date: Wed, 2 Oct 1996 17:27:58 -0500
To: aprssig@tapr.org
Message-ID: <9610022227.AA06222@qni.com>
Rendered body type: text/plain

```
On Wed, 2 Oct 1996, William Nolle <wa8inz@cris.com> wrote:
>SWeigold@aol.com wrote:
>>
>> I hope I put this post in the right place... Can someone point me
in the
>> direction of good starter information on APRS?
>> Thanks for any help
>> 73,
>> Steve KF8KI
>
>Yes right in your APRS README subdirectory, that's where all the doc
>files are located.
>
>--
>                    \////
>                    (0 0)
>               *--o0-(_)-0o--*
>               wa8inz@amsat.org
>               wa8inz@cris.com
>    Check out my dedicated A.P.R.S Web Page.
>       THANKS TO THOSE MENTOR VOLENTEERS
>You can now get to the Logo page from the main menu
>      Also check out my WA8INZ Home page.
>
>      http://www.concentric.net/~wa8inz
>
>
>
```

Bill,

Come on Bill! Give the guy a break! He may not even *HAVE* an APRS\README subdirectory, because he may not have the software installed yet! He may be looking for info like the APRS FAQs that many people have on their WWW pages, or he may need info on how to obtain the software in the first place! A little kindness please!

Steve, if you still need information (and we haven't driven you away from the SIG yet...), please feel free to E-Mail me direct. I'll do what I can to help.

Bill Young
byoung@qni.com
KB0UZQ

---

49. Maps-Borders & Maps-Hierarchy

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 02 Oct 1996 18:36:17
To: aprssig@tapr.org
Message-ID: <199610022237.SAA23638@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

I upgraded to Version 7.7b when it came out and have found it to be a great improvement in many respects, particularly in the new W(eather) D(isplay) features. They ought to come in handy next time we have a skywarn net.

As Bob said, there seems to be no more room left in the APRS code to fit anything else in without giving something up. Well, I've been trying to make some maps from the 100K C-D and found, to my utter amazement, that both the M(aps)-B(orders) AND M(aps)-H(ierarchy) commands are GONE!

I was counting on using M-B to check for overlaps and gaps in my new creations. Is there a way to do this in MAPFIX27 or do I have to go back to an older version of APRS (the zips of which I still have on tape) just to utilize these commands?

```
     I don't know about anybody else, but I've always found the
M-B command useful, especially when I get a new set of maps to
check out (I've got about 2,000 of 'em so far!)  Maybe we can
persuade The Bob'ser to reinstate this in Version 7.8 if you
also miss it.

     Bob, don't get me wrong.  I truly appreciate all the work
you do with this baby.  It's GREAT and I extol its virtues ad
infinitum to all who will listen and have gotten more than a
few stations to try it.   I also realize that this may seem a
bit like going backwards to you, but think M-B was a useful
feature that I used frequently, both as a reference and a tool.

     I've never used the DX-CLUSTER mode except to see what it
looks like and think most people interested in it would be more
likely to utilize more traditional AX.25 systems to access such
a service.  I know you think it's cute and want to keep it in,
but you've gotten to a point where new features can't fit un-
less others are removed.  I don't want to tell you about pri-
orities (we all have them,) nor do I understand about the com-
plexities of programming (my idea of which is File-Run-setup,)
but I think you've removed something which many of us use and
have need of.

     The M-H and M-B commands, although they had differences
were, in my opinion, a duplication of functions in many ways.
Restoring one of them (again my opinion) would be appreciated.
Please consider doing so if at all possible.

     As I said, I've got the utmost admiration for Bob's work
and understand it's a labor-of-love.  I'm not griping.  I'm
just surprised to see this feature which I use so often sudden-
ly gone and was wondering as to the reasoning why he thought it
was no longer needed.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

---

50. Help JavaAprs Win3.1

From: lesowles@tgis.co.uk (Les Owles)
Date: Wed, 2 Oct 1996 23:39:35 +0100
To: aprssig@tapr.org
Message-ID: <199610022239.XAA25082@tgis.co.uk>
Rendered body type: text/plain

```
Hi,
   Need some help, when running Netscape 2 under Windows 3.1 on my 486pc I
visited http://www.bridge.net/~sdime/javAPRS.htm but instead of running the
java script I received a message saying "Sorry, your browser doesn't do Java!"
>From other comments on this SIG, I thought the problem was due to the
version of netscape. Today I installed Netscape 3 Gold for Windows 3.1 but I
still get the same message.
Is there some other software that I need to install to enable javAPRS to
work or will javAPRS only work Win95 or NT ?
Thanks for any help.
--
Les Owles [G4IRJ]
lesowles@tgis.co.uk
```

---

51. Re: [APRSSIG:5244] Re: Graying WX stations.

From: Tom Carpenter <wb8vji@tir.com>
Date: Tue, 01 Oct 1996 21:52:28 +0500
To: aprssig@tapr.org
Message-ID: <32514C4B.57CB@tir.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Sun, 29 Sep 1996, Larry Miller wrote:
>
> >   I still am having my station graying out.  I tried to delete the old
> > config file and rebuild and I am still having the problem.
>
> APRSdos REPLY/COMMENT:  Sometimes your transmitted packet may be received
> with a slight garble (such has having a "c" or "cmd" infront of it.  APRS
> sees this as a NEW station with the call of cmdW3XYZ and then plots this
> garble of your station ON TOP of your station.  Since this was a ONE-TIME
> garble, it will eventually fade to gray!  COuld this be it?
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
Bob,

When mine goes to gray I have checked and I have only one posit in my
list on only one spot on my map......Sorry

Tom
wb8vji@tir.com
```

---

52. Re: [APRSSIG:5317] Re: APRS FAQ/Tutorial

From: William Nolle <wa8inz@cris.com>
Date: Wed, 02 Oct 1996 18:54:10 -0700
To: aprssig@tapr.org
Message-ID: <32531CC2.56E7@cris.com>
Rendered body type: text/plain

```
byoung@qni.com wrote:
>
> On Wed, 2 Oct 1996, William Nolle <wa8inz@cris.com> wrote:
> >SWeigold@aol.com wrote:
> >
> Bill,
>
> Come on Bill!  Give the guy a break!  He may not even *HAVE* an
> APRS\README subdirectory, because he may not have the software
> installed yet!  He may be looking for info like the APRS FAQs that
> many people have on their WWW pages, or he may need info on how to
> obtain the software in the first place!  A little kindness please!
>
> Steve, if you still need information (and we haven't driven you away
> from the SIG yet...), please feel free to E-Mail me direct.  I'll do
> what I can to help.
>
> Bill Young
> byoung@qni.com
> KB0UZQ

Of course your right Bill, but for a person that has access to the net
should be able to go to many of the APRS web pages and grab the
information he wants if he doesn't have APRS installed yet. Like the site
below in my address. Hopefully he did that.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

53. Maps, Borders

From: William Nolle <wa8inz@cris.com>
Date: Wed, 02 Oct 1996 19:01:48 -0700
To: aprssig@tapr.org
Message-ID: <32531E8C.8AF@cris.com>
Rendered body type: text/plain

```
Yes i have noticed that the Maps Borders feayure isn't in the latest
version, i figured that there was something wrong on my end but see i'm
not the only one. I REALY MISS THAT ALSO!!!!!! and sure would like to see
that put back in there also. Take out some of the other useless things
like the NAG screen or DX cluster that i'm sure not even 1/10 of 1
percent of the PARS users use. I could come up with a couple more but i
would get blasted for those Hi.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

54. Re: [APRSSIG:5318] Maps-Borders & Maps-Hierarchy

From: William Nolle <wa8inz@cris.com>
Date: Wed, 02 Oct 1996 19:12:39 -0700
To: aprssig@tapr.org
Message-ID: <32532117.2DCC@cris.com>
Rendered body type: text/plain

```
Arte Booten wrote:
>
> Hi All,
>
>      I upgraded to Version 7.7b when it came out and have found
> it to be a great improvement in many respects, particularly in
> the new W(eather) D(isplay) features.  They ought to come in
> handy next time we have a skywarn net.
>
>      As Bob said, there seems to be no more room left in the
> APRS code to fit anything else in without giving something up.
> Well, I've been trying to make some maps from the 100K C-D and
> found, to my utter amazement, that both the M(aps)-B(orders)
> AND M(aps)-H(ierarchy) commands are GONE!
>
>      I was counting on using M-B to check for overlaps and gaps
> in my new creations.  Is there a way to do this in MAPFIX27 or
> do I have to go back to an older version of APRS (the zips of
> which I still have on tape) just to utilize these commands?
>
>      I don't know about anybody else, but I've always found the
> M-B command useful, especially when I get a new set of maps to
> check out (I've got about 2,000 of 'em so far!)  Maybe we can
> persuade The Bob'ser to reinstate this in Version 7.8 if you
> also miss it.
>
>                Arte Booten <N2ZRC@gnn.com>
>  (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> .. Sensors say there is nothing at those coordinates ...

Another suggestion on this if bob would put out a second version with
several features removed, at least that way there wouldn't have to be all
the programming invloved (I guess). But in any case I would sure like to
see the Map Borders put back in, since I know for sure it's not just my
machine doing it I may even go backwards to an older version to get that
back. I have drawn more then 1400 maps and need that.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLENTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

55. Re: [APRSSIG:5319] Help JavaAprs Win3.1

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 02 Oct 1996 20:37:35 -0700
To: aprssig@tapr.org
Message-ID: <325334FF.3C18@cris.com>
Rendered body type: text/plain

```
Les Owles wrote:
>
> Hi,
>    Need some help, when running Netscape 2 under Windows 3.1 on my 486pc I
> visited http://www.bridge.net/~sdime/javAPRS.htm but instead of running the
```

> java script I received a message saying "Sorry, your browser doesn't do Java!"
> >From other comments on this SIG, I thought the problem was due to the
> version of netscape. Today I installed Netscape 3 Gold for Windows 3.1 but I
> still get the same message.
> Is there some other software that I need to install to enable javAPRS to
> work or will javAPRS only work Win95 or NT ?
> Thanks for any help.
> --
> Les Owles [G4IRJ]
> lesowles@tgis.co.uk

Hi Les,

In Netscape Gold go to OPTIONS/NETWORK PREFERENCES/LANGUAGES and Enable
Java.
This might help if it's not checked off. I use to go watch JavAPRS with
Netscape
2.1 without problems, but I was always running Win95 also.

Also, open your "Show Java console" under OPTIONS to see if there is any
Java data
coming in, takes a while be patient.

Hope this helps, back in the wood grain.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

56. Re: [APRSSIG:5314] More on W3IWI-13 DGPS Beacon

From: John.Klingelhoeffer@comsat.com
Date: Wed, 2 Oct 1996 17:09:31 -0400
To: aprssig@tapr.org
Message-ID: <2531C430.1957@comsat.com>
Rendered body type: text/plain

Tom;

I'm doing some antenna work which should be complete in the next couple of
weeks. I'm (home) in a good location for that and intend to leave mine in
that mode. If you want more info on the location, please give me a call.

John...
WB4LNM

==

```
John H. Klingelhoeffer          COMSAT General Corp.    Ofc: 703-450-7020
General Manager &               45250 Severn Way        Fax: 703-450-7307
Vice-President                  Sterling, VA 20166 USA  Car: 410-991-3792
                email: John.Klingelhoeffer@comsat.com
```

==

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5314] More on W3IWI-13 DGPS Beacon
Author: aprssig@tapr.org at INTERNET
Date: 02/10/96 2:28 PM

I have received several signal reports that the beacon is being heard
for a few miles. Obviously coverage is limited by the lack of a good
area digipeater on 145.79!

Bob, N3OZB says that the beacon signals work well at improving the
performance he gets with his Motorola TRAXAR+ (providing, of course, that
he can hear them!).

Has anyone else besides Bob & me had any luck in using the W3IWI-13 DGPS
corrections?

```
Has anyone got a suggestion on how to improve the coverage, especially
into Chesapeake Bay? (Like for WB4APR: if the old APR-1 site on the tall
tower isn't available, howz about a VHF port on your stuff in the USNA
lab building?)

73, Tom
```

57. Re: "HELP"

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 2 Oct 1996 22:04:19 -0400 (EDT)
To: "Rodney G. Fowler" <k2adj@mosquito.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961002220135.13877F-100000@arctic>
Rendered body type: text/plain

```
On Wed, 2 Oct 1996, Rodney G. Fowler wrote:

> Bob, the problem is HELP menu...
> It used to bring up a full screen menu of help but now it just returns to
> the map screen running 7.7b DOS...

APRSdos REPLY/COMMENT:  The HELP screen is now a file in your APRS\SYSTEM
directory.  If you upgraded to 77b you should have gotten that file too..
Sounds like you only copied the new  EXE...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

58. Re: [APRSSIG:5322] Maps, Borders

From: Cap Pennell <cap@cruzio.com>
Date: Wed, 02 Oct 1996 18:55:29 -0700
To: aprssig@tapr.org
Message-ID: <32531D11.40A4@cruzio.com>
Rendered body type: text/plain

```
William Nolle wrote:
>
> Yes i have noticed that the Maps Borders feayure isn't in the latest
> version, i figured that there was something wrong on my end but see i'm
> not the only one. I REALY MISS THAT ALSO!!!!!! and sure would like to see
> that put back in there also.

Try:  M,P,B   It's still there, just moved!
73.  Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com
packet radio: ke6afe@kg6ee.#cca.ca.usa.noam
```

59. DGPS and ANNAPOLIS WIDE!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 2 Oct 1996 22:15:31 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961002221018.13877I-100000@arctic>
Rendered body type: text/plain

```
On Wed, 2 Oct 1996, Tom Clark -- W3IWI wrote:

> I have received several signal reports that the beacon is being heard
> for a few miles. Obviously coverage is limited by the lack of a good
> area digipeater on 145.79!
> Has anyone got a suggestion on how to improve the coverage,

APRSdos REPLY/COMMENT:  BINGO!  Yesterday at 1600 the power was finaly
restored to WB4APR-1 at 300 feet AGl/ASL.  We now have our WIDE back!
And I am seeing a full system of 96 stations in just a few hours.

TOM, set your VIA path to DGPS VIA WIDE and from your location, you will
probably hit THREE surrounding WIDES.  That should increase your radius
from about 10 miles to 50 miles for a 25 fold increase in coverage with no
increase in channel loading, since all three WIDES will probably repeat at
the same time...

Bring up APRS now, and your map should fill up! hi hi

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

60. Re: [APRSSIG:5316] where is the map?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 2 Oct 1996 22:18:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961002221645.13877J-100000@arctic>
Rendered body type: text/plain

```
On Wed, 2 Oct 1996, Joe Foor wrote:

> I'm looking for a particular map. I have searched through
> a bunch of zipped files of map collections, with no luck.
> What's really bad, is it is listed in most maplists,
> including the maplist.usa. The mapfile I am looking for,
> right now, is Caribean.map.

APRSdos REPLY/COMMENT:  It should be in SEmapsxx.zip  It was a long time
ago in the basic APRS distribution, but no longer.  If it is not in
SEmaps11.zip, then pse lemme know...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

61. Re: [APRSSIG:5318] Maps-Borders & Maps-Hierarchy

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 2 Oct 1996 22:23:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961002222235.13877L-100000@arctic>
Rendered body type: text/plain

```
MAPS-BORDERS and MAPS-HEIRARCHY have been moved to the MAPS-PLOTS
directory.  SOrry for the slight-of-hand...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

62. Re: APRS FAQ/Tutorial

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 2 Oct 1996 21:19:43 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae78baa0913c@[199.1.11.106]>
Rendered body type: text/plain

```
>> Can someone point me in the
>> direction of good starter information on APRS?

I have read several GOOD magazine articals about "What is APRS" over the
last several years. Let see if we can do some research and
collect the list and post on one of the WWW sites.

73 and QST had some but I don't rememberthe month.

I was thinking only last week that it is time for Bob to write
a book about APRS. -- One of those books with a Free CD-ROM in Back :-)

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

63. Re: [APRSSIG:5316] where is the map?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 2 Oct 1996 21:19:58 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae78df37751c@[199.1.11.106]>
Rendered body type: text/plain

```
>>The mapfile I am looking for,
>right now, is Caribean.map.
>

CARIBEAN.MAP is in my PC map file  May 27 1995
CARIEB_E.MAP is in the world directory on the CD-ROM

Both are low res-maps not much detail.

73


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

64. Re: [APRSSIG:5319] Help JavaAprs Win3.1

From: "Gordon T. Uber" <gordon@ubr.com>
Date: Wed, 2 Oct 1996 19:18:59 -0700
To: aprssig@tapr.org
Message-ID: <2.2.16.19961002191859.2ef72390@best.com>
Rendered body type: text/plain

```
I believe you're right: you need Win95 or NT: i.e.,
a 32-bit operating system.

Gordon
|      XII | Gordon T. Uber
|    XI    | 3790 El Camino Real, Suite 142
|  X  \   /| Palo Alto, CA 94306-3314
| IX   \ / | email: gordon@ubr.com
CLOCKS and TIME: http://wheaton.iit.edu/~clocks/clocks/clocks.html
```

---

65. Re: [APRSSIG:5301] Re: Coffee pots and HSP vs SPM switches...

From: ku0g@sprynet.com
Date: Wed, 2 Oct 1996 19:36:15 -0700
To: aprssig@tapr.org
Message-ID: <199610030236.TAA02144@m1.sprynet.com>
Rendered body type: text/plain

Your gratuitous gesticulations having been duly noted are welcome, nee
appreciated. What have I done to deserve such honorous bestowment?

We gotta get together...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

---

66. Re: [APRSSIG:5331] Re: APRS FAQ/Tutorial

From: Dale Seaburg <dseaburg@web-access.net>
Date: Wed, 02 Oct 1996 22:01:20 -0500
To: aprssig@tapr.org
Message-ID: <32532C80.7FA8@web-access.net>
Rendered body type: text/plain

Robert Winingham wrote:
>
snip........
>
> I was thinking only last week that it is time for Bob to write
> a book about APRS. -- One of those books with a Free CD-ROM in Back :-)
>
> 73
>
> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

Bob, is that something like a "free lunch"? Most books I've seen with
"free" CD-ROMS in the back, were anything BUT free... <G>

Dale KG5LT
dseaburg@web-access.net

---

67. Re: APRS FAQ/Tutorial

From: wa4mej@juno.com (john w dent)
Date: Wed, 2 Oct 1996 20:43:22 PST
To: aprssig@tapr.org
Message-ID: <19961002.204325.4607.0.wa4mej@juno.com>
Rendered body type: text/plain

IF YOU WILL SIND ME YOUR ADDRESS I WILL SIND YOU APRS 7.7b
73 JOHN WA4MEJ
wa4mej@juno.com
OR
wa4mej@southeast.net

---

68. BOOK ABOUT APRS - ONE OF MANY

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Thu, 3 Oct 96 00:03 EDT
To: aprssig@tapr.org
Message-ID: <m0v8f0N-000QdmC@nevets.oau.org>
Rendered body type: text/plain

BOOK ABOUT APRS - ONE OF MANY

I found "PACKET: Speed, More Speed and Applications" 'a collection of
Advanced Packet Methods and Activities from ARRL Publications and Other
Sources'. Chapter 4 discusses APRS applications and has a good section
on interfacing GPS & Loran devices by Bob Bruninga, MacAPRS overview by
Keith & Mark Sproul. Included in the overview is a section on 'Packet
Tracker' and Meteor Scatter Experiments.

Geoffrey Dick
Winter Park
wa4ikq@nevets.oau.org
==

> Date: Wed, 2 Oct 1996 21:34:31 -0500 (CDT)
> From: alfred!ucf-cs!onramp.net!kc5ejk (Robert Winingham)
> To: aprssig@tapr.org
> Subject: [APRSSIG:5331] Re: APRS FAQ/Tutorial
>
> >> Can someone point me in the
> >> direction of good starter information on APRS?
>
> I have read several GOOD magazine articals about "What is APRS" over the
> last several years. Let see if we can do some research and
> collect the list and post on one of the WWW sites.
>
> 73 and QST had some but I don't rememberthe month.
>
> I was thinking only last week that it is time for Bob to write
> a book about APRS. -- One of those books with a Free CD-ROM in Back :-)
>
> 73
>
> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
>
>
>

69. Re: where is the map?

From: kf4dys@juno.com (Joe Foor)
Date: Wed, 2 Oct 1996 22:43:18 PST
To: aprssig@tapr.org
Message-ID: <19961002.224736.8119.3.kf4dys@juno.com>
Rendered body type: text/plain

On Wed, 2 Oct 1996 21:28:30 -0500 (CDT) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>
>APRSdos REPLY/COMMENT: It should be in SEmapsxx.zip It was a long
>time
>ago in the basic APRS distribution, but no longer. If it is not in
>SEmaps11.zip, then pse lemme know...
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
Thanks Bob;

I went through the SEmaps, a couple of weeks ago, when I first started
looking. I suppose I might have been looking at the wrong version.

The problem is solved, as someone sent me the map by e-mail.

Regards,
Joe

70. Maps-Borders RETRACTION!

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 03 Oct 1996 06:11:03
To: aprssig@tapr.org
Message-ID: <199610031011.GAA15142@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

In my previous posting I was a bit upset about what I
thought was our loss of the M(aps)-(B)orders and (M)aps-(H)ie-
rarchy functions. I suppose this just goes to show that we

should ALL, even the most experienced of us (which I am most
certainly NOT!,) READ THE DOCS every now and then before we
insert our podiatric appendages into our oral orifices. Of
this I must shamefully admit my guilt.

     It seems these features have now been moved to the (M)aps-
(P)lot submenu, there to be found as (B)orders, as before, and
(O)verlap, which seems identical to the former (H)ierarchy. My
sincerest apologies to Bob B. and all those on the SIG. That
popping sound you just heard was the sound of my foot being
extracted from my mouth when I should have known better and
READ THE DOCS!!! 73

               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

71. N7LUE

From: Ronald Armstrong <ronald.armstrong@sympatico.ca>
Date: Thu, 03 Oct 1996 08:42:46 -0700
To: aprssig@tapr.org
Message-ID: <3253DEF6.51E5@sympatico.ca>
Rendered body type: text/plain

Does anyone know where I can reach Robert Swain N7LUE,I am looking for
him ,I badly need to get from him the interface for connecting my DF to
APRS.   Ron VE2JOR

---

72. Re: [APRSSIG:5317] Re: APRS FAQ/Tutorial

From: SWeigold@aol.com
Date: Thu, 3 Oct 1996 09:08:22 -0400
To: aprssig@tapr.org
Message-ID: <961003090821_323831602@emout13.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-10-02 19:07:36 EDT, you write:

> Come on Bill! Give the guy a break! He may not even *HAVE* an
> APRS\README subdirectory, because he may not have the software
> installed yet! He may be looking for info like the APRS FAQs that
> many people have on their WWW pages, or he may need info on how to
> obtain the software in the first place! A little kindness please!
>
> Steve, if you still need information (and we haven't driven you away
> from the SIG yet...), please feel free to E-Mail me direct. I'll do
> what I can to help.
>
> Bill Young
> byoung@qni.com
> KB0UZQ

Bill,
You were nicer to him than I was... I sent him a nasty email... I am an
Advanced Class who goes out of my way to help new commers (elmered 10 so
far!) and I tend to get a little pissed about stuff like that. Anyway,
basically thinking about getting into APRS but I know little more than what
APRS stands for. Any help you can give will be appreciated.
73
Steve KF8KI

---

73. Re: [APRSSIG:5315] Re: APRS FAQ/Tutorial

From: SWeigold@aol.com
Date: Thu, 3 Oct 1996 09:08:27 -0400
To: aprssig@tapr.org
Message-ID: <961003090820_323831563@emout09.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-10-02 17:04:08 EDT, you write:

> Yes right in your APRS README subdirectory, that's where all the doc
> files are located.
>

Thanks smartass.. I don't have an APRS README subdirectory... I don't even
have a APRS directory as I don't have any APRS software.

Steve

---

74. RE: [APRSSIG:5319] Help JavaAprs Win3.1

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Thu, 3 Oct 1996 08:25:13 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBB104.CA1A7E20@ppp-101.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

Les Owles
        Wednesday, October 02, 1996 6:00 PM
        aprssig@tapr.org
        [APRSSIG:5319] Help JavaAprs Win3.1

Hi,
    Today I installed Netscape 3 Gold for Windows 3.1 but I
still get the same message.
Is there some other software that I need to install to enable javAPRS to
work or will javAPRS only work Win95 or NT ?
Thanks for any help.
--
Les Owles [G4IRJ]
lesowles@tgis.co.uk

The only Netscape that supports Java and Java Script in a windows enviorment is Netscape 3.0
and up for Windows 95 or Windows NT. Java Script is supported on Windows 3.1 and 3.11 but
not JAVA.

```
begin 600 WINMAIL.DAT
M>)\^(@$-`0:0" `$````````!``$``0>0!@`(````Y 0````````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510``````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<```````P`5# $`````#`/X/!@````!X``3 !
M`````$P````"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $`````6`````4TU44#I!
M4%)34TE'0%1!4%(N3U)'``````P```.0``````+`$ Z`0`````(!]@\!`````! ``
M```````(1+@$$@ $`* ```%)%.B!;05!24U-)1SHU,S$Y72!(96QP($IA=F%!
M<')S(%=I;C,N,0"/"P$%@ ,`#@```,P'"@`#```@`&0`-``0`$@$!(( #``X`
M``#,!PH``P`(`!4`$ `$!`0F `0`A````0T$P,$-&.3<R,#%$1# Q,3E#
M,T$P,#(P048T1#,U1C(`&P<!`Y &`$0$```4`````"P`C````````#`"8`````
M``L`*0````````P`N````````#`#8```````$ `.0! UBI/+K&[`1X`< `!````
M* ```%)%.B!;05!24U-)1SHU,S$Y72!(96QP($IA=F%!<')S(%=I;C,N,0`"
M`7$``0```!8````!N[$N3R27SP#-'2 1T)PZ`""O337R```>`!X,`0````,`
M``!-4P``'@`?# $`````:`````5VEN9&]W<R]B87)R971T9"]B87)R971T9 ``
M``,`!A#!^ &4`P`'$+T!```>``@0`0```&4```!,15-/5TQ%4U=%1%1%4T1!
M62Q/0U1/0D52,#(L,3DY-$C8Z,#!034%04E-324<Z-3$Y74A%3%!*059!
M-3,Q.4A%3%!*059!4E-724XS,C$`24Y35$%,3$5$3D544T-!4$5'3$1&3U(`
M"1 !````IP(``*,"```"%! ``3%I&=14MC>7_``H!#P(5`J0#Y 7K`H,`4!,#
M5 (`8V@*P'-E=.XR!@`&PP*#,@/&!Q,"@R(S#WIH96P#($1LRF<"@S03#V8U
M`\4"``AP<G$2(G-T96U=`H!]"H (SPG9.QD_,CPU-0* "H$-L0M@;F=X,3 S
M%" +"A+R# %C#0! ( J%"HML:3$X@C "T6DM,30T#?#G#- @`PM9,38*H -@
M&! F8P5!`9$@3 >13W>N; >0"H8B,E<)@&X'D#!D87DL(J A\&]B$020(# R
M)% Q.3D0-B V.A^@(%!-C2,*81>0!!!I9T !D!47D"X%L&<C"EM!4 !24U-)
M1SHU,Q$E,%T@2!4`<"!*<&%V84$FP2.P"X SS"XQ'B\?,S,V(*<5PF,,`2&F
M2&DL"H4N,E3C!' D,"!)( N & `'0#4BT&0'L70$\":P92#X,R!'!O O@ (0
M!< J01AD;W<$("IQ(&)UOP5 +N *A1@``Q #(&<2`*P@=!3P,F!A!X @!X'K
M,U RT"X*A4D$(#,1&4!_,F #<# 0(< TT341`8!W]PK ,! S$&$QPB/P+W$D
MD)\N]C<2"? !H"+0(&HIP-<H@C<2"H5W!;!K-6 Y<7<RDCAV`B!L+L YDRI!
M.4(U.=).5" _'A94^1' ;FL$(#"B`' NP!3Q<G T%BTM"H4B=RA@1^ T25)*
M70J%(M$Q("LBT2<@9P0`+@6@+G7^:RJN'1\\T#51.O(OIS9C\'-U<' 8X00@
M*;(]<?LO@$734P4$"X FH#H!,03Y"?!V:06P!X ","[P!Z+]+\8N"G9&(D50
M,)L[M##F_3P0+D9<!"!%12]Q`B PVV]&(BIQ,8,*A6XAP"F@0?A602XL/R'$
M*Q\@IQUU"U&-&&$`54 ``P`0$ `````#`!$0`0```$ `!S"@BX7!+;&[`4 `
H"#"@BX7!+;&[`1X`/0`!````!0```%)%.B ``````P`--/TW``#0'[&[
`
end
```

---

75. Re: [APRSSIG:5331] Re: APRS FAQ/Tutorial

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 3 Oct 1996 09:32:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961003093005.20102A-100000@arctic>
Rendered body type: text/plain

On Wed, 2 Oct 1996, Robert Winingham wrote:

> I have read several GOOD magazine articals about "What is APRS" over the

```
> last several years. Let see if we can collect a list...

*******  Its in there.  See HISTORY.TXT.  Maybe I should rename the file
to be ARTICLES.txt    Good idea....  Done...

> I was thinking only last week that it is time for Bob to write
> a book about APRS. -- One of those books with a Free CD-ROM in Back :-)

APRSdos REPLY/COMMENT:  Its being done by Stan Horzpa...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

76. Re: [APRSSIG:5310] Re: APRS Documentation

From: Mark Sproul <sproul@ap.org>
Date: Thu, 3 Oct 1996 09:24:40 -0400
To: aprssig@tapr.org
Message-ID: <v03007802ae796daad681@[165.1.27.20]>
Rendered body type: text/plain

```
>Larry Keeran wrote:
>>
>> Mark Sproul said:
>> >The ENTIRE documentation for APRS can be found at
>> >
>> >http://aprs.rutgers.edu/APRS/
>> >
>>
>> I missed the area where it talks about where (what directory) to put either
>> of the .DLLs when I am using Windows 95.   I didn't see it in the WinAPRS
>> documentation file included with WinAPRS. Would someone tell me:
>>
>> - What is the subdirectory arrangement necessary for WinAPRS?
>>
>> - Is folder WinAPRS the required name in the root directory?
>>
>> - Which system directory do the DLL's go into?
>>
>> - How do you know which DLL to put in?
>>
>> - What is the minimum RAM memory necessary?
>>
>> Make it simple, us Mac users are used to plug and play. Thank you in
>>advance.
>
>Larry,
>
>The DLL's are for running WinAPRS on a 16 bit system like Windows 3.1,
>if you are
>running Win95, then you don't need the DLL's beacuase the program is 32
>bit and so
>is your operating sydtem.
>
>Hope this helps you. I'm back into the wood work.
>


WRONG WRONG WRONG

First, the ENTIRE directory structure IS in the documentation
        http://aprs.rutgers.edu/APRS/WAPRSDOC.HTM
        Look at the installation section

Second, there are 3 DLLs, the docs say you need all 3 of them, this is to
make life easier.  Win95 needs one, Win 3.1 needs the other 2, so what Joe
said is incorrect.

>> - Is folder WinAPRS the required name in the root directory?

        No, you can name it anything you want

>> - Which system directory do the DLL's go into?

        The DLLs (all 3 of them) go in the SAME directory as WinAPRS.exe

>> - How do you know which DLL to put in?

        Put all 3 in there and dont worry about it
```

```
>> - What is the minimum RAM memory necessary?

        From the docs

        WinAPRS has been tested on a 386 running Windows95 and while slow,
        worked just fine. A 486 of at least 33MHz and 8 meg of Ram
        running either Windows95 or WindowsNT is recommended.

        It will work and has been tested on a 4 meg Win 3.1 machine


Mark

__________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press    |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

77. Re: [APRSSIG:5321] Re: APRS FAQ/Tutorial

From: Mark Sproul <sproul@ap.org>
Date: Thu, 3 Oct 1996 09:29:44 -0400
To: aprssig@tapr.org
Message-ID: <v03007805ae7970166836@[165.1.27.20]>
Rendered body type: text/plain

```
>byoung@qni.com wrote:
>>
>> On Wed, 2 Oct 1996, William Nolle <wa8inz@cris.com> wrote:
>> >SWeigold@aol.com wrote:
>> >
>> Bill,
>>
>> Come on Bill!  Give the guy a break!  He may not even *HAVE* an
>> APRS\README subdirectory, because he may not have the software
>> installed yet!  He may be looking for info like the APRS FAQs that
>> many people have on their WWW pages, or he may need info on how to
>> obtain the software in the first place!  A little kindness please!
>>
>> Steve, if you still need information (and we haven't driven you away
>> from the SIG yet...), please feel free to E-Mail me direct.  I'll do
>> what I can to help.
>>
>> Bill Young
>> byoung@qni.com
>> KB0UZQ
>
>Of course your right Bill, but for a person that has access to the net
>should be able to go to many of the APRS web pages and grab the
>information he wants if he doesn't have APRS installed yet. Like the site
>below in my address. Hopefully he did that.
>

The ENTIRE APRS read me files are no on-line via any Web browser at

        http://aprs.rutgers.edu/APRS/

__________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press    |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

78. Re: [APRSSIG:5340] N7LUE

From: Joe Agrelo <jagrelo@cris.com>
Date: Thu, 03 Oct 1996 09:52:11 -0700
To: aprssig@tapr.org
Message-ID: <3253EF3B.573B@cris.com>
Rendered body type: text/plain

```
Ronald Armstrong wrote:
>
> Does anyone know where I can reach Robert Swain N7LUE,I am looking for
> him ,I badly need to get from him the interface for connecting my DF to
> APRS.   Ron VE2JOR
```

```
Hi Ronald,

Robert Swain's email address is rswain@prodigy.com, but he may be out of
the
country for several months. Is there anything I can help you with;-)

Also, I think he is out of the interface boards with no intent to
replenish
them since the DFjr, but better to ask him to be sure.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

79. Re: [APRSSIG:5309] Re: APRS Documentation

From: Mark Sproul <sproul@ap.org>
Date: Thu, 3 Oct 1996 09:40:37 -0400
To: aprssig@tapr.org
Message-ID: <v03007801ae796d01aeee@[165.1.27.20]>
Rendered body type: text/plain

```
>>Mark Sproul said:
>>
>>The ENTIRE documentation for APRS can be found at
>>
>>http://aprs.rutgers.edu/APRS/
>
>The full WinAPRS documentation is at:
>
>ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/WinAPRSDocs.txt
>
>Thank you very much.
>
>Larry

You are both correct and incorrect, this is the TEXT ONLY version of the
WinAPRS documentation, the more up-to-date version with graphics is

        http://aprs.rutgers.edu/APRS/WAPRSdoc.htm

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

80. Re: [APRSSIG:5333] Re: Help JavaAprs Win3.1

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Thu, 03 Oct 96 10:44:40 edt
To: aprssig@tapr.org
Message-ID: <m0v8p0z-0001JUC@wa4mei.radio.org>
Rendered body type: text/plain

```
On Wed, 2 Oct 1996 21:40:33 -0500 (CDT) you wrote:

>I believe you're right: you need Win95 or NT: i.e.,
>a 32-bit operating system.

Actually, an operating system which can handle long file names
is required which has nothing to do with "32-bit".  Java file names
are all "long" ie: javaprs.class .
Some Java friendly Operating systems are Mac OS, OS/2, Linux,
Windows NT and Windows 95.


Dale Heatherington, WA4DSY
```

```
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp 4.0.
```

---

81. TAPR Office to reduce to minimum operations

```
From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 3 Oct 1996 10:01:18 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), tapr-board@tapr.org (TAPR Board),
        netsig@tapr.org (NETSIG mailing), bbssig@tapr.org (BBS SIG mailing),
        hfsig@tapr.org (HF SIG mailing), dsp-93@tapr.org (DSP-93 Build),
        aprssig@tapr.org (BBS SIG mailing), tapr-sys@tapr.org,
        amsat-bb@amsat.org (AMSAT BB Mail Group)
Message-ID: <199610031501.KAA15057@tapr.org>
Rendered body type: text/plain
```

```
TAPR Office to reduce to minimum operations                     Oct 3, 1996
-------------------------------------------

The TAPR Office will shutdown to minimum operations starting October 8th and
running at least until October 28th.

This means that Dorothy will not be working the office phones during this
period.  The office will continue to operate, but at a much reduced level.
E-mail, US mail, Voice Mail, etc will still be received and recorded, but
everything will be processed at a very much slower rate during this period.

GPS-20 units have begun to ship.  As of this e-mail, approximately 40 units
have shipped.  We are awaiting additional pins for the connector (suppose to
arrive Oct 11th) in order to complete the remainder of the units.  These
pins replace the ones that were incorrect in the shipment we received.  Once
the pins arrive, we will get the other units out as soon as possible.

The Motorola EVM56002 have been placed on order and are expected to arrive
sometime after Oct 21st.  They will then be shipped out as time permits
under the operational schedule at the office.  There are something like 60 of
the 200 units still available in this purchase at the $85 + $10 s/h price.
Check the TAPR Web page for full details www.tapr.org.  First come basis on
these units.

TAPR is sorry for any delays that the reduced operations schedule at the
office might cause.  If everything turns out positive, the office should be
back operational towards the end of October.



Cheers - Greg Jones, WD5IVD
President, TAPR

(wd5ivd@tapr.org)
```

---

82. Re: [APRSSIG:5340] N7LUE

```
From: William Nolle <wa8inz@cris.com>
Date: Thu, 03 Oct 1996 10:40:51 -0700
To: aprssig@tapr.org
Message-ID: <3253FAA3.2CEF@cris.com>
Rendered body type: text/plain
```

```
Ronald Armstrong wrote:
>
> Does anyone know where I can reach Robert Swain N7LUE,I am looking for
> him ,I badly need to get from him the interface for connecting my DF to
> APRS.   Ron VE2JOR

Right off hand i can't tell you but i know there's a direction finding
page on the web that covers his DF stuff. I think there's a link to it on
my WA8INZ page just below the Agrelo link. If you still can't find it let
me know and i will track it down!.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLUNTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.
      http://www.concentric.net/~wa8inz
```

---

83. Re: [APRSSIG:5341] Re: APRS FAQ/Tutorial

From: William Nolle <wa8inz@cris.com>
Date: Thu, 03 Oct 1996 10:43:39 -0700
To: aprssig@tapr.org
Message-ID: <3253FB4B.31B9@cris.com>
Rendered body type: text/plain

```
SWeigold@aol.com wrote:
>
> In a message dated 96-10-02 19:07:36 EDT, you write:
>
> > Come on Bill!  Give the guy a break!  He may not even *HAVE* an
> >  APRS\README subdirectory, because he may not have the software
> >  installed yet!  He may be looking for info like the APRS FAQs that
> >  many people have on their WWW pages, or he may need info on how to
> >  obtain the software in the first place!  A little kindness please!
> >
> >  Steve, if you still need information (and we haven't driven you away
> >  from the SIG yet...), please feel free to E-Mail me direct.  I'll do
> >  what I can to help.
> >
> >  Bill Young
> >  byoung@qni.com
> >  KB0UZQ
>
> Bill,
> You were nicer to him than I was... I sent him a nasty email...  I am an
> Advanced Class who goes out of my way to help new commers ( elmered 10 so
> far! ) and I tend to get a little pissed about stuff like that.  Anyway,
> basically thinking about getting into APRS but I know little more than what
> APRS stands for.  Any help you can give will be appreciated.
> 73
> Steve KF8KI

Yes Steve it did get me upset just a little about a guy that would rather
have someone else do his leg work for him Hi. Well anytime you need some help
let me know and i will sure give it a try Hi.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLUNTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

---

84. RS232 level converter

From: "Charles E. Heisler" <cheisler@cyberia.com>
Date: Thu, 03 Oct 1996 11:46:08 -0400
To: aprssig@tapr.org
Message-ID: <2.2.16.19961003154608.24ffb2ec@cyberia.com>
Rendered body type: text/plain

```
Hi APRSSIGS

    Can some one point me toward a simple to build (or buy)
 RS232 level comverter? I want to interface my GPS-20 engine to
 A old computer that will not drive from the <5 volt serial data
 from the GPS-20.

    Thanks for any help!!
    Please respond to:
    cheisler@cyberia.com
    As I am temp. off of the SIG.
     de Charlie K3VDB
```

---

85. Magnavox MX4200, anyone want one?

From: bob <w2g3zfj@unix.asb.com>
Date: Thu, 3 Oct 1996 11:57:34 -0400
To: aprssig@tapr.org
Message-ID: <199610031557.LAA14558@unix.asb.com>
Rendered body type: text/plain

Hi Folks

I have an MX4200 for disposal. Includes simple RS422<->RS232 interface, full docs, 4200.exe control program etc. Works fine, ideal for standalone tracker (I use one in the car). Ideally needs an amplified antenna, but lock *usually* obtained on a passive antenna. I typically use the Garmin amplified antenna with my MX4200's but have also used a generic amplified antenna, the Paccom one *should* work as well. Operates upto 80,000 ft and 1000knots, no 99knot limit like the Garmins! Will also supply unlimited EMail help to get it going with APRS!

If interested let me know by DIRECT Email please NOT via the SIG!

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com

PS For those who don't know what an MX4200 is, its a small plastic box (about 6" x 4"x1.5") with three leds on the front for status info. Has two RS422 ports, one for control and one for rtcm104 input (DGPS) also has a NMEA port as well. Outputs GGA, VTG and GLL sentences plus lots of other info on satellite status etc if needed. Fully programmable for output rate, sentences etc. The 4200.exe program enables you to easily change all this. Battery back up. 12-24v input. Type 'F' antenna input, 25pin D type for data. Once you've programmed it you only need to turn it on.

---

86. Re: [APRSSIG:5328] DGPS and ANNAPOLIS WIDE!

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Thu, 03 Oct 96 16:45:17 UTC
To: aprssig@tapr.org
Message-ID: <113152@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Bob -- thanks for telling me that the Balto/Wash area now is again WIDE!
I just stopped by W3IWI-13 and changed the UNPROTO route accordingly.

All -- Now that the W3IWI-13 DGPS beacon has better coverage bouncing thru whatever WIDEs it can hit, I am really anxious to get reports from folks in the MD/DC/VA/DE/PA/SNJ area on your ability to use the DGPS corrections I'm broadcasting. In case you missed the earlier postings, W3IWI-13 is sending DGPS beacons addressed to DGPS via WIDE with a beacon sent every 20 seconds. The data is generated in some professional equipment and the DGPS correction quality should be >>BETTER<< than those sent by the Coast Guard on ~300 kHz or by commercial firms like DCI on FM broadcast subcarriers. With these corrections poked into your GPS receiver, you should obtain 1-10 meter accuracy within about 50 miles of the beacon site (Greenbelt MD) and should see improvements out to the 100-200 mile range. The DGPS beacons should virtually eliminate effects of Selective Availability and GPS broadcast ephemeris errors, and will minimize errors due to signal propagation thru the ionosphere and troposphere.

To use them, you need to make sure there is some data path from your TNC's data output into your GPS rcvr's input. This can be a direct TNC->GPS connection, or Bob has hooks in APRS to handle it for you. You may need to enable DGPS data on your GPS receiver; for example, in the Garmin 38/40/45 you need to go to the INTERFACES menu item, and select either NMEA/RTCM or NONE/RTCM. For most receivers, your TNC needs to be set to 4800 baud async data rate to make things work.

So please, send me (or post here) news on how the DGPS corrections are working for you! So far, apparently only a couple of us are using the correction signals.

73, Tom

---

87. Re: [APRSSIG:5348] Re: APRS Documentation

From: Mark Sproul <sproul@ap.org>
Date: Thu, 3 Oct 1996 14:22:23 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae79b3d7b74d@[165.1.27.20]>
Rendered body type: text/plain

The entire APRS/MacAPRS/WinAPRS documentation is now in a ZIP file

        ftp://aprs.rutgers.edu/pub/hamradio/aprs/APRSdocs.zip

This file contains the entire Web browser documents for all of the APRS, MacAPRS and WinAPRS documentation. This file is 634K.

Download this file and unzip with the -D option (very important).

Open "index.htm" with your favorite web browser. You will now have
ALL of the documentation for ALL versions easy to access.

Note, you do NOT have to be connected to the net to use a web browser
to access local files

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

88. Java + Win3.1

From: lesowles@tgis.co.uk (Les Owles)
Date: Thu, 3 Oct 1996 20:05:05 +0100
To: aprssig@tapr.org
Message-ID: <199610031905.UAA00674@tgis.co.uk>
Rendered body type: text/plain

Hi Guys,
Thanks for replies to help with Java. Seems like I'll have to upgrade
to Win95 :-(
My PC (486dx33) has only 8mb ram so will probably grind to a halt.
Maybe a Pentium for Christmas :-)

Keep on tracking.
--
Les Owles [G4IRJ]
lesowles@tgis.co.uk

---

89. Non-standard APRS messages

From: "Chris Moore" <cmoore@cancun.rose.hp.com>
Date: Thu, 3 Oct 1996 16:44:29 -0700
To: aprssig@tapr.org
Message-ID: <9610031644.ZM26711@cancun.rose.hp.com>
Rendered body type: text/plain

Hi all,

I'm new to the group, and also new to APRS. My main interest is in Unix
systems, not PC's or Macs, so I'm looking at doing my own software for
APRS.

In monitoring the local channel I've found some unusual things, and I'm
wondering if I'm misreading the protocol (in PROTOCOL.TXT) or are these
people really sending bad messages?

First example:
/3814.64N/12200.08W# (comment here)
According to the spec, immediately following the leading / there should
be a DDHHMM/ field. The only message that begins with a location and
skips the timestamp is a fixed station message, which should start with !.

Second example:
@031622/3636.10N/12150.17W-PHG343.5 (comment here)
The PHG field is supposed to be exactly 4 digits. What's the decimal point
doing there?

Third example:
!3801.10N/12034.59W#PGH5760/ (comment here)
PGH doesn't mean anything. It should be PHG.

I guess I have a few questions - is anyone else looking at the protocol at
this level, or is everyone just running the shareware apps? If these are
being sent by the shareware apps, why do they have badly formatted data?

Any help would be appreciated.

Thanks,

```
Chris Moore
N6IYS
cmoore@cancun.rose.hp.com
```

---

90. Logo Page

From: William Nolle <wa8inz@cris.com>
Date: Thu, 03 Oct 1996 19:39:35 -0700
To: aprssig@tapr.org
Message-ID: <325478E7.449B@cris.com>
Rendered body type: text/plain

```
I have changed a couple of my logos on the logo page. I have added two
new ones that have the Navstar satellite on it. These by the way are made
from an actual pictures of a Navstar model i made for the New Orleans
world fair a few years back Hi. These would be great for APRS webpage
headers.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

91. Re: [APRSSIG:5147] Re: APRS/AMSAT VHF FREQ

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Thu, 3 Oct 1996 20:43:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961003203816.602A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

```
On Thu, 26 Sep 1996, Stephen Dubois wrote:

> The Canadian Boys APRS freq. is 144.390. Works fine up here..in Ontario..

Well Southern Ontario is to Canada what Southern California is to the
United States: Band Crowded.

I think I can safely say that Canada west of Sault St. Marie would
definately be using 145.790 which seems to be what most (I didn't say
all) of the States are using. Unfortunately nothing here yet for APRS
usage however for interest sake in this discussion, the local BBS is on
144.310.

Michael
--
Michael Markmann VE4MJM        Winnipeg, Manitoba, Canada
ve4mjm@draco.bison.mb.ca
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

92. Re: [APRSSIG:5358] Non-standard APRS messages

From: "Chris Moore" <cmoore@cancun.rose.hp.com>
Date: Thu, 3 Oct 1996 19:10:27 -0700
To: aprssig@tapr.org
Message-ID: <9610031910.ZM29143@cancun.rose.hp.com>
Rendered body type: text/plain

```
On Oct 3,  5:46pm, William Nolle wrote:
> Subject: Re: [APRSSIG:5358] Non-standard APRS messages
> Chris Moore wrote:
>> (my stuff about writing a unix version deleted)
>>
> Chris why would you want to re-invent the wheel?. It may also be an
> infringement on Bob Bruninga's copyrighted APRS software. Be very carefull
> with this venture as your clearly looking for his code etc. Don't take this
> as a flame but rather a word of caution from a fellow ham.

Hi,

I probably should have mentioned this, but I've already been in contact
with Bob and he's aware of my efforts.  If I can't find the answers I'm
looking for here I'll go back to him, but I hate to bother him.

As far as the 'why', there are two reasons.  First is the fact that I
```

prefer the unix and X11 environment. Although I have a few PCs I don't
use them much - I find they generate RFI, are susceptible to RFI, and they
tend to crash a lot. :-) The second reason is for the joy of experimenting
with HAM radio. I've never been the type that could homebrew a rig, but
software I can do!

So, thanks for the friendly warning. I understand your concerns, but as
I said I've talked with Bob and he knows I'm working on this.

Thanks,

Chris Moore
N6IYS
cmoore@cancun.rose.hp.com

93. Re: [APRSSIG:5336] Re: APRS FAQ/Tutorial

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Thu, 03 Oct 1996 22:45:54 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961004024554.00684d60@mail.cyberstreet.com>
Rendered body type: text/plain

At 11:08 PM 10/2/96 -0500, you wrote:
>IF YOU WILL SIND ME YOUR ADDRESS I WILL SIND YOU APRS 7.7b
>73 JOHN WA4MEJ
>wa4mej@juno.com
>OR
>wa4mej@southeast.net
>
>Ron Oblinger kd4ams
 2352 Pellam Blvd

 Port Charlotte, Fl
 33948
 kd4ams@kf4hfr
 ronald@cyberstreet.com   Thank you very much:
                                                  someday I'll return the
                                                  favor.
73 cu Ron"KD4AMS"

94. Test Message...Ignore this...

From: ku0g@sprynet.com
Date: Thu, 3 Oct 1996 19:54:08 -0700
To: aprssig@tapr.org
Message-ID: <199610040254.TAA06554@m1.sprynet.com>
Rendered body type: text/plain

Haven't received any sig mail all day! Just trying this to see if things are
indeed dead or if I've got a problem somewhere along the line here... Sorry for
bandwidth...
Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

95. Re: [APRSSIG:5358] Non-standard APRS messages

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 3 Oct 1996 23:05:22 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961003230247.4829E-100000@arctic>
Rendered body type: text/plain

On Thu, 3 Oct 1996, Chris Moore wrote:

> In monitoring the local channel I've found some unusual things:
>
> /3814.64N/12200.08W# (comment here)
> @031622/3636.10N/12150.17W-PHG343.5 (comment here)
> !3801.10N/12034.59W#PGH5760/ (comment here)

APRSdos REPLY/COMMENT: You are correct, all of those are BAD entries by
the operators. The 1st and 3rd are human entries into a TNC BText (WRONG)
and the middle one is because the human responded to a prompt for gain
with a fractional number...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

96. Re: [APRSSIG:5361] Re: Non-standard APRS messages

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 3 Oct 1996 23:11:42 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961003230938.4829G-100000@arctic>
Rendered body type: text/plain

```
On Thu, 3 Oct 1996, Chris Moore wrote:

> >> (my stuff about writing a unix version deleted)
> I probably should have mentioned this, but I've already been in contact
> with Bob and he's aware of my efforts.  If I can't find the answers I'm
> looking for here I'll go back to him, but I hate to bother him.

APRSdos REPLY/COMMENT:  Sproul Bros are and have been working on the Unix
version of APRS called Xaprs or xAPRS, not sure which, hi hi


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

97. Weather Stations Assistance.

From: BordingK@aol.com
Date: Thu, 3 Oct 1996 23:22:20 -0400
To: aprssig@tapr.org
Message-ID: <961003232219_201692989@emout05.mail.aol.com>
Rendered body type: text/plain

```
Some questions regarding weather stations and APRS.

1.  We have access to a Davis Weather Wizard III that we would like to get on
the air.
      a.  Is this APRS capable?
      b.  Do both DOS APRS and WinAPRS support this device currently?
      c.  Can it be operated in a stand-alone mode without computer?
      d.  With an associated computer, can all the data logging functions
still operate along with
           APRS and do you have to buy Davis's very expensive data logging
software?

2.  Reference Peet Bros:

      a.  Which is the better value system (U-2000, U-2, or U-500) for remote
weather sites.

I know this is a multitude of questions, but we are trying to get a number of
weather sites up here in Jacksonville, FL.  Thanks for your help.

de KF4COH
Ken in Jax.
```

---

98. Re: [APRSSIG:5363] Test Message...Ignore this...

From: William Nolle <wa8inz@cris.com>
Date: Thu, 03 Oct 1996 23:11:26 -0700
To: aprssig@tapr.org
Message-ID: <3254AA8E.FDD@cris.com>
Rendered body type: text/plain

```
ku0g@sprynet.com wrote:
>
> Haven't received any sig mail all day! Just trying this to see if things are
> indeed dead or if I've got a problem somewhere along the line here... Sorry for
> bandwidth...
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail:  ku0g@sprynet.com

Hey Joe that's because i seen you driving around town in you mobil on my map,
that's why you didn't have time to get the sig messages. By the way seen your
running with 3 wides Hi.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
```

```
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

99. Re: [APRSSIG:5167] Re: Baycom as a Wide Digi?

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Thu, 3 Oct 1996 21:03:45 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961003205842.602B-100000@draco.bison.mb.ca>
Rendered body type: text/plain

```
On Fri, 27 Sep 1996, Jim Duncan wrote:

> >I know APRS can't use  Baycom modems directly, but has anyone tried
> >to use one as a digipeater? The current Dayton Wide consists of a
> >dedicated "klunker" computer running APRS and a TNC.  By switching to
> >Baycom I could free up the TNC for some other projects.
> >
> >Thanks!
>
> My question here is "WHY?"  All you need is a TNC and a radio for a
> digipeater.  No need to run the computer and software if all the site is
> used for is digipeating.
> 73 de Jim, KU0G
>
Actually Jim this fellow is looking into using the Baycom Packet-Modem
(notice I didn't say TNC) as a digipeater thereby allowing the TNC
currently in use to be used for other purposes. I do agree with your
statement that you do not need a computer and the APRS software to run a
WIDE or WIDE/RELAY. But seeing that _old_ computers are next to free (or
even free sometimes) and the Baycom software can run on just about
anything, I should think that using a Baycom for a WIDE would work just fine.

Michael
--
Michael Markmann VE4MJM        Winnipeg, Manitoba, Canada
ve4mjm@draco.bison.mb.ca
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

---

100. Re: [APRSSIG:5366] Weather Stations Assistance.

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 04 Oct 1996 07:22:04 -0400
To: aprssig@tapr.org
Message-ID: <3254F35C.4510@co.pinellas.fl.us>
Rendered body type: text/plain

```
BordingK@aol.com wrote:
>
> Some questions regarding weather stations and APRS.
>
> 1.  We have access to a Davis Weather Wizard III that we would like to get on
> the air.
>       a.  Is this APRS capable?
>       b.  Do both DOS APRS and WinAPRS support this device currently?
>       c.  Can it be operated in a stand-alone mode without computer?
>       d.  With an associated computer, can all the data logging functions
> still operate along with
>            APRS and do you have to buy Davis's very expensive data logging
> software?
>
> 2.  Reference Peet Bros:
>
>       a.  Which is the better value system (U-2000, U-2, or U-500) for remote
> weather sites.
>
> I know this is a multitude of questions, but we are trying to get a number of
> weather sites up here in Jacksonville, FL.  Thanks for your help.
>
> de KF4COH
> Ken in Jax.


Hi Ken, I hope the following answers your questions:

Davis Instruments units are quite capable of APRS interface in versions
in APRS versions after 7.0....but, you must have a registered version
with a WX registration number, and you must have the computer interface
cable from Davis Instruments.
```

Both DosAPRS and WinAPRS support Davis, but again, only the registered
versions of same.

The Davis unit cannot currently operate in a stand-alone function with
APRS...but it can be a remote unit connected via telephone modem to your
home station.

The Davis Software can still be used (but not simultaneously) to record
data from the wx station....because,

yes, you MUST by the software from Davis because it comes with the cable
which contains the chip that contains the memory that stores the data...

And on the last question, that of value, it really just depends upon
what you need at your station....The U-II is temp/winddir/windspeed,
the U-500 adds the humidity and dewpoint, and the U-2000 adds the all
important barometer...thus the increased cost of each unit.

```
***********************************************************************Kevin Heyboer
                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
***********************************************************************
```

---

101. Bulletins

From: ad4bl@juno.com (Linda G Mullen)
Date: Fri, 4 Oct 1996 08:37:50 CDT
To: aprssig@tapr.org
Message-ID: <19961004.073927.3374.1.ad4bl@juno.com>
Rendered body type: text/plain

Have a question: on the message page there is a reference to
temporary or permanent bulletins. What is the difference
and how would you use them. I do use the bulletin to post
emergency wx information, net information, and other
general information. Thanks.

Linda Mullen AD4BL DEC East Panhandle District
Northern Florida Section
Email ad4bl@juno.com or ad4bl@beaches.net
Everything worth doing takes courage

---

102. Re: [APRSSIG:5370] Bulletins

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 4 Oct 1996 09:36:09 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961004091950.5383B-100000@arctic>
Rendered body type: text/plain

On Fri, 4 Oct 1996, Linda G Mullen wrote:

> Have a question: on the message page there is a reference to
> temporary or permanent bulletins. What is the difference
> and how would you use them.

APRSdos REPLY/COMMENT: Bulletins to BLN# and BLNx are transmitted on the
same normal APRS decaying algorithm, meaning the time to transmit is
doubled after every transmission. The diference is that BLN#'s just keep
decaying, while BLNx decay down to once every 12 minutes and stay at that
rate. If you are doing anything in real time which wont mean much 2 hours
later, then use BLN#. Here is the result for the first half hour for
both (9 packets total):

```
*8* 16 *  32  *  1min  *   2min   *    4min    *    8min    *   16min   *
```

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

103. Re: [APRSSIG:5358] Non-standard APRS messages

From: Mark Sproul <sproul@ap.org>
Date: Fri, 4 Oct 1996 10:04:32 -0400
To: aprssig@tapr.org
Cc: cmoore@cancun.rose.hp.com
Message-ID: <v03007801ae7ac98c425a@[165.1.27.20]>
Rendered body type: text/plain

```
>Hi all,
>
>I'm new to the group, and also new to APRS.  My main interest is in Unix
>systems, not PC's or Macs, so I'm looking at doing my own software for
>APRS.
>


There is a version of APRS called X-APRS that is in the works.  We have
proof of concept working (Maps are being displayed under X) and expect
(hope) to have a complete X-Windows version ready to release by Datyon of
next year.

Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

104. Re: [APRSSIG:5370] Bulletins

From: kf4dys@juno.com (Joe Foor)
Date: Fri, 4 Oct 1996 09:11:13 PST
To: aprssig@tapr.org
Message-ID: <19961004.092047.4503.0.kf4dys@juno.com>
Rendered body type: text/plain

```
On Fri, 4 Oct 1996 07:50:50 -0500 (CDT) ad4bl@juno.com (Linda G Mullen)
writes:
>Have a question:  on the message page there is a reference to
>temporary or permanent bulletins.  What is the difference
>and how would you use them.  I do use the bulletin to post
>emergency wx information, net information, and other
>general information.  Thanks.
>

Hi Linda;

The only difference, is in the transmission periodicity.

When you input anything, the APRS software transmits a
packet, then 7 seconds later another packet, then 14
seconds later another packet, then 28 seconds later
another packet... If you permit it, eventually it will
get to the point where it is transmitting the packet once
every 24 hours. Once it gets to this point, it stops
changing the time between packets (I read this in the
docs, several versions ago, but haven't tested it).

Some types of data packets don't do that. The time will
stop changing when it hits a maximum of 20 minutes
between packets. The storms I post are this way and so
are the station position packets and the permanent
bulletins. Of course, if you (E)rase the bulletin, it
will stop being transmitted.

The choice of what type of bulletin to use, depends on
whether the information will continue to be critical
after the first 40 minutes. If it will, then you should
use a permanent bulletin, so any station coming on the
net will still see the bulletin within twenty minutes of
starting their software up.

For short term information, such as "EPAN NET accepting
APRS checkins", the temporary bulletin would be
preferred, so if you forget to (E)rase it afterward, it
will space itself out and minimize the interference with
normal net operations. On the other hand, If I had a
tropical cyclone, coming our way, about 48 hours out. I
would use a permanent bulletin, to announce it, so people
who didn't normally use a large scale map display, would
still find out about it, soon after they came up on the
net.

Regards,
Joe
```

105. Newbie with APRS questions

From: Scott <scott@ia.net>
Date: Fri, 4 Oct 1996 10:22:17 -0500
To: aprssig@tapr.org
Message-ID: <199610041522.KAA01831@zeus.ia.net>
Rendered body type: text/plain

Greetings all.
I'm trying to set up my own APRS station but I don't know exactly what files to
download. I'm using a 386DX 40 computer with 6mb RAM. Am using Windows
3.11 for Workgroups.   Can use either windows or DOS. I have a Heathkit HD
4040 TNC
running the KISS mode (I think). I am using ProComm Plus software.
Any help appreciated.

Scott Werling   Anamosa, Iowa
scott@ia.net   OR werling@dps.state.ia.us
Amateur radio operator N0XZY AX 25: N0XZY @ WA0RJT.#EIA.IA.USA.NOAM
Living in Iowa, 'cause I gotta be somewhere.

Of Burglars and Bureaucrats: "One way to make sure crime doesn't pay would
be to let the government run it." Ronald Regan.

---

106. REPLY FROM VACATION AGENT

From: COCKERELL_LARRY@Tandem.COM
Date: 4 Oct 96 08:34:00 -0700
To: aprssig@tapr.org
Message-ID: <199610040837.AA22329@MAILMN.mis.tandem.com>
Rendered body type: text/plain

I'm on vacation until October 21. For MIS questions please contact Laura
Duncan or Theresa Conejero. For Tech Support questions please contact Jack
Schifando. For Field Support questions please contact Rich D'Angelo.

------------   ORIGINAL ATTACHMENT   --------
SENT 10-04-96 FROM SMTPGATE (aprssig@tapr.org)

APRSSIG Digest 720

Topics covered in this issue include:

1) TAPR Office to reduce to minimum operations
by Greg Jones <wd5ivd@tapr.org>
2) Re: N7LUE
by William Nolle <wa8inz@cris.com>
3) Re: APRS FAQ/Tutorial
by William Nolle <wa8inz@cris.com>
4) RS232 level converter
by "Charles E. Heisler" <cheisler@cyberia.com>
5) Magnavox MX4200, anyone want one?
by bob <w2g3zfj@unix.asb.com>
6) Re: DGPS and ANNAPOLIS WIDE!
by clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
7) Re: APRS Documentation
by Mark Sproul <sproul@ap.org>
8) Java + Win3.1
by lesowles@tgis.co.uk (Les Owles)
9) Non-standard APRS messages
by "Chris Moore" <cmoore@cancun.rose.hp.com>
10) Logo Page
by William Nolle <wa8inz@cris.com>
11) Re: APRS/AMSAT VHF FREQ
by Michael Markmann <ve4mjm@draco.bison.mb.ca>
12) Re: Non-standard APRS messages
by "Chris Moore" <cmoore@cancun.rose.hp.com>
13) Re: APRS FAQ/Tutorial
by Ronald Oblinger <ronald@cyberstreet.com>
14) Test Message...Ignore this...
by ku0g@sprynet.com
15) Re: Non-standard APRS messages
by Bob Bruninga <bruninga@nadn.navy.mil>
16) Re: Non-standard APRS messages
by Bob Bruninga <bruninga@nadn.navy.mil>
17) Weather Stations Assistance.
by BordingK@aol.com
18) Re: Test Message...Ignore this...
by William Nolle <wa8inz@cris.com>

19) Re: Baycom as a Wide Digi?
by Michael Markmann <ve4mjm@draco.bison.mb.ca>
20) Re: Weather Stations Assistance.
by Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
21) Bulletins
by ad4bl@juno.com (Linda G Mullen)
22) Re: Bulletins
by Bob Bruninga <bruninga@nadn.navy.mil>
23) Re: Non-standard APRS messages
by Mark Sproul <sproul@ap.org>
24) Re: Bulletins
by kf4dys@juno.com (Joe Foor)

Date: Thu, 3 Oct 1996 10:01:18 -0500 (CDT)
From: Greg Jones <wd5ivd@tapr.org>
To: tapr-bb@tapr.org (TAPR-BB mailing), tapr-board@tapr.org (TAPR Board),
Subject: TAPR Office to reduce to minimum operations
Message-ID: <199610031501.KAA15057@tapr.org>

TAPR Office to reduce to minimum operations Oct 3, 1996

The TAPR Office will shutdown to minimum operations starting October 8th and running at least until October 28th.

This means that Dorothy will not be working the office phones during this period. The office will continue to operate, but at a much reduced level. E-mail, US mail, Voice Mail, etc will still be received and recorded, but everything will be processed at a very much slower rate during this period.

GPS-20 units have begun to ship. As of this e-mail, approximately 40 units have shipped. We are awaiting additional pins for the connector (suppose to arrive Oct 11th) in order to complete the remainder of the units. These pins replace the ones that were incorrect in the shipment we received. Once the pins arrive, we will get the other units out as soon as possible.

The Motorola EVM56002 have been placed on order and are expected to arrive sometime after Oct 21st. They will then be shipped out as time permits under the operational schedule at the office. There are something like 60 of the 200 units still available in this purchase at the $85 + $10 s/h price. Check the TAPR Web page for full details www.tapr.org. First come basis on these units.

TAPR is sorry for any delays that the reduced operations schedule at the office might cause. If everything turns out positive, the office should be back operational towards the end of October.

Cheers - Greg Jones, WD5IVD
President, TAPR

(wd5ivd@tapr.org)

Date: Thu, 03 Oct 1996 10:40:51 -0700
From: William Nolle <wa8inz@cris.com>
To: aprssig@tapr.org
Subject: Re: N7LUE
Message-ID: <3253FAA3.2CEF@cris.com>

Ronald Armstrong wrote:
>
> Does anyone know where I can reach Robert Swain N7LUE,I am looking for
> him ,I badly need to get from him the interface for connecting my DF to
> APRS.   Ron VE2JOR

Right off hand i can't tell you but i know there's a direction finding page on the web that covers his DF stuff. I think there's a link to it on my WA8INZ page just below the Agrelo link. If you still can't find it let me know and i will track it down!.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLUNTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

Date: Thu, 03 Oct 1996 10:43:39 -0700
From: William Nolle <wa8inz@cris.com>
To: aprssig@tapr.org
Subject: Re: APRS FAQ/Tutorial
Message-ID: <3253FB4B.31B9@cris.com>

SWeigold@aol.com wrote:

> In a message dated 96-10-02 19:07:36 EDT, you write:
>
> > Come on Bill! Give the guy a break! He may not even *HAVE* an
> > APRS\README subdirectory, because he may not have the software
> > installed yet! He may be looking for info like the APRS FAQs that
> > many people have on their WWW pages, or he may need info on how to
> > obtain the software in the first place! A little kindness please!
> >
> > Steve, if you still need information (and we haven't driven you away
> > from the SIG yet...), please feel free to E-Mail me direct. I'll do
> > what I can to help.
> >
> > Bill Young
> > byoung@qni.com
> > KB0UZQ
>
> Bill,
> You were nicer to him than I was... I sent him a nasty email... I am an
> Advanced Class who goes out of my way to help new commers (elmered 10 so
> far!) and I tend to get a little pissed about stuff like that. Anyway,
> basically thinking about getting into APRS but I know little more than what
> APRS stands for. Any help you can give will be appreciated.
> 73
> Steve KF8KI

Yes Steve it did get me upset just a little about a guy that would rather
have someone else do his leg work for him Hi. Well anytime you need some help
let me know and i will sure give it a try Hi.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
       THANKS TO THOSE MENTOR VOLUNTEERS
You can now get to the Logo page from the main menu
      Also check out my WA8INZ Home page.

      http://www.concentric.net/~wa8inz
```

Date: Thu, 03 Oct 1996 11:46:08 -0400
From: "Charles E. Heisler" <cheisler@cyberia.com>
To: aprssig@tapr.org
Subject: RS232 level converter
Message-ID: <2.2.16.19961003154608.24ffb2ec@cyberia.com>

Hi APRSSIGS

Can some one point me toward a simple to build (or buy)
RS232 level comverter? I want to interface my GPS-20 engine to
A old computer that will not drive from the <5 volt serial data
from the GPS-20.

Thanks for any help!!
Please respond to:

cheisler@cyberia.com
As I am temp. off of the SIG.
de Charlie K3VDB

Date: Thu, 3 Oct 1996 11:57:34 -0400
From: bob <w2g3zfj@unix.asb.com>
To: aprssig@tapr.org
Subject: Magnavox MX4200, anyone want one?
Message-ID: <199610031557.LAA14558@unix.asb.com>

Hi Folks

I have an MX4200 for disposal. Includes simple RS422<->RS232 interface, full docs, 4200.exe control program etc. Works fine, ideal for standalone tracker (I use one in the car). Ideally needs an amplified antenna, but lock *usually* obtained on a passive antenna. I typically use the Garmin amplified antenna with my MX4200's but have also used a generic amplified antenna, the Paccom one *should* work as well. Operates upto 80,000 ft and 1000knots, no 99knot limit like the Garmins! Will also supply unlimited EMail help to get it going with APRS!

If interested let me know by DIRECT Email please NOT via the SIG!

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com

PS For those who don't know what an MX4200 is, its a small plastic box (about 6" x 4"x1.5") with three leds on the front for status info. Has two RS422 ports, one for control and one for rtcm104 input (DGPS) also has a NMEA port as well. Outputs GGA, VTG and GLL sentences plus lots of other info on satellite status etc if needed. Fully programmable for output rate, sentences etc. The 4200.exe program enables you to easily change all this. Battery back up. 12-24v input. Type 'F' antenna input, 25pin D type for data. Once you've programmed it you only need to turn it on.

Date: Thu, 03 Oct 96 16:45:17 UTC
From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
To: aprssig@tapr.org
Subject: Re: DGPS and ANNAPOLIS WIDE!
Message-ID: <113152@tomcat.gsfc.nasa.gov>

Bob -- thanks for telling me that the Balto/Wash area now is again WIDE! I just stopped by W3IWI-13 and changed the UNPROTO route accordingly.

All -- Now that the W3IWI-13 DGPS beacon has better coverage bouncing thru whatever WIDEs it can hit, I am really anxious to get reports from folks in the MD/DC/VA/DE/PA/SNJ area on your ability to use the DGPS corrections I'm broadcasting. In case you missed the earlier postings, W3IWI-13 is sending DGPS beacons addressed to DGPS via WIDE with a beacon sent every 20 seconds. The data is generated in some professional equipment and the DGPS correction quality should be >>BETTER<< than those sent by the Coast Guard on ~300 kHz or by commercial firms like DCI on FM broadcast subcarriers. With these corrections poked into your GPS receiver, you should obtain 1-10 meter accuracy within about 50 miles of the beacon site (Greenbelt MD) and should see improvements out to the 100-200 mile range. The DGPS beacons should virtually eliminate effects of Selective Availability and GPS broadcast ephemeris errors, and will minimize errors due to signal propagation thru the ionosphere and troposphere.

To use them, you need to make sure there is some data path from your TNC's data output into your GPS rcvr's input. This can be a direct TNC->GPS connection, or Bob has hooks in APRS to handle it for you. You may need to enable DGPS data on your GPS receiver; for example, in the Garmin 38/40/45 you need to go to the INTERFACES menu item, and select either NMEA/RTCM or NONE/RTCM. For most receivers, your TNC needs to be set to 4800 baud async data rate to make things work.

So please, send me (or post here) news on how the DGPS corrections are working for you! So far, apparently only a couple of us are using the correction signals.

73, Tom

Date: Thu, 3 Oct 1996 14:22:23 -0400
From: Mark Sproul <sproul@ap.org>
To: aprssig@tapr.org
Subject: Re: APRS Documentation
Message-ID: <v03007800ae79b3d7b74d@[165.1.27.20]>

The entire APRS/MacAPRS/WinAPRS documentation is now in a ZIP file

ftp://aprs.rutgers.edu/pub/hamradio/aprs/APRSdocs.zip

This file contains the entire Web browser documents for all of the APRS, MacAPRS and WinAPRS documentation. This file is 634K.

Download this file and unzip with the -D option (very important).

Open "index.htm" with your favorite web browser. You will now have ALL of the documentation for ALL versions easy to access.

Note, you do NOT have to be connected to the net to use a web browser to access local files

Mark

```
_____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

Date: Thu, 3 Oct 1996 20:05:05 +0100
From: lesowles@tgis.co.uk (Les Owles)
To: aprssig@tapr.org
Subject: Java + Win3.1
Message-ID: <199610031905.UAA00674@tgis.co.uk>

Hi Guys,
Thanks for replies to help with Java. Seems like I'll have to upgrade to Win95 :-(
My PC (486dx33) has only 8mb ram so will probably grind to a halt. Maybe a Pentium for Christmas :-)

Keep on tracking.
--
Les Owles [G4IRJ]
lesowles@tgis.co.uk

Date: Thu, 3 Oct 1996 16:44:29 -0700
From: "Chris Moore" <cmoore@cancun.rose.hp.com>
To: aprssig@tapr.org
Subject: Non-standard APRS messages
Message-ID: <9610031644.ZM26711@cancun.rose.hp.com>

Hi all,

I'm new to the group, and also new to APRS. My main interest is in Unix systems, not PC's or Macs, so I'm looking at doing my own software for APRS.

In monitoring the local channel I've found some unusual things, and I'm wondering if I'm misreading the protocol (in PROTOCOL.TXT) or are these people really sending bad messages?

First example:
/3814.64N/12200.08W# (comment here)
According to the spec, immediately following the leading / there should be a DDHHMM/ field. The only message that begins with a location and skips the timestamp is a fixed station message, which should start with !.

Second example:
@031622/3636.10N/12150.17W-PHG343.5 (comment here)
The PHG field is supposed to be exactly 4 digits. What's the decimal point doing there?

Third example:
!3801.10N/12034.59W#PGH5760/ (comment here)
PGH doesn't mean anything. It should be PHG.

I guess I have a few questions - is anyone else looking at the protocol at this level, or is everyone just running the shareware apps? If these are being sent by the shareware apps, why do they have badly formatted data?

Any help would be apprecitated.

Thanks,

Chris Moore
N6IYS
cmoore@cancun.rose.hp.com

Date: Thu, 03 Oct 1996 19:39:35 -0700
From: William Nolle <wa8inz@cris.com>
To: aprssig@tapr.org
Subject: Logo Page
Message-ID: <325478E7.449B@cris.com>

I have changed a couple of my logos on the logo page. I have added two new ones that have the Navstar satellite on it. These by the way are made from an actual pictures of a Navstar model i made for the New Orleans world fair a few years back Hi. These would be great for APRS webpage headers.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

Date: Thu, 3 Oct 1996 20:43:16 -0500 (CDT)
From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
To: aprssig@tapr.org
Subject: Re: APRS/AMSAT VHF FREQ
Message-ID: <Pine.LNX.3.91.961003203816.602A-100000@draco.bison.mb.ca>

On Thu, 26 Sep 1996, Stephen Dubois wrote:

> The Canadian Boys APRS freq. is 144.390. Works fine up here..in Ontario..

Well Southern Ontario is to Canada what Southern California is to the United States: Band Crowded.

I think I can safely say that Canada west of Sault St. Marie would definately be using 145.790 which seems to be what most (I didn't say all) of the States are using. Unfortunately nothing here yet for APRS usage however for interest sake in this discussion, the local BBS is on 144.310.

Michael

```
--
```

Michael Markmann VE4MJM   Winnipeg, Manitoba, Canada
ve4mjm@draco.bison.mb.ca
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

Date: Thu, 3 Oct 1996 19:10:27 -0700
From: "Chris Moore" <cmoore@cancun.rose.hp.com>
To: aprssig@tapr.org
Subject: Re: Non-standard APRS messages
Message-ID: <9610031910.ZM29143@cancun.rose.hp.com>

On Oct 3, 5:46pm, William Nolle wrote:
> Subject: Re: [APRSSIG:5358] Non-standard APRS messages
> Chris Moore wrote:
>> (my stuff about writing a unix version deleted)
>>
> Chris why would you want to re-invent the wheel?. It may also be an
> infringement on Bob Bruninga's copyrighted APRS software. Be very carefull
> with this venture as your clearly looking for his code etc. Don't take this
> as a flame but rather a word of caution from a fellow ham.

Hi,

I probably should have mentioned this, but I've already been in contact
with Bob and he's aware of my efforts. If I can't find the answers I'm
looking for here I'll go back to him, but I hate to bother him.

As far as the 'why', there are two reasons. First is the fact that I
prefer the unix and X11 environment. Although I have a few PCs I don't
use them much - I find they generate RFI, are susceptible to RFI, and they
tend to crash a lot. :-) The second reason is for the joy of experimenting
with HAM radio. I've never been the type that could homebrew a rig, but
software I can do!
So, thanks for the friendly warning. I understand your concerns, but as
I said I've talked with Bob and he knows I'm working on this.

Thanks,

Chris Moore
N6IYS
cmoore@cancun.rose.hp.com

Date: Thu, 03 Oct 1996 22:45:54 -0400
From: Ronald Oblinger <ronald@cyberstreet.com>
To: aprssig@tapr.org
Subject: Re: APRS FAQ/Tutorial
Message-ID: <2.2.32.19961004024554.00684d60@mail.cyberstreet.com>

At 11:08 PM 10/2/96 -0500, you wrote:
>IF YOU WILL SIND ME YOUR ADDRESS I WILL SIND YOU APRS 7.7b
>73 JOHN WA4MEJ
>wa4mej@juno.com
>OR
>wa4mej@southeast.net
>
>Ron Oblinger kd4ams
 2352 Pellam Blvd
 Port Charlotte, Fl
 33948
 kd4ams@kf4hfr
 ronald@cyberstreet.com   Thank you very much:
                                               someday I'll return the
                                               favor.
73 cu Ron"KD4AMS"

Date: Thu, 3 Oct 1996 19:54:08 -0700
From: ku0g@sprynet.com
To: aprssig@tapr.org
Subject: Test Message...Ignore this...
Message-ID: <199610040254.TAA06554@m1.sprynet.com>

Haven't received any sig mail all day! Just trying this to see if things are indeed dead or if I've got a problem somewhere along the line here... Sorry for bandwidth...

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail: ku0g@sprynet.com

Date: Thu, 3 Oct 1996 23:05:22 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: Non-standard APRS messages
Message-ID: <Pine.GSO.3.95.961003230247.4829E-100000@arctic>

On Thu, 3 Oct 1996, Chris Moore wrote:

> In monitoring the local channel I've found some unusual things:
>
> /3814.64N/12200.08W# (comment here)
> @031622/3636.10N/12150.17W-PHG343.5 (comment here)
> !3801.10N/12034.59W#PGH5760/ (comment here)

APRSdos REPLY/COMMENT: You are correct, all of those are BAD entries by the operators. The 1st and 3rd are human entries into a TNC BText (WRONG) and the middle one is because the human responded to a prompt for gain with a fractional number...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Date: Thu, 3 Oct 1996 23:11:42 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: Non-standard APRS messages
Message-ID: <Pine.GSO.3.95.961003230938.4829G-100000@arctic>

On Thu, 3 Oct 1996, Chris Moore wrote:

> >> (my stuff about writing a unix version deleted)
> I probably should have mentioned this, but I've already been in contact
> with Bob and he's aware of my efforts. If I can't find the answers I'm
> looking for here I'll go back to him, but I hate to bother him.

APRSdos REPLY/COMMENT: Sproul Bros are and have been working on the Unix version of APRS called Xaprs or xAPRS, not sure which, hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Date: Thu, 3 Oct 1996 23:22:20 -0400
From: BordingK@aol.com
To: aprssig@tapr.org
Subject: Weather Stations Assistance.
Message-ID: <961003232219_201692989@emout05.mail.aol.com>

Some questions regarding weather stations and APRS.

1. We have access to a Davis Weather Wizard III that we would like to get on the air.
    a. Is this APRS capable?
    b. Do both DOS APRS and WinAPRS support this device currently?
    c. Can it be operated in a stand-alone mode without computer?
    d. With an associated computer, can all the data logging functions still operate along with APRS and do you have to buy Davis's very expensive data logging software?

2. Reference Peet Bros:

a. Which is the better value system (U-2000, U-2, or U-500) for remote weather sites.

I know this is a multitude of questions, but we are trying to get a number of weather sites up here in Jacksonville, FL. Thanks for your help.

de KF4COH
Ken in Jax.

Date: Thu, 03 Oct 1996 23:11:26 -0700
From: William Nolle <wa8inz@cris.com>
To: aprssig@tapr.org
Subject: Re: Test Message...Ignore this...
Message-ID: <3254AA8E.FDD@cris.com>

ku0g@sprynet.com wrote:
>
> Haven't received any sig mail all day! Just trying this to see if things are
> indeed dead or if I've got a problem somewhere along the line here... Sorry for
> bandwidth...
> Best 73,
> Jim Duncan, KU0G
> APRS--Kansas City Coordinator
> EMail: ku0g@sprynet.com

Hey Joe that's because i seen you driving around town in you mobil on my map, that's why you didn't have time to get the sig messages. By the way seen your running with 3 wides Hi.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

Date: Thu, 3 Oct 1996 21:03:45 -0500 (CDT)
From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
To: aprssig@tapr.org
Subject: Re: Baycom as a Wide Digi?
Message-ID: <Pine.LNX.3.91.961003205842.602B-100000@draco.bison.mb.ca>

On Fri, 27 Sep 1996, Jim Duncan wrote:

> >I know APRS can't use Baycom modems directly, but has anyone tried
> >to use one as a digipeater? The current Dayton Wide consists of a
> >dedicated "klunker" computer running APRS and a TNC. By switching to
> >Baycom I could free up the TNC for some other projects.
> >
> >Thanks!
>
> My question here is "WHY?" All you need is a TNC and a radio for a
> digipeater. No need to run the computer and software if all the site is
> used for is digipeating.
> 73 de Jim, KU0G
>

Actually Jim this fellow is looking into using the Baycom Packet-Modem (notice I didn't say TNC) as a digipeater thereby allowing the TNC currently in use to be used for other purposes. I do agree with your statement that you do not need a computer and the APRS software to run a WIDE or WIDE/RELAY. But seeing that _old_ computers are next to free (or even free sometimes) and the Baycom software can run on just about anything, I should think that using a Baycom for a WIDE would work just fine.

Michael
--

Michael Markmann VE4MJM   Winnipeg, Manitoba, Canada
ve4mjm@draco.bison.mb.ca
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

Date: Fri, 04 Oct 1996 07:22:04 -0400
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
To: aprssig@tapr.org
Subject: Re: Weather Stations Assistance.
Message-ID: <3254F35C.4510@co.pinellas.fl.us>

BordingK@aol.com wrote:
>
> Some questions regarding weather stations and APRS.
>
> 1. We have access to a Davis Weather Wizard III that we would like to get on
> the air.
>   a. Is this APRS capable?
>   b. Do both DOS APRS and WinAPRS support this device currently?
>   c. Can it be operated in a stand-alone mode without computer?
>   d. With an associated computer, can all the data logging functions
> still operate along with
>   APRS and do you have to buy Davis's very expensive data logging
> software?
>
> 2. Reference Peet Bros:
>
>   a. Which is the better value system (U-2000, U-2, or U-500) for remote
> weather sites.
>
> I know this is a multitude of questions, but we are trying to get a number of
> weather sites up here in Jacksonville, FL. Thanks for your help.
>
> de KF4COH
> Ken in Jax.

Hi Ken, I hope the following answers your questions:

Davis Instruments units are quite capable of APRS interface in versions
in APRS versions after 7.0....but, you must have a registered version
with a WX registration number, and you must have the computer interface
cable from Davis Instruments.

Both DosAPRS and WinAPRS support Davis, but again, only the registered
versions of same.

The Davis unit cannot currently operate in a stand-alone function with
APRS...but it can be a remote unit connected via telephone modem to your
home station.

The Davis Software can still be used (but not simultaneously) to record
data from the wx station....because,

yes, you MUST by the software from Davis because it comes with the cable
which contains the chip that contains the memory that stores the data...

And on the last question, that of value, it really just depends upon
what you need at your station....The U-II is temp/winddir/windspeed,
the U-500 adds the humidity and dewpoint, and the U-2000 adds the all
important barometer...thus the increased cost of each unit.

***Kevin Heyboer
E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR   Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
****

Date: Fri, 4 Oct 1996 08:37:50 CDT
From: ad4bl@juno.com (Linda G Mullen)
To: aprssig@tapr.org
Subject: Bulletins
Message-ID: <19961004.073927.3374.1.ad4bl@juno.com>

Have a question: on the message page there is a reference to
temporary or permanent bulletins. What is the difference
and how would you use them. I do use the bulletin to post
emergency wx information, net information, and other
general information. Thanks.

Linda Mullen AD4BL DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
Everything worth doing takes courage

Date: Fri, 4 Oct 1996 09:36:09 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: Bulletins
Message-ID: <Pine.GSO.3.95.961004091950.5383B-100000@arctic>

On Fri, 4 Oct 1996, Linda G Mullen wrote:

> Have a question: on the message page there is a reference to
> temporary or permanent bulletins. What is the difference
> and how would you use them.

APRSdos REPLY/COMMENT: Bulletins to BLN# and BLNx are transmitted on the same normal APRS decaying algorithm, meaning the time to transmit is doubled after every transmission. The diference is that BLN#'s just keep decaying, while BLNx decay down to once every 12 minutes and stay at that rate. If you are doing anything in real time which wont mean much 2 hours later, then use BLN#. Here is the result for the first half hour for both (9 packets total):

```
*8* 16 *  32  *  1min  *   2min   *    4min    *    8min    *   16min   *
```

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Date: Fri, 4 Oct 1996 10:04:32 -0400
From: Mark Sproul <sproul@ap.org>
To: aprssig@tapr.org
Cc: cmoore@cancun.rose.hp.com
Subject: Re: Non-standard APRS messages
Message-ID: <v03007801ae7ac98c425a@[165.1.27.20]>

>Hi all,
>
>I'm new to the group, and also new to APRS. My main interest is in Unix
>systems, not PC's or Macs, so I'm looking at doing my own software for
>APRS.
>

There is a version of APRS called X-APRS that is in the works. We have proof of concept working (Maps are being displayed under X) and expect (hope) to have a complete X-Windows version ready to release by Datyon of next year.

Mark

```
_____________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

Date: Fri, 4 Oct 1996 09:11:13 PST

From: kf4dys@juno.com (Joe Foor)
To: aprssig@tapr.org
Subject: Re: Bulletins
Message-ID: <19961004.092047.4503.0.kf4dys@juno.com>

On Fri, 4 Oct 1996 07:50:50 -0500 (CDT) ad4bl@juno.com (Linda G Mullen) writes:

>Have a question: on the message page there is a reference to
>temporary or permanent bulletins. What is the difference
>and how would you use them. I do use the bulletin to post
>emergency wx information, net information, and other
>general information. Thanks.
>

Hi Linda;

The only difference, is in the transmission periodicity.

When you input anything, the APRS software transmits a packet, then 7 seconds later another packet, then 14 seconds later another packet, then 28 seconds later another packet... If you permit it, eventually it will get to the point where it is transmitting the packet once every 24 hours. Once it gets to this point, it stops changing the time between packets (I read this in the docs, several versions ago, but haven't tested it).

Some types of data packets don't do that. The time will stop changing when it hits a maximum of 20 minutes between packets. The storms I post are this way and so are the station position packets and the permanent bulletins. Of course, if you (E)rase the bulletin, it will stop being transmitted.

The choice of what type of bulletin to use, depends on whether the information will continue to be critical after the first 40 minutes. If it will, then you should use a permanent bulletin, so any station coming on the net will still see the bulletin within twenty minutes of starting their software up.

For short term information, such as "EPAN NET accepting APRS checkins", the temporary bulletin would be preferred, so if you forget to (E)rase it afterward, it will space itself out and minimize the interference with normal net operations. On the other hand, If I had a tropical cyclone, coming our way, about 48 hours out. I would use a permanent bulletin, to announce it, so people who didn't normally use a large scale map display, would still find out about it, soon after they came up on the net.

Regards,
Joe

End of APRSSIG Digest 720
****

107. Re: [APRSSIG:5361] Re: Non-standard APRS messages

From: Bob Lorenzini <hwm@netcom.com>
Date: Fri, 4 Oct 1996 09:14:49 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961004090258.85B-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

Chris, you may not be aware but there is a port of WINAPRS to unix in progress already. I don't mention this to discourage you as I also prefer unix over dos/windows. APRS is just about the only application I run under that environment any more. As an aside, linux (my preference) halts the processor rather than running in a idle loop when not busy, greatly extending battery life on a laptop.

Bob - wd6dod

108. New address

From: Doug Wetzel <dougwe@wrq.com>
Date: Fri, 04 Oct 1996 09:49:31 -0700
To: aprssig@tapr.org
Message-ID: <3255401B.4CED@wrq.com>
Rendered body type: text/plain

For those of you who may want to reach me via email, I have moved to
Seattle and have the following address:

dougwe@wrq.com

73,
Doug Wetzel
KC7CO

---

109. Re: [APRSSIG:5374] Newbie with APRS questions

From: Mark Sproul <sproul@ap.org>
Date: Fri, 4 Oct 1996 12:34:00 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae7aeca0ddd4@[165.1.27.20]>
Rendered body type: text/plain

>Greetings all.
>I'm trying to set up my own APRS station but I don't know exactly what
>files to
>download. I'm using a 386DX 40 computer with 6mb RAM. Am using Windows
>3.11 for Workgroups.   Can use either windows or DOS. I have a Heathkit HD
>4040 TNC
>running the KISS mode (I think). I am using ProComm Plus software.
>Any help appreciated.
>

WinAPRS does not support Kiss mode, I dont beleive dosAPRS does either.
You will have to take it out of KISS mode, if it does not support non-kiss
mode, it wont work.

WinAPRS will run just fine on your machine running Win 3.11.

Mark

```
_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

---

110. Re: [APRSSIG:5368] Re: Baycom as a Wide Digi?

From: rwf <rwf@mindspring.com>
Date: Fri, 04 Oct 1996 09:35:19 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961004133519.0068aa14@atl.mindspring.com>
Rendered body type: text/plain

Glad I don't have to pay his electric bill!!!! About $130.00 / yr to run a
PC, I understand

Michael Markman wrote:

 But seeing that _old_ computers are next to free (or
>even free sometimes) and the Baycom software can run on just about
>anything, I should think that using a Baycom for a WIDE would work just fine.

---

111. Re: [APRSSIG:5369] Re: Weather Stations Assistance.

From: Mark Sproul <sproul@ap.org>
Date: Fri, 4 Oct 1996 13:28:16 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae7af9642340@[165.1.27.20]>
Rendered body type: text/plain

>Davis Instruments units are quite capable of APRS interface in versions
>in APRS versions after 7.0....but, you must have a registered version
>with a WX registration number, and you must have the computer interface
>cable from Davis Instruments.

```
>
>Both DosAPRS and WinAPRS support Davis, but again, only the registered
>versions of same.
>

WRONG, the UN-REGISTERED version of WinAPRS supports the davis instrument
EXACTLY the same as the registered version, only thing is you have to rest
all of the options each time you run the program


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

112. Re: [APRSSIG:5374] Newbie with APRS questions

From: wa4mej@juno.com (john w dent)
Date: Fri, 4 Oct 1996 12:41:24 PST
To: aprssig@tapr.org
Message-ID: <19961004.135432.4599.0.wa4mej@juno.com>
Rendered body type: text/plain

```
hi scott
there are a lot of people some what close to you that can help get you on
APRS  if you can't find any one let me know . and i will send you a coppy
of APRS then to pay for it you will need to help some other HAM in the
ART of ham radio..
would need your add. and can your system read 1.44 or what..

have fun
john
wa4mej
```

113. Re: Newbie with APRS questions

From: wa4mej@juno.com (john w dent)
Date: Fri, 4 Oct 1996 14:15:53 PST
To: aprssig@tapr.org
Message-ID: <19961004.141557.4599.4.wa4mej@juno.com>
Rendered body type: text/plain

```
hi
my name is john , call WA4MEJ  you will have a lot of fun with aprs   dos
& win
the importent thing is use it to the benifit of us all.

if i can help you please let me know.

73
john
wa4mej
wa4mej@juno.com
```

114. re: [APRSSIG:5379] Re: Baycom as a Wide Digi?

From: dougwe@ccintnet.wrq.com
Date: Fri, 04 Oct 96 10:56:00 PST
To: aprssig@tapr.org
Message-ID: <9609048444.AA844454244@ccintnet.wrq.com>
Rendered body type: text/plain

```
--- This is a reply to message number 506695, posted on 10/04/96 10:44
______________________________________________________________________________

Yes, Baycom does work as a WIDE.  We used one for several months in Utah, but
there is an issue with how many aliases can be used.

Doug
KC7CO
```

115. Re: 144.3-.5 Mhz Mobile Satellite channels

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 04 Oct 1996 15:23:54 -0400
To: kwi@cc.hut.fi
Cc: Bruninga@Nadn.Navy.Mil, Amsat-Bb@Amsat.Org, Aprssig@tapr.org

Message-ID: <844457034-0-eac@shore.net>
Rendered body type: text/plain

Hello,

One of the early OSCAR satellites had a in-band transponder that used the
144.3 to 144.5 region as well as the 145.8 to 146 region. Very fun to
operate with the desense!

There is a tendency for people to hold on to whatever resources they have.
If the satellite community is not currently using the 144.3 to 144.5 band
and there are no plans for the future use of it, then I think we should
"let it go".

73 Eric eac@shore.net

116. (no subject)

From: "John R. Moore" <w5huq@pobox.com>
Date: Fri, 04 Oct 1996 17:04:29 -0400
Message-ID: <32557BDD.D81@pobox.com>
Rendered body type: text/plain

MIME-Version: 1.0
To: aprssig@tapr.org, aprs-fl@tapr.org

Subject: Info on KAM Plus
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just got a KAM plus and want to use it for a gateway I think it
is working right but I am not sure. I have the Mygate set to Gate,
and I think I have the unproto string set right but if anyone
has seen the signal today and it is wrong please let me know.
Thanks
John W5HUQ
--
ARRL 1997 National Convention Information
http://www.pobox.com/~w5huq/hamfests.html

Orange Park Amateur Radio Club Information
http://www.pobox.com/~w5huq

117. E-MAIl AGENTS

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 4 Oct 1996 18:11:32 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae7b564333c4@[199.1.11.132]>
Rendered body type: text/plain

Warning: don't do what COCKERELL_LARRY@Tandem.COM did
and set your E-mail to auto reply with the ORIGINAL ATTACHMENT
when you are out of town.

I hope our server police can prevent us from seeing a reposting copy of the
digest from LARRY"S VACATION AGENT else this
could last until he gets back on October 21

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

118. Re: APRS FAQ/Tutorial

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Fri, 04 Oct 1996 20:19:01 EDT
To: aprssig@tapr.org
Message-ID: <19961006.061509.4647.0.WD4CQE@juno.com>
Rendered body type: text/plain

Please send a copy .
Ken Mathews, WD4CQE
Route 8 Box 305
Crossville, Tennessee 38555

Thanks & 73's
Ken

119. BBS download?

From: Larry Griffin <largriff@swta.com>
Date: Fri, 4 Oct 1996 21:54:24 -0500
To: "'APRS SIG'" <aprssig@tapr.org>
Message-ID: <01BBB23E.9D7493C0@lub08.onramp.net>
Rendered body type: text/plain

```
Is there a BBS (not on the 'net) where one can download APRS?
```

---

120. Re: [APRSSIG:5388] BBS download?

From: ku0g@sprynet.com
Date: Fri, 4 Oct 1996 20:57:25 -0700
To: aprssig@tapr.org
Message-ID: <199610050357.UAA26279@m1.sprynet.com>
Rendered body type: text/plain

```
ARN BBS (Maryland) is the main site that APR Bob usually posts to first.  The
phone number is in the DOWNLOAD.TXT file in the README subdirectory....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

121. Garmin45 problem

From: Richard Ball <72155.1222@CompuServe.COM>
Date: 05 Oct 96 02:00:11 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <961005060011_72155.1222_EHB34-3@CompuServe.COM>
Rendered body type: text/plain

```
I have a Garmin45 in my car hooked to the car 12v.  Do you run it with or
without the batteries.
  But the problem I had today was that it stopped working.  By that I mean I
left it running while I went to lunch.  When I got back (about 1 1/2 hrs, GOOD
lunch) it was flashing 'poor gps coverage' and all the signal strength
indicators were gone.  I turned it off and back on and got 8 bars right away.  I
was in a parking lot away from any buildings and had a good view of the sky.
  I have thought this has happened before when I have been driving for a couple
of hours.  I thought i DID lose coverage.  Now I am not so sure.
   Do I have a bad 45?

Thanks for any info.
Richard  N7Rig
```

---

122. Re: [APRSSIG:5390] Garmin45 problem

From: ku0g@sprynet.com
Date: Sat, 5 Oct 1996 02:37:44 -0700
To: aprssig@tapr.org
Message-ID: <199610050937.CAA07606@m1.sprynet.com>
Rendered body type: text/plain

```
Probably not....I've had the same problem with mine.  Sometimes when you lose
signal the receiver gets "stupified" and shuts itself down...That's annoying but
I think it's probably a normal condition....

Best 73,
Jim Duncan, KU0G
APRS--Kansas City Coordinator
EMail:  ku0g@sprynet.com
```

---

123. DOWNLOAD BBS'S FOR APRS

From: Larry Griffin <largriff@swta.com>
Date: Sat, 5 Oct 1996 05:23:34 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBB27D.5B6AC280@red142.onramp.net>
Rendered body type: text/plain

```
DOWNLOAD.txt  7.7       DOWNLOAD BBS'S FOR APRS


   ARIZONA               602 938-7528  N7QVU FIDO FREQ APRS@1:109/239
                         770 778-9198  Phoenix
                         520 778-9198  WC7R
   Alabama               205 444-9638  Birmingham
   CALIF, Daly City      415 359-6985  KA6EYH
          Walnut Ck      510 827-5714
          Walnut Ck      510 370-0459
```

Sacramento	916 323-4826	CARES
Visalia	209 625 0618	N6QOV
Calif,south	818 799-1632	
Georgia ATLANTA	770 437-1555	N4NBL, Phil West [Radio Active]
Maryland, Annapolis	410 280-2503	KE6ET
Missouri, KCity	816 628-5776	W5GZT
Michigan	810 363-9216	WD8ARZ
OHIO. Columbus	614 443-4249	
Oregon, Gaston	503 359-5111	N7PWF
S.CAROLINA	864-299-6185	W4VIW's FIDO 1:3639/68
Texas, Dallas	214 492-7057	Dallas Remote Imaging Group
TORONTO	905 792-7890	FIDO NET 161/911
VIRGINIA, Vienna	703 207-9622	N4ULS

INTERNET @tapr.org in the tapr/SIG/aprssig/files/upload directory
WEB PAGEs http://web.usna.navy,mil/~bruninga/aprs.html
http://www.ccnet.com/~rwilkins/aprs.html (California)
http://www.mindspring.com/~rwf/aprs.html (Atlanta)
http://www-ns.rutgers.edu/~ksproul/MacAPRS.html (MAC)
http://overworld.compuserve.com/homepages/APRS_KC
http://www.sprynet.com/sprynet/ku0g

FOR MacAPRS contact WU2Z, Keith Sproul, New Brunswick, NJ
Work Phone: 908 445-3695 Home phone: 908 821-4828
internet ksproul@noc.rutgers.edu

FOR WinAPRS contact KB2ICI, Mark Sproul,

FOR APRS: Bob Bruninga, WB4APR, 115 Old Farm Ct,
Glen Burnie, MD 21060

LIVE APRS web site at http://web.usna.navy,mil/~bruninga/aprs.html

---

124. Re: [APRSSIG:5390] Garmin45 problem

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 5 Oct 1996 08:17:31 -0400
To: aprssig@tapr.org
Message-ID: <199610051217.HAA20229@tapr.org>
Rendered body type: text/plain

On 5 Oct 96 at 1:24, Richard Ball wrote:

> I have a Garmin45 in my car hooked to the car 12v. Do you run it
> with or without the batteries.
> But the problem I had today was that it stopped working. By that
> I mean I
> left it running while I went to lunch. When I got back (about 1 1/2
> hrs, GOOD lunch) it was flashing 'poor gps coverage' and all the
> signal strength indicators were gone. I turned it off and back on
> and got 8 bars right away. I was in a parking lot away from any
> buildings and had a good view of the sky.
> I have thought this has happened before when I have been driving
> for a couple
> of hours. I thought i DID lose coverage. Now I am not so sure.
> Do I have a bad 45?
>
> Thanks for any info.
> Richard N7Rig

I am not clear on if you are running with or without Batterys.

In my experience, the lousy thing needs the Batterys IN and GOOD!
Even if you are running on external power.

Sam

---

125. Re: [APRSSIG:5389] Re: BBS download?

From: n2czf@magg.net (Richard Garcia)
Date: Fri, 04 Oct 1996 12:45:54 -0400
To: aprssig@tapr.org
Message-ID: <199610051245.IAA05958@grumpy.magg.net>
Rendered body type: text/plain

Is that BBS still getting current updates ? I checked in not too long ago
and the current version of APRS was far from current. I quite often would
chose a LL BBS over a TAPR DL if I am short of time if we knew for sure that

they BBS would be updated regularly.

>ARN BBS (Maryland) is the main site that APR Bob usually posts to first. The
>phone number is in the DOWNLOAD.TXT file in the README subdirectory....
>
>Best 73,
>Jim Duncan, KU0G
>APRS--Kansas City Coordinator
>EMail: ku0g@sprynet.com
>
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net   (E-Mail)
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html   (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human Rights Group)

126. Pico Packet - questions...

From: Daniel Velez <dvelez@infi.net>
Date: Sat, 05 Oct 1996 09:32:27 -0400
To: aprssig@tapr.org
Message-ID: <3256636B.79B2@infi.net>
Rendered body type: text/plain

Pico experts! My PICO w/2nd serial port arrived Thursday and I'm having a little trouble:

1. As I opened the box, I heard a little clink-a-clink inside the Pico's enclosure. I opened it up and the ROM dropped out into my hand! This was an easy fix after a quick call to PacComm confirmed I would do no harm separating the two circuit boards. It left me with an uneasy feeling, though.

2. It appears deaf to incoming packets...no DCD light and no packets being passed to the PC. I'm going to do as the manual says and verify the cable...I may also try and wire a second cable to my HT to see if it's a radio-tnc cable problem. It's too bad they eliminated the loopback feature in the Pico - this would have been helpful. I was hoping to use this feature to check the modem receive bias adjustment after verifying the cable. I'm not too hopeful, though, because of #2 below.

3. It also does not see (and doesn't pass to the terminal with ELO) incoming $GPRMC stings from the Motorla Oncore. I get the "Waiting for GPS data" message at the rate specified by LOCATION (the ONCORE is set up for RMC every second).

4. When I do resolve these problems, I need a little clarification. To use with APRS on the primary serial port and the MOTOROLA on the second, does the TNC forward the GPS data as set by LOC or as asked for by APRS with the LGE $05?   I think I do the following:

```
    LGE $05         (Does this mean I use HSP vice SPM???????
    LOC E 0         (Or do I need to set it to 3 for 30 second reports?
                     I think this is for standalone mode)
    GPSTE $GPRMC     (Easy enough)
    ELO OFF          (I had turned it on to check the GPS data)
    GPS OFF          (ON for standalone with one serial port?)
```

 I assume APRS sets the LPATH AND the UNPROTO...

Any suggestions or comments appreciated! I'm going to work on it today before I mail it back on Monday...

73 de Dan
--
Dan

```
     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

127. Mapngo

From: dlm@nr.infi.net (Dan McMillin)
Date: Sat, 5 Oct 1996 10:00:45 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <199610051400.KAA31372@mh004.infi.net>
Rendered body type: text/plain

```
The Mapngo CD-Rom box say that it accepts GPS input. Anyone have any
experience with Mapngo? Please reply direct dlm@nr.infi.net.
Thanks
```

128. Re: [APRSSIG:5388] BBS download?

From: Doug Wittich <dwittich@concentric.net>
Date: Sat, 05 Oct 1996 10:54:48 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961005145448.0067efd0@pop3.concentric.net>
Rendered body type: text/plain

```
At 10:01 PM 10/4/96 -0500, you wrote:
>Is there a BBS (not on the 'net) where one can download APRS?


410-252-6238, the W3FT bbs, 14400 bps.

410-256-0170, the Wit-Tech BBS, 33+kbps.

Free downloads available on first call on both.   Leave a note to sysop at
signoff that you read about it here :-)
```

129. Re: [APRSSIG:5388] BBS download?

From: "John R. Moore" <w5huq@pobox.com>
Date: Sat, 05 Oct 1996 11:01:15 -0400
To: aprssig@tapr.org
Message-ID: <3256783B.4690@pobox.com>
Rendered body type: text/plain

```
Yes try Ham Haven BBS at 904-269-6249 in the download section
subdirectory 24 25 and 26
John W5HUQ
--
ARRL 1997 National Convention Information
http://www.pobox.com/~w5huq/hamfests.html

Orange Park Amateur Radio Club Information
http://www.pobox.com/~w5huq
```

130. serial data aquisition

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sat, 5 Oct 1996 09:04:26 -0800
To: aprssig@tapr.org
Message-ID: <199610051604.JAA14249@franc.ucdavis.edu>
Rendered body type: text/plain

```
Hi all,
    Below is a letter I sent to the Sprouls. Kinda wonder what the rest of
you might think.

Gentlmen,
    Would you consider including support for a serial data aquisition
device in Mac APRS and I suppose Win APRS (I'm a Mac user by preference).
The idea is to have a universal interface for analog signals from any type
of instrument instead of only certain commercial weather stations. This
would allow Hams to develop their own weather stations, seismometers,
radiation monitors etc. I proposed such a device and associated software
support in the sig and one of the guys pointed out the existence of data
aquisition boards/boxes with RS232 interface that are available from
various manufacturers. I suppose it would be a good idea to evaluate the
various available products and choose one that is suitable, economical and
stable in terms of future availability.
    This would open up one of the nicest features of APRS to an unlimited
range of uses. Many of us are experienced enough in analog electronics to
experiment with the necessary instruments, and what is developed could be
published on the sig and elsewhere for others to duplicate.

Regards John Lakeland kc6vlr
```

131. Re: [APRSSIG:5395] Pico Packet - questions...

From: jm1@webspan.net (Jay Millard)
Date: Sat, 5 Oct 1996 12:38:15 +0000
To: aprssig@tapr.org
Message-ID: <v01510100ae7c04367ea6@[38.10.232.149]>

Rendered body type: text/plain

Dan Velez asked of the SIG:

>Pico experts! My PICO w/2nd serial port arrived Thursday and I'm having
>a little trouble:

<little snip>

I hope to get mine back from Paccomm via overnight on Tuesday, they have
had it back in their shop for a week and as of Friday it was "cooking"
according to Linda there. Had only used it for a week when it headed
South, with me still here.

My TNC's problems had to do with its inability to initialize properly.
However, in my search for info from others in this area using one, I found
that it might be important to NOT run it near the top of its voltage range,
i.e. 13.5 volts, because it MIGHT act erratic. I spoke with two hams who
are running it at 7.5 volts.

>2. It appears deaf to incoming packets...no DCD light and no packets
>being passed to the PC. I'm going to do as the manual says and verify
>the cable...I may also try and wire a second cable to my HT to see if
>it's a radio-tnc cable problem. It's too bad they eliminated the
>loopback feature in the Pico - this would have been helpful. I was
>hoping to use this feature to check the modem receive bias adjustment
>after verifying the cable. I'm not too hopeful, though, because of #2
>below.

The manual notes that if it appears to be dead, use the backslash command.
And I trust that you meant #3 below.
>
>3. It also does not see (and doesn't pass to the terminal with ELO)
>incoming $GPRMC stings from the Motorla Oncore. I get the "Waiting for
>GPS data" message at the rate specified by LOCATION (the ONCORE is set
>up for RMC every second).

The way that I understand it, and I was running it for a short time, before
it stopped working, with MacAPRS 2.6.0 is that you specify in the APRS
software which string LTEXT the TNC is looking for from the GPS be it GGA
or RMC. The TNC upon seeing that string will load it into the text buffer,
and according to the interval setting, dump that buffer's contents out to
be transmitted.
>
>4. When I do resolve these problems, I need a little clarification. To
>use with APRS on the primary serial port and the MOTOROLA on the second,
>does the TNC forward the GPS data as set by LOC or as asked for by APRS
>with the LGE $05?   I think I do the following:
>
```
>    LGE $05         (Does this mean I use HSP vice SPM???????
>    LOC E 0         (Or do I need to set it to 3 for 30 second reports?
>                     I think this is for standalone mode)
>    GPSTE $GPRMC     (Easy enough)
>    ELO OFF          (I had turned it on to check the GPS data)
>    GPS OFF          (ON for standalone with one serial port?)
```
>
> I assume APRS sets the LPATH AND the UNPROTO...
>
>Any suggestions or comments appreciated! I'm going to work on it today
>before I mail it back on Monday...

Perhaps this will help, I of course, am still learning myself and yield
willingly to others with more experience who can only help me with their
replies as well!
Good luck.

Jay Millard
Harmill Communications Inc.
** Amateur Radio Station KD1LY **
Darien, Connecticut 06820

132. Re: BBS download?

From: wa4mej@juno.com (john w dent)
Date: Sat, 5 Oct 1996 12:28:52 PST
To: aprssig@tapr.org
Message-ID: <19961005.143441.4607.1.wa4mej@juno.com>
Rendered body type: text/plain

hi john
tks for that info is just what i was looking for ..

you look good on APRS vhf..

73
john
wa4mej/ hilliard,fl

---

133. HF digis

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 5 Oct 96 14:43:14 -0400
To: <aprssig@tapr.org>
Message-ID: <199610051838.OAA01861@bridge.net>
Rendered body type: text/plain

Hello to all...

I'm back in Miami after a long and enjoyable trip. I will write up a bunch of observations on APRS as I get time, but there is one which I want to start with now, the subject of HF digis.

As I understand it, the original plan of Bob's (Bob...correct me if I'm wrong) was to have all HF stations respond to the alias of ECHO, just as all VHF stations should repond to RELAY. There seems to be quite a few stations lately using GATE, RELAY or WIDE as HF aliases. As people have done this, others are setting their paths to RELAY or WIDE to take advantage of these HF digis. Is there a reason for this that I missed?

For most of my trip, I ran a path of ECHO,GATE,WIDE. Normally this would have created a lot of QRM, but with the decline of the use of ECHO, it seemed to work reasonably well. Several times during the trip I tried to figure out who was hearing me direct so I could put specific calls in my HF path, but I was never able to get good responses. There are a couple of points I'd like to propose for discussion.

1. Should base stations be discouraged from using generic paths on HF? I think so...it is fine to use a single, specific call as a digi, but there is plenty of time when you are "driving" a desk to figure out where propagation is good, and set your path accordingly.

2. Should HF mobiles be allowed to use generic aliases? Again, I think so. I had enough to worry about without trying to change my HF path 3 or 4 times a day to follow propagation. Using ECHO did not seem to cause QRM that I heard...when it sounded like someone was echoing my signal, I was almost always able to decode it, and only rarely was there more than a single echo of my packet. (Anyone have different observations? However, if everyone had been set up as ECHO, the QRM would have been excessive, so:

3. Should there be an HF digi system analogous to the WIDE system of VHF? In my travels, I found a few stations with consistantly good signals around the country (e.g. W7LUS, N0AN, N2CZF, WB6LPG). I think a handful of carefully picked stations, with an alias of, say HFWIDE, might be a good way to digi mobile signals without excessive QRM.

4. Should everyone be using a single alias (i.e. ECHO) and drop the use of WIDE, GATE, and RELAY? I think so...am I missing something?

Finally, to anyone planning a cross country trip: if there is any way, take HF. Probably less than 5% of my trip included VHF coverage, I would have had a disappointing time if I was not on HF. The HF gate in Atlanta went down before I got to Seattle, but until that point the use of javAPRS and WA4DSY's server worked well, my YL and mother loved watching me travel. My mother wanted to know why I didn't write javAPRS when I was 16 and she really needed it!

---

134. W4PVI@W4PVI

From: wn7c@juno.com (Larry Shotwell)
Date: Sat, 05 Oct 1996 14:47:27 EDT
To: aprssig@tapr.org
Message-ID: <19961005.145532.11414.1.wn7c@juno.com>
Rendered body type: text/plain

The following message originated on the amateur radio packet bbs system and has been translated to internet mail by the WN7C gateway. You may use the reply command to reply to this message and your reply will be resent on the packet radio system. The title of the message must contain the packet radio address. The message must be addressed to wn7c@juno.com. For more info see my WWW page at
http://www.bright.net/~pony/
****

  From packet: W4PVI@W4PVI
  To Internet: aprssig@tapr.org

Wanted to know if I could reach you at this address. Do you have another one.

I left message at W3ADO where to send the stuff, but I forgot what address I gave you. If it hasn't already been sent, then use this address.

Gene Beaver

co/ David Yarbrough

4114 Linden Rd.

Durham, N.C. 27705

If it has been sent, don't worry, I'll get it. Just tell me where it went.

I think I actually learned a couple of things when you were here, but a lot of it slipped by. Like I can't get the TNC to come up using the key stokes you used, so I missed something. The baud rate between comp and tnc is the problem with this AEA232. I'm looking seriously at a KAM+ so I can GATE.

Cheers, Gene

---

135. Re: [APRSSIG:5399] serial data aquisition

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 5 Oct 1996 17:47:38 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961005173430.28746D-100000@arctic>
Rendered body type: text/plain

On Sat, 5 Oct 1996, John Lakeland wrote:

>   Would you consider including support for a serial data aquisition
> device in Mac APRS and I suppose Win APRS (I'm a Mac user by preference).
> The idea is to have a universal interface for analog signals from any type
> of instrument instead of only certain commercial weather stations. This
> would allow Hams to develop their own weather stations, seismometers,
> radiation monitors etc.

APRSdos REPLY/COMMENT: Its all done already. Its called the APRS MIM module. It is a complete data aquisition on a chip which takes 5 chaannels of analog signals and 8 bits of digital data and sends periodic APRS telemetry packets at any rate from 1 second to 9 hours. It costs $89 plus $5 S&H. See TELEMTRY.TXT. By being a stand alone system, you dont havce to tie up a PC. a MAC or anything...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

136. Re: [APRSSIG:5400] Re: Pico Packet - questions...

From: foga@foothill.net (DAN FOGARD)
Date: Sat, 5 Oct 1996 19:43:46 -0700
To: aprssig@tapr.org
Message-ID: <199610060243.TAA26509@ns1.foothill.net>
Rendered body type: text/plain

>Dan Velez asked of the SIG:
>
>>Pico experts! My PICO w/2nd serial port arrived Thursday and I'm having
>>a little trouble:
>
><little snip>
>
>I hope to get mine back from Paccomm via overnight on Tuesday, they have
>had it back in their shop for a week and as of Friday it was "cooking"
>according to Linda there. Had only used it for a week when it headed
>South, with me still here.
>
>My TNC's problems had to do with its inability to initialize properly.
>However, in my search for info from others in this area using one, I found
>that it might be important to NOT run it near the top of its voltage range,
>i.e. 13.5 volts, because it MIGHT act erratic. I spoke with two hams who

>are running it at 7.5 volts.
>
SNIP

I run mine at 10.5 v with no trouble ....I have never trusted the manual
that says it is good to 13.5...........I also back it off to take care of
any v spikes that might occur on/off of the power supply. I also used a
battery supply that I made up from AA cells and it starts at 10.5 v and runs
down to about 6.0 v over three days running and then things start to fall apart.

Dan
W6PRL GRASS VALLEY CA.

---

137. Re: [APRSSIG:5170] Re: X-1J4 (NODE) Question

From: moyers@vic.com
Date: Sat, 5 Oct 1996 23:39:09 EDT
Message-ID: <199610060335.XAA20990@gatekeeper.vic.com>
Rendered body type: text/plain

** Reply to note from aprssig@tapr.org Fri, 27 Sep 1996 10:42:46 -0500 (CDT)
>
> On Thu, 26 Sep 1996 mark.endicott@nashville.com wrote:
>
> > Nashville has a little problem that we need some help with. > couple more in the area. The
> problem is that the digi's > that are running X-1J4 firmware turn to "gray" after few > hours. I
> use the term "gray" loosely, the star becomes a
>
> APRSdos REPLY/COMMENT: Send me a copy of the *raw* packet being beacond by that digi. If the
> installer has placed a DATE/TIME in the packet then he is doing it worng. The packetmust begin with
> !LAT/LONG... There is *no* date-time field in a digipeater posit report.
>
> Reply mail addr: wb4apr@amsat.org See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
Bob this has been a problem with APRS and TheNet from the beginning. In fact you used to mention it
in the docs about digi's and using TheNet. The problem is coming from the Node's always sticking
TheNet:callsign as the first thing in a beacon. Since this is hardcoded into the firmware YOU had to
change aprs to look !LAT/LONG at any point in the string instead of as the first thing in the string.
Remember???? The turning to Gray of THENET NODES has ALWAYS been a problem. I asked for a fix for
this many years ago, and now we are rehashing the problem. Yes it would be easy for no one to use
TheNet. But, I for one like the remote control capabilities and multi aliases that X1J provides.
Yes, I could go out and BUY new Kantronics tnc's with some of these capabilities and would even be
able to beacon the node farther than one wide away. But Why go spend money on new tnc's when the
one's I have are TAPR clones and X1J is freeware?   The easiest to do is to tolerate the fade to
gray or for one station close the node to hook it and uplink the digi to the rest of the network.
Hooking and uplinking solves of the problems with X1J, first it gets seen farther that one wide hop
away and it stays green.

73 de John N4QEA

John Moyers   N4QEA
PACKET - N4QEA @ N4QEA.#METN.TN.USA.NA
INET - moyers@vic.com
Cruise Missile - 36 02.86N 083 55.40W A=0001100

---

138. Re: [APRSSIG:5395] Pico Packet - questions...

From: aprs@juno.com (ap rs)
Date: Sun, 06 Oct 1996 00:17:32 EDT
To: aprssig@tapr.org
Message-ID: <19961005.204558.9118.1.aprs@juno.com>
Rendered body type: text/plain

On Sat, 5 Oct 1996 08:48:33 -0500 (CDT) Daniel Velez <dvelez@infi.net>
writes:
>
>does the TNC forward the GPS data as set by LOC or as asked for by
>APRS
>with the LGE $05?

Both, depending on how long it has been since an HSP toggle was done.

> I think I do the following:
>
>   LGE $05   (Does this mean I use HSP vice SPM???????

Yes. you can check it by going to O C T terminal mode and entering CTL
E. You should see a posit on the terminal each time.

```
>    LOC E 0         (Or do I need to set it to 3 for 30 second
>reports?

I set mine to 40

This sets it to report every 40  time intervals (can't remember if the
intervals are 10 seconds each, I think they are).  It is used only the
TNC isn't seeing an GPS posit request (LGE) at least once during that
interval.  LOC is refreshed each time the APRS program requests the GPS
posit.

Good Luck

Ralph


>                      I think this is for standalone mode)
>    GPSTE $GPRMC     (Easy enough)
>    ELO OFF          (I had turned it on to check the GPS data)
>    GPS OFF          (ON for standalone with one serial port?)
>
> I assume APRS sets the LPATH AND the UNPROTO...
>

Mine runs fine straight off the van's electrical system, no special
voltage dropping is done.
```

139. PICO

From: scott miller <scottm@telis.org>
Date: Sat, 05 Oct 1996 22:48:26 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <3257482B.3BC@telis.org>
Rendered body type: text/plain

```
concerning the PICO set LOC 3, for 30 sec. you must also set
"LPATH aprs v wide,wide" or whatever path u want but don't
forget the "aprs v". Also I have to OCT to command mode and check
LOC if it has reverted to 0 then LPATH has to be reset also
hope this is some help 73 Scott Miller KE6RKE in Tahoe City,Ca.
```

140. zulu time problem

From: kf4dys@juno.com (Joe Foor)
Date: Sun, 6 Oct 1996 06:18:22 PST
To: aprssig@tapr.org
Message-ID: <19961006.061825.7703.0.kf4dys@juno.com>
Rendered body type: text/plain

```
Hi Bob;

It appears the dead reckoning of 77b is way off.

Tracking tropical disturbance 10, with an inputed
position of 2448.00, 09424.00 and cse/spd of 100/006 at
060300z, the position 7 hours later was only dead
reckoned for 13 miles movement instead of 42.

Oops... Just checked again, to make sure it is still
messing up an hour after the 060900z update. Aprs did not
appear to be dead reckoning any movement at all. Checked
the data line and found the time has gone in as 060900Z.
Re-entered the data and it happened again. Tried
repeatedly for 15 minutes, even deleting the storm so I
could start out with a blank line and restarting the
software several times. Every time I entered the lower
case z for zulu time, APRS converted it to upper case.

I used the (M)ap, (P)lot, (R)ange function, to eyeball
the correct current storm position. Then re-entered the
data with the time as "now" and thirty minutes later, the
deadreckoning is looking fine.

regards,
Joe
```

141. Re: [APRSSIG:5390] Garmin45 problem

From: schiers@ames.net
Date: Sat, 05 Oct 96 17:46:42 -0500
To: aprssig@tapr.org
Message-ID: <199610061333.IAA07116@tapr.org>
Rendered body type: text/plain

In <824657@bbs.ames.net>, on 10/05/96 at 01:26 AM,
aprssig@tapr.org said:

> I
>left it running while I went to lunch. When I got back (about 1 1/2 hrs,
>GOOD lunch) it was flashing 'poor gps coverage' and all the signal
>strength indicators were gone. I turned it off and back on and got 8
>bars right away. I was in a parking lot away from any buildings and had
>a good view of the sky.

I don't know of anyone who hasn't had this problem at one time or another. Sometimes it is associated with a short loss of coverage and the Garmin being unable to get into its recovery loop. At other times, I don't really see any reason for the loss of coverage and it appears to just go stupid. Turning it off and on gets it going again. Sometimes simply paging through the menus from the signal bars > settings page > signal bars brings it right back. It is a strange "bug" in my opinion, but not one that happens enough to complain about. IOW, your unit is working normally. 73,

```
hasan schiers, N0AN
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

142. replies via gates

From: ko6xs@ko6xs.ampr.org
Date: Sun, 06 Oct 96 08:35:58 PDT
To: aprssig@tapr.org
Message-ID: <1414@ko6xs.ampr.org>
Rendered body type: text/plain

I having a great time watching people all across the country doing APRS, but ave one frustration. I'm running WINAPRS and my path is set to WIDE, GATE,WIDE to reachfrom Malibu to one of two gateways in San Diego. But I never get any acknowlegements back from my messages. Even if those DX stations are unmanned, should I at least get a ACK back?? What am I doing wrong? I tried to match the DX's path by using GATE, WIDE instead, but no luck.
Also, how can I tel which of the two San Diego gates is relaying a particular DX transmission?? And is that information even important to know?
Thanks in advance for any help you can give.

73s de Jon

```
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
         □ □□□  TNX     73...de...ko6xs, John       □□□ □
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ko6xs@wb6ymh.#soca.ca.usa     □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

143. Re: [APRSSIG:5408] PICO

From: aprs@juno.com (ap rs)
Date: Sun, 06 Oct 1996 11:49:39 EDT
To: aprssig@tapr.org
Message-ID: <19961006.081812.6766.1.aprs@juno.com>
Rendered body type: text/plain

Scott - I think that setting LOC to 3 will really cause a lot of saturation on a busy local net! Whenever APRS is not running, or the serial cable is unplugged, you'll be beaconing every 30 seconds. This is pretty often, especially on a WIDE, WIDE path!

LOC only comes into play when the TNC doesn't see a posit request from the HSP toggle in APRS every LOC duration. Then it turns into a tracker, beaconing every LOC interval, thru the LPATH route.

In our area, we try to encourage unattended trackers to beacon no more often than every 4 minutes or so, and even that is too often many times.

```
Ralph.

Juno address is only used for posting via 800 number when I am on the
road.
Pls direct personal responses to rwf@mindspring.com,  which is forwarded
to the Juno account.
```

144. Re: [APRSSIG:5287] APRS HF Dedicated Xcvr: FCC Part 15

From: rsellers@firecraker.com (Roger Sellers)
Date: Sun, 6 Oct 1996 12:26:31 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199610061726.MAA13359@tapr.org>
Rendered body type: text/plain

```
>
>I'd still like to know how many APRS'ers would want to spend the $199 for a
>single channel, single band, low power, FSK only, HF data radio.
>
>73
>
>John...
>WB4LNM
>
>
>
   I'd most likely be interested.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

145. Re: [APRSSIG:5407] Re: Pico Packet - questions...

From: foga@foothill.net (DAN FOGARD)
Date: Sun, 6 Oct 1996 10:59:50 -0700
To: aprssig@tapr.org
Message-ID: <199610061759.KAA20249@ns1.foothill.net>
Rendered body type: text/plain

```
>
>On Sat, 5 Oct 1996 08:48:33 -0500 (CDT) Daniel Velez <dvelez@infi.net>
>writes:
>>snip
>>

>


>
>Mine runs fine straight off the van's electrical system, no special
>voltage dropping is done.
>
>RALPH DO YOU TAKE ANY PRECAUTIONS WHEN STARTING THE VAN TO    ELIMINATE SPIKES?

DAN W6PRL
>
```

146. Re: [APRSSIG:5412] Re: PICO

From: Daniel Velez <dvelez@infi.net>
Date: Sun, 06 Oct 1996 13:48:28 -0400
To: aprssig@tapr.org
Message-ID: <3257F0EC.E84@infi.net>
Rendered body type: text/plain

```
Ralph (ap rs) wrote:
>
> Scott -  I think that setting LOC to 3 will really cause a lot of
> saturation on a busy local net!  Whenever APRS is not running, or the

Ralph, you're right, but here in Norfolk there are only four of us and
we've yet to install a WIDE :)  I was using the number as an example.

BTW, boxed up the Pico to send it back...hopefully there will be a quick
turnaround so I can get back on the air.

Could one of the Pico users (or maybe Bob) clarify:
```

```
-Does the GPS forward posit data at the rate set by LOC or by APRS'
POSRATE or _both_?  Someone mentioned "both" but I wanted to be sure.
-Operation is in HSP mode, right?
-Does HSP force a transmission as well as get the current posit with the
LGET $05 (F8)?
-Is APRS issuing the LGET to get the data at the POSRATE rate?
-Does APRS set up the LPATH _and_ UNPROTO???

As you can see, I'm trying to figure out the sequence of events to
determine how and how often APRS gets posit data from the Pico.  Then
I'm trying to understand when APRS transmits (does it transmit old or
new data?).

Dan

     Daniel Velez | Aoooga!       Aoooga!
  dvelez@infi.net |
  N4WZR@WD4MIZ.VA | Dive!   Dive!   Dive!
```

---

147. Re: [APRSSIG:5413] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: kb6lfm@ix.netcom.com
Date: Sun, 06 Oct 1996 12:56:16 -0700
To: aprssig@tapr.org
Message-ID: <32580EE0.13C8@ix.netcom.com>
Rendered body type: text/plain

```
Roger Sellers wrote:
>
> >
> >I'd still like to know how many APRS'ers would want to spend the $199 for a
> >single channel, single band, low power, FSK only, HF data radio.
> >
> >73
> >
> >John...
> >WB4LNM
> >
> >
> >
>    I'd most likely be interested.
>
> 73,
> Roger Sellers
> Amateur Radio: KB9LBU
> E-Mail Home: rsellers@rockford.com
>              kb9lbu@juno.com
> E-Mail Work: rsellers@snds.com


Only 1 question John. How low in power?

If the units put out 50W (PEP) I'll take 2 please!

Bill  kb6lfm@ix.netcom.com
```

---

148. aprssig

From: kj5hx@juno.com
Date: Sun, 6 Oct 1996 15:06:47 CST
To: aprssig@tapr.org
Message-ID: <19961006.150038.4831.1.kj5hx@juno.com>
Rendered body type: text/plain

```
Hope I am sending this to the right place. Don't have Internet.

Could someone tell me what BBS to download the latest APRS program,I am
trying to get set up again after the big puter crash.
Thanks for any Info and suggestions any other Hints would be nice too.
Ed
```

---

149. Re: [APRSSIG:5415] Re: PICO

From: "Eric L. Martin" <elmartin@iamerica.net>
Date: Sun, 06 Oct 1996 15:35:51 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961006213551.0067ce70@mailhost.iamerica.net>
Rendered body type: text/plain

```
At 01:07 PM 10/6/96 -0500, you wrote:
> Could one of the Pico users (or maybe Bob) clarify:
```

```
>
>-Does the GPS forward posit data at the rate set by LOC or by APRS'
>-POSRATE or _both_?  Someone mentioned "both" but I wanted to be sure.

Yes and no.  If ELOC is ON, then the Pico will dump the current LTEXT buffer
to the RS-232-1
port at the rate determined by the LOC command.  If ELOC is OFF, then the
Pico will send a packet with the LTEXT buffer using the path in LPATH.
However, if Aprs requests for the latest fix using the character defined in
the LGEtchar command, then the pico will dump the LTEXT buffer to the
RS-232-1 port and reset the LOC timer regardless of the ELOC command.  So,
if your Pico is set to send its own beacons every 5 minutes and Aprs
retrieves a Gps fix every 4
minutes, then only Aprs will send gps beacons every 4 minutes while Aprs is
on.  When Aprs is turned off, the Pico will send Gps beacons every 5
minutes.  You can set the position report rates to whatever you choose, but
the LOC command must be longer than the time between Aprs retrieving Gps
fixes in order for it to work as described.

>-Operation is in HSP mode, right?

I'm not sure, as I don't fully understand how HSP works.  Maybe your answer
is above.  If someone could point me where to look for info on HSP, I would
be grateful.

>-Does HSP force a transmission as well as get the current posit with the
>LGET $05 (F8)?

When the Pico receives the character in LGETchar, it will send the LTEXT
buffer to Aprs on the RS-232-1 port, but the Pico won't send a packet by itself.

>-Is APRS issuing the LGET to get the data at the POSRATE rate?

I don't use DosAprs, so I'm not totally sure, but that sounds right to me.

>-Does APRS set up the LPATH _and_ UNPROTO???

DosAprs will set your UNPROTO, but I don't think it will set the LPATH.
Also, LPATH is only used when the Pico sends a Gps packet.  Your Aprs Gps
packets will go to the UNPROTO path.

>As you can see, I'm trying to figure out the sequence of events to
>determine how and how often APRS gets posit data from the Pico.  Then
>I'm trying to understand when APRS transmits (does it transmit old or
>new data?).

Well, I hope this answers your questions.  If you have further questions,
feel free to send email direct to me or the SIG, and I'll try to answer them.

--
Eric L. Martin (KC5ENU)
elmartin@iamerica.net
```

---

150. Re: [APRSSIG:5416] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: sams@jetlink.net (sam stanifer)
Date: Sun, 6 Oct 1996 14:43:50 +0800
To: aprssig@tapr.org
Message-ID: <v01530501ae7d0450108c@[206.72.64.122]>
Rendered body type: text/plain

```
>Roger Sellers wrote:
>>
>> >
>> >I'd still like to know how many APRS'ers would want to spend the $199 for a
>> >single channel, single band, low power, FSK only, HF data radio.
>> >
>> >73
>> >
>> >John...
>> >WB4LNM

or perhaps xmit/rcve converters, 11meters to 30 meters (ssb cb xceivers) or
10 meters to 30 meters (all the 10 meter ssb xceivers left over from the
last sunspot cycle).  Same could work for 2M data radios?
73
Sam
KJ6BU
```

151. Re: [APRSSIG:5314] More on W3IWI-13 DGPS Beacon

From: Tom Clarke <fclarke@erols.com>
Date: Wed, 18 Sep 1996 15:37:30 -0700
To: aprssig@tapr.org
Message-ID: <324079AA.53D@erols.com>
Rendered body type: text/plain

Tom Clark -- W3IWI wrote:
>
> I have received several signal reports that the beacon is being heard
> for a few miles. Obviously coverage is limited by the lack of a good
> area digipeater on 145.79!
>
> Bob, N3OZB says that the beacon signals work well at improving the
> performance he gets with his Motorola TRAXAR+ (providing, of course, that
> he can hear them!).
>
> Has anyone else besides Bob & me had any luck in using the W3IWI-13 DGPS
> corrections?
>
> Has anyone got a suggestion on how to improve the coverage, especially
> into Chesapeake Bay? (Like for WB4APR: if the old APR-1 site on the tall
> tower isn't available, howz about a VHF port on your stuff in the USNA
> lab building?)
>
> 73, TomIt is getting down here to Pax River well and even getting through the
W3PQT-1 wide inspite of missing most of the antenna thanks to Fran.
There is about a 6 inch stub left, which shows you what a 150 tower will
do for you! 73 W4OKW (the other Tom Clark(e)!

---

152. Re: APRS on Tapr

From: William Nolle <wa8inz@concentric.net>
Date: Sun, 06 Oct 1996 17:31:29 -0700
To: aprssig@tapr.org
Message-ID: <32584F61.7E3D@concentric.net>
Rendered body type: text/plain

I received this message from a potential APRS user that attempted to download
the latest version of APRS, but instead managed to erase or corrupt the
version that was there. Read the message below and it will tell you how it
got that way. I have since uploaded a new APRS77b.ZIP file but wanted to let
everyone know that the date on the file will be of course todays date, but in
any case everything is fixed now. I have deleted his name and callsign from
his message.

> Robby wrote:
>
> Hi! I was trying to download APRS from the FTP site
> (ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload/) and think I did
> something wrong. I was downloading the file and it got interupted so when
> I started it again, it sent the 300K partial file to the FTP site instead
> of sending the rest of the complete file. I must have confused the RECV
> and SEND commands on FTP (I don't use FTP often), but if you could help me
> find another copy of APRS77B.ZIP, I'll FTP it to that site so someone
> doesn't download my partial file.
>
> Thanks!
>
> Huntsville, Alabama

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

153. Re: [APRSSIG:5416] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: Tom Clarke <fclarke@erols.com>
Date: Wed, 18 Sep 1996 16:23:52 -0700
To: aprssig@tapr.org
Message-ID: <32408488.2DFB@erols.com>

Rendered body type: text/plain

```
kb6lfm@ix.netcom.com wrote:
>
> Roger Sellers wrote:
> >
> > >
> > >I'd still like to know how many APRS'ers would want to spend the $199 for a
> > >single channel, single band, low power, FSK only, HF data radio.
> > >
> > >73
> > >
> > >John...
> > >WB4LNM
> > >
> > >
> > >
> >    I'd most likely be interested.
> >
> > 73,
> > Roger Sellers
> > Amateur Radio: KB9LBU
> > E-Mail Home: rsellers@rockford.com
> >              kb9lbu@juno.com
> > E-Mail Work: rsellers@snds.com
>
> Only 1 question John. How low in power?
>
> If the units put out 50W (PEP) I'll take 2 please!
>
> Bill  kb6lfm@ix.netcom.comI'd be interested!  W4OKW
fclarke@erols.com
```

---

154. Re: [APRSSIG:5390] Garmin45 problem

From: jack swift <jswift@up.net>
Date: Sun, 06 Oct 1996 20:19:19 -0500
To: aprssig@tapr.org
Message-ID: <9610070016.AB16601@btc1>
Rendered body type: text/plain

```
this was discussed some time back on the sci.geo.satellite.nav
newsgroup. it appears that the internal dropping resistor in the 45
generates more heat than the unit can handle. then the darn thing goes
stupid! i've had it happen regularily and it's a lot more regular when you
leave the unit on the dash with either sun or defrosters helping to cook it.

        i'm going to try lowering the car input voltage externally to the
unit as was suggested by others..... (but have procrastinated....)



At 01:24 AM EST 10/5/96 -0500, you wrote:
>I have a Garmin45 in my car hooked to the car 12v.  Do you run it with or
>without the batteries.
>  But the problem I had today was that it stopped working.  By that I mean I
>left it running while I went to lunch.  When I got back (about 1 1/2 hrs, GOOD
>lunch) it was flashing 'poor gps coverage' and all the signal strength
>indicators were gone.  I turned it off and back on and got 8 bars right
away.  I
>was in a parking lot away from any buildings and had a good view of the sky.
>  I have thought this has happened before when I have been driving for a couple
>of hours.  I thought i DID lose coverage.  Now I am not so sure.
>   Do I have a bad 45?
>
>Thanks for any info.
>Richard  N7Rig
>
>
>
>
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

---

155. Re: Pico Packet - questions...

From: aprs@juno.com (ap rs)
Date: Sun, 06 Oct 1996 20:59:41 EDT
To: aprssig@tapr.org
Message-ID: <19961006.172800.9446.5.aprs@juno.com>
Rendered body type: text/plain

```
On Sun, 6 Oct 1996 13:06:04 -0500 (CDT) foga@foothill.net (DAN  FOGARD)
writes:

>>RALPH DO YOU TAKE ANY PRECAUTIONS WHEN STARTING THE VAN TO
>ELIMINATE SPIKES?

No. The unit is hidden in the back.  I do try not to rapidly cycle any
big loads, though.  The Pico will occasionally glitch (like once a month
or so), but It could be related to batery problems I have in the van
already.
```

---

156. Re: PICO

From: aprs@juno.com (ap rs)
Date: Sun, 06 Oct 1996 20:59:41 EDT
To: aprssig@tapr.org
Message-ID: <19961006.172800.9446.4.aprs@juno.com>
Rendered body type: text/plain

```
On Sun, 6 Oct 1996 13:07:52 -0500 (CDT) Daniel Velez <dvelez@infi.net>
writes:

>Ralph, you're right, but here in Norfolk there are only four of us and
>we've yet to install a WIDE :)  I was using the number as an example.
>

That's why I said a *busy* network.
>Could one of the Pico users (or maybe Bob) clarify:
>
>-Does the GPS forward posit data at the rate set by LOC or by APRS'
>POSRATE or _both_?  Someone mentioned "both" but I wanted to be sure.

I thought I answered that thoroughly before.   When using a 2 PORT unit,
it follows the following timing:  When the PICO does not see a CTRL E
for the duration of a LOC time interval, it sends a position via the
LPATH route.  As long as APRS does a CTRL E often enough, the PICO will
not send its own tracker beacon.  By the way, the automatic- pico
originated position has a "/" symbol in it.  The APRS initiated one has
the "@".

>-Operation is in HSP mode, right?

Yes.  and APRS must have GPS option purchased/enabled

>-Does HSP force a transmission as well as get the current posit with
>the
>LGET $05 (F8)?

No.

>-Is APRS issuing the LGET to get the data at the POSRATE rate?

Yes

>-Does APRS set up the LPATH _and_ UNPROTO???

It sets up UNproto, but does not set LPATH  unless you put it in the
INITTAPR.TNC file in the system subdirectory.
Remember LPATH is only what it uses when it is NOT getting CTRL Es and it
has become a tracker.

>As you can see, I'm trying to figure out the sequence of events to
>determine how and how often APRS gets posit data from the Pico.  Then
>I'm trying to understand when APRS transmits (does it transmit old or
>new data?).

It took me a while, too.  Maybe I'll write a tutorial

Ralph


replies to rwf@mindspring.com
Juno is what I use for posting when on the road
```

157. Re: [APRSSIG:5411] replies via gates

From: aprs@juno.com (ap rs)
Date: Sun, 06 Oct 1996 20:59:41 EDT
To: aprssig@tapr.org
Message-ID: <19961006.172800.9446.3.aprs@juno.com>
Rendered body type: text/plain

```
Jon-

I am visiting in San Diego (N4NEQ-9 with GPS)  I see you in Malibu and
tried to message you today.  I am not sure which GATE is carrying all the
traffic, but I think it may be the one to the EAST (right under the DIGI
star).  I'll try to ask some locals.  Having 2 gates locally can put a
strain on both HF and VF sides of the net.

Your path to reach th gate here just needs to be 1 wide.  I hear your
station thru 1 wide.  To go out on HF, you use WIDE, GATE.  To go out on
HF and then back to VHF, it woulfd be WIDE,GATE,GATE,xxxx-x    where
xxxx-x is the local VHF digi on the other end.  If you replace xxxx-x
with WIDE, then you'll go out 1 wide from each other GATE.  It is frowned
upon to put 2 WIDEs on the other end.

Your existing path, WIDE, GATE, WIDE will do nothing but get you onto HF.
The wide after the GATE means nothing.

You can only get an ACK back from aq station who has an @ in their P List
entry.  Press P and look.  Stations with / or !  cannot "talk".  I think
Bob was adding W and M for "talkers" as well, but I haven't seen any of
them.

My car unit reverts autmatically back and forth from / to ! as I remove
and replace the laptop.  Feel free to message me if you see me out moving
around.   I'll be in your neck of the woods after next Friday.


Ralph



On Sun, 6 Oct 1996 11:00:35 -0500 (CDT) ko6xs@ko6xs.ampr.org writes:
>I having a great time watching people all across the country doing
>APRS, but ave
>one frustration. I'm running WINAPRS and my path is set to WIDE,
>GATE,WIDE to
>reachfrom Malibu to one of two gateways in San Diego. But I never get
>any
>acknowlegements back from my messages. Even if those DX stations are
>unmanned,
>should I at least get a ACK back?? What am I doing wrong? I tried to
>match
>the DX's path by using GATE, WIDE instead, but no luck.
>Also, how can I tel which of the two San Diego gates is relaying a
>particular
>DX transmission?? And is that information even important to know?
>Thanks in advance for any help you can give.
>
>73s de Jon
>
>
>
>
>         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
>         □ □□□  TNX     73...de...ko6xs, John       □□□ □
>         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
>         □ □□□  ax25  ko6xs@wb6ymh.#soca.ca.usa     □□□ □
>         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
>         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
>
>
```

---

158. Re: More on W3IWI-13 DGPS Beacon

From: Robert Kirk <rkirk1@umbc.edu>
Date: Sun, 06 Oct 1996 21:31:49 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961007013149.006be308@pop.gl.umbc.edu>
Rendered body type: text/plain

```
Thanks to Tom Clarks's dgps broadcast and Bob Bruninga
getting the 300' WB4APR-1 digi in Annapolis back in
```

commission, we now have good differential gps data
on APRS over a good part of the Chesapeake Bay as well
as inland. Down at least to Pax River according to
Tom (the other) Clarke.

I spent the weekend sailing and was able to get near
100% solid copy of W3IWI digital packets on 145.79. They
were frequent enough to keep a pretty constant dgps
correction in my ancient Motorola Traxar +, all the
time getting the usual APRS traffic and not clobbering
the freq. Some of my non-ham sailing friends were
impressed (I bragged, of course) and were thinking
about getting a TNC & scanner. Which is still cheaper
than that gawdawful USCG lf system.

The only problem was this afternoon when I went
stand alone, and operated my Paccomm Handipacket in
GPS mode for a while. I was able to broadcast my
uncorrected GPS posit OK, as verified later from
my APRS rig at home, but the dgps correction never
made it into my GPS receiver. I assume the TNC was
blocking all input to the GPS, which is pretty much
as they tell you, but it is a problem - or software
"feature". On the other hand, the faithful little
TNC operated all day on its internal battery, which
saved yet another piece of the power cord jungle.

Bob Kirk
N3OZB

---

159. Re: PICO

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Sun, 06 Oct 1996 22:15:35 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961007021535.006bd7bc@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 11:04 AM 06-10-96 -0500, AP RS wrote:
>Scott - I think that setting LOC to 3 will really cause a lot of
>saturation on a busy local net! Whenever APRS is not running, or the
>serial cable is unplugged, you'll be beaconing every 30 seconds. This is
>pretty often, especially on a WIDE, WIDE path!
>

Well, I plead guilty to LOCing every 3 this weekend while trying
out the differential correction signals while marine mobile (fancy
for out sailing in the sunshine). At the same time the dgps corrections
were also coming in over 145.79. One would think that APRS would
be clobbered by all that QRM, especially in the pretty active DC
area. But when I got home tonight I checked the tracks from my
home APRS rig, and all seemed normal; all the usual suspects were
still there. I'm not sure what LOC I'll be using out sailing now
that I see how well it works; after all, at a snappy 5 or 6 knots
watching me move along is like watching grass grow, but I'm not
going to feel bad about frequent posits. After all, updating
your house moving along at the speed of continental drift shouldn't
be necessary more often than once an eon or so :-)

Bob Kirk
N3OZB

---

160. vhf

From: Roger Breckon <n8chb@tir.com>
Date: Mon, 07 Oct 1996 03:01:36 -0700
To: aprssig@tapr.org
Message-ID: <3258D4FF.744D@tir.com>
Rendered body type: text/plain

Hello east coast,

Nice vhf opening this evening.

N2CHV-3
K3ATI
W2HOB-15
WB4APR-1
KB4CNI-3

all rec direct.

73

roger n8chb SE Michigan

---

161. UHF APRS

From: William Nolle <wa8inz@concentric.net>
Date: Sun, 06 Oct 1996 23:10:56 -0700
To: aprssig@tapr.org
Message-ID: <32589EF0.1D4@concentric.net>
Rendered body type: text/plain

I was wondering if there are any UHF networks up and running 9600 Baud
yet. I see i big push in the Southeastern states for it but not sure yet
on the frequency since 445.925 is in GA maybe a problem, so i guess the
freq is still up in the air right now. I was asked to participate and
just wondered if there are others and what freq is being used.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

162. Re: APRS SKYWARN

From: wa4mej@juno.com (john w dent)
Date: Sun, 6 Oct 1996 16:03:51 PST
To: aprssig@tapr.org
Message-ID: <19961007.063715.4607.0.wa4mej@juno.com>
Rendered body type: text/plain

```
On Mon, 9 Sep 1996 13:52:12 -0500 (CDT) "John B. Leonard, Jr"
<jleonard@tbcnet.com> writes:
>At 11:48 9/9/96 -0500, you wrote:
>>Please allow me to push this issue once again! Here in Arkansas we
>have a
>>broken down SKYWARN (Voice)Net. It all started out with good
>intensions
>>and actually worked for a while. However, it has ended up with
>disasterous
>>results. Skywarn storm spotters have been unable to report to the NWS
>>which either directly or indirectly resulted in deaths due to lack of
>>"public warnings". This is fact.
>
>On this topic, is it fair to suggest that the APRS/WX/Skywarn
>capabilities
>be separated from the APRS/GPS group.  Not so much on a different
>freq., but
>perhaps as a separate body?
>
>After all, the APRS/WinAPRS/MacAPRS programs provide for a good tool
>for
>both interests, but there seems to be enuf diversity within the
>overall
>program to justify a separate WX/Skywarn group.
>
>Just a thot.
>
>jbl
>-----------------------------------------------------------------
>J Barry Leonard/N9VJQ
>DeKalb IL
>E-MAIL:  jleonard@tbcnet.com
>WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
>American Red Cross Disaster Services - DeKalb Co Chapter
>DR444 DR157
>
>
```

---

163. FW: [APRSSIG:5427] Re: More on W3IWI-13 DGPS Beacon

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 7 Oct 1996 08:01:59 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBB425.D208C3C0@gwyn.paccomm.com>

Rendered body type: text/plain

```
Robert Kirk[SMTP:rkirk1@umbc.edu]said, among other things:


Thanks to Tom Clarks's dgps broadcast and Bob Bruninga
getting the 300' WB4APR-1 digi in Annapolis back in
commission, we now have good differential gps data
on APRS over a good part of the Chesapeake Bay as well
as inland.

............

The only problem was this afternoon when I went
stand alone, and operated my Paccomm Handipacket in
GPS mode for a while. I was able to broadcast my
uncorrected GPS posit OK, as verified later from
my APRS rig at home, but the dgps correction never
made it into my GPS receiver. I assume the TNC was
blocking all input to the GPS, which is pretty much
as they tell you, but it is a problem - or software
"feature". On the other hand, the faithful little
TNC operated all day on its internal battery, which
saved yet another piece of the power cord jungle.

Bob Kirk
N3OZB

Bob,

I'm going to check with our programmer today, but I don't think the GPS
mode blocks the received data from going to the GPS receiver. I'll provide
an update.

However, If I have it wrong, a solution is near to hand. In our dual serial
port commercial products the TNC code looks for UI frames addressed to
DGPS. Those frames (only) are sent to the GPS, and the rest are sent to the
regular serial port.

That feature will soon be released into PicoPacket code. It could be added
to the one serial port models such that if the UI to DGPS is heard, the
data is forwarded out the serial port, otherwise sent to the bitbucket.
```

164. RE: [APRSSIG:5430] UHF APRS

From: "William Yoreo" <K1TRS@msn.com>
Date: Mon, 7 Oct 96 13:28:56 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL05.199610071333230737@msn.com>
Rendered body type: text/plain

```
Hello Bill. I saw your interest in UHF activity. I am up and running in
central Connecticut on 445.925 Mhz. I am at 1200 baud for now but plan to
upgrade to dual speed (1200/9600) soon.

73 de Bill

email: k1trs@msn.com

----------
From:   aprssig@tapr.org on behalf of William Nolle
Sent:   Monday, October 07, 1996 12:34 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:5430] UHF APRS

I was wondering if there are any UHF networks up and running 9600 Baud
yet. I see i big push in the Southeastern states for it but not sure yet
on the frequency since 445.925 is in GA maybe a problem, so i guess the
freq is still up in the air right now. I was asked to participate and
just wondered if there are others and what freq is being used.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

165. RE: [APRSSIG:5422] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: "William Yoreo" <K1TRS@msn.com>
Date: Mon, 7 Oct 96 13:35:03 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL05.199610071336560693@msn.com>
Rendered body type: text/plain

```
I would be very interested in a unit like that.

73 de Bill, K1TRS

Email: k1trs@msn.com

----------
From:   aprssig@tapr.org on behalf of Tom Clarke
Sent:   Sunday, October 06, 1996 6:51 PM
To:     aprssig@tapr.org
Subject:        [APRSSIG:5422] Re: APRS HF Dedicated Xcvr: FCC Part 15

kb6lfm@ix.netcom.com wrote:
>
> Roger Sellers wrote:
> >
> > >
> > >I'd still like to know how many APRS'ers would want to spend the $199 for
a
> > >single channel, single band, low power, FSK only, HF data radio.
> > >
> > >73
> > >
> > >John...
> > >WB4LNM
> > >
> > >
> > >
> >    I'd most likely be interested.
> >
> > 73,
> > Roger Sellers
> > Amateur Radio: KB9LBU
> > E-Mail Home: rsellers@rockford.com
> >              kb9lbu@juno.com
> > E-Mail Work: rsellers@snds.com
>
> Only 1 question John. How low in power?
>
> If the units put out 50W (PEP) I'll take 2 please!
>
> Bill  kb6lfm@ix.netcom.comI'd be interested!  W4OKW
fclarke@erols.com
```

---

166. Re: [APRSSIG:5406] Re: X-1J4 (NODE) Question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 7 Oct 1996 10:11:32 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961007101026.27991A-100000@arctic>
Rendered body type: text/plain

```
I agree that this problem must be fixed, but I cannot fix it unless I see
it.  As I said in the message below, I must see a copy of the RAW packet
and a copy of the P-LIST entry before I have a clue..



 On Sat, 5 Oct 1996
moyers@vic.com wrote:

> ** Reply to note from aprssig@tapr.org Fri, 27 Sep 1996 10:42:46 -0500 (CDT)
> >
> > On Thu, 26 Sep 1996 mark.endicott@nashville.com wrote:
> >
> > > Nashville has a little problem that we need some help with. > couple more in the area. The
> > problem is that the digi's > that are running X-1J4 firmware turn to "gray" after few > hours. I
> > use the term "gray" loosely, the star becomes a
> >
> > APRSdos REPLY/COMMENT: Send me a copy of the *raw* packet being beacond by that digi. If the
> > installer has placed a DATE/TIME in the packet then he is doing it worng. The packetmust begin with
> > !LAT/LONG... There is *no* date-time field in a digipeater posit report.
> >
```

> > Reply mail addr: wb4apr@amsat.org See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> >
> >
> Bob this has been a problem with APRS and TheNet from the beginning. In fact you used to mention it
> in the docs about digi's and using TheNet. The problem is coming from the Node's always sticking
> TheNet:callsign as the first thing in a beacon. Since this is hardcoded into the firmware YOU had to
> change aprs to look !LAT/LONG at any point in the string instead of as the first thing in the string.
> Remember???? The turning to Gray of THENET NODES has ALWAYS been a problem. I asked for a fix for
> this many years ago, and now we are rehashing the problem. Yes it would be easy for no one to use
> TheNet. But, I for one like the remote control capabilities and multi aliases that X1J provides.
> Yes, I could go out and BUY new Kantronics tnc's with some of these capabilities and would even be
> able to beacon the node farther than one wide away. But Why go spend money on new tnc's when the
> one's I have are TAPR clones and X1J is freeware?   The easiest to do is to tolerate the fade to
> gray or for one station close the node to hook it and uplink the digi to the rest of the network.
> Hooking and uplinking solves of the problems with X1J, first it gets seen farther that one wide hop
> away and it stays green.
>
> 73 de John N4QEA
>
>
> John Moyers   N4QEA
> PACKET - N4QEA @ N4QEA.#METN.TN.USA.NA
> INET - moyers@vic.com
> Cruise Missile - 36 02.86N 083 55.40W A=0001100
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

167. Home WIDE's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 7 Oct 1996 10:20:58 -0400 (EDT)
To: "Evans F. Mitchell" <kd4efm@gte.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961007101655.27991B-100000@arctic>
Rendered body type: text/plain

On Sun, 6 Oct 1996, Evans F. Mitchell wrote:

> bob, i found that in 76 you can hit alt-s mode and wide to become a
> wide, in 77 i have not been able to do that...

APRSdos REPLY/COMMENT: I removed that code, because the proper way to set up a WIDE is with a TNC that can have multiple aliases or callsigns. This way, APRS can always set MYA to RELAY and it will NOT mess up the other callsign that you have set up for WIDE. Just set the second call of your TNC to WIDE using the OCT mode in APRS and then the TNC will remember it forever... BUT make sure to put the words WIDE-RELAY in your POSIT COMMENTS so you show as green.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

168. Re: [APRSSIG:5413] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: dkaszubski@why.net (dkaszubski)
Date: Mon, 07 Oct 1996 09:20:22 -0700
To: aprssig@tapr.org
Message-ID: <32592DC6.44BA@why.net>
Rendered body type: text/plain

> >I'd still like to know how many APRS'ers would want to spend the $199 for a
> >single channel, single band, low power, FSK only, HF data radio.
> >
> >73
> >
> >John...
> >WB4LNM
> >

Has anyone else thought about resurecting one of the old, non-WARC transceivers that are available on the used market for $200 to $300 and converting it to 30 meter operation??? At a recent hamfest, I saw 5 Yaesu FT-101's in that price range and an article in a back issue of QST describes the mod to put the beast on 30. Then you would have a 200 watt rig with a VFO to boot! As soon as I find that old article, I will let this sig know (think it's in the September 1983 issue). I have only

persued the mod for the Yaesu since there is an FT-101F in my shack that
works very well on all HF digital modes, including packet. There should
be information to perform this mod on some of the other old rigs out
there somewhere.   If you are concerned about drift (something mine stops
doing after a few minutes) there are two slots for crystal controlled
channels in this model that would make it 'rock bound' and drift free.
btw> This rig may be a little large and power hungry for most mobile
applications, but there are others to consider. I'm just using what is
available...
--
Dave Kaszubski   WB3FYV
dkaszubski@why.net   also: ustuia6v@ibmmail.com
Benbrook, Texas N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/

---

169. Re: [APRSSIG:5411] replies via gates

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 7 Oct 1996 10:33:45 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961007102549.27991E-100000@arctic>
Rendered body type: text/plain

On Sun, 6 Oct 1996 someone wrote wrote:

> ...I have but one frustration. I'm running WINAPRS and my path is set to
> WIDE,GATE,WIDE to reach from Malibu to one of two gateways in San Diego.
> But I never get any acknowlegements back from my messages. I even tried
> to match the DX's path by using GATE, WIDE instead, but no luck.
> Also, how can I tel which of the two San Diego gates is relaying a particular
> DX transmission?? And is that information even important to know?

APRSdos REPLY/COMMENT: Several comments:
1) I hope you are not doing this regularly.
2) W,G,W is useless. W,G gets you to HF, but then there is a W on the
end.. What good is that W on the end?
3) Matching the HF stations G,W is useless because you have to REVERSE the
path to WIDE,GATE.
4) THnk about it. If you dont know the path, and you are using
WIDE,GATE, then your packets may hit BOTH gates, and they will BOTH gate
your packet and they will BOTH collide, and noone will hear the packet at
all, and all you are doing is QRMing the network for no good... If you
feel you must violate the recommendations and send your packets from VHF
to HF, then use the SPECIFIC digipeater that links you to the gate, not
the generic WIDE...

Please read and understand the section in your
TNC manual about digipeating and rad the APRS README\DIGIS.txt file...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

170. Re: [APRSSIG:5434] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: dkaszubski@why.net (dkaszubski)
Date: Mon, 07 Oct 1996 09:32:33 -0700
To: aprssig@tapr.org
Message-ID: <325930A1.1043@why.net>
Rendered body type: text/plain

Some info I should have included in my previous message about modifying
Yaesu FT-101's for operation on 30 meters. I have not tried this
modification yet...

==
copied from the internet:
From: laduke@hpdmd48.boi.hp.com (Terry Laduke)
Newsgroups: rec.radio.amateur.misc
Subject: FT-101 Mod for 30-meter (10MHz) Transmit

  I made several of these mods about ten years ago but I
am a little fuzzy. The FT101 uses 10mhz for its WWV position but
they left out the driver and final coil connections in the
transmit section of the radio. So you either add coils or you

can jump the band switch in the driver portion and the final
section.
     Connect a jumper from the 20meter driver coil tab, to the
WWV driver tab; and the 40 meter final coil tab to the WWV final
tab.
     This will make the driver tune in the 40meter position and
the final will dip around the 20meter position.
     A cheap mod for another band, Good Luck but remember that
packet or rtty is continious power so you need to back off the
drive to about 1/3 normal or you will cook the finals!!!!!!
                              Terry WA6RNF @ Boise,Idaho

```
============================================================================
```

Note: I haven't tried or verified this, proceed at your own risk. WA2ISE
/EX

```
--
Dave Kaszubski      WB3FYV
dkaszubski@why.net     also:  ustuia6v@ibmmail.com
Benbrook, Texas  N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/
```

171. Re: [APRSSIG:5433] RE: UHF APRS

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 07 Oct 1996 09:52:48 -0700
To: aprssig@tapr.org
Message-ID: <32593560.53D9@concentric.net>
Rendered body type: text/plain

William Yoreo wrote:

>
> Hello Bill. I saw your interest in UHF activity. I am up and running in
> central Connecticut on 445.925 Mhz. I am at 1200 baud for now but plan to
> upgrade to dual speed (1200/9600) soon.
>
> 73 de Bill
>
> email: k1trs@msn.com
>

Hi Bill, yes it looks like there is a lot of interest right now and several
digis are planned and ready to go except for the frequency. Looks like
Georgia may have some difficulty with 445.925 since the coordinating body
their claims this as repeater territory ;-). But of course Alabama doesn't
doesn't go along with the Georgia coordination, so right now it's a wait
and see thing.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

172. Re: [APRSSIG:5436] Home WIDE's

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Mon, 07 Oct 1996 11:22:00 -0700
To: aprssig@tapr.org
Message-ID: <32594A48.64E8@worldnet.att.net>
Rendered body type: text/plain

Bob Bruninga wrote:

>
> On Sun, 6 Oct 1996, Evans F. Mitchell wrote:
>
> > bob, i found that in 76 you can hit alt-s mode and wide to become a
> > wide, in 77 i have not been able to do that...
>
> APRSdos REPLY/COMMENT: I removed that code, because the proper way to set
> up a WIDE is with a TNC that can have multiple aliases or callsigns. This
> way, APRS can always set MYA to RELAY and it will NOT mess up the other
> callsign that you have set up for WIDE. Just set the second call of your

```
> TNC to WIDE using the OCT mode in APRS and then the TNC will remember it
> forever...  BUT make sure to put the words WIDE-RELAY in your POSIT
> COMMENTS so you show as green.
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

This becomes a problem with people using older TNC's that will not except
a second alius..  This problem is NOW causing our OCala Digi problems as
he has an old tnc.
Is there a better way of doing this or should we revert to the older
versions od APRS with the older tnc's?

Bud
WB4LTF
```

173. Re: [APRSSIG:5392] DOWNLOAD BBS'S FOR APRS

From: Dick Mead <mead@hamal.usc.edu>
Date: Mon, 7 Oct 96 10:01:02 PDT
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.844707662.mead@hamal.usc.edu>
Rendered body type: text/plain

```
> DOWNLOAD.txt  7.7       DOWNLOAD BBS'S FOR APRS
>
>
...

>    Calif,south           818 799-1632 Pasadena Znode36 Dick Mead WB6NGC
I can't believe I am the only SoCal listing. APRS files are current.
73
...

>
>
```

174. Re: [APRSSIG:5434] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Mon, 07 Oct 1996 17:01:15 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961007210115.006891e4@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 08:58 AM 10/7/96 -0500, you wrote:
>I would be very interested in a unit like that.
>
>73 de Bill, K1TRS
>
>Email: k1trs@msn.com
>
>----------
>From:  aprssig@tapr.org on behalf of Tom Clarke
>Sent:  Sunday, October 06, 1996 6:51 PM
>To:    aprssig@tapr.org
>Subject:       [APRSSIG:5422] Re: APRS HF Dedicated Xcvr: FCC Part 15
>
>kb6lfm@ix.netcom.com wrote:
>>
>> Roger Sellers wrote:
>> >
>> > >
>> > >I'd still like to know how many APRS'ers would want to spend the $199 for
>a
>> > >single channel, single band, low power, FSK only, HF data radio.
>> > >
>> > >73
>> > >
>> > >John...
>> > >WB4LNM
>> > >
>> > >
>> > >
>> >    I'd most likely be interested.
>> >
>> > 73,
>> > Roger Sellers
>> > Amateur Radio: KB9LBU
>> > E-Mail Home: rsellers@rockford.com
>> >              kb9lbu@juno.com
>> > E-Mail Work: rsellers@snds.com
>>
>> Only 1 question John. How low in power?
>>
>> If the units put out 50W (PEP) I'll take 2 please!
>>
>> Bill  kb6lfm@ix.netcom.comI'd be interested!  W4OKW
>fclarke@erols.com
>
>
> If the PEP is above 25W I am definitely interested.

 ronald@cyberstreet.com
73 cu Ron"KD4AMS"
```

---

175. help with mapmaking Savannah, Ga.

From: "Don Murray" <james-m@ix.netcom.com>
Date: Mon, 7 Oct 1996 17:16:51 -0400
To: <aprssig@tapr.org>
Message-ID: <199610072120.OAA18795@dfw-ix1.ix.netcom.com>
Rendered body type: text/plain

```
Hello and thanks for reading this..

 Are any of you mapmaking Guru's up to making a good street level APRS
 map of Savannah/Chatham county Georgia??  If so please contact me via
 Email and let me know what you would charge for this kind of
 service..

 Thanks,
 Don AE4BR
```

---

176. smallest gps/tnc

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Mon, 7 Oct 1996 18:00:19 +0000
To: aprssig@tapr.org
Message-ID: <199610072200.SAA20931@hemisphere.neocomm.net>
Rendered body type: text/plain

```
I plan on doing a Thru-hike of the Appalacian Trail next
year. My APRS/GPS mobile is hoplessly too large to consider carrying
on a six month hike. Whats the smallest, lightest gps/tnc available
now? It shure would be neat to plot my 2000 mile hike from Georgia to
Maine via APRS!  My budget will probally not let me purchase such a
system.   However I would still enjoy getting some more info.

               Also for fellow map makers, the Trail was hiked with
GPS this year. This weekend at Carlise, PA there is a Gathering of
Long Distance Hikers. At this event  I should meet the fellow that made
this gps-hike and inquire about getting the data for us mapmakers.

Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA   ATC
Georgia>97>Main    Chase
```

---

177. Re: [APRSSIG:5443] Re: APRS HF Dedicated Xcvr: FCC Part 15

From: AC6JA@aol.com
Date: Mon, 7 Oct 1996 19:20:42 -0400
To: aprssig@tapr.org
Message-ID: <961007192040_120984772@emout03.mail.aol.com>
Rendered body type: text/plain

```
why don't we try and use a 20m packet freq for trial aprs?  i have been using
the mfj-9420 ssb/cw qrp transceiver and have used this rig successfully on
ssb, cw and packet/amtor/pactor/rtty, etc.  this rig is under $250 and puts
out about 12w PEP.  i have worked all over the country using this rig mobile
with only a 20m hamstick.  if we ever get a permanent aprs freq on 20m, we
can always put in a crystal controlled oscillator for better freq stability.
anyone else have any thoughts on this?
might also be able to convert this rig or the mfj-9440 40m ssb/cw rig to 30m
if you want to keep hf aprs on 30.

Mike  AC6JA
```

178. Travel to Annapolis

From: mark.endicott@nashville.com
Date: Mon, 7 Oct 96 18:35:37
To: aprssig@tapr.org
Message-ID: <199610072346.SAA29150@tapr.org>
Rendered body type: text/plain

I am going to be in Annaplolis for the Boat Show starting wednesday
evening. Anybody got a list of 2mtr or 440 repeaters in the area. And
should I take my mini personal tracker?
                                        Mark....WB0NOO

```
    If Found, Please Return To:
   _____________________________
  |                             \
  |         Mark Endicott         \
  |        P.O. Box 148242          \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO              /
  |  mark.endicott@nashville.com   /
  |_______________________________/
```

---

179. Re: [APRSSIG:5392] DOWNLOAD BBS'S FOR APRS

From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Mon, 7 Oct 1996 20:40:39 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9610072036.A25621-9100000@login>
Rendered body type: text/plain

On Sat, 5 Oct 1996, Larry Griffin wrote:

> DOWNLOAD.txt 7.7   DOWNLOAD BBS'S FOR APRS

>   OHIO. Columbus   614 443-4249

This BBS went silent on August 8th. At the time I took it down, it
was recieving 1 call every 3 days. The phone number is now dedicated as a
fax line for the newspaper.

John Baum - KB8JXO - Former Ohio Map Maker
Cruise Missile Address: 39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper

---

180. RE: [APRSSIG:5445] smallest gps/tnc

From: "William I. Clement" <wclement@the-hermes.net>
Date: Mon, 7 Oct 1996 21:43:54 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>,
        "'cdavidso@hemisphere.neocomm.net'"
 <cdavidso@hemisphere.neocomm.net>
Message-ID: <01BBB498.D3735400@athena-21.the-hermes.net>
Rendered body type: text/plain

Charles Davidson wrote:
            I plan on doing a Thru-hike of the Appalacian Trail next
year. My APRS/GPS mobile is hoplessly too large to consider carrying
on a six month hike. Whats the smallest, lightest gps/tnc available
now? It shure would be neat to plot my 2000 mile hike from Georgia to
Maine via APRS! My budget will probally not let me purchase such a
system.   However I would still enjoy getting some more info.

Here is a possible solution:

The MIM Module is a tiny (1"x1.7") transmit-only TNC ($90). Attach
it to your 1 watt Agrelo HPVFC transmitter (0.4"x1" -- $129) and plug in
your favorite GPS (I use the Garmin GPS-45) and you are packet mobile.
The MIM Module will also accept 5 analog inputs (8-bit resolution) and
8 digital inputs and telemeter this data back to home base. All transmissions
are in APRS format. The telemetry inputs could be used to signal emergency
conditions if you set up some scheme with those monitoring your progress.

The MIM Module is available from Clement Engineering, Inc. (410-268-6736).
The HPVFC is available from Agrelo Engineering, Inc. (518-864-7551).

Hope this helps.

Will Clement, N3XLM

```
begin 600 WINMAIL.DAT
M>)\^(@\!`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &`,P"```"````# ````,``# $````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````$#0````,``# %````"P`/#@$````"`?\/`0```%T`
M````````@2L?I+ZC$!F=;@#=`0]4`@```0!C9&%V:61S;T!H96UI<W!H97)E
M+FYE;V-O;6TN;F5T`%--5% `8V1A=FED<V] :&5M:7-P:&5R92YN96]C;VUM
M+FYE= `````>``(P`0````4```!33510`````!X``S !````( ```&-D879I
M9'-O0&AE;6ES<&AE<F4N;F5O8V]M;2YN970``P`5# $````#`/X/!@```!X`
M`3 !````(@```"=C9&%V:61S;T!H96UI<W!H97)E+FYE;V-O;6TN;F5T)P``
M``(!"S !````)0```%--5% Z0T1!5DE$4T] 2$5-25-02$5212Y.14]#3TU-
M+DY%5 `````#```Y``````L`0#H``````@'V#P$````$````````!0(!^0\!
M````70``````````"!*Q^DOJ,0&9UN`-T!#U0"```!`&-D879I9'-O0&AE;6ES
M<&AE<F4N;F5O8V]M;2YN970`4TU44 !C9&%V:61S;T!H96UI<W!H97)E+FYE
M;V-O;6TN;F5T`````*B8`0B !P`8````25!-+DUI8W)O<V]F="!-86EL+DYO
M=&4`,0@!!( !`"0```!213H@6T%04E-324<Z-30T-5T@<VUA;&QE<W0@9W!S
M+W1N8P`Q"P$%@ ,`#@```,P'"@`'`!4`*P`V``$`6P$!(( #``X```#,!PH`
M!P`5`"$`"0`!`"0!`0F `0`A````03@P,S1%-D8X-#(P1# Q,4)$-3<T-#0U
M-3,U-# P,# `R08!`Y &``@&```2````"P`C```````#`"8```````L`*0``
M`````P`V``````! `#D`P%#&*;JTNP$>`' ``0```"0```!213H@6T%04E-3
M24<Z-30T-5T@<VUA;&QE<W0@9W!S+W1N8P`"`7$``0```!8````!N[2Z*;UO
M3@.I((01T+U71$535 `````>`!X,`0````0```!&05@`'@`?# $````2````
M*S$@*#0Q,"D@-3$X+38U.3<````#``80R >?C0,`!Q"=`P``'@`($ $```!E
M````0TA!4DQ%4T1!5DE$4T].5U)/5$4Z25!,04Y/3D1/24Y'051(4E4M2$E+
M14]&5$A%05!004Q!0TE!3E1204E,3D585%E%05)-64%04E,O1U!334]"24Q%
M25-(3U!,15-33%E43P`````"`0D0`0```(8$``""! ``_@8``$Q:1G7^%5+1
M_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"``'!R0G$1
MXG-T96T"@S-W`N0'$P*#-!$%$U,/WV;>-0-%$S4';0* ?0J ",_%"=D[&B\R
M-34"@ J!@PVQ"V!N9S$P,Q1000L#;&DQ-#0"T6E^+1X3#- >$PM5%%$+\F,I
M#> @0Q&!; >11&&0=FED<P(@('<#8(T3T#H+1A5A<S$V("+["J ADF,%0 J'
M'VXC!R6JG$D@"U$#H"%19&\+@ AG(&$8,&AR=2T0:&EK92;09B!TLF@H$$%P
M"K +8&,',!D#H%1R"W #(&YE>$\C>0L9)(\%0'EE"L N!070>12P4%)3+T=V
M4 7P!&!B`Q H$ 0`($QH;PM0!Y!S;"S@=,AO;R +8')G*! NT#X@!: `@02!
M+Y *P')YWR<R*@4A42=P`)!X+8$",*YH+B G\2RP5Q& = 0@E2AB<P# ;""Q
M="PO`!AI9V@3T!/ (&=PH',O=&YC)V!V*7&'`: MT2H%;F]W/R9@605 <V@(
M<"@0=PA@;/AD(&(H$"FP,J O8@M0_R&@+8 LX '0.& M@"W")^/1`U(@1V4%
ML&<',"]B?2H%30MQ*! A$"=P+0(AXR6@+-%B=6000 5 `_#W,U F@ -@8C-!
M+. UX 5 ]R"P. $H$' (<!%Q$; Q<.YU$7 G82H%<Q.S++ EH/)(-?!E=C !
M)G VQ!/ \SQR"?!J;RS@/"%!$"=!OR% /<$$8#:1"X "$"XCG^\+XR,?*I\@
M(3$_\ 20+>/I)W!P;P00:34R(4 *0'M!$ (@.D45114GD"@03?Q)3070!' V
MX$<U0?$LX @H,2(>\"XW(BG/*% I8 " .*!T+0(@+J$(5$Y#2R D.3 I[3_!
M00) `-!H115,,"]B:GD(82!&X'<RH 5 0<<)P1G /_!05D9,T$O60Q/0!< H
M,"XT2U$B`" M+2 D,3(Y[TNP`' W``M0=2=0"X!%%7U.HV8A``6P3# H$"U2
M*.TF<'4^42AB1PK .* #H/$M42TT-5'T3J$G8#:1_45 8R@`. $MHT,F2:T\
M8T<'0"% )V!C8V4%,4[4@$'0&]2@CWP,K$H.'XM+; %0!HP2#91\T45./\G
M`#/03# '0%J&4A(3T""P[P> 4+(H8"X!9#*@)W \X/]6T"]B+C ]P3S@$;!-
M0CR!_TO51\$OL4455G)502T".3#[!; `P'0_P4FB7B4P8%J&OP6@-N54@5X!
M+O `D&=:,>]!4 > +S$TH'E%%2^A7/"_2'($( :05B,1L51P<$(T_P3P*' ]
MP0/P,?$H8$>P0G+_`P`NT 40)T%.HT21"<$$$-]#)E>?2D<TYSE#0UY"`C!\
M($4=,#K1!G$=,#.@21,TH"RP*#0=4"TR-N%;$#8W,,S9-,&Q)3]1/;:]/5F]/
M2R U,5L0.- V-"TW'' Q<3=%%7U `'!4HBX"3Y T8&O-5P<\<F[%,Z!.,UA,
M3;]%'PN1%U%$7P7 &5$`?- ```,`$! ``````P`1$ ````! ``<PX'J%J;BT
DNP% ``@PX'J%J;BTNP$>`#T``0````4```!213H@`````%W#
`
end
```

---

181. Re: [APRSSIG:5445] smallest gps/tnc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 7 Oct 1996 23:22:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961007231640.17032D-100000@arctic>
Rendered body type: text/plain

On Mon, 7 Oct 1996, Charles W. Davidson wrote:

> I plan on doing a Thru-hike of the Appalacian Trail next
> year. My APRS/GPS mobile is hoplessly too large to consider carrying
> on a six month hike. Whats the smallest, lightest gps/tnc available
> now?

APRSdos REPLY/COMMENT: A GPS and the MIM chip and the Agrelo transmitter
can be built into about the size of a cigarette pack.

```
Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

182. Re: [APRSSIG:5431] Re: APRS SKYWARN

From: James Duncan <ku0g@sprynet.com>
Date: Mon, 7 Oct 1996 20:20:01 -0700
To: aprssig@tapr.org
Message-ID: <199610080320.UAA09788@m1.sprynet.com>
Rendered body type: text/plain

```
<major surgery>
>>jbl
>>------------------------------------------------------------------
>>J Barry Leonard/N9VJQ
>>DeKalb IL
>>E-MAIL:  jleonard@tbcnet.com
>>WWW Home Page http://tbcnet.com/~jleonard/leonard.htm


Is this the NEW NIAN web site, Barry?  The link I had no longer responds.
The servers sez no such page at this address for what I had before...


73 de Jim, KU0G
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

183. Re: [APRSSIG:5355] Re: DGPS and ANNAPOLIS WIDE!

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Mon, 07 Oct 1996 15:04:31 +0100
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <3.0b28.32.19961007150425.009fd390@dgps.com>
Rendered body type: text/plain

```
Tom,
You won't get anywhere 1 meter with dgps corrections sent every 20 seconds,
and to say that the data will be better than DCI or the coast guard is way
off.  DCI outputs corrections every 2 seconds, and the coast guard is much
more frequent than every 20 seconds.
A second delay will add at around 5 meters of error.  The other thing to
watch is whether you send type 1 or type 9 corrections.  Experience is that
sending type 1's over the air is a problem, as any error in the data ruins
the correction for all the satellites in the type 1 message.  In your case,
the data will then be 40 seconds old upon receiving the next packet.  If
you haven't already decided to use type 9's, I suggest that you should.
I tried DGPS a little in the bay area, and found that the delays could be
rather long.  What have you found?
regards,
Ron Haley
President and C.E.O.
DCI


At 12:08 PM 10/3/96 -0500, Tom Clark -- W3IWI wrote:
>
>Bob -- thanks for telling me that the Balto/Wash area now is again WIDE!
>I just stopped by W3IWI-13 and changed the UNPROTO route accordingly.
>
>All -- Now that the W3IWI-13 DGPS beacon has better coverage bouncing thru
>whatever WIDEs it can hit, I am really anxious to get reports from folks
>in the MD/DC/VA/DE/PA/SNJ area on your ability to use the DGPS corrections
>I'm broadcasting. In case you missed the earlier postings, W3IWI-13 is
>sending DGPS beacons addressed to DGPS via WIDE with a beacon sent every
>20 seconds. The data is generated in some professional equipment and the
>DGPS correction quality should be >>BETTER<< than those sent by the Coast
>Guard on ~300 kHz or by commercial firms like DCI on FM broadcast
subcarriers.
>With these corrections poked into your GPS receiver, you should obtain 1-10
>meter accuracy within about 50 miles of the beacon site (Greenbelt MD) and
>should see improvements out to the 100-200 mile range. The DGPS beacons
>should virtually eliminate effects of Selective Availability and GPS
>broadcast ephemeris errors, and will minimize errors due to signal
propagation
>thru the ionosphere and troposphere.
>
>To use them, you need to make sure there is some data path from your TNC's
```

>data output into your GPS rcvr's input. This can be a direct TNC->GPS
>connection, or Bob has hooks in APRS to handle it for you. You may need
>to enable DGPS data on your GPS receiver; for example, in the Garmin 38/40/45
>you need to go to the INTERFACES menu item, and select either NMEA/RTCM or
>NONE/RTCM. For most receivers, your TNC needs to be set to 4800 baud async
>data rate to make things work.
>
>So please, send me (or post here) news on how the DGPS corrections are
>working for you! So far, apparently only a couple of us are using the
>correction signals.
>
>73, Tom
>
>

```
----------  Worldwide leaders in Real Time DGPS-----------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
---------------------------------------------------------------------------
```

184. Re: [APRSSIG:5447] Travel to Annapolis

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 7 Oct 1996 23:43:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961007234134.17032F-100000@arctic>
Rendered body type: text/plain

On Mon, 7 Oct 1996 mark.endicott@nashville.com wrote:

> I am going to be in Annaplolis for the Boat Show starting wednesday
> evening. Anybody got a list of 2mtr or 440 repeaters in the area. And
> should I take my mini personal tracker?

APRSdos REPLY/COMMENT: 147.105, 146.805, 146.94 and possibly 146.55
simplex. The boat show is 1 mile from the nearest WIDE

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

185. Re: [APRSSIG:5449] RE: smallest gps/tnc

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 07 Oct 1996 22:41:55 -0700
To: aprssig@tapr.org
Message-ID: <3259E9A3.A42@concentric.net>
Rendered body type: text/plain

William I. Clement wrote:
>
> Charles Davidson wrote:
>   I plan on doing a Thru-hike of the Appalacian Trail next
> year. My APRS/GPS mobile is hoplessly too large to consider carrying
> on a six month hike. Whats the smallest, lightest gps/tnc available
> now? It shure would be neat to plot my 2000 mile hike from Georgia to
> Maine via APRS! My budget will probally not let me purchase such a
> system.   However I would still enjoy getting some more info.
>
> Here is a possible solution:
>
> The MIM Module is a tiny (1"x1.7") transmit-only TNC ($90). Attach
> it to your 1 watt Agrelo HPVFC transmitter (0.4"x1" -- $129) and plug in
> your favorite GPS (I use the Garmin GPS-45) and you are packet mobile.
> The MIM Module will also accept 5 analog inputs (8-bit resolution) and
> 8 digital inputs and telemeter this data back to home base. All transmissions
> are in APRS format. The telemetry inputs could be used to signal emergency
> conditions if you set up some scheme with those monitoring your progress.
>
> The MIM Module is available from Clement Engineering, Inc. (410-268-6736).
> The HPVFC is available from Agrelo Engineering, Inc. (518-864-7551).
>
> Hope this helps.
>
> Will Clement, N3XLM
>
> begin 600 WINMAIL.DAT

```
> M>)\^(@\!`0:0" `$````````!``$``0>0!@`(````Y 0````````#H``$-@ 0`
> M`@````(``@`!!) &`,P"```"````# ````,``# $````"P`/#@``````"`?\/
```

```
> M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
> M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
> M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
> M#P8````>```$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
> M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$`````"
> M`?8/`0````0````````$#0````,``# %`````"P`/#@$`````"`?\/`0```%T`
> M````````@2L?I+ZC$!F=;@#=`0]4`@```0!C9&%V:61S;T!H96UI<W!H97)E
> M+FYE;V-O;6TN;F5T`%--5% `8V1A=FED<V] :&5M:7-P:&5R92YN96]C;VUM
> M+FYE= `````>``(P`0````4```!33510``````!X``S !`````( ```&-D879I
> M9'-O0&AE;6ES<&AE<F4N;F5O8V]M;2YN970``P`5# $`````#`/X/!@```!X`
> M`3 !`````(@```"=C9&%V:61S;T!H96UI<W!H97)E+FYE;V-O;6TN;F5T)P``
> M``(!"S !`````)0```%--5% Z0T1!5DE$4T] 2$5-25-02$5212Y.14]#3TU-
> M+DY%5 `````#```Y``````L`0#H``````@'V#P$````$``````````!0(!^0\!
> M````70``````````"!*Q^DOJ,0&9UN`-T!#U0"```!`&-D879I9'-O0&AE;6ES
> M<&AE<F4N;F5O8V]M;2YN970`4TU44 !C9&%V:61S;T!H96UI<W!H97)E+FYE
> M;V-O;6TN;F5T`````*B8`0B !P`8````25!-+DUI8W)O<V]F="!-86EL+DYO
> M=&4`,0@!!( !`"0```!213H@6T%04E-324<Z-30T-5T@<VUA;&QE<W0@9W!S
> M+W1N8P`Q"P$%@ ,`#@```,P'"@`'`!4`*P`V``$`$6P$!(( #``X```#,!PH`
> M!P`5`"$`"0`!`"0!`0F `0`A````03@P,S1%-D8X-#(P1# Q,4)$-3<T-#0U
> M-3,U-# P,# `R08!`Y &`@```2````"P`C``````#`"8```````L`*0```
> M`````P`V```````!`#D`P%#&*;JTNP$>`' ``0```"0```!213H@6T%04E-3
> M24<Z-30T-5T@<VUA;&QE<W0@9W!S+W1N8P``"`7$``0```!8````!N[2Z*;UO
> M3@.I((01T+U71$535 `````>`!X,`0````0```!&05@``'@`?# $````2````
> M*S$@*#0Q,"D@-3$X+38U.3<````#``80R >?C0,`!Q"=`P``'@`($ $```!E
> M````0TA!4DQ%4T4@1DE$4T].(%)%0U5)4D5$.B!/3B!-3T%4+$E*04M42-2$E+
> M14]&5$A%05!004Q!0TE!3E1204E,3D585%E%05)-64%04E,O1U!334]"24Q%
> M25-(3U!,15-33%E43P``````"`0D0`0```(8$``""! ``_@8``$Q:1G7^%5+1
> M_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R`\4"``!R0G$1
> MXG-T96T"@S-W`N0'$P*#-!$%$U,/WV;>-0-%$S4';0* ?0J ",_%"=D[&B\R
> M-34"@ J!@PVQ"V!N9S$P,Q000L#;&DQ-#0"T6E^+1X3#- >$PM5%%$+\F,I
> M#> @0Q&!; >11&&0=FED<P(@('<#8(T3T#H+1A5A<S$V("+["J ADF,%0 J'
> M'VXC!R6JG$D@"U$#H"%19&\+@ AG(&$8,&AR=2T0:&EK92;09B!TLF@H$$%P
> M"K +8&,',!D#H%1R"W #(&YE>$\C>0L9)(\%0'EE"L N!070>12P4%)3+T=V
> M4 7P!&!B`Q H$ 0`($QH;PM0!Y!S;"S@=,AO;R +8')G*! NT#X@!: `@02!
> M+Y *P')YWR<R*@4A42=P`)!X+8$",*YH+B G\2RP5Q& = 0@E2AB<P# ;""Q
> M="PO`!AI9V@3T!/ (&=PH',O=&YC)V!V*7&'`: MT2H%;F]W/R9@605 <V@(
> M<"@0=PA@;/AD(&(H$"FP,J O8@M0_R&@+8 LX '0.& M@"W")^/1`U(@1V4%
> ML&<',"]B?2H%30MQ*! A$"=P+0(AXR6@+-%B=60O0 5 `_#W,U F@ -@8C-!
> M+. UX 5 ]R"P. $H$' (<!%Q$; Q<.YU$7 G82H%<Q.S++ EH/)(-?!E=C !
> M)G VQ!/ \SQR"?!J;RS@/"%!$"=!OR% /<$$8#:1"X "$"XCG^\+XR,?*I\@
> M(3$_\ 20+>/I)W!P;P00:34R(4 *0'M!$ (@.D45114GD"@03?Q)3070!' V
> MX$<U0?$LX @H,2(>\"XW(BG/*% I8 " .*!T+0(@+J$(5$Y#2R D.3 I[3_!
> M00) `-!H115,,"]B:GD(82!&X'<RH 5 0<<)P1G /_!05D9,T$O60Q/0!< H
> M,"XT2U$B`" M+2 D,3(Y[TNP`' W``M0=2=0"X!%%7U.HV8A``6P3# H$"U2
> M*.TF<'4^42AB1PK .* #H/$M42TT-5'T3J$G8#:1_45 8R@`. $MHT,F2:T\
> M8T<'0"% )V!C8V4%,34[4@$'0&]2@CWP,K$H.'XM+; %0!HP2#91\T45./\G
> M`#/03# '0%J&4A(3T""P[P> 4+(H8"X!9#*@)W \X/]6T"]B+C ]P3S@$;!-
> M0CR!_TO51\$OL4455G)502T".3#[!; `P'0_P4FB7B4P8%J&OP6@-N54@5X!
> M+O `D&=:,>]!4 > +S$TH'E%%2^A7/"_2'($( :05B,1L51P<$(T_P3P*' ]
> MP0/P,?$H8$>P0G+_`P`NT 40)T%.HT21"<$$$-]#)E>?2D<TYSE#0UY"`C!\
> M($4=,#K1!G$=,#.@21,TH"RP*#0=4"TR-N%;$#8W,S9-,&Q)3]1/;:]/5F]/
> M2R U,5L0.- V-"TW'' Q<3=%%7U `'!4HBX"3Y T8&O-5P<\<F[%,Z!.,UA,
> M3;]%'PN1%U%$7P7 &5$`?- ```,`$! ``````P`1$ ````! ``<PX'J%J;BT
> DNP% ``@PX'J%J;BTNP$>`#T``0````4```!213H@`````%W#
> `
> end
```

Gosh sure appreciate it if you would fix your mailer Will so we don't get
that WINMAIL.DAT file along with your message. Thanks in advance.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

186. WINMAIL.DAT

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 07 Oct 1996 22:43:18 -0700
To: aprssig@tapr.org
Message-ID: <3259E9F6.4B17@concentric.net>
Rendered body type: text/plain

Sorry didn't mean to send that last message to the sig. And i also failed
to strip the WINMAIL.DAT file from it.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

187. Re: [APRSSIG:5449] RE: smallest gps/tnc

From: sams@jetlink.net (sam stanifer)
Date: Mon, 7 Oct 1996 21:24:03 +0800
To: aprssig@tapr.org
Message-ID: <v01530501ae7eb12c7354@[206.72.64.101]>
Rendered body type: text/plain

>Here is a possible solution:
>
>The MIM Module is a tiny (1"x1.7") transmit-only TNC ($90). Attach
>it to your 1 watt Agrelo HPVFC transmitter (0.4"x1" -- $129) and plug in
>your favorite GPS (I use the Garmin GPS-45) and you are packet mobile.
>The MIM Module will also accept 5 analog inputs (8-bit resolution) and
>8 digital inputs and telemeter this data back to home base. All transmissions
>are in APRS format. The telemetry inputs could be used to signal emergency
>conditions if you set up some scheme with those monitoring your progress.
>
>The MIM Module is available from Clement Engineering, Inc. (410-268-6736).
>The HPVFC is available from Agrelo Engineering, Inc. (518-864-7551).
>
>Hope this helps.
>
>Will Clement, N3XLM
>

The MIM Module seems to be very useful for many APRS apps. Is there any
operations/configuation info on-line beyond that in TELEMTRY.txt?
73,Sam,KJ6BU

---

188. LL BBS Numbers

From: bbliss@juno.com (William B. Bliss)
Date: Tue, 08 Oct 1996 01:27:28 EDT
To: aprssig@tapr.org
Message-ID: <19961007.203030.2287.0.bbliss@juno.com>
Rendered body type: text/plain

```
All on the sig:             APRS LL BBS Download umbers

Following info I have been putting out on the Packet BBS's as info
for all ....

   Latest DOS VER   Can be found at addresses below, if no modem or
Net, send 2 blank disks in CARDBOARD mailer with return postage, to me.
Am good in book and QTH LISTING SAMS ..

   Also note the new KA6EYH INTERNET FTP Address, FOR MAC & DOS versions.

          ftp://140.175.180.4.pub/aprs  or pooh.muncey.com

       (pooh.muncey.com  IP 140.175.180.4 in the pub/aprs dir)

   They are also found on N6FRI, TAPR, and few other sites.

APRS LL Phone and Internet INFORMATION:............10/01/96   APRSLL.NRS
--------------------------------------
ROY, KA6EYH DALY CITY, CA. APRS DOS & MACINTOSH FILES:

  Internet:  @pooh.muncey,com ip 140.174.180.1 in pub/aprs dir.
             logon as Guest or Anonymous with EMail addr as PasWrd.

OTHERS:      Bob/N6FRI..Berkeley, CA.  outstanding APRS Net page &
             cAVe infor as well:

                    http://www.cave.org
          APRS...   http://www.ccnet.com/~rwilkins/aprs.html
          Home/personal..   bwilkins@cave.org
```

```
             @ oak.oakland.edu in SIMTEL/PACKET/PUB/HAMRADIO

             @ tapr.org in tapr.sig.aprssig.  TAPR,- Tucson Amateur
                                              Packet Radio, - AZ.

             @ftp.drig.com /pub/aprs        Dallas Remote Imaging Group.

APRS INTERNET, (SIG) SPECIAL INTEREST GROUP:
-------------------------------------------
To subscribe, send a message to "listserv@tapr.org" with the following
line in the body of the message:  subscribe list full_name...
  Example:  "subscribe aprssig FirstName, Last name."
  All msg digested, add:  "set aprssig mail digest."
---------------------------------------------------------------------------

Local Bay Area LL and USA BBS Numbers: APRS DOS SYSTEMS & FILES......

      415-359-6985              KA6EYH, Roy Daly City, Ca. SFran area.
                  (Password "COAST" use D-Download, then DOS commands,
                   9600baud and ZGET -file. ))

      510-827-5714              No-Name, Walnut Creek, Ca. area
      510-370-0459              ????     Walnut Creek, Ca. area
      916-323-4826              CARES,   Sacramento area..(APRS.NWS)sig
file
      209-625-0618              N6QOV,   Visalia, Ca. area
      408-459-9903              WB6SSY, Login, "hamradio",     SBay Area
       "WB6SSY a UNIX System, ltrs case sensetive, use lower case only."

TAPR..  512-475-6145              TAPR BBS, Denton, TX  Greg/WD5IVD

USA.  410-280-2503  *****  N3JUY, ARN ANNAPOLIS, Md. APRS 1ST filed.

       602-938-7528    N7QVU, BBS, Phoenix, Az. Very Good ..APRS Files
       407-575-9680       Florida,             APRS Files
       614-443-4249       Columbus, Ohio,      APRS Files
       803-233-3527       South Carolina,      APRS Files
       703-207-9622       Vienna, Virginia,    APRS Files

PNW.   503-658-6116       N6TR, Boring, OR.    APRS Files
  (For any PNW "OR/WA" APRS info QSO Griff/N7ZKL @ K7IQI Beaverton, OR.)

       520-778-9198       WC7R, Prescott, Az.  APRS FILES
       816-628-5776       KU0G, Kansas City, Kn. APRS SUPPORT MIDWEST
       619-279-3921       WA6MHZ, Flinn Springs
       803-299-6185       W4VIW, BBS, Greenville, SC.
       214-492-7057       N5ITU, Dallas Remote Imaging Group (DRIG)

CANADA:
       905-459-4477       VE3SVE, Ontario/Toronto Area.
       Webb Site...       http://www.projectx.com/aprs
       FTP site...        ftp://ftp.projectx.com

MACINTOSH and WinAPRS..

1.  WU2Z/Keith Sproul, New Brunswick, Nj. MacAPRS AUTHOR/Guru...
    QSI for MAC info, @W2EMU.NJ.USA.NOAM.. Home--908-821-4828,
    Work --908-445-3695. or via the Internet:
    ksproul@noc.rutgers.edu,  or  http://www-ns.rutgers.edu/~ksproul/

2.  QSO SAM/KO6JR @ 510-229-5705 phone only, No LL BBS system
            Work  @ 510-669-4096

    Any further additions, corrections or comments, advise..

    APRS, TRY IT, YOU'LL ENJOY IT, and OUTSTANDING Packet Program.
    available on the INTERNET, a whole new WORLD in Packet Radio.

  73's & Enjoy, Bill/WB6LPG@KA6EYH.#NOCAL.CA.USA.NOAM
(3727.39N/12226.29W)
                               <bbliss@juno.com> or
<wbliss@coastside.net>


NNNN
```

189. Gerry Creager

From: aprs@juno.com (ap rs)
Date: Tue, 08 Oct 1996 03:49:52 EDT
To: aprssig@tapr.org
Message-ID: <19961007.215049.12422.5.aprs@juno.com>
Rendered body type: text/plain

```
What ever became of him?
I sent a private Email and got no response and haven't seen him here in a
long time.

Ralph
rwf@mindspring.com
```

---

190. Aprs: Ultimeter

From: oscar24@juno.com (Robert B Stewart)
Date: Mon, 7 Oct 1996 15:15:20 PST
To: aprssig@tapr.org
Message-ID: <19961007.151526.7270.0.oscar24@juno.com>
Rendered body type: text/plain

```
After reviewing the documentation I still do not understand how to setup
the aprs system with the weather station.  Currently I am using version
77b of your program.  Do you have available to the novice user any
documentation that would explain how to set up and run your aprs system
as a weather station.  I have registered copy as well as a registration
for GPS and WX.  Any help in this area would be greatly appreciate.

Sincerely,
Bruce Stewart, N9GKE
5 Adina Place
Lafayette, IN. 47905
```

---

191. HF Gateways

From: bbliss@juno.com (William B. Bliss)
Date: Tue, 08 Oct 1996 03:13:18 EDT
To: aprssig@tapr.org
Message-ID: <19961007.210433.2287.1.bbliss@juno.com>
Rendered body type: text/plain

```
Hello to the Sig.. Foll info ref recient replies via Gates. May be
of Info for Mac/WinAPRS users.

QUOTED FOR INFORMATION AND GUIDANCE.....
   ************************

HF.txt 7.1b              HF APRS BOAT AND RV TRACKING NET
DOS. README.DIR, File: HF.TXT  Quoted in part.........By WB4APR....
                     *************************
QUOTE:

GATEWAYS:  By assigning the generic callsign of GATE to the gateway
function
in the dual port Kantronics or AEA TNC's, any HF station can gate-way
into
the local VHF net.  HF stations can probably use the VIA path of GATE
most of the time, because the slow HF operation could hardly clutter up
any
local VHF APRS networks.  But users on VHF APRS networks should NEVER use
GATE on the VHF side of their gateways except under extreme
circumstances.
This is because there are hundreds of times more VHF users than there are
HF
users and the 1200 baud users would totally saturate the HF net!

     To repeat:  The purpose of HF/VHF gateways is to permit VHF local
area
APRS nets to see the movements of nationwide RV and BOATER mobiles.  For
example, when I go GPS mobile, I do not want to leave my HF station
running
at home so my wife can follow my status.  But If I send my HF mobile APRS
reports via the local HF GATEway, then my wife can see me on our computer
which only needs to have a VHF TNC.  Please DO NOT GATEWAY from VHF
through
a gateway ONTO HF except under very unusual circumstances!  Similarly, if
you are on HF, only use ONE WIDE after the GATE so as not to clutter up
everyone's VHF nets.
     *********************************
UNQUOTE.........
```

```
   73's & Enjoy, Bill/WB6LPG. <bbliss@juno.com><wbliss@coastside.net>

NNNN
```

---

192. Re: [APRSSIG:5451] Re: APRS SKYWARN

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 08 Oct 1996 06:30:36 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961008113036.006a61b0@tbcnet.com>
Rendered body type: text/plain

```
Hi Jim,

The site's still at
http://tbcnet.com/~davidc/aprs.html

but I really don't know who's running it now.  The last I heard, David
Chesser wasn't keeping it up, and according to what it says, Henry N9WMM is
now the pres of NIAN, but there's no mention of Ed Rogers, Dave Chesser, et
al, who were the motivations behind APRS around here.  Seems to me that it
ought to recognize some people in this area.

My site was a 1st time effort to get into web pages.  It'll be going thru
some major face lifting soon.

barry

At 22:34 10/7/96 -0500, you wrote:
><major surgery>
>>>jbl
>>>-------------------------------------------------------------------
>>>J Barry Leonard/N9VJQ
>>>DeKalb IL
>>>E-MAIL:  jleonard@tbcnet.com
>>>WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
>
>
>Is this the NEW NIAN web site, Barry?  The link I had no longer responds.
>The servers sez no such page at this address for what I had before...
>
>
>73 de Jim, KU0G
>73 de Jim, KU0G
>Chairman/Coordinator
>Kansas City APRS Working Group
>EMail:  ku0g@sprynet.com
>
-----------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

---

193. Re: [APRSSIG:5420] Re: More on W3IWI-13 DGPS Beacon

From: Doug Wittich <dwittich@concentric.net>
Date: Tue, 08 Oct 1996 10:22:53 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961008142253.006788ac@pop3.concentric.net>
Rendered body type: text/plain

```
At 05:04 PM 10/6/96 -0500, you wrote:
>Tom Clark -- W3IWI wrote:
>>
>> I have received several signal reports that the beacon is being heard
>> for a few miles. Obviously coverage is limited by the lack of a good
>> area digipeater on 145.79!
>>

I'm hearing you now about 4 miles NE of the NE corner of Baltimore City,
about three miles from I-95 exit 67.

I am currently not online enough to depend on for digi, and my signals don't
hit wb4apr-1 very often.  I think I'm colliding a lot with many others, and
my 5 watts don't go far in a competition.

Doug
```

---

194. (no subject)

From: Ron Reeves <reeves@christenson.com>
Date: Tue, 8 Oct 96 08:58 PDT
To: aprssig@tapr.org
Message-ID: <m0vAeXl-0010PGC@vista.hevanet.com>
Rendered body type: text/plain

```
At 07:38 PM 9/23/96 -0500, you wrote:
>All remaining shirts are being picked up and sent tomorrow night.
>You should all have your shirts by the end of the week.
>
>I actually broke even !!
>
>I have several XXL shirts that are still available if anyone is interested.
>
>If I get alot more orders I will make another run of them.
>73 Mike
>KD4EMI@AOL.COM
>
>
Has anyone received their shirts in the mail??  I ordered 4 and have
received none.
I tried to contact Mike direct but my e-mail was returned from aol.
"The mail you sent could not be delivered to:
550 kd4emi@aol.com is not a known user"

Did they go out or not??
Mike, if you have a new address please contact me direct at
reeves@christenson.com


Ron
N7QXO
reeves@christenson.com
If you have the wrong answer, change the question.
```

---

195. 20m GATE

From: kb6lfm@ix.netcom.com
Date: Tue, 08 Oct 1996 12:09:52 -0700
To: aprssig@tapr.org
Cc: kswaggart@aol.com, bbliss@juno.com, AC6JA@aol.com
Message-ID: <325AA700.6E15@ix.netcom.com>
Rendered body type: text/plain

```
G'day SIG.
  In response to Mike (AC6JA) inquiry re; a 20m GATE, I will begin operating a GATE on
14.098 Mhz "MARK" TNC is a KAM+. Perameters are; MARK 2125, SPACE 2295, SHIFT 170 and
I'll be using the ALIAS of TUNE1. Rig will be a TS-450s/AT with the TCXO high stability
oscillator, and I'll be using a filter with a bandpass of 500 Hz. Antenna will be a 2
element Quad at 50'. Power will vary from 85W to 1500W.  Station location is; 37.43.30N X
122.10.48W.

Please address your comments to:
kb6lfm@ix.netcom.com  KB6LFM@W6PW.#NOCAL.CA.USA.NOAM
Signal reports with DATE & TIME HEARD (in UTC please) are welcome.

Cheers.  Bill
```

---

196. AutoWx (for U-II)

From: Les Blalock <lcb911@apex2000.net>
Date: Tue, 8 Oct 1996 16:19:04 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961008161505.25d79208@apex2000.net>
Rendered body type: text/plain

```
For those wanting the Ultimeter II version of the AutoWeather packet/weather
program...

It's been uploaded to the tapr ftp site.  Look for it in the UPLOAD
directory until it's moved into the /weather directory.    The filename for
this version is AWII81A.ZIP

This version transmits wx beacons in the newer APRS format (77b).

73 de Les/N5KOA
```

---

197. Re: [APRSSIG:5390] Garmin45 problem

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Tue, 08 Oct 1996 13:06:41 +0100
To: aprssig@tapr.org

Message-ID: <3.0b28.32.19961008130634.00a452a0@dgps.com>
Rendered body type: text/plain

Richard,
Unfortunately you don't have a uniquely bad Garmin45. I purchased one over
the weekend, and after a few days of testing, and discussions with Garmin
Tech support, I have concluded that the product is totally unsuitable for
use with APRS.
First, it is a single channel receiver, and multiplexes between up to 8
satellites. Unfortunately, any sort of tree coverage causes it to lose
lock on all the satellites.
Second, reacquisation after losing lock when you are mobile is problamatic.
 I have had three scenarios;
a)   Message Poor Coverage followed by the unit turning   itself off.
b)   Message Turn unit off to reinitialize
c)   Unit locked up
Not once have I had the unit re-acquire satellites by itself in a mobile
environment after it has lost them all.
If anyone else has had similar problems. or has a solution let me know.
Garman technical support wasn't able to help with c) above. However they
think that a) and b) are normal. Unworkable in an APRS or in almost any
environment.
I am going to try tha Magellan next.
At 01:24 AM 10/5/96 -0500, you wrote:
>I have a Garmin45 in my car hooked to the car 12v. Do you run it with or
>without the batteries.
> But the problem I had today was that it stopped working. By that I mean I
>left it running while I went to lunch. When I got back (about 1 1/2 hrs,
GOOD
>lunch) it was flashing 'poor gps coverage' and all the signal strength
>indicators were gone. I turned it off and back on and got 8 bars right
away. I
>was in a parking lot away from any buildings and had a good view of the sky.
> I have thought this has happened before when I have been driving for a
couple
>of hours. I thought i DID lose coverage. Now I am not so sure.
>   Do I have a bad 45?
>
>Thanks for any info.
>Richard N7Rig
>
>
>
---------- Worldwide leaders in Real Time DGPS-----------------------------
Ronald P. Haley   PH: +1-408-446-8350
President and C.E.O.   Fax: +1-408-446-8383
Differential Corrections Inc   E-Mail: ronhaley@dgps.com
10121 Miller Ave   Web: http://www.dgps.com
Cupertino, CA 95014
----

198. Re: [APRSSIG:5466] Re: Garmin45 problem

From: "Randy Hammock" <hammock@wired.jpl.nasa.gov>
Date: Tue, 8 Oct 1996 16:17:47 -0700
To: aprssig@tapr.org
Message-ID: <9610081617.ZM29987@wired.jpl.nasa.gov>
Rendered body type: text/plain

On Oct 8, 4:40pm, Ronald P. Haley wrote:
> Subject: [APRSSIG:5466] Re: Garmin45 problem
> Richard,
> Unfortunately you don't have a uniquely bad Garmin45. I purchased one over
> the weekend, and after a few days of testing, and discussions with Garmin
> Tech support, I have concluded that the product is totally unsuitable for
> use with APRS.
> First, it is a single channel receiver, and multiplexes between up to 8
> satellites. Unfortunately, any sort of tree coverage causes it to lose
> lock on all the satellites.
> Second, reacquisation after losing lock when you are mobile is problamatic.
> I have had three scenarios;
> a)   Message Poor Coverage followed by the unit turning   itself off.
> b)   Message Turn unit off to reinitialize
> c)   Unit locked up
> Not once have I had the unit re-acquire satellites by itself in a mobile
> environment after it has lost them all.
> If anyone else has had similar problems. or has a solution let me know.
> Garman technical support wasn't able to help with c) above. However they
> think that a) and b) are normal. Unworkable in an APRS or in almost any
> environment.

Can't say I've ever experienced what you are describing, even before purchasing the Trimble antenna from Paccom. After purchsing the Trimble antenna, I was able to use my Garmin 45 for trail mapping in DENSE East Coast forest cover. Never once did I get a "Poor GPS Coverage" message or have the unit fail to lock on the birds while horseback riding through the forests (Trimble antenna mounted on top of my riding helmet). Before purchasing the Trimble antenna, I used a Radio Shack window mount to remotely mount my Garmin stick antenna outside of the truck and without any amplification, never experienced such problems as being unable to lock onto the birds but it would give an occasional Poor GPS Coverage message due to poor signal strength.

> I am going to try tha Magellan next.

If you want a consumer grade parallel receiver, go for the Eagle AccuNav. I beleive that the Magellans are no better than the Garmin.

```
> ----------  Worldwide leaders in Real Time DGPS-----------------------------
> Ronald P. Haley                               PH:     +1-408-446-8350
> President and C.E.O.                  Fax:    +1-408-446-8383
> Differential Corrections Inc          E-Mail: ronhaley@dgps.com
> 10121 Miller Ave                      Web:    http://www.dgps.com
> Cupertino, CA 95014
> ---------------------------------------------------------------------------
>-- End of excerpt from Ronald P. Haley
```

```
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
EMail: hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

---

199. Re: [APRSSIG:5466] Re: Garmin45 problem

From: James Duncan <ku0g@sprynet.com>
Date: Tue, 8 Oct 1996 15:51:40 -0700
To: aprssig@tapr.org
Message-ID: <199610082251.PAA13442@m1.sprynet.com>
Rendered body type: text/plain

Just a comment regarding the Garmin GPS-45 that was just slam-hammered. Are there problems? Yes. Are they because the receiver is not any good? No. I would say that the person that just posted this message has gotten a faulty unit and should return it post haste to the place he got it for a replacement.

I have been using the 45 for six months now in a mobile environment. I have experienced some of the quirks but they are by no means COMMON occurences. They are minor bugs that I am sure will be cleared up.

It is my understanding that the 45 is an eight CHANNEL receivers not a single channel unit. I may be wrong here but I've got some very tight relationships with Garmin these days. (See the KCAWG Web Site @ http://home.sprynet.com/sprynet/ku0g for information)

I'm not a Garmin employee and have no interest in promoting their product(s) but to say that it is totally useless for APRS is absolutely ridiculous. These are fine receivers and we have to remember that these are NOT military or aviation units but general consumer units.

Garmin fully supports APRS operations. We ARE a priority to Garmin. If it were NOT so then the Kansas City APRS Working Group would NOT have units consigned to it by Garmin for public service work and there would be no partnership for development and beta testing.

Just a word, in general, to the SIG....

There are some VERY exciting developments taking place at Garmin that will have a profound effect on APRS operations if all goes as anticipated. I can divulge nothing further at this point so please don't ask. To say the least, if this project flies then APRS usage will literally EXPLODE!!!

Wait, watch and listen....
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

200. (no subject)

From: kirk@neptune.gsfc.nasa.gov (Bob Kirk)
Date: Tue, 8 Oct 1996 18:44:14 -0400
Message-ID: <199610082244.SAA26090@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

[Empty message body]

---

201. Re: [APRSSIG:5447] Travel to Annapolis

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 08 Oct 1996 18:43:20 -0400
To: aprssig@tapr.org
Cc: mark.endicott@nashville.com
Message-ID: <2.2.32.19961008224320.006ab668@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 18:57 10/7/96 -0500, mark.endicott@nashville.com wrote:
>I am going to be in Annaplolis for the Boat Show starting wednesday
>evening. Anybody got a list of 2mtr or 440 repeaters in the area. And
>should I take my mini personal tracker?

Mark... Try the Anne Arundel Radio Club at 147.105. Check in
on the morning commute net or weekend boating wx net at 11:00am
and 3:00pm. Welcome anytime. It's in Annapolis and covers the
DC & Baltimore areas.

The only decent 440 around is 442.300, also in Annapolis and
run jointly by the Maryland Mobileers & AARC. Good coverage
but not much activity.

By all means bring the tracker. Bob Bruninga's digi is on a 300'
Navy tower just across the Seern and you can pick it up with
the fillings in your teeth. Good APRS coverage; we'll be looking
for you at the boat show. (What's a Tennesseean doing near the
water?)

Cheers,
Bob Kirk
N3OZB

---

202. HSP Operation

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Tue, 08 Oct 1996 19:20:32
To: aprssig@tapr.org
Message-ID: <199610090020.UAA06954@mail-e2b.gnn.com>
Rendered body type: text/plain

I have a Garmin GPS20 connected to an MFJ 1270B with a Paccom HSP
switch all connected to a Toshiba notebook and an Alinco DR590.

I *think* I have set up the program correctly, but when it runs, I
get a message in the upper right hand corner that says "HSP PORT
TIMEOUT". Software is DOS APRS 7.7. What am I doing wrong?

John - N5XAK

---

203. Re: [APRSSIG:5470] Re: Travel to Annapolis

From: William Nolle <wa8inz@concentric.net>
Date: Tue, 08 Oct 1996 19:25:33 -0700
To: aprssig@tapr.org
Message-ID: <325B0D1D.2668@concentric.net>
Rendered body type: text/plain

Robert Kirk wrote:
>
> At 18:57 10/7/96 -0500, mark.endicott@nashville.com wrote:
> >I am going to be in Annaplolis for the Boat Show starting wednesday
> >evening. Anybody got a list of 2mtr or 440 repeaters in the area. And
> >should I take my mini personal tracker?
>
> Mark... Try the Anne Arundel Radio Club at 147.105. Check in
> on the morning commute net or weekend boating wx net at 11:00am
> and 3:00pm. Welcome anytime. It's in Annapolis and covers the
> DC & Baltimore areas.
>
> The only decent 440 around is 442.300, also in Annapolis and
> run jointly by the Maryland Mobileers & AARC. Good coverage
> but not much activity.
>(What's a Tennesseean doing near the water?)

```
>
> Cheers,
> Bob Kirk
> N3OZB

Who Who Bob, them are fighting words! Hi.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

204. Re: [APRSSIG:5452] Re: DGPS and ANNAPOLIS WIDE!

From: Lyle Johnson <lylej@azstarnet.com>
Date: Tue, 8 Oct 1996 18:54:58 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961008185500.003793b4@pop.azstarnet.com>
Rendered body type: text/plain

```
Ron,, Tom,

This is very interesting to me.

>A second delay will add at around 5 meters of error.

Somewhere (don't you love that reference?) I read that the acceleration of
the rate of error from a GPS satellite was on the order of 1 cm/sec/sec.  If
the differential correction message gives both the instantaneous offset and
its vector (rate), and if the accelration of the error rate is limited to 1
cm/sec/sec, then a 1 second delay shouldn't result in 5 meters of error.

I'm probably misinformed.  I'd really like to underatnad the worst case
ratea and accelrations to see how the 5 meter error is inferred for 1 second
delay.

Thanks for any help you can provide for me.

Cheers,

Lyle
```

---

205. Re: [APRSSIG:5466] Re: Garmin45 problem

From: "Craig A. Green" <stauros@onramp.net>
Date: Tue, 8 Oct 1996 22:35:31 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199610090335.WAA10330@mailhost.onramp.net>
Rendered body type: text/plain

```
At 04:38 PM 10/8/96 -0500, you wrote:
>Richard,
>Unfortunately you don't have a uniquely bad Garmin45.  I purchased one over
>the weekend, and after a few days of testing, and discussions with Garmin
>Tech support, I have concluded that the product is totally unsuitable for
>use with APRS.
>
>I am going to try tha Magellan next.

>>Thanks for any info.
>>Richard  N7Rig
>>
>>DELETIA
>>
>----------  Worldwide leaders in Real Time DGPS-----------------------------
>Ronald P. Haley                                PH:     +1-408-446-8350
>President and C.E.O.                   Fax:    +1-408-446-8383
>Differential Corrections Inc           E-Mail: ronhaley@dgps.com
>10121 Miller Ave                       Web:    http://www.dgps.com
>Cupertino, CA 95014
>---------------------------------------------------------------------------
I have been very pleased with my Magellan 3000. It performs flawlessly
either on the dashboard under the windshield or with an external actice
antenna. They stream the
$GPRMC statement (NMEA 0183B option) and don't have the reset and other
```

quirky problems that seem to beset the GARMIN 45. Magellan 4000 is a newer
model with newer
firmware and data options. Very affordable.

```
*********************************************************************
"Yes, that's a tornado!!!!" <><><><> "God does not play at dice with
 Spousal and chase partner  <><><><>  the universe!" Albert Einstein
 9May93 HP Supercell        <><><><> "But sometimes HE throws them
 Rockwall County Texas      <><><><>  where nobody can see them."
                                        Stephen Hawking
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
 <><><><><><><><><><My opinions are my own!!!!><><><><><><><><><><><>
   \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\|///////////////////////////////
  Craig A. Green N5WEH   stauros@onramp.net  HAM President 1996-97
                         cgreen@pagemart.com
                     Project Manager PCS Implementation
                             PageMart Inc.
*********************************************************************
```

---

206. Re: [APRSSIG:5468] Re: Garmin45 problem

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Wed, 09 Oct 1996 00:10:13 -0400
To: aprssig@tapr.org
Message-ID: <325B25A5.79CE@cyberstreet.com>
Rendered body type: text/plain

James Duncan wrote:

> Just a comment regarding the Garmin GPS-45 that was just slam-hammered.
> Are there problems? Yes. Are they because the receiver is not any good?
> No. I would say that the person that just posted this message has gotten a
> faulty unit and should return it post haste to the place he got it for a
> replacement.
>
> I have been using the 45 for six months now in a mobile environment. I have
> experienced some of the quirks but they are by no means COMMON occurences.
> They are minor bugs that I am sure will be cleared up.
>
> It is my understanding that the 45 is an eight CHANNEL receivers not a
> single channel unit. I may be wrong here but I've got some very tight
> relationships with Garmin these days. (See the KCAWG Web Site @
> http://home.sprynet.com/sprynet/ku0g for information)
>
> I'm not a Garmin employee and have no interest in promoting their product(s)
> but to say that it is totally useless for APRS is absolutely ridiculous.
> These are fine receivers and we have to remember that these are NOT military
> or aviation units but general consumer units.
>
> Garmin fully supports APRS operations. We ARE a priority to Garmin. If it
> were NOT so then the Kansas City APRS Working Group would NOT have units
> consigned to it by Garmin for public service work and there would be no
> partnership for development and beta testing.
>
> Just a word, in general, to the SIG....
>
> There are some VERY exciting developments taking place at Garmin that will
> have a profound effect on APRS operations if all goes as anticipated. I can
> divulge nothing further at this point so please don't ask. To say the
> least, if this project flies then APRS usage will literally EXPLODE!!!
>
> Wait, watch and listen....
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@sprynet.com

You scoundrel! Now I'll get no sleep - wondering, wondering.....ron

---

207. NIAN hasn't moved!

From: henryvb <henryvb@dpliv.com>
Date: Tue, 08 Oct 1996 23:03:08 -0500
To: aprssig@tapr.org
Message-ID: <325B23FC.665A@dpliv.com>
Rendered body type: text/plain

On Mon, 7 Oct 1996 20:20:01 -0700 Jim Duncan queried of N9VJQ:

> Is this the NEW NIAN web site, Barry? The link I had no longer responds.
> The servers sez no such page at this address for what I had before...

>
Every once in a while that server gets stoopid, but we're still at:

http://tbcnet.com/~davidc/aprs.html

Henry
N9WMM
NIAN's Official Button Maker and Note Taker

---

208. Kansas City APRS Working Group on the Web!

From: James Duncan <ku0g@sprynet.com>
Date: Tue, 8 Oct 1996 21:15:52 -0700
To: APRSSIG@tapr.org
Cc: APRSFL@tapr.org
Message-ID: <199610090415.VAA03281@m1.sprynet.com>
Rendered body type: text/plain

The Kansas City APRS Working Group's Home Page on the WorldWide Web has moved! Please make note of the NEW url and change your bookmarks or homepage reference links accordingly!!!

The new URL is:

http://www.kcaprs.org

The old URL (http://home.sprynet.com/sprynet/ku0g) will continue to respond to page hits through the end of October to allow time to change links, etc.

Special Note to all KCAWG members: Every KCAWG member will be assigned an EMail address with the domain name of @kcaprs.org in the near future! Those who do NOT have Internet accounts set up will soon be able to register for a special dial-up EMail/Internet account through our server!

KCAWG: Growing at the Speed of Light!

Wanna be one of us? Send check/money order for $25.00 (annual dues) made payable to KCAWG to:

KC APRS Working Group
c/o Bill Young, KB0UZQ
P. O. Box 445
Platte City, MO 64079

To subscribe to PING, the KCAWG Monthly Newsletter, without joining KCAWG send payment of $13.00... Your subscription will start with the current month's issue...
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

209. AZ DosAPRS Maps

From: David & Roxanne McCarthy <davidmc@goodnet.com>
Date: Tue, 08 Oct 1996 21:19:42 -0700
To: aprssig@tapr.org
Message-ID: <325B27DE.6BA6@goodnet.com>
Rendered body type: text/plain

Does anybody have a set of maps for Arizona or know of a location to retrieve them for DosAPRS. DosAPRS only comes with USASwest and does not have a lot of detail. I have a map set for Win/Mac. I am trying to evaluate which version to register for and want to compare.

ANy help will be appreciated.

David, KC7AYX
davidmc@goodnet.com

---

210. Re: [APRSSIG:5041] Shirts

From: Ron Reeves <reeves@christenson.com>
Date: Tue, 08 Oct 1996 21:40:14 -0700
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961009044014.0066c9ec@hevanet.com>
Rendered body type: text/plain

At 07:38 PM 9/23/96 -0500, you wrote:
>All remaining shirts are being picked up and sent tomorrow night.
>You should all have your shirts by the end of the week.
>

>I actually broke even !!
>
>I have several XXL shirts that are still available if anyone is interested.
>
>If I get alot more orders I will make another run of them.
>73 Mike
>KD4EMI@AOL.COM
>
>
Has anyone received their shirts in the mail?? I ordered 4 and have
received none.
I tried to contact Mike direct but my e-mail was returned from aol.
"The mail you sent could not be delivered to:
550 kd4emi@aol.com is not a known user"

Did they go out or not??
Mike, if you have a new address please contact me direct at
reeves@christenson.com

Ron
N7QXO
reeves@christenson.com
Make it idiot-proof and someone will make a better idiot.

211. Re: [APRSSIG:5467] Re: Garmin45 problem

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Tue, 08 Oct 1996 16:50:23 +0100
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961008165015.00971b10@dgps.com>
Rendered body type: text/plain

Randy,
Which Trimble antenna did you purchase???
At 05:45 PM 10/8/96 -0500, you wrote:
>On Oct 8, 4:40pm, Ronald P. Haley wrote:
>> Subject: [APRSSIG:5466] Re: Garmin45 problem
>> Richard,
>> Unfortunately you don't have a uniquely bad Garmin45. I purchased one over
>> the weekend, and after a few days of testing, and discussions with Garmin
>> Tech support, I have concluded that the product is totally unsuitable for
>> use with APRS.
>> First, it is a single channel receiver, and multiplexes between up to 8
>> satellites. Unfortunately, any sort of tree coverage causes it to lose
>> lock on all the satellites.
>> Second, reacquisation after losing lock when you are mobile is problamatic.
>> I have had three scenarios;
>> a)   Message Poor Coverage followed by the unit turning   itself off.
>> b)   Message Turn unit off to reinitialize
>> c)   Unit locked up
>> Not once have I had the unit re-acquire satellites by itself in a mobile
>> environment after it has lost them all.
>> If anyone else has had similar problems. or has a solution let me know.
>> Garman technical support wasn't able to help with c) above. However they
>> think that a) and b) are normal. Unworkable in an APRS or in almost any
>> environment.
>
>Can't say I've ever experienced what you are describing, even before
purchasing
>the Trimble antenna from Paccom. After purchsing the Trimble antenna, I was
>able to use my Garmin 45 for trail mapping in DENSE East Coast forest cover.
> Never once did I get a "Poor GPS Coverage" message or have the unit fail to
>lock on the birds while horseback riding through the forests (Trimble antenna
>mounted on top of my riding helmet). Before purchasing the Trimble
antenna, I
>used a Radio Shack window mount to remotely mount my Garmin stick antenna
>outside of the truck and without any amplification, never experienced such
>problems as being unable to lock onto the birds but it would give an
occasional
>Poor GPS Coverage message due to poor signal strength.
>
>> I am going to try tha Magellan next.
>
>If you want a consumer grade parallel receiver, go for the Eagle AccuNav. I
>beleive that the Magellans are no better than the Garmin.
>
>> ---------- Worldwide leaders in Real Time
DGPS-----------------------------
>> Ronald P. Haley   PH: +1-408-446-8350

```
>> President and C.E.O.                Fax:    +1-408-446-8383
>> Differential Corrections Inc        E-Mail: ronhaley@dgps.com
>> 10121 Miller Ave                    Web:    http://www.dgps.com
>> Cupertino, CA 95014
>>
----------------------------------------------------------------------------
>>-- End of excerpt from Ronald P. Haley
>
>
>
>
>--
>Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
>EMail: hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
>Voice: +1-818-393-1214             |  M/S: 264-580
>Pager: +1-818-423-2062             |  PASADENA CA 91109
>
>
----------  Worldwide leaders in Real Time DGPS-----------------------------
Ronald P. Haley                        PH:     +1-408-446-8350
President and C.E.O.                   Fax:    +1-408-446-8383
Differential Corrections Inc           E-Mail: ronhaley@dgps.com
10121 Miller Ave                       Web:    http://www.dgps.com
Cupertino, CA 95014
----------------------------------------------------------------------------
```

---

212. Re: [APRSSIG:5459] Aprs: Ultimeter

From: "Don Murray" <james-m@ix.netcom.com>
Date: Tue, 8 Oct 1996 15:06:10 -0400
To: <aprssig@tapr.org>
Message-ID: <199610090559.WAA03837@dfw-ix11.ix.netcom.com>
Rendered body type: text/plain

```
Robert I have the ultimeter 2000 and use it with APRS.  I had problems
getting my system up and running as I did not set the WX station to the
correct mode of operation.   Be sure you set your Ultimeter to the data
logging mode..  Instructions page 40 if you are using a Ultimeter 2k.

Hope this helps..
Don



----------
> From: Robert B Stewart <oscar24@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5459] Aprs: Ultimeter
> Date: Tuesday, October 08, 1996 4:45 AM
>
> After reviewing the documentation I still do not understand how to setup
> the aprs system with the weather station.  Currently I am using version
> 77b of your program.  Do you have available to the novice user any
> documentation that would explain how to set up and run your aprs system
> as a weather station.  I have registered copy as well as a registration
> for GPS and WX.  Any help in this area would be greatly appreciate.
>
> Sincerely,
> Bruce Stewart, N9GKE
> 5 Adina Place
> Lafayette, IN. 47905
>
```

---

213. Re: [APRSSIG:5464] 20m GATE& reports...

From: etjm@ECUA.NET.ec (teodoro jaramillo)
Date: Tue, 08 Oct 1996 19:13:59 -0500
To: aprssig@tapr.org
Message-ID: <9610090210.AA47500@ecua.net.ec>
Rendered body type: text/plain

```
Hello and  Bill and sig friends...

I will be delighted to place a  radio and  proper antena and  a kam+ at the
proper propagation periods to the west coast ,looking for the action on
your  GATE. Will pass on any kind of
QRM ( PRETTY  BAD  ON HIGH POWER HIGH SPEED 1200 BAUD ( MEXICO'S) AROUND
THOSE FREQS. WILL CHECK AND ANALYZE THE QRG QNR IT'S AFFECTING PARAMETERS... .
GATE to grow to relay  down south  I have already lined up with
Peru's  OA8AAJ in Amazon  Region he will also glad to set up his
GATE..... so  depending how your and other system appear we will
join anytime to  do  GATE from Ecuatorial geographical area.
```

I will ge using 5 element yaggi 90 ft.   icom 765 and kam+
 AND OF COURSE aprs SOFT.
FOR SURE 20METER WILL BE MUCH BETTER FOR THIS PART OF THW WORLD
 than the   30 meter even with good antennas some limited coverage and
propagation, but enough action to learn and enjoy
gps and weather tracking down here so fdar G R E A T .

bEST 73'S
TED HC5K
APRS GPS SOON WILL HAVE LIVE WX....
>G'day SIG.
> In response to Mike (AC6JA) inquiry re; a 20m GATE, I will begin
operating a GATE on
>14.098 Mhz "MARK" TNC is a KAM+. Perameters are; MARK 2125, SPACE 2295,
SHIFT 170 and
>I'll be using the ALIAS of TUNE1. Rig will be a TS-450s/AT with the TCXO
high stability
>oscillator, and I'll be using a filter with a bandpass of 500 Hz. Antenna
will be a 2
>element Quad at 50'. Power will vary from 85W to 1500W. Station location
is; 37.43.30N X
>122.10.48W.
>
>Please address your comments to:
>kb6lfm@ix.netcom.com KB6LFM@W6PW.#NOCAL.CA.USA.NOAM
>Signal reports with DATE & TIME HEARD (in UTC please) are welcome.
>
>Cheers. Bill
>
>
>

214. GPS45XL Batteries and Power Supply.

From: "DENNIS JAMES" <denniswj@aljan.com.au>
Date: Wed, 9 Oct 1996 18:31:32 +1000
To: "Aprs Group" <aprssig@tapr.org>
Message-ID: <199610090833.SAA26385@orion.aljan.com.au>
Rendered body type: text/plain

Can anyone tell me if you can connect a power supply to the GPS unit with
batteries in it, just want to confirm thats all.

Dennis
Scone Australia
The Horse Capital of Australia
VK2DOR KO-23 UO-22 KO-25
GRID QF57KX
denniswj@aljan.com.au

215. Re: [APRSSIG:5474] Re: Garmin45 problem

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Wed, 9 Oct 1996 07:25:41 -0400
To: aprssig@tapr.org
Message-ID: <199610091125.GAA26818@tapr.org>
Rendered body type: text/plain

Too many quoted replys to say WHO wrote this drivel . . .

> >Richard,
> >Unfortunately you don't have a uniquely bad Garmin45. I purchased
> >one over the weekend, and after a few days of testing, and
> >discussions with Garmin Tech support, I have concluded that the
> >product is totally unsuitable for use with APRS.

BUT who ever it was is off base.. that is all that is used here and
NONE of the problems listed present themselves here. UNLESS THE
INTERNAL BATTERIES ARE WEAK OR DEAD! THEN all bets are off!!

Sam.

216. Re: [APRSSIG:5484] Re: Garmin45 problem

From: "Larry P. Thomas WAOGWA" <lpthomas@winning-edge.com>
Date: Wed, 09 Oct 1996 07:11:51 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961009121151.006a85d4@winning-edge.com>
Rendered body type: text/plain

```
At 06:34 AM 10/9/96 -0500, you wrote:
>Too many quoted replys to say WHO wrote this drivel . . .
>
>> >Richard,
>> >Unfortunately you don't have a uniquely bad Garmin45.  I purchased
>> >one over the weekend, and after a few days of testing, and
>> >discussions with Garmin Tech support, I have concluded that the
>> >product is totally unsuitable for use with APRS.
>
>BUT who ever it was is off base..  that is all that is used here and
>NONE of the problems listed present themselves here.  UNLESS THE
>INTERNAL BATTERIES ARE WEAK OR DEAD!  THEN all bets are off!!

I have to agree also, I used a Garmin45XL on a recent trip from KC to San
Francisco and it worded without flaw ... on rare occasion in the mountains
on hills of SF it would report poor GPS or lose site of enought sat's to
work but was using on the dash of the car with no outside antenna.  I didn't
even bother to keep the antenna vertical most of the time ... was always
moving to apply pressure to windshield to stop it from vibrating due to a
poor mount arrangement.
---------------------------------------------------------------------------
 Larry P. Thomas wa0gwa                 voice : 1 913 888-0282
 Krell Technologies                       fax : 1 913 782-9359
 8960 Bond                              pager : 1 816 989-HELP
 Overland Park, KS 66214-1764           e-mail : lpthomas@winning-edge.com
---------------------------------------------------------------------------
```

217. Re: Garmin 45 problem

From: Bill Northup <northup@sw.stratus.com>
Date: Wed, 9 Oct 1996 10:05:44 -0400 (EDT)
To: aprssig@tapr.org
Cc: northup@sw.stratus.com (Bill Northup)
Message-ID: <199610091405.KAA02259@blackdog.sw.stratus.com>
Rendered body type: text/plain

```
How is the GPS set up? Is it still in power saving mode (the way it comes from
the factory)? If so one of the ways that they save power is if it looses all
of the sat's it will not try to reaquire them until it unit is powered down.
If you turn power saver off it will work as desired.

        Bill
```

218. Re: [APRSSIG:5480] Re: Garmin45 problem

From: "Randy Hammock" <hammock@wired.jpl.nasa.gov>
Date: Wed, 9 Oct 1996 09:30:26 -0700
To: aprssig@tapr.org
Message-ID: <9610090930.ZM433@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
On Oct 9, 12:11am, Ronald P. Haley wrote:
> Subject: [APRSSIG:5480] Re: Garmin45 problem
> Randy,
> Which Trimble antenna did you purchase???
> -----------------------------------------------------------------------------
>-- End of excerpt from Ronald P. Haley
I don't know the model number, perhaps Gwyn Reedy can help with that, but the
antenna is small, about 1.25 inch square by about .3 inches tall.  It is
purported to have 36 db gain.  I had to replace the ,I think, SMB connector
with a BNC connector.  The antenna cost $50 from Paccom (which is a special
price to ham operators, basically their cost).

I just thought of something, I have heard that some people have exprienced bad
connections in the antenna that comes with the Garmin.  Apparently the center
pin of the antenna connector can twist loose inside of the antenna.

Hope this helps.


--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
EMail: hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

219. Re: [APRSSIG:5486] Re: Garmin 45 problem

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 09 Oct 1996 08:48:26 +0100
To: aprssig@tapr.org

Message-ID: <3.0b28.32.19961009084820.0097d420@dgps.com>
Rendered body type: text/enriched

Bill,

It was operating in normal mode, <bold><italic><underline>with full batteries</underline></italic></bold>. I changed them to make sure that was not the problem. I returned the unit yesterday for another, and added an external antenna. Hard to tell which of these fixed the problem, as it has lots of satellites. Garmin technical support confirms that

We are in the GPS business we see lots of GPS receivers, and this is the first receiver I have ever seen that can't reacquire after losing lock due to coverage. I believe that any receiver that requires user intervention to reset the receiver is next to useless for APRS. For those who don't think these problems exist let me quote from the manual. "If you have lost coverage and the unit has trouble reacquiring satellites, try shutting off the unit momentarily to reset the unit." Have you ever seen that in another manufacturers manual??? External antennas should help, as the situation will occur much less often.

At 09:14 AM 10/9/96 -0500, you wrote:

>How is the GPS set up? Is it still in power saving mode (the way it comes from

>the factory)? If so one of the ways that they save power is if it looses all

>of the sat's it will not try to reaquire them until it unit is powered down.

>If you turn power saver off it will work as desired.

>

>   Bill

>

>

---------- Worldwide leaders in Real Time DGPS-----------------------------

```
Ronald P. Haley                        PH:     +1-408-446-8350

President and C.E.O.                   Fax:    +1-408-446-8383

Differential Corrections Inc           E-Mail: ronhaley@dgps.com

10121 Miller Ave                       Web:    http://www.dgps.com

Cupertino, CA 95014
```

---

220. Re: [APRSSIG:5473] Re: DGPS and ANNAPOLIS WIDE!

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 09 Oct 1996 08:25:04 +0100
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961009082453.009593a0@dgps.com>
Rendered body type: text/plain

Hope I didn't say 1 second. 10 seconds adds around 1 meter, and its exponential after that. My estimate is that 20 seconds is around 5-7 meters. If the message delayed further, many GPS receivers will time out, as they have a time after which they consider the update to be old.
At 09:01 PM 10/8/96 -0500, you wrote:
>Ron,, Tom,
>
>This is very interesting to me.
>
>>A second delay will add at around 5 meters of error.
>
>Somewhere (don't you love that reference?) I read that the acceleration of
>the rate of error from a GPS satellite was on the order of 1 cm/sec/sec. If
>the differential correction message gives both the instantaneous offset and
>its vector (rate), and if the accelration of the error rate is limited to 1

>cm/sec/sec, then a 1 second delay shouldn't result in 5 meters of error.
>
>I'm probably misinformed. I'd really like to underatnad the worst case
>ratea and accelrations to see how the 5 meter error is inferred for 1 second
>delay.
>
>Thanks for any help you can provide for me.
>
>Cheers,
>
>Lyle
>
>
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Ronald P. Haley   PH: +1-408-446-8350
President and C.E.O.   Fax: +1-408-446-8383
Differential Corrections Inc   E-Mail: ronhaley@dgps.com
10121 Miller Ave   Web: http://www.dgps.com
Cupertino, CA 95014
----

221. Re: [APRSSIG:5486] Re: Garmin 45 problem

From: "Eric L. Martin" <elmartin@iamerica.net>
Date: Wed, 09 Oct 1996 11:22:55 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961009172255.0066712c@mailhost.iamerica.net>
Rendered body type: text/plain

At 09:14 AM 10/9/96 -0500, Bill Northup wrote:
>How is the GPS set up? Is it still in power saving mode (the way it comes from
>the factory)? If so one of the ways that they save power is if it looses all
>of the sat's it will not try to reaquire them until it unit is powered down.
>If you turn power saver off it will work as desired.

Is this the menu selection under OPERATIONS? There is a mode selection for
NORMAL and BATTERY SAVE, but mine is set to NORMAL and I've never changed it
before. Am I missing something else or is that it? Also, does anyone know
what the purpose is of pressing the 4 arrow buttons while the startup screen
is up? Someone told me it a diagnostic mode or something, but I'm not sure.

--
Eric L. Martin (KC5ENU)
elmartin@iamerica.net

222. Re: [APRSSIG:5449] RE: smallest gps/tnc

From: "Ronald P. Haley" <ronhaley@dgps.com>
Date: Wed, 09 Oct 1996 09:29:57 +0100
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961009092949.00984d70@dgps.com>
Rendered body type: text/plain

Will,
I 1 watt enough for APRS without an external antenna?
---------- Worldwide leaders in Real Time DGPS-----------------------------
Ronald P. Haley   PH: +1-408-446-8350
President and C.E.O.   Fax: +1-408-446-8383
Differential Corrections Inc   E-Mail: ronhaley@dgps.com
10121 Miller Ave   Web: http://www.dgps.com
Cupertino, CA 95014
----

223. Re: [APRSSIG:5485] Re: Garmin45 problem

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Wed, 9 Oct 1996 11:32:08 -0500
To: aprssig@tapr.org
Message-ID: <v03007800ae81759a0725@[138.87.2.109]>
Rendered body type: text/plain

Larry Thomas wa0gwa said:

>work but was using on the dash of the car with no outside antenna. I didn't
>even bother to keep the antenna vertical most of the time ... was always
>moving to apply pressure to windshield to stop it from vibrating due to a
>poor mount arrangement.

I put two pieces of velcro in my car. One set - on bottom of Garmin and on
top of steering column: other set - on back of Garmin and top edge of
speedometer lip.

This positions the antenna just above the dash board and the Garmin "sees"
horizon to straight overhead everywhere except what is shielded with the
roof. Sort of behind and up.

```
                          \
                           \
                            \  windshield is angled back more than this shows
       Garmin45 and ant      \          ( my windshield and side windows
               \              \           doesn't have a metalized coating )
                \              \
                  ||  __________\
                  ||*|    dash              * is velcro
                  ||  \
                  ||   |
            |_____**___|
            |__________ steering column
            |          |
        steering       |
          wheel
```

Note: I didn't pass art class during school. Pardon the illusion.

/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/

---

224. Re: [APRSSIG:5464] 20m GATE

From: Roger Breckon <n8chb@tir.com>
Date: Tue, 01 Jan 1980 19:26:20 -0800
To: aprssig@tapr.org
Message-ID: <12D027DC.345F@tir.com>
Rendered body type: text/plain

Hello Bill kb6lfm,

When r u going to do ur test?

Looking your way this morn I see several stations on 14.100 to 14.090
W8AKF BBS in Bloomington In is very strong wit sig 10 to 20 over rite
now.
XE and 1, 2 and 3 land from the back and side of my beam.
I hve been tuning for you but so far no results......
I hve a 20 mtr mono wit abt 100 watts in ur direction.
I'll set my beacon at every 30 sec near the freq u r on fer while and
see
if anyone hears me.

73

Roger n8chb in SE, Michigan
==

kb6lfm@ix.netcom.com wrote:
>
> G'day SIG.
>   In response to Mike (AC6JA) inquiry re; a 20m GATE, I will begin operating a GATE on
> 14.098 Mhz "MARK" TNC is a KAM+. Perameters are; MARK 2125, SPACE 2295, SHIFT 170 and
> I'll be using the ALIAS of TUNE1. Rig will be a TS-450s/AT with the TCXO high stability
> oscillator, and I'll be using a filter with a bandpass of 500 Hz. Antenna will be a 2
> element Quad at 50'. Power will vary from 85W to 1500W. Station location is; 37.43.30N X
> 122.10.48W.
>
> Please address your comments to:
> kb6lfm@ix.netcom.com KB6LFM@W6PW.#NOCAL.CA.USA.NOAM
> Signal reports with DATE & TIME HEARD (in UTC please) are welcome.
>
> Cheers. Bill

---

225. RE: [APRSSIG:5483] GPS45XL Batteries and Power Supply.

From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
Date: Wed, 9 Oct 1996 11:49:13 -0500 (CDT)
To: aprssig@tapr.org

Cc: CHEAD@exame2.dseg.ti.com
Message-ID: <961009114913.20417860@exame2.dseg.ti.com>
Rendered body type: text/plain

Don't know for sure about the XL version, but have been running my Garmin
GPS45 in the car with batteries installed and +12v vehicle power supplied
through the power/data cable for a year and a half. Works fine.

   73 Claude Head
      K5DTN
      exame2.dseg.ti.com

226. interface to DF for aprs

From: Ronald Armstrong <ronald.armstrong@sympatico.ca>
Date: Wed, 09 Oct 1996 12:54:23 -0700
To: aprssig@tapr.org
Message-ID: <325C02EF.1A1@sympatico.ca>
Rendered body type: text/plain

Is there anyone out there that have the interface for df to aprs from
N7LUE and is there a SIG for DFer

227. Re: [APRSSIG:5483] GPS45XL Batteries and Power Supply.

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Wed, 09 Oct 96 16:57:43 UTC
To: aprssig@tapr.org
Message-ID: <434@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Dennis -- yes, leave the batteries inside and connect the external power
The 45/45XL will draw power from the external power source, but the
batteries are available as an "UPS" (uninterruptable power source)
in case the external supply has glitches. The 45/45XL does not tolerate
power glitches very well and may have problems re-acquiring, so the
batteries do need to be insatlled.

73, Tom

228. Re: [APRSSIG:5483] Garmin GPS-Batteries and Power Supply.

From: kc5ejk@onramp.net (Robert Winingham)
Date: Wed, 9 Oct 1996 15:05:44 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae81bbfc7e4a@[199.1.11.103]>
Rendered body type: text/plain

>Can anyone tell me ...:

You can find the answers to most Garmin GPS questions in the FAQ
available at: ftp://sundae.triumf.ca/pub/peter/gps45faq.txt

The latest Garmin GPS 45/40/38 Frequently Asked Questions FAQ
Version 1.082 Aug 30, 1996

Over 150K of must read information for Garmin GPS users.

Section 4.00 covers
BATTERY/POWER:
-How is power selected between the internal batteries and the external supply?
-What voltages do the fuel gauge correspond to?
-Current consumption of a GPS 45 at different external supply input voltages?
-How does BatterySave mode work?
-Rechargeable batteries?
-Other battery/external power options?
-How long is memory conserved without batteries?
-Does the serial I/O consume much more power when it is enabled?

Section 5.00 covers:
SERIAL/POWER INTERFACE:
-External serial/power connector alternatives?
-How do I interface the GPS 45/40/38 to an IBM-PC compatible computer?
-How do I interface the GPS 45/40/38 to a Macintosh?

Garmin GPS 45/40/38 Frequently Asked Questions FAQ
Compiled by Lane A. Holdcroft

```
     http://www.eskimo.com/~klah/index.html
  or ftp://ftp.eskimo.com/u/k/klah/index.html
  or ftp to "ftp.eskimo.com", cd to "/u/k/klah"

If you can't FTP ask me in private e-mail and I will E-Mail you a copy.

For more general information not specific to the Garmin units, read the
general GPS FAQ maintained by Peter Bennett.  He also has a new NMEA FAQ.
They are both available on his ftp site which is the best single site on the
web for low cost GPS's.

   ftp://sundae.triumf.ca/pub/peter/index.html
  http:://vancouver-webpages.com/peter/index.html
   ftp://ftp-i2.informatik.rwth-aachen.de/pub/arnd/GPS/peter/index.html

For the best general GPS information read the  news:sci.geo.satellite-nav
news group.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

229. Re: [APRSSIG:5495] interface to DF for aprs

From: kj5hx@juno.com
Date: Wed, 9 Oct 1996 13:52:01 CST
To: aprssig@tapr.org
Message-ID: <19961009.135234.4591.1.kj5hx@juno.com>
Rendered body type: text/plain

```
I lost the message that tells how to unsubscribe to this org,could you
please tell me how to unsubscribe ... ED
```

230. Re: [APRSSIG:5478] AZ DosAPRS Maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 9 Oct 1996 17:17:16 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961009171517.28454C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 8 Oct 1996, David & Roxanne McCarthy wrote:

> Does anybody have a set of maps for Arizona or know of a location to
> retrieve them for DosAPRS.  DosAPRS only comes with USASwest and does
> not have a lot of detail. I have a map set for Win/Mac.  I am trying
> to evaluate which version to register for and want to compare.

APRSdos REPLY/COMMENT: APRSxx.zip only comes with the MAJOR maps but it is
always distributed to users including the Xmaps.zip for THEIR area.  You
should get Wmapsxx.zip or Cmapsxx.zip.  I cant remember if Arizona is in
the CENTRAL distribution or the WEST distribution...  I think West?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

231. Icom GP-22

From: Rob Swanson <rswanson@csinet.net>
Date: Wed, 09 Oct 1996 16:13:50 -0500
To: aprssig@tapr.org
Message-ID: <325C158E.61F8@csinet.net>
Rendered body type: text/plain

```
Does anyone have info on how to make a data cable to interface the Icom
GP-22 GPS reciever to a IBM PC?

Looking to use this unit with aprs once my Reg. comes back.

------
Rob   N9RVR
rswanson@csinet.net
```

232. Re: [APRSSIG:5445] smallest gps/tnc

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 9 Oct 1996 18:04:46 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610091737.A3434-0100000@bcfreenet.seflin.lib.fl.us>

Rendered body type: text/plain

You will, of course, have to worry about charging your batteries or, perhaps,
consider having a stash of batteries ready for you at predetermined
locations on your trip. My
GPS is way too large, a Garmin 75, but the smaller ones may be ok, such
as the Garmin 45. The radio will be a fairly weighty problem as well.

I have had problems with my TNC losing it's mind occasionally. It
required a computer to set the parameters each time. That would make the
weight problem really miserable if you couldn't make use of the stuff.

It sounds like a really nice trip.

Since most of the trip will be woods hiking, I believe, you will also
have to concern yourself with access to the sky. GPS units kind of like
to see the satellites directly without anything blocking the view such as
tree limbs and foliage. You may be able to get enough satellite view to
get an occasional good fix.

Good luck on your trip,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 7 Oct 1996, Charles W. Davidson wrote:

>   I plan on doing a Thru-hike of the Appalacian Trail next
> year. My APRS/GPS mobile is hoplessly too large to consider carrying
> on a six month hike. Whats the smallest, lightest gps/tnc available
> now? It shure would be neat to plot my 2000 mile hike from Georgia to
> Maine via APRS! My budget will probally not let me purchase such a
> system.   However I would still enjoy getting some more info.
>
>   Also for fellow map makers, the Trail was hiked with
> GPS this year. This weekend at Carlise, PA there is a Gathering of
> Long Distance Hikers. At this event I should meet the fellow that made
> this gps-hike and inquire about getting the data for us mapmakers.
>
> Charles
>
> cdavidso@neocomm.net
> http://www.neocomm.net/~cdavidso/
> WB4PAN@WB4QOJ.VA.USA.NOAM
> wb4pan@juno.com
> APRS ALDHA   ATC
> Georgia>97>Main   Chase
>

---

233. Something New!

From: kb6lfm@ix.netcom.com
Date: Wed, 09 Oct 1996 15:42:00 -0700
To: n8chb@tir.com
Cc: aprssig@tapr.org
Message-ID: <325C2A38.56D8@ix.netcom.com>
Rendered body type: text/plain

It's me again Roger.

  I'm aware of your QRM problems, and thank you for bringing them to my attention. This
is not going to be a test. I'm here on 20m APRS!

Problems that I can 4C are:

1. APRS on 20M is NEW, and people are slow on the up-take regarding ANYTHING NEW.
   It's our nature to reject change, and to be suspicious of "NEW"..! Takes time for us
  to accept new & change.

2. Criticism! Constructive is welcome, all others need not apply.

3. Frequency to use. I'm going to stay on 14.098.00Khz MARK until I get a "show cause"
 from the FCC. It doesn't matter where one moves to, an APRS presence on 20m is going
to P.O. someone. I have taken ALL POSSIBLE PRECAUTIONS to maintain as narrow a band
 width, and frequency stability as I can. I urge all concerned to use FSK and the
INTERNATIONAL STANDARD of MARK 2125 SPACE 2295 SHIFT 170 in there TNC's.
   I think it's time that APRS went "International". I'm working with Clarry (VK5ACP)
   in Adelaide, Australia, Ted (HC5K) In the Andes of Ecuador, and MATT (WT3C) who is
   the Radioman aboard the USCG Icebreaker "Polar Star" to get their Stations up!

If you, or anyone knows a station willing to try "Something New" by all means, let them know that APRS is on 20m now. I believe if we are going to be tracking Icebreakers, in Antarctica, or "VK" mobils crossing the Nullabor Plains of Australia or a caravan of Llamas in the Andes (Hi!) 20m IS the way to go.

So in closing, I want to thank you for GATEING your local VHF APRS'ers out here on the "Left Coast". And I hope that you can continue to act as a 20m APRS gate.

Cheers for now.
73 de Bill

---

234. 77b.zip

From: dougwe@ccintnet.wrq.com
Date: Wed, 09 Oct 96 16:20:00 PST
To: aprssig@tapr.org
Message-ID: <9609098449.AA844903727@ccintnet.wrq.com>
Rendered body type: text/plain

Seems that the 77b distribution zip file has disappeared from the tapr ftp server. Can someone repost it to the upload directory, please?

Thanks

Doug
KC7CO

---

235. GPS-75 lockup

From: Bob Derderian <n2iph@cyberenet.net>
Date: Wed, 09 Oct 1996 20:59:29 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <325C4A71.3102@cyberenet.net>
Rendered body type: text/plain

Hello all,

My GPS-75 must be monitoring this SIG, and decided that it was time for it to join in and have a little fun with me, 'cause it today for the first time operating mobile for almost two years was locked up (screen froze) when I came out of work to go home this AM.

I had to remove power from the unit to restart, couldn't shut down from the keypad. And when I restarted, surprise!, all stored information was gone! MY 150+ waypoints lost, along with routes and config params. I may have hit the button below the PWR key when I rebooted the unit, not sure.

Does anyone know what will happen if you press another (or any) key when powering up?

Is there a key sequence for clearing out the memory during reboot?

I seem to remember my GPS-75 going into a diagnostic mode of some sort once also, is there a key sequence to enter this mode. I remember the screen was showing an animated, expanding box with maybe a line of text in the center of the screen.

On the subject of batteries and mobile; I power my GPS-75 from the vehicle, and do not have the battery pack installed, it works just fine.

I use the Garmin GPS-26 antenna, mounted inside on the dash, and most times see 7 or 8 birds at S-5 or better. Prior to the GPS-26 antenna, I used the 'stick' antenna mounted to the windshield with a suction cup, stick-on cellphone mount from Radio Shack on the inside and this worked OK, but would loose lock if not parked with a good view of the southern sky or in heavily wooded areas while traveling.

Since moving to the GPS-26 antenna I have not had this problem, until today.

If anyone knows where I can find a list of key sequences for the GPS-75, I would like to know.

Thanks, Bob

---

236. Re: [APRSSIG:5503] 77b.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 9 Oct 1996 21:24:59 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961009212440.4476B-100000@arctic>
Rendered body type: text/plain

On Wed, 9 Oct 1996 dougwe@ccintnet.wrq.com wrote:

> Seems that the 77b distribution zip file has disappeared from the tapr ftp
> server. Can someone repost it to the upload directory, please?

APRSdos REPLY/COMMENT: Ill be uploadeing 77C tonight!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

237. Re: [APRSSIG:5503] 77b.zip

From: William Nolle <wa8inz@concentric.net>
Date: Wed, 09 Oct 1996 22:01:42 -0700
To: aprssig@tapr.org
Message-ID: <325C8336.2A86@concentric.net>
Rendered body type: text/plain

dougwe@ccintnet.wrq.com wrote:
>
> Seems that the 77b distribution zip file has disappeared from the tapr ftp
> server. Can someone repost it to the upload directory, please?
>
> Thanks
>
> Doug
> KC7CO

Gosh NOT AGAIN. Some new potential APRS user had deleted or rather corrupted the file that was there so i personally uploaded a fresh copy no more then 3 or 4 days ago. Someone must be deleting the file for some reason. I will upload it again if indeed it's missing.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

238. Re: [APRSSIG:5505] Re: 77b.zip

From: William Nolle <wa8inz@concentric.net>
Date: Wed, 09 Oct 1996 22:02:52 -0700
To: aprssig@tapr.org
Message-ID: <325C837C.12F3@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Wed, 9 Oct 1996 dougwe@ccintnet.wrq.com wrote:
>
> > Seems that the 77b distribution zip file has disappeared from the tapr ftp
> > server. Can someone repost it to the upload directory, please?
>
> APRSdos REPLY/COMMENT: Ill be uploadeing 77C tonight!
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Ok Ok disregard my other message then Hi.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

239. Re: [APRSSIG:5477] Kansas City APRS Working Group on the Web!

From: James Duncan <ku0g@sprynet.com>
Date: Wed, 9 Oct 1996 20:04:23 -0700
To: aprssig@tapr.org
Message-ID: <199610100304.UAA00438@m1.sprynet.com>
Rendered body type: text/plain

```
Just a note.....It would appear that the site isn't truly 100% yet.  Have
had several reports of "not able to access" the new URL today.  We're
working on it, please be patient....

Thanks, de Jim, KU0G


At 23:37 10/8/96 -0500, you wrote:
>The Kansas City APRS Working Group's Home Page on the WorldWide Web has
>moved!  Please make note of the NEW url and change your bookmarks or
>homepage reference links accordingly!!!
>
>The new URL is:
>
>http://www.kcaprs.org
>
>The old URL (http://home.sprynet.com/sprynet/ku0g) will continue to respond
>to page hits  through the end of October to allow time to change links, etc.
>
>Special Note to all KCAWG members:  Every KCAWG member will be assigned an
>EMail address with the domain name of @kcaprs.org in the near future!  Those
>who do NOT have Internet accounts set up will soon be able to register for a
>special dial-up EMail/Internet account through our server!
>
>KCAWG:  Growing at the Speed of Light!
>
>Wanna be one of us?  Send check/money order for $25.00 (annual dues) made
>payable to KCAWG to:
>
>KC APRS Working Group
>c/o Bill Young, KB0UZQ
>P. O. Box 445
>Platte City, MO  64079
>
>To subscribe to PING, the KCAWG Monthly Newsletter, without joining KCAWG
>send payment of $13.00...  Your subscription will start with the current
>month's issue...
>73 de Jim, KU0G
>Chairman/Coordinator
>Kansas City APRS Working Group
>EMail:  ku0g@sprynet.com
>
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

240. analog interface

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Wed, 9 Oct 1996 20:08:19 -0800
To: aprssig@tapr.org
Message-ID: <199610100308.UAA21116@franc.ucdavis.edu>
Rendered body type: text/plain

```
Hi all,
   Well, I guess I want to ask how you people feel about a generic analog
interface in APRS that could monitor either weather or anything else you
can provide an instrument for. This would allow the development of many
types of monitoring nets such as radiation level, seismic motion, etc. I'm
sure suitable instruments could be obtained to make a weather station this
way.
   Will Clement maker of the APRS MIM has said it would be relatively easy
to produce the hardware using a microcontroller like the MIM is based on.
Alternatively there are numerous existing serial analog to digital
converters that could be used. Of course software support for the chosen
device would be needed.
   As with any development project, it all depends on how many people would
use the thing. There are currently a number of commercial devices supported
by APRS including several different weather stations. They are all specific
purpose devices. One generic device would allow unlimited development of
monitoring systems without further software support being added to the
programs. Seems like a good idea to me as it would let people experiment
```

and develop systems without bothering the software authors for still
another specific support package.
   Of course this will not happen if very few people are interested, as it
wouldn't be worth the trouble. Opinions?

John Lakeland kc6vlr

241. Re: [APRSSIG:5508] Re: Kansas City APRS Working Group on the Web!

From: "Larry P. Thomas WAOGWA" <lpthomas@winning-edge.com>
Date: Thu, 10 Oct 1996 07:01:54 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961010120154.00696000@winning-edge.com>
Rendered body type: text/plain

```
At 10:28 PM 10/9/96 -0500, you wrote:
>Just a note.....It would appear that the site isn't truly 100% yet.  Have
>had several reports of "not able to access" the new URL today.  We're
>working on it, please be patient....
>
>Thanks, de Jim, KU0G

I'm hosting the new site so I I'd like to comment! A few weeks ago my
original ISP was bought out my my current ISP.  This was a very good deal as
the new ISP is a couple orders of magnitude better than the original one.
Just as luck would have it, my new ISP decided to rework his routing tables
the day Jim Duncan (sorry Jim) announced the new site http://www.kcaprs.org
was up.  In the process I lost routing for 3/4 of the day. Needless to say
it did not make any of my paying customers happy either. Hopefully the
situation has been fixed and we should be remain up except for minor down
times to work on it. My new ISP just had a fiber optic multiplexer installed
and has moved all his digital lines to the fiber, this required a little
rerouting of his Cisco 7000. He also decided to move some ISDN lines to a
dedicated Max Ascend box ... the net (no pun intended) result was a little
glitch in routing which affected mostly me (or us!)

Later,
Larry

---------------------------------------------------------------------------
 Larry P. Thomas wa0gwa                 voice : 1 913 888-0282
 Krell Technologies                       fax : 1 913 782-9359
 8960 Bond                              pager : 1 816 989-HELP
 Overland Park, KS 66214-1764           e-mail : lpthomas@winning-edge.com
---------------------------------------------------------------------------
```

242. Re: [APRSSIG:5487] Trimble GPS antenna

From: jkozak@erols.com (John W. Kozak)
Date: Thu, 10 Oct 1996 08:23:40 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199610101223.IAA08433@smtp1.erols.com>
Rendered body type: text/plain

```
>> Which Trimble antenna did you purchase???

>The antenna cost $50 from Paccom (which is a special
>price to ham operators, basically their cost).


Anyone have a phone number for Paccom to order this antenna??
```

243. FW: [APRSSIG:5511] Re: Trimble GPS antenna

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 10 Oct 1996 09:58:45 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBB691.A0FD7960@gwyn.paccomm.com>
Rendered body type: text/plain

```
800-486-7388 or sales@paccomm.com  or  fax 813-872-8696.

Note: Introductory price of $50 no longer in effect. Price now $65 plus
shipping, but it is still one of the best antennas and best deals around.

----------
From:   John W. Kozak[SMTP:jkozak@erols.com]
Sent:   Thursday, October 10, 1996 3:47 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:5511] Re: Trimble GPS antenna
```

```
>> Which Trimble antenna did you purchase???

>The antenna cost $50 from Paccom (which is a special
>price to ham operators, basically their cost).


Anyone have a phone number for Paccom to order this antenna??
```

---

244. Re: [APRSSIG:5511] Re: Trimble GPS antenna

From: William Nolle <wa8inz@concentric.net>
Date: Thu, 10 Oct 1996 09:50:02 -0700
To: aprssig@tapr.org
Message-ID: <325D293A.348@concentric.net>
Rendered body type: text/plain

```
John W. Kozak wrote:
>
> >> Which Trimble antenna did you purchase???
>
> >The antenna cost $50 from Paccom (which is a special
> >price to ham operators, basically their cost).
>
> Anyone have a phone number for Paccom to order this antenna??

Their Toll Free order line = 800-486-7388 (Orders only).
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

245. Re: [APRSSIG:5511] Re: Trimble GPS antenna

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Thu, 10 Oct 1996 10:55:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961010105429.289f3c5e@mosquito.com>
Rendered body type: text/plain

```
At 07:47 10/10/96 -0500, you wrote:
>>> Which Trimble antenna did you purchase???
>
>>The antenna cost $50 from Paccom (which is a special
>>price to ham operators, basically their cost).
>
>
>Anyone have a phone number for Paccom to order this antenna??
>
>

PacComm's order-only number is 800-486-7388 and the Trimble active GPS
antennas that USED to be $50 are now $65 + shipping.  They are not in stock
right now but will be in about a week. I just ordered 2 more... they work
beautifully with my Garmin GPS-45.  I plan to use then with 2 GPS-20's I
ordered from TAPR for standalone trackers.

 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

---

246. Re: interface to DF for aprs

From: n8chb@juno.com (Roger Breckon)
Date: Wed, 2 Jan 1980 17:47:28 PST
To: aprssig@tapr.org
Message-ID: <19800102.174729.6318.0.n8chb@juno.com>
Rendered body type: text/plain

```
U can't!
Your stuck here forever.
I been trying to remove this listing from my sever for months.
I have tried every way I know and also my server.
Both attempts have failed.
The server I use has changed mailers and tapr's computer
will not respond unless it sees the exact original subscribe
statement line.
```

help my Del finger is abt to fall off!!!!!!

73

Roger
===
On Wed, 9 Oct 1996 16:18:39 -0500 (CDT) kj5hx@juno.com writes:
>I lost the message that tells how to unsubscribe to this org,could you
>please tell me how to unsubscribe ... ED
>
>

---

247. Re: [APRSSIG:5509] analog interface

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 10 Oct 1996 11:15:34 -0400
To: aprssig@tapr.org
Message-ID: <325D1316.4CB4@cyberenet.net>
Rendered body type: text/plain

I would like to see it (generic analog and/or digital interface).

Perhaps the easiest thing everyone could add would be temperature to their site, using a thermocouple (we're talking mV levels now). It's fairly easy to get or create a T/C (thermocouple). Should be able to get T/C wire at most electricial shops, and the tables for the various T/Cs are easily obtainable which give the temp/mV relationship for its (the T/C's) range. To cal a T/C quick and easy you can just dunk it in a bath of ice/water, ice and water only exist at one temperature, 0 Celceis (or 32 deg. F). A couple lines of code in APRS would let you cal your T/C and your all set to report your local temps across the network.

I haven't browsed the docs the MIM module or about the telemetery screens, so don't know if there is any info there that would be of help.

73...Bob

NNNN

---

248. Re: [APRSSIG:5509] analog interface

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 10 Oct 1996 11:37:52 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961010104228.12395A-100000@arctic>
Rendered body type: text/plain

On Wed, 9 Oct 1996, John Lakeland wrote:

> Hi all,
>   Well, I guess I want to ask how you people feel about a generic analog
> interface in APRS that could monitor either weather or anything else you
> can provide an instrument for....
>   Will Clement maker of the APRS MIM has said it would be relatively easy
> to produce the hardware using a microcontroller like the MIM is based on.

APRSdos REPLY/COMMENT: I must be missing something. THe MIM is exactly what you are specifiying AS IS. It is a 5 ANALOG channel and 8 digital bit INPUT deivce that outputs APRS packets. What is it that this cannot do?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

249. Re: [APRSSIG:5514] Re: Trimble GPS antenna

From: "William E. Ott" <weo@pinkcactus.com>
Date: Thu, 10 Oct 1996 11:58:44 -0400
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.32.19961010155844.006d46f0@mindspring.com>
Rendered body type: text/plain

How do these Trimble GPS antennas mount?   Magnetic, suction, pole?   Thanks

At 09:58 AM 10/10/96 -0500, Boyd Prestwood wrote:
>At 07:47 10/10/96 -0500, you wrote:
>>>> Which Trimble antenna did you purchase???
>>
>>>The antenna cost $50 from Paccom (which is a special
>>>price to ham operators, basically their cost).

```
>>
>>
>>Anyone have a phone number for Paccom to order this antenna??
>>
>>
>
>PacComm's order-only number is 800-486-7388 and the Trimble active GPS
>antennas that USED to be $50 are now $65 + shipping.  They are not in stock
>right now but will be in about a week. I just ordered 2 more... they work
>beautifully with my Garmin GPS-45.  I plan to use then with 2 GPS-20's I
>ordered from TAPR for standalone trackers.
>
> Have fun es 73 de Boyd
> w2hob@mosquito.com
>
>
>


                                William E. Ott

          PinkCactus DotCom / Carolina PC Support / Durham County EMS
                              weo@pinkcactus.com
                              weo@acpub.duke.edu
                             weo@ral.mindspring.com
                         RSA/PGP Public Key = 0x4599B337
           Fax   : 919-380-9385                  Voice : 919-467-5940
```

---

250. [APRSSIG:5515] Re: interface to DF for aprs

From: dpage@cvp.ti.com (Doug Page)
Date: Thu, 10 Oct 96 11:22:44 CDT
To: aprssig@tapr.org
Cc: w-page@ti.com
Message-ID: <9610101622.AA21054@cvpsun174.cvp.ti.com>
Rendered body type: text/plain

```
Ditto!

I have a double problem in that we not only have moved DNS domains but
are also behind a firewall which creates its own set of problems.  It
won't even allow me to change the characteristics so that I only get a
single (large) message per day.

I have also been sent e-mail telling me that I had been removed from the
list, but 6 months later I am still receiving the list.

I have been on the Internet for 10 years and this is the first mailing
list that I have been associated with that is so picky about statement
lines yet does not have a reliable workaround for those cases when the
world changes for a subscriber as it has with Roger and myself.

MTES,

73

Doug,  KC5RRZ

Roger Breckon said:
>
>U can't!
>Your stuck here forever.
>I been trying to remove this listing from my sever for months.
>I have tried every way I know and also my server.
>Both attempts have failed.
>The server I use has changed mailers and tapr's computer
>will not respond unless it sees the exact original subscribe
>statement line.
>
>help my Del finger is abt to fall off!!!!!!
>
>73
>
>Roger
>=======================================================
>On Wed, 9 Oct 1996 16:18:39 -0500 (CDT) kj5hx@juno.com writes:
>>I lost the message that tells how to unsubscribe to this org,could you
>>please tell me how to unsubscribe ... ED
>>
>>
```

251. Re: [APRSSIG:5509] analog interface

From: SWeigold@aol.com
Date: Thu, 10 Oct 1996 15:24:17 -0400
To: aprssig@tapr.org
Message-ID: <961010152415_1413305531@emout02.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-10-10 00:56:07 EDT, you write:

>    Of course this will not happen if very few people are interested, as it
>  wouldn't be worth the trouble. Opinions?
>
>  John Lakeland kc6vlr
>
>

John,

Funny you should mention it.. but I am very interested.  I have even been
kicking around a design or two.. but was wondering about things like
copyright infringement.  I have even been discussing it with another member
of this SIG.  Nice to see that there are others interested.

Steve KF8KI
```

252. Re: [APRSSIG:5516] Re: analog interface

From: Paul Christenson <paulc@cyclades.com>
Date: Thu, 10 Oct 1996 13:55:13 -0700
To: aprssig@tapr.org
Message-ID: <325D62B1.22CC@cyclades.com>
Rendered body type: text/plain

```
Bob Derderian wrote:

> I would like to see it (generic analog and/or digital interface).
>
> Perhaps the easiest thing everyone could add would be temperature to
> their site, using a thermocouple (we're talking mV levels now).

>From the program's standpoint, simply reading a port and adding a tag to
it would be all that's needed.  (Well, maybe the ability to do x10^n to
shift the decimal point, too.)  There are PIC chips with D/A converters
built in, and the translation/calibration should be part of that.
```

253. Garmin 20 & MIM Board

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Thu, 10 Oct 1996 15:59:58
To: aprssig@tapr.org
Message-ID: <199610102059.QAA25576@mail-e2b.gnn.com>
Rendered body type: text/plain

```
I have a Garmin 20 and a MIM board which I will sell, or trade for
a Garmin 45.

John - N5XAK
```

254. Re: [APRSSIG:5518] Re: Trimble GPS antenna

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Thu, 10 Oct 1996 17:06:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961010170531.2d7f9cbe@mosquito.com>
Rendered body type: text/plain

```
At 11:19 10/10/96 -0500, you wrote:
>How do these Trimble GPS antennas mount?    Magnetic, suction, pole?   Thanks


Magnetic... VERY strong magnets... it's waterproof too!

 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

255. re: [APRSSIG:5514] Re: Trimble GPS antenna

From: dougwe@ccintnet.wrq.com
Date: Thu, 10 Oct 96 10:30:00 PST
To: aprssig@tapr.org
Message-ID: <9609108449.AA844972738@ccintnet.wrq.com>

Rendered body type: text/plain

--- This is a reply to message number 706808, posted on 10/10/96 10:17
____

With the advent of the tapr GPS20 buy and recent questions regarding the
Trimble antenna, would someone like to volunteer to go through the sig archives
and compile the discussions of connectors and cabling adaptors. A zip file on
the upload directory just for that would be most helpful.

73,
Doug
KC7CO

256. Re: [APRSSIG:5522] Garmin 20 & MIM Board

From: TCox17892@aol.com
Date: Thu, 10 Oct 1996 18:53:38 -0400
To: aprssig@tapr.org
Message-ID: <961010185337_207370760@emout11.mail.aol.com>
Rendered body type: text/plain

What, pray, is a MIM board?

257. Re: [APRSSIG:5525] Re: Garmin 20 & MIM Board

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 10 Oct 1996 20:37:26 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae8361067b9b@[199.1.11.144]>
Rendered body type: text/plain

>What, pray, is a MIM board?

I don't know where the MIM board is on the food chain
but I can tell you that the Micro Interface Module
is discussed in TELEMTRY.txt . This file is one
of the docs that comes with DOC APRS.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

258. List problems again

From: aprs@juno.com (ap rs)
Date: Thu, 10 Oct 1996 22:09:30 EDT
To: aprssig@tapr.org
Message-ID: <19961010.164308.9318.7.aprs@juno.com>
Rendered body type: text/plain

It appears that the list has no maintainer.
If it did, he/she could solve these types of problems.
This includes your problem, as well as the one which has to do with the
"reply to" field being picked up wrong.   When someone replies to the
sender, it goes to the list, rather than the sender. I wrote to the list
producer and they told me how to fix it, but no one will accept
responsibility for list maintenance. At least that is what it seems like.

Keith Sproul is the "host", but he is rarely seen here anymore and Greg
Jones from TAPR seems to be helpful, but I am not sure is he "controls"
the list either.

WHO CONTROLS THIS LIST?????

ralph N4NEQ
rwf@mindspring.com
do not reply to juno address, used for retrieval only

On Thu, 10 Oct 1996 10:23:45 -0500 (CDT) n8chb@juno.com (Roger Breckon)
writes:
>
>U can't!
>Your stuck here forever.
>I been trying to remove this listing from my sever for months.
>I have tried every way I know and also my server.
>Both attempts have failed.

```
>The server I use has changed mailers and tapr's computer
>will not respond unless it sees the exact original subscribe
>statement line.
>
>help my Del finger is abt to fall off!!!!!!
>
>73
>
>Roger
>========================================================
>On Wed, 9 Oct 1996 16:18:39 -0500 (CDT) kj5hx@juno.com writes:
>>I lost the message that tells how to unsubscribe to this org,could
>you
>>please tell me how to unsubscribe ... ED
>>
>>
>
>
```

259. Re: [APRSSIG:5504] GPS-75 lockup

From: David Wells <davew@cruzio.com>
Date: Thu, 10 Oct 1996 23:47:01 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9610101822.aa22875@cruzio.com>
Rendered body type: text/plain

```
At 08:19 PM 10/9/96 -0500, you wrote:
>Hello all,
>
>My GPS-75 must be monitoring this SIG, and decided that it was time for
>it to join in and have a little fun with me, 'cause it today for the
>first time operating mobile for almost two years was locked up (screen
>froze) when I came out of work to go home this AM.
>
>I had to remove power from the unit to restart, couldn't shut down from
>the keypad. And when I restarted, surprise!, all stored information was
>gone! MY 150+ waypoints lost, along with routes and config params. I may
>have hit the button below the PWR key when I rebooted the unit, not
>sure.

Mine did the same thing last week. I do not know if I lost the WP's since I
had to do a reset to it a couple weeks before when it suddenly would no
longer receive any sats. It has been working fine since then.

>Does anyone know what will happen if you press another (or any) key when
>powering up?
>
>Is there a key sequence for clearing out the memory during reboot?

Holding the CLR key while turning it on will dump the memory.

>I seem to remember my GPS-75 going into a diagnostic mode of some sort
>once also, is there a key sequence to enter this mode. I remember the
>screen was showing an animated, expanding box with maybe a line of text
>in the center of the screen.

Holding the ENTER key while turning it on enters the diagnostic. Hit ENTER
again to see the test display. The signal amplitude reading should be 1600
or better according to the Service Manual.

>If anyone knows where I can find a list of key sequences for the GPS-75,
>I would like to know.

These are the only ones I know of.

>Thanks, Bob
>
>.-
>

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

260. GPS45XL BATTRIES

From: "DENNIS JAMES" <denniswj@aljan.com.au>
Date: Thu, 10 Oct 1996 19:32:29 +1000

To: "Aprs Group" <aprssig@tapr.org>
Message-ID: <199610111010.UAA26086@orion.aljan.com.au>
Rendered body type: text/plain

Thanks to all who answered my inquiry on connecting a power supply with
batteries still in unit.
Dennis
Scone Australia
The Horse Capital of Australia
VK2DOR KO-23 UO-22 KO-25
GRID QF57KX
denniswj@aljan.com.au

---

261. Re: [APRSSIG:5521] Re: analog interface

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Oct 1996 10:04:33 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961011100144.19041E-100000@arctic>
Rendered body type: text/plain

```
On Thu, 10 Oct 1996, Paul Christenson wrote:

> >From the program's standpoint, simply reading a port and adding a tag to
> it would be all that's needed.  (Well, maybe the ability to do x10^n to
> shift the decimal point, too.)  There are PIC chips with D/A converters
> built in, and the translation/calibration should be part of that.

APRSdos REPLY/COMMENT:  Thats what the MIM is, a PIC with 5 analog
inputs.  It outputs an APRS formatted telemetry packet.  The
translation/calibration is included in additional packets to  tell APRS on
RECEIVE what equation and units to use for the display...  That has been
built into APRS for over 2 years...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

262. Re: [APRSSIG:5525] Re: Garmin 20 & MIM Board

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Oct 1996 10:18:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961011101550.19041H-100000@arctic>
Rendered body type: text/plain

```
On Thu, 10 Oct 1996 TCox17892@aol.com wrote:

> What, pray, is a MIM board?

APRSdos REPLY/COMMENT: Its the APRS Micro-Interface-Module.  A complete
TNC transmitter on a chip which has 5 analog inputs and 8 digital bit
inputs plus a GPS input.  It will transmit its position (if GPS is
connected) plus a packet with the telemetry in it.  APRS displays the
position as usual, and the telemetry on the TELEMETRY screen.  See the
readme file TELEMTRY.txt  Oh yes, its smaller than a match box...  The
earlieer prototypes were larger, about the size of a credit card and cost
$90...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

263. MIM vs analog interface

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Fri, 11 Oct 1996 07:21:12 -0800
To: aprssig@tapr.org
Message-ID: <199610111421.HAA26630@franc.ucdavis.edu>
Rendered body type: text/plain

```
SNIP

APRSdos REPLY/COMMENT:  I must be missing something.  THe MIM is exactly
what you are specifiying AS IS.  It is a 5 ANALOG channel and 8 digital
bit INPUT deivce that outputs APRS packets.  What is it that this cannot
do?

SNIP

According to Will Clement, as I understood him, the MIM is the TRANSMIT
side of a TNC. It interfaces with a radio, not a computer. I want to input
data to my fixed station same as a weather station. This requires an RS232
interface which the MIM does not have. Otherwise, using the MIM one would
```

have to have 2 radios etc. If I'm wrong I hope Will Clement will get in here and straighten me out. I'd love it if the MIM were already capable of doing this.

John Lakeland kc6vlr

264. Re: HF R2/T2 Units and Kanga US

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Oct 1996 10:28:41 -0400 (EDT)
To: Bill Kelsey - N8ET - Kanga US <kanga@brutus.bright.net>
Cc: john.klingelhoeffer@comsat.com, aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961011101917.19041I-100000@arctic>
Rendered body type: text/plain

On Thu, 10 Oct 1996, Bill Kelsey - N8ET - Kanga US wrote:

> ...Someone on this list (I am no a current subscriber) was looking for
> info on the KK7B R2 and T2 modules. I supply the kits for those
> modules, in addition to kits for the miniR2, R1, LM-2 and a power
> splitter / phase shift board. More info is available on my web page
> 73 - Bill Kelsey - N8ET
> kanga@bright.net   419-423-4604
> http://qrp.cc.nd.edu/kanga/

APRSdos REPLY/COMMENT: MANY of us on the APRSSIG are looking for a design to use as a single frequency XTAL controlled HF transceiver for 10.151 MHz PACKET. We will want it to output from 20 to 50 watts but otherwise, to be a black box. 12 volts and packet TNC data in, RF out. I think your receiver and exciter boards are perfect, since I think they produce true SSB. Packet is of course just FSK, so shifting the transmit signal should be easy. SSB reception through a CW filter does the trick on receive... I am sending this message to the whole APRSSIG to see if anyone wants to explore these modules as an approach to the HF data transceiver design..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

265. Instruments

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Fri, 11 Oct 1996 07:57:36 -0800
To: aprssig@tapr.org
Message-ID: <199610111457.HAA02355@franc.ucdavis.edu>
Rendered body type: text/plain

snip

Perhaps the easiest thing everyone could add would be temperature to their site, using a thermocouple (we're talking mV levels now). It's fairly easy to get or create a T/C (thermocouple). Should be able to get T/C wire at most electricial shops, and the tables for the various T/Cs are easily obtainable which give the temp/mV relationship for its (the T/C's) range. To cal a T/C quick and easy you can just dunk it in a bath of ice/water, ice and water only exist at one temperature, 0 Celceis (or 32 deg. F). A couple lines of code in APRS would let you cal your T/C and your all set to report your local temps across the network.

snip

Yep, and a few simple components and an op amp or 2 and you could have temp/volt. A simple board anyone could build from Radio Shack parts would do the trick. Even if you know little to nothing about electronics with the information that could easily be provided by one of us who does, anyone could add such instruments. Another idea I have been working on is an aneroid barometer based on a cookie tin and a linear potentiometer (with associated simple circuitry). The possibilities are endless.

John Lakeland kc6vlr

266. Re: APRS NODES GOING ON LINE

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Oct 1996 12:46:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961011124242.4032C-100000@arctic>
Rendered body type: text/plain

On Fri, 11 Oct 1996, lee mcdaniel wrote:

>   Wanted to let you know that I have placed a new WIDE

> on near Lexington, Va. at 4100'...next WIDE will go on Poor Mountain
> Roanoke, Va. 3960' in 2 weeks...then the last on Sand Mountain 3900'
> near Wythville, Va by first snowfall..
>
> This will give coverage with what is already up and running
> Mobile coverage from DC to the TENN. line..all along I-81, I-66
> and I-64... OVER 300 MILES ALL TOGETHOR...
>
> 73 LEE WB4QOJ BBS 1.540.362.8673
> The Blue Ridge Video and Digital Society WEB Page
> http://www.intrlink.com/~sparky/wb4qoj/wb4qoj.htm

---

267. Re: [APRSSIG:5532] MIM vs analog interface

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Oct 1996 12:48:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961011124638.4032D-100000@arctic>
Rendered body type: text/plain

On Fri, 11 Oct 1996, John Lakeland wrote:

> According to Will Clement, as I understood him, the MIM is the TRANSMIT
> side of a TNC. It interfaces with a radio, not a computer. I want to input
> data to my fixed station same as a weather station. This requires an RS232
> interface which the MIM does not have. Otherwise, using the MIM one would
> have to have 2 radios etc.

APRSdos REPLY/COMMENT: I would just connect the MIM to the same radio
and who cares if the packet is comming from a different piece of
hardware... It still looks the same on the air... Also, then, it will
still report conditions when the PC is doing something else...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

268. Motorola Oncore GPS problem

From: Mark Oppenheim <marko@tetherless.com>
Date: Fri, 11 Oct 1996 10:54:58 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961011105505.4d4f22a2@gorgor.pa.tetherless.com>
Rendered body type: text/plain

OK, here's my last try.....

My Oncore puts out the following string:
(This represents the output when satellites are not being received, so
ignore the fact that it's missing lat/lon)

```
------------------
$GPGGa.,<>>>.<>>>.S,<>>>>.<>>>.W,8.<>..-1<.8.M,-1<.8.M,,*52
E
------------------
```

(the "E" is actually a binary character, and is put out AFTER the <CR>, and
at the end of that string and before the next string starts)

I have tried setting the unit to "default" setting using the motorola GPS90
program, letting the unit sit, and even looking for a reset pin inide the unit.

The unit appears to recieve OK, it's just that the strings are mangled.

* Has anyone seen (and fixed) the problem?

* Where do I send the unit for repair?

Mark

---

269. Re: [APRSSIG:5536] Re: MIM vs analog interface

From: ttyamada@CCGATE.HAC.COM
Date: Fri, 11 Oct 96 11:26:48 PST
To: aprssig@tapr.org
Message-ID: <9609118450.AA845058448@CCGATE.HAC.COM>
Rendered body type: text/plain

Maybe John wants an analog & digital interface to his
PC, for data logging purposes (rather than put
this data on the air)?

______________________________ Reply Separator _________________________________

```
Subject: [APRSSIG:5536] Re: MIM vs analog interface
Author:  aprssig@tapr.org at CCGATE
Date:    10/11/96 10:24 AM


On Fri, 11 Oct 1996, John Lakeland wrote:

> According to Will Clement, as I understood him, the MIM is the TRANSMIT
> side of a TNC. It interfaces with a radio, not a computer. I want to input
> data to my fixed station same as a weather station. This requires an RS232
> interface which the MIM does not have. Otherwise, using the MIM one would
> have to have 2 radios etc.

APRSdos REPLY/COMMENT:  I would just connect the MIM to the same radio
and who cares if the packet is comming from a different piece of
hardware...  It still looks the same on the air...  Also, then, it will
still report conditions when the PC is doing something else...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

270. Coax

From: dougwe@ccintnet.wrq.com
Date: Fri, 11 Oct 96 09:12:00 PST
To: aprssig@tapr.org
Message-ID: <9609118450.AA845059630@ccintnet.wrq.com>
Rendered body type: text/plain

```
Anyone have a relatively inexpensive source for RG-174 coax, connectors, and
connector tools?

Doug
KC7CO
```

271. Re: [APRSSIG:5538] Re: MIM vs analog interface

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Fri, 11 Oct 1996 15:17:46 -0400
To: aprssig@tapr.org
Message-ID: <325E9D5A.3D44@the-hermes.net>
Rendered body type: text/plain

```
ttyamada@CCGATE.HAC.COM wrote:
>
>      Maybe John wants an analog & digital interface to his
>      PC, for data logging purposes (rather than put
>      this data on the air)?
>

Just to calm some of the debate, I have spoken to John
concerning the MIM's capabilities and he understands its
operations correctly.  His needs are for another device --
just as "ttyamada@CCGATE.HAC.COM" noted.

73 de Will Clement

P.S.  Now that I am using Netscape Gold 3.0, I hope I haven't
included that silly WINDATA at the end of this e-mail.  I
would appreciate a personal reply from someone confirming this.
```

272. Garmin 20 and MIM Board

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Fri, 11 Oct 1996 14:43:28
To: aprssig@tapr.org
Message-ID: <199610111942.PAA26924@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Subject items have been disposed of.

73, all    John - N5XAK
```

273. Re: [APRSSIG:5537] Motorola Oncore GPS problem

From: clark@tomcat.gsfc.nasa.gov
Date: Fri, 11 Oct 96 20:09:11 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <636@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
A couple of ideas -- check your serial port configuration. You
should be using N81 at 4800 baud. It looks like you have the parity
or stop bits wrong. The "E" you see is probably a <lf> since the NMEA
message is defined as terminating in <cr>+<lf>.


73, Tom
```

---

274. Re: [APRSSIG:5542] Re: Motorola Oncore GPS problem

From: Mark Oppenheim <marko@tetherless.com>
Date: Fri, 11 Oct 1996 15:11:59 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961011151206.5427428a@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
At 03:13 PM 10/11/96 -0500, Tom wrote:
>A couple of ideas -- check your serial port configuration. You
>should be using N81 at 4800 baud. It looks like you have the parity
>or stop bits wrong. The "E" you see is probably a <lf> since the NMEA
>message is defined as terminating in <cr>+<lf>.

Unfortunately, I've checked this, and the Motorola program sets all the
comms port parms between the "Motorola Binary Mode" (which the program
reports "data errors" on) and the problem also exists on the motorola.bas
program distributes with APRS.

I have a starnge feeling that getting ths unit fixed will be more than it's
worth...  Maybe I can use the box for a 1W RF deck for 2 meters!

Mark
```

---

275. G 45 problem update

From: Richard Ball <72155.1222@CompuServe.COM>
Date: 11 Oct 96 20:12:40 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <961012001239_72155.1222_EHB122-1@CompuServe.COM>
Rendered body type: text/plain

```
It been interesting.  Last friday I left a message about my Garmin45 in the car
just losing the satellites while sitting in a parking lot while I had a LONG
lunch.  I asked if this was a problem with my unit or just happens.
    There have been MANY replies.  BUT the tone of the message sure got changed.
I started by asking if mine was a problem.  It changed to Garmin
bashing/bragging, to.....  There have been so many changes, I am not sure what
the question is from reading the 'RE:' now.  Some have quoted all, some have
quoted some, some changed the topic.  Its like the kids game where you start at
one end and see what is said by the last person in the room.  I am not
criticizing, just thought it was interesting.
    Now to what has happened to me.  I was asked what antenna I was using, the
Garmin external mag mount on top of car.  Not through the windshield.  Did I
have the batteries in.  No I didn't.  Thinking that with external power they
weren't needed. I put them in. Didn't make much difference.  Drove around with
GPS running for about two hours, sitting at stop light looked over, no status
bars.  good view of sky. switch off/on all 8 bars right away.
    Then Bill N. said was the GPS still in 'BATTERY SAVER MODE'?  Will wonders
never cease, it was.  Shows what reading the manual does.  Anyway I went to
lunch again today (Fri), same place, even the same parking place. and YES I did
stay a LONG time.  And when I came out the GPS was still running, all 8 bars.  I
know this wasn't the final test, but its sure a good start.
  THANKS for all the comments I have received, both good and bad, it shows there
are people willing to help on this SIG.

Richard  N7Rig
```

---

276. Re: [APRSSIG:5538] Re: MIM vs analog interface

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 11 Oct 1996 22:55:17 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961011225106.20587B-100000@arctic>
Rendered body type: text/plain

```
On Fri, 11 Oct 1996 ttyamada@CCGATE.HAC.COM wrote:

>      Maybe John wants an analog & digital interface to his
>      PC, for data logging purposes (rather than put
>      this data on the air)?

APRSdos REPLY/COMMENT:  Could be, but he originally asked for this
```

capabilty to be added to APRS; and why put it in APRS unless it
has a use on the air?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

277. Garmin 45 update

From: kc5ejk@onramp.net (Robert Winingham)
Date: Fri, 11 Oct 1996 23:33:41 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae84d0ce985e@[199.1.154.160]>
Rendered body type: text/plain

Thanks for the report.
To summerize and a few other points.
:

The Garmin-45 will auto shutdown (turn off) if
There is no GPS data for some periode of time (like parking in
a covered garage. The unit will also shutdown with an internal battery
only supply when it sees low power, thus saving you from a internal
parameter memory loss.

Don't use BATTERY SAVER MODE even when using internal batteries.
It doesn't save much and no reason if using external power.

Use a 1/4 amp fuse if using external power and external antenna.
There is DC voltage on the antenna BNC to power the active external
antenna pre-amp.

Several people have reported it is better to keep a set off internal
batteries in the unit. The internal batteries are isolated, so safe to
use Ni-Cads (External power will NOT charge the internal batteries).

Some have reported there is a slight drain of the internal batteries even
when using external power. I can report that the only time in over
two years of car GPS use that I have seen a lock up and no status bars was
when starting the car with almost dead internal batteries.

The same day I had a complete reset of the internal data. Never had that
problem again when I started using good internal batteries.
(Renewal Alkaline have good bang for the buck)

-------------- My setup -----------------
I use the ICOM HT cigarette lighter 13.5 volt power plug with the
internal RFI LC circuit for external GPS power.

I use the Garmin external antenna inside the car and get a good satellite
lock before moving. High pager RF areas will play havoc with getting
a lock.

The Garmin-45 is a so called dual channel GPS, NOT a parallel GPS.

The Garmin will process data from one satellite while it
reads data from the next satellite. (So they say), but It still
scans the 8 satellites one at a time, like a single channel unit.

Save yourself 20 min of "Searching the sky" and write your
normal local LON/LAT on the unit for use in case of a total reset.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

278. K6PD-7: Was that a plane?

From: David McCarthy <davidmc@goodnet.com>
Date: Fri, 11 Oct 1996 22:15:27 -0700
To: aprssig@tapr.org
Message-ID: <325F296F.6D89@goodnet.com>
Rendered body type: text/plain

I think there was a track of an airplane pacing over southern AZ and
ending in San Diego. Anybody else it?

---

279. MIM/Analog interface

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sat, 12 Oct 1996 08:43:26 -0800
To: aprssig@tapr.org
Message-ID: <199610121543.IAA16480@franc.ucdavis.edu>
Rendered body type: text/plain

```
SNIP
APRSdos REPLY/COMMENT:  I would just connect the MIM to the same radio
and who cares if the packet is comming from a different piece of
hardware...  It still looks the same on the air...  Also, then, it will
still report conditions when the PC is doing something else...
SNIP

Hi all,
     Well it's not exactly clear how one would connect the MIM and a TNC
from a computer to a single radio at the same time, but maybe that can be
done. Still, then one would have a weather station with no interface on
one's own computer. I doubt that most people would like that very much, I
wouldn't. The existing weather stations are supported in the manner I have
suggested at least in Mac APRS, I haven't used the other 2 softwares. There
is a nice virtual instrument panel and data logging and weather history and
maps etc.
     What I am suggesting is that the present approach requires a specific
software support for EACH commercial product. One generic analog interface
would put an end to this requirement and allow an unlimited number of
instruments, both commercial and home made to be used in the way a Peets
weather station can be used now. To quote the read me file Telemetry.txt...

     "The MIM was developed by Carl Wick, N3MIM, as a very simple,
light-weight, throw-away module for experimental balloons."

    As I understand it, the MIM is designed for stand alone telemetry. It
is a great device for stand alone monitoring. It has many useful
applications. It is not, as far as I can see, suitable as the interface for
a fixed station to do what fixed stations currently do with existing
commercial weather stations which have support in the software.
    Somebody please correct me if I am wrong about this. I don't mean to be
argumentative or cause anyone any difficulties, I just don't see how one
can base a fixed monitoring station on the MIM.

John Lakeland kc6vlr
```

---

280. RE: [APRSSIG:3956] Re: FW: GPS antenna placement

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Sat, 12 Oct 1996 12:55:57 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBB83C.B790F6A0@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Thursday, August 22, 1996 10:07 AM, Barbara Fehner[SMTP:fehner@cts.com]
wrote:
>Gwyn,
>
>What are the specs for the Trimble antenna that you sell?
>
>Barbara KK6IB
>E-Mail: fehner@cts.com
>
>_______________________________________________________________________
_________
>At 09:23 AM 8/22/96 -0500, you wrote:
>>----------
>>From:         Daniel Velez[SMTP:dvelez@infi.net]
>>Sent:         Thursday, August 22, 1996 3:33 AM
>>To:   aprssig@tapr.org
>>Subject:      [APRSSIG:3949] GPS antenna placement
>>
>>Has anyone noted any negative effects while mounting a GPS antenna near
>>a transmitting antenna?  I'm using the Motorla Oncore and need to
>>relocate this antenna...considering the base of the small mast holding
>>the UHF/VHF dual bander.  Is a 45W VHF/35W UHF signal (one foot away)
>>harmful to the GPS active antenna or receiver?
>>
>>I have seen several GPS antennas with the preamp burned out from RF from
a
>>nearby transmitting antenna. Many modern antennas have filters to protect
>>against this possibility. I'd read my antenna specs closely before keying
>>the transmitter....
>>
>
```

>
>

GPS Antenna Specs.

These antennas are available from PacComm for $65 plus shipping. They are fitted with an SMB connector which may have to be changed to fit your GPS receiver.

Delivery may take up to 2 weeks after order is placed.

Call 800-486-7388 to order.

73,
Gwyn Reedy
PacComm

New Miniature GPS Antenna from Trimble Navigation

Trimble's OEM Products Group announces a miniature GPS antenna for use with the SVee6-CM3 receiver. The new antenna featurs a 25 dB LNA, small size (47 mm x 40 mm x 13.3 mm, 180 gms.), magnetic mounting, and a 5 meter cable. This weatherproof antenna is designed to operate with or without a ground plane and includes filters for improved jam immunity. List price is $75 when fitted with an SMB connector.

Total specification (through antenna, LNA, cable, and connector)

Frequency Range	1,575.42 +/- 1.023 MHz
Gain	23dBi MIN (on 65 x 65 mm ground plane, -40 to +80C)
Noise Figure	1.6 dB MAX (+23C) 2.3 dB MAX (+80C)
Output Impedence	50 Ohms
VSWR	2.0 MAX
Out of band rejection	+/- 20 MHz 7dB MIN +/- 30 MHz 12 dB MIN +/- 50 Mhz 20 dB MIN +/- 100 MHz 30 dB MIN

- end -

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(@$0`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`,0```%)%.B!;05!24U-)1SHS.34V72!293H@1E<Z($=0
M4R!A;G1E;FYA('!L86-E;65N= ###@$%@ ,`#@```,P'"@`,``P`-P`Y``8`
M:P$!(( #``X```#,!PH`# `,`#<`*P`&`%T!`0F `0`A````.$0X-30R0T1#
M,S(R1# Q,3@P1#0P,#0P,#4R.4)#1#<`^@8!`Y &`)@)```2````"P`C````
M```#`"8```````L`*0```````P`V``````! `#D`( CE/%ZXNP$>`' ``0``
M`#$```!213H@6T%04E-324<Z,SDU-ET@4F4Z($97.B!'4%,@86YT96YN82!P
M;&%C96UE;G0``````@%Q``$````6`````;NX7CR[S4*%CB+#$=" U ! !2F\
MUP``'@`>#` $````%````4TU44 `````>`!\,`0```!$```!G=WEN0'!A8V-O
M;6TN8V]M``````,`!A#%RZ>>`P`'$+H&```>``@0`0```&4```!/3E1(55)3
M1$%9+$%51U535#(R+#$Y.38Q,#HP-T%-+$)!4D)!4D%&14A.15)33510.D9%
M2$Y%4D!#5%-#3TU74D]413I'5UE.+%=(051!4D542$534$5#4T9/4E1(1512
M24U"``````(!"1 !`````0@``/T'```3$@``3%I&=2AM%[O_``H!#P(5`J@%
MZP*#`% "\@D"`&-H"L!S970R-P8`!L,"@S(#Q0(`<')"<1'B<W1E;0*#,S<"
MY <3`H,T$LP/WV8UVQ+,%,@V`\84R#<1!18/K1"4.!+'$74P%+9]"H"+",\)
MV3L>GS(U-1^_\&4Q,C@"@ J!#;$+8&!N9S$P,Q10"P-L>&DS-@WP"U47<@P!
M8TD`0"!/`Z!4: AP<Q!D87DL%+!U9W41$\ @,C(EX#$Y.4(V)J P.C W%+!-
```

```
M%27@0@K 8@K 82!&"&5H;@206U--5 A0.F8H,T!C='/"+@6@;5T@=P-@$]#Z
M.@J$/@M&%6(DPQ*P$U #*@$I4"!'=WEN+/L*A"0/,2JO*[@LORW/+M\<(%<1
M@ 5 "L!E('3R:#.0<W %D 0@`A %P.TSLE0%$ ;0;#.0`' 3T-QN;B@`,[ S
M07D(8#/@\&5L;#\O[S#_,@\VOP<WSSC?)Y=+2S9)0H<Y[SK_/ \@12U-"W#\
M;#HT0"C[/?\_#T ?0I_[0Z]$OU](_TH/2Q],+TSI'T7/1M]'[Q2P!4 P.3I$
M,C,G42 X+R9P+\$FT2TP-3 P)> V(L\IZDY?3V\KJ3XM5L=3CW-4GU6O/D8#
M84&0#((@+D0`< B0`R!6-G!E>BDHA&1V6]) "X!F:7(N*%!T75=O6']9CSZ?
M!F ",%KE)6\F=S,Z(S"/)U%=?UZ/7Y\^5&]:Y<9A$U $$&EG0 &0$U!Z+@6P
M9V-_9(]EGV"@=0QB:BPA6N1;05!2$%-324=C$#DT.;DIP$=0!? U5@M18Q/@
M[V#!:$]I7VIO/FZ?;Z]POW@^2&$$( !P-B H4"":;BH!9'5"=;!E9S- .FE<
M@" -P2PA!"!W:+<#$#.0!&!U`C +@&<S8+]M.RA0"L!QWW+O<_\^-;%S)_ `
M@&UI`D!X(S5D/\ @($DG;2 F,'@B_3.R32H`!; +8"4A!:$U,G]V`"A0=?%_
M4'F/>I][KSY['J >,&,S0#.2! `U1BY_A6 %H "!!(%^MB?0$; @_&]F,Z0`
MP#: =\!U( 5 >F@&\&1X(8#?@>^"_SY!,[)52$8O5HP`(+QD=0= AH& , 20
M+GXQ874Q(#0U5UNPC $SOXVQB_$SX&>0-: #("AU@M<"$"H`,V!W8< IB'^)
MC\6*GSX1@6UF=0,@?U#_,Z-M0RE0=K(U5@6Q'J!N,/UVL7(VKY$/DA]QOY<?
MF"_U5I%)A_!A=L$1L GP-E'?E>&,D6U)=U%]0&@SHQ-0^7E0;7"&@ AP*%!V
M``A@_P5 `U('\(Q0H&,H`)EOFG_UFX\^>4)B=D!\[X4R!=#?=B($99XGG,-=
M`&P3T!&@_Y.R*^:A7Z)OHW]\L': "X#3)D&$HW!O9W%B`Q!]0+YYC2!^4'8`
MGU%V`&UV0+LU5C/T8QXP-F%V0&(-P/%_XFME>7@BJ3^J3ZM?_XNCI0>-`85A
ML1^R+[,_F5__MH^WGVZ/N<^ZW[OOO/^^#[^_%R-_)(@*A7XP;4)!-67^4S0"
MM77&.F%1!Y U-W4QO7_R=D%A`: U(:!C4 #0C0A0;7YP-%(D-C5M\><F,#/@
M=X!P<'@AC2#'8?^NL3.!70"U`78`GK,#D2B0_D*OH (@*% I4 6Q=W$1</^'
MH79 G,.3P; PKZ 1@"+P_X"#R_(V$@7 ;4*5EL8K6T#_-G"5TJ:1SD$!D+"@
M?H"?D.N3P1'@=PG@:W4Q`8 $D%N5402!(*T2;A)DT2Q#!8=R.%*@+30X-BWP
M-S,X.).RU&/1+-<`[RRE+%,'\(!Q>0J%R87&/]L%P ?"30N !S!T"'"4%/?%
M5J!C--9.G-!GD':1`B!+QIPTY"<$($]%4=!0]P-@C'!W,D<#8-,A`'!UP/]W
M\&XPC6)],-QJ-58T4B8P5F4*A9ZW4UO 9=;@0_Y-4:#0I\=2=E$'X.-7>5 ?
MW)&-8B#0C&#-$$Q.02]AX(=3"H4`D'HSD"@T.R= R=%XC9 =,.HC,3,>+E&@
MR= FD=: (&=M_2EP*6'@`,".P!' S?!WQ_]AX( B* #*8 > J#$*A810OS41
MRU*$P=.@,T SP'(KX;^&X356A,$-L(ZBSW1O- "_)_"$<9ZSS:*>P: B80J%
M_PG =^%V``M1=9& (@N K[#^=?#AI_<T4@=P*^%<@'8`MFJ?</7Q;7?PK<-,
M! `_!4 34,WP,Y $``J$)#?_RF!W<)TQS _-&=$L9K !D/\#(#/R!I#-\-[#
MCP`SL.%A_F?YTC5S8>#H@^ZC[43--^>/]0J%6J!E<0I0?\!V0(Y2ST+$X0&4
M,2PU^+!$+C01X"LO+2:@+J(P49%-2'K&FT<+<2\!EP3)49#H4&FF4$E._8\"
M(,I1ZE#*4<G1\ZIAX%?6L!TPD\$KUH!#_\Q.]F\<<#.01F>0W*($R0+PIR;@
MZ%&F4$%8CP`K49"_".8$SP57ZQ$+F C/3Z P^G"@,4F?@!ZP`/$!AU*0#>!P
M:.O0QIM64U=2_PU?#C,=, O1#XZ&THS"E8%_:[+\TGXP`K+$( -"Q.$WW^A1
M!C$,?QE\`K(S%Z8B()_H0AAO'+\"LA'136@7XO\7D1N/']\7)2,0%Z4:P1[:
M_Q\_(^\!EP+0$1!V`%=5)@]W>77"\,#%.,/SV4EAX%?P,4)%3-H:R7*PH/,`
M9P% B#"3T%-Y8D!N0',%[E-H^5!P.B\O=]4LP"[N8&-"86U"4MKT`GTN( ``
M``,`$! ``````P`1$ ````! ``<P(,V,-%ZXNP% ``@P(,V,-%ZXNP$>`#T`
2`0````4```!213H@``````:*
`
end
```

---

281. REMOTES ?

From: Peggie Buckles <willy@mcn.net>
Date: Sat, 12 Oct 1996 12:00:57 -0600
To: "'APRS SIG'" <aprssig@tapr.org>
Message-ID: <01BBB835.33FFCC00@rgpm01-045.MCN.NET>
Rendered body type: text/plain

Hello fellow SIG'ers.

I need some info on a "remote beacon".

What I want to do is put out a few gps/tnc pairs in different vehicles. Then be able to track them from one "command center".
This is for the local, county search and rescue unit.
What I want to know is if I can have several of these "remote beacons" all under my callsign ?
I would suppose that I can just have a different secondary Identifier on the end of each callsign for the different "beacons" !??

ex. Beacon one - KI7NV-1
Beacon two - KI7NV-2
Beacon three - KI7NV-3

ect.....

One more thing...   I wonder if anyone has a fairly detailed map of south eastern Montana ??   Or knows where I can get one ? Particularly of Rosebud county.

Any help would be greatly appreciated...

Tnx, Willy, ki7nv

willy@mcn.net
ki7nv@ki7nv.#semt.mt.usa.na

282. Peet U-2000 / WINAPRS Setup

From: BordingK@aol.com
Date: Sat, 12 Oct 1996 14:24:07 -0400
To: aprssig@tapr.org
Message-ID: <961012142406_208862798@emout03.mail.aol.com>
Rendered body type: text/plain

I', baffled, but that's not too infrequent!

Need help getting this blasted Peet U-2000 to talk to WINAPRS.

Peet U2000:
1. Their cable from U-2000 to COM2
2. Data Logging Mode as per a messge on the SIG
3. In Windows Terminal this is what flows by:

```
!!0037000602F2030727FC032C02E2----00FF037E00000064
!!0037000602F2030727FC032C02E2----00FF037E00000064
!!0037000602F2030727FC032C02E2----00FF037E00000064
```

WINAPRS:
1. Registered Copy
2. Ver 1.1.3
3. Settings: Auto Input, WX On,
4. Serial Port: COM 2, 2400 baud 8-1-None (just like in Windows Terminal)
5. Posit Rate Settings (Little confusing, since there are 3 HFs and 3 VHFs under Weather Report, but all are set at 15 min.
6. Weather/RDF Settings: Peet U-2000, .01 inch rain gauge.
7. Weather Port OPEN (Do you have to reset this each time WINAPRS is started, I can't seem to save that setting!

Click on Send Weather, Wx packet goes out with 000000's
Nothing shows in Weather List!

What Gives? Any help will be appreciated!

de KF4COH
Ken in Jax

---

283. Re: [APRSSIG:5550] REMOTES ?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sat, 12 Oct 1996 14:53:13 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae85b02cbf93@[199.1.11.112]>
Rendered body type: text/plain

>Hello fellow SIG'ers.
>
> I need some info on a "remote beacon".
>
>What I want to do is put out a few gps/tnc pairs in different vehicles.
>Then be able to track them from one "command center".

APRS calls these Remote GPS Trackers as they have no computer. They can have a computer attached to run APRS software so the remotes can watch the action or send messages.

This is done all the time for special events.

Name them what you want ,callsign-0 to callsign-15 is a standard.

>From APRS DOCs SYMBOLS.txt APRS DISPLAY SYMBOLS

SSID	SYMBOL	SSID	SYMBOL
-0	Dot	-8	Ships (power)
-1	Ambulance	-9	Cars
-2	Bus	-10	Space objects
-3	Firetruck	-11	Balloons
-4	Bike	-12	Jeep
-5	Yacht(sail)	-13	RV (recreational vehicle)
-6	Helo	-14	Truck
-7	Aircraft	-15	Van

"Secondly, you may indicate the desired symbol character surrounded by braces {s} as the first 3 characters of the TNC BText. Once the BText has been received by a station, the mobile will then be displayed using

```
the specified symbol.  The advantage of this method is that more
symbols are available than from the SSID convention.  The disadvantage
is that the symbol is not displayed until AFTER at least one BText is
received."

Short example (See docs for more)

a - AMBULANCE
b - BIKE
c - DX spot by callsign
d - Dual Garage (Fire dept)
e - SLEET
f - FIRE TRUCK
g - GALE FLAGS
h - HOSPITAL

-----------------------------------------------

If you set the TNC to ID beacon your call each 10 min, then you can
use what you want for the TNC MYcall sign label  ie   Fire, Air, Food

I would use a TNC like a KPC-3 so you can remote control the
TNC over a radio. This makes you the control operator :-)

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

284. Cheap HF rigs

```
From: Dick Mead <mead@usc.edu>
Date: Sat, 12 Oct 1996 13:21:38 -0700
To: aprssig@tapr.org
Message-ID: <325FFDD2.53D6@usc.edu>
Rendered body type: text/plain
```

```
Well, It's not actually cheap, but I had not seen
any mention of the Ten-Tec Scout. Here's a URL to a review.

http://www.acs.ncsu.edu/HamRadio/HF/qrp/reviews/ten-tec-scout.html

It's about double the cost and not xtal, but what the hey....

Dick  WB6NGC
```

---

285. Re: [APRSSIG:5550] REMOTES ?

```
From: rbost@itexas.net (Roy Bost)
Date: Sat, 12 Oct 1996 16:42:32 -0500
To: <aprssig@tapr.org>
Message-ID: <19961012214536275.AAA61@rbost.itexas.net>
Rendered body type: text/plain
```

```
Are you going to be driving all of these cars?  If not I would be carefull
of letting non-hams use your equipment without you being there as the
control operator.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

---

286. Re: [APRSSIG:5550] REMOTES ?

```
From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Sat, 12 Oct 1996 17:44:46 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961012214446.006a1194@neptune.gsfc.nasa.gov>
Rendered body type: text/plain
```

```
At 01:28 PM 12-10-96 -0500, Peggie Buckles <willy@mcn.net> wrote:
>
>Hello  fellow SIG'ers.
>
> I need some info on a "remote beacon".
>
>What I want to do is put out a few gps/tnc pairs in different vehicles.
Then be able to track them from one "command center".
>This is for the local, county search and rescue unit.
>What I want to know is if I can have several of these "remote beacons" all
under my callsign ?
```

```
I think Bob sells a non-amateur version of APRS for such uses;
that'll probably solve your problem.

Bob Kirk
N3OZB
```

---

287. Re: [APRSSIG:5550] REMOTES ?

From: Daniel Velez <djv@gte.net>
Date: Sat, 12 Oct 1996 18:29:34 -0400
To: aprssig@tapr.org
Message-ID: <32601BCE.3CE9@gte.net>
Rendered body type: text/plain

```
Peggie Buckles wrote:
>
> Hello  fellow SIG'ers.
>
>  I need some info on a "remote beacon".
>
> What I want to do is put out a few gps/tnc pairs in different vehicles.  Then be able to track them from one "command center".
> This is for the local, county search and rescue unit.
> What I want to know is if I can have several of these "remote beacons" all under my callsign ?
> I would suppose that I can just have a different secondary Identifier on the end of each callsign for the different "beacons" !??
>
>   ex.  Beacon one -  KI7NV-1
>         Beacon  two -  KI7NV-2
>         Beacon three - KI7NV-3

Sure!  You could set MYCALL to AMB1, AMB2, TRK1, TRK2, etc.  THEN make
BTEXT {x} KI7NV Tracker Ambulance 1
BTEXT {x} KI7NV Tracker Ambulance 2
and so on....where x is the symbol designator from symbols.txt (for
example "j" for Jeep).  As long as you set the beacon to not more than
10 minutes, you will have met the identification requirements and
uniquely identified each.

--
Dan

||||||||||||||||||||||||||||||||||||||||||||||||||||
Daniel Velez                             djv@gte.net
                  http://home1.gte.net/djv/index.htm
                            n4wzr@wd4miz.va.usa.noam
||||||||||||||||||||||||||||||||||||||||||||||||||||
```

---

288. Re: [APRSSIG:5539] Coax

From: Glenn Little <glittle@awod.com>
Date: Sat, 12 Oct 1996 20:26:04 -0400
To: aprssig@tapr.org
Message-ID: <199610130015.UAA09587@sumter.awod.com>
Rendered body type: text/plain

```
At 01:57 PM 10/11/96 -0500, you wrote:
>Anyone have a relatively inexpensive source for RG-174 coax, connectors, and
>connector tools?
>
>Doug
>KC7CO
>
>
>

Doug

How much RG-174 do you need??

What lengths?

I see this at hamfests often but in short lengths.

73
Glenn Little
WB4UIV

WB4UIV@amsat.org
glittle@awod.com
```

289. Re: [APRSSIG:5554] Re: REMOTES ?

From: "Sam Nabkey, WJ8T" <snabkey@wingsbbs.com>
Date: Sat, 12 Oct 1996 20:14:10 -0400
To: aprssig@tapr.org
Message-ID: <199610130016.TAA22276@tapr.org>
Rendered body type: text/plain

```
On 12 Oct 96 at 16:49, Roy Bost wrote:

> Are you going to be driving all of these cars?  If not I would be
> carefull of letting non-hams use your equipment without you being
> there as the control operator.
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W
>

This Station is under automatic Control..  I don't sit at my Digi
Sites all day and watch or "drive" them at all.

Nothing wrong with what he is up to.  Nobody will be "using" his
equipment.  It is Telemetery and perfectly legal.


Sam.
```

---

290. Re: [APRSSIG:5558] Re: REMOTES ?

From: Bob Lorenzini <hwm@netcom.com>
Date: Sat, 12 Oct 1996 18:12:31 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961012180824.172A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
There is nothing illegal unless the vehicle operator has control of the
xmiter or he is using it for a commercial purpose. That includes
municipalities.

Bob - wd6dod
```

---

291. MAIL

From: kd4emi@juno.com (Michael A. Kantor)
Date: Sat, 12 Oct 1996 23:41:29 EDT
To: aprssig@tapr.org
Cc: APRSFL@tapr.org
Message-ID: <19961012.234314.2151.1.KD4EMI@juno.com>
Rendered body type: text/plain

```
SUBSCRIBE
```

---

292. MAIL and info

From: kd4emi@juno.com (Michael A. Kantor)
Date: Sun, 13 Oct 1996 00:52:23 EDT
To: aprssig@tapr.org
Cc: APRS-fl@tapr.org
Message-ID: <19961013.005419.5375.0.KD4EMI@juno.com>
Rendered body type: text/plain

```
I would like to let everyone know that I am alive.

Unfortunately several events recently happened.  My car was stolen, and
then I got very ill.

Some of you know I have been battling a lung disorder for several years,
that has caused me to be in and out of hospital in the  last week  or so.
  Several points I need to make

#1  Shirts:   first load of shirts were mailed this week. You should be
getting them within a few days.   There are more shirts on order and I'll
get those this friday and mail them saturday. This will complete the
pending shirt orders.  If you don't get your shirt this week you get it
next week when I pick up your size at the store. ( I ran out of mediums
and large)

#2 GPS products etc:
ALL GPS/Radio stuff that I sold (to pay for getting my car back and since
no insurance, to pay for my medical expenses)  was shipped  today.   I
```

was under the impression that my mom sent the stuff out, but she did not,
which I found out today. You should recieve all items this week, as I
personally took it to the pack and ship and its going out UPS.

I am sorry that I dropped out like that, but as some of you know, my
illness required me to be in the hospital and I will be getting my lung
tests this week, I would appreciate your prayers.

Should you have any questions, please EMAIL me at my new address
KD4EMI@Juno.COM

I would like to thank you for your understanding and am sorry if my
dropping out caused any anxious moments.

Mike KD4EMI

---

293. RE: [APRSSIG:5560] MAIL

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Sun, 13 Oct 96 15:31:14 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199610131528510259@msn.com>
Rendered body type: text/plain

For Michael A. Kantor
the subscribe message has to be sent to
listproc@tapr.org
An easy way to do this and to UNSUBCRIBE is to
go to Bill Nolle's web page. He has made it easy for us all (tnx Bill) with
links to tapr.
 http://www.concentric.net/~wa8inz

---

294. Re: [APRSSIG:5562] RE: MAIL

From: William Nolle <wa8inz@concentric.net>
Date: Sun, 13 Oct 1996 11:34:39 -0700
To: aprssig@tapr.org
Message-ID: <3261363F.2E63@concentric.net>
Rendered body type: text/plain

Carolyn Cavanagh wrote:
>
> For Michael A. Kantor
> the subscribe message has to be sent to
> listproc@tapr.org
> An easy way to do this and to UNSUBCRIBE is to
> go to Bill Nolle's web page. He has made it easy for us all (tnx Bill) with
> links to tapr.
> http://www.concentric.net/~wa8inz

Thanks Carolyn, i keep posting this oever and over but people don't seam
to want to do it the easy way Hi. I have even made it better now by
highlighting that URL in all upper case and in WHITE to make it easy to
find. It's located on page one with the following address so you can
bypass all the other pages.

http://www.concentric.net/~wa8inz/PAGE1.HTM

```
--
                    \////
                    (0 0)

               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

295. opening to Savannah Ga this morning

From: james-m@ix19.ix.netcom.com
Date: Sun, 13 Oct 1996 13:08:11 +0000
To: aprssig@tapr.org
Message-ID: <199610131708.KAA28041@dfw-ix6.ix.netcom.com>
Rendered body type: text/plain

Had a nice opening to Savannah this morning..

```
AE4BR     250650 9250650/!3208.49N/08109.69W#PHG5380/WIDE-RELAY Digi-WxSta
```

```
WA4SSP-3  130516 h251302/AVRS 7.+s on ¬i
N4WYK     130544 @110828/Rick in Hickory, NC
KB4CNI-3  130515 !389.90N/07918.8-W#Pwr5850/WIDE-RELAY digi on Elliot$ Knob d440
N4WYK-9   130526 !3534.04N/0815.29W#Pwr7730/WIDE-RELAU ... Anderson Mtn ....
WA4SSP-12 130520 ^S@@á_@012027/-IRS 7-6 on line.
N4VDE-3   130521 PHG5760/Wide-Relay Digi Caesars Head MTN.,SC
WA4SSP-2  130521 WIDE AND REMOTE U-II WX SUG. MTN, NC.
WB4PAN    130525 @130516/...Axton, Virginia
KP3S      130548 13094gz1872.18Z/066P8.20W_358/00Y-T072/RP00/P000/B008_I0007Y2a
WB4xAN    130542 @010003/wb4pan@juno.{om
KE4HTM    130544 @130938/PHG5040/Jamie (Lenoir, NC)
KD4EBR-3  130548 !3445.61n/08239.56o#PHG8590/WIDE-RELAY DIGI IN LIBERTY, SC
KE4DGH    130553 @133553/T041/R000h000g000UIImuto)
WA4SSP    130554 @13055-/John in Denver, NC.
N4YCI     130557 @121213/Hi to JavAPRS
WA4SSP-3  130544 @130548/3606.35N/08153.87W-John at the cabin. Sug. Mtn. NC.
N4WYK     130614 @170927/3545.56N/08118.48W&Rick in Kickory¬!NC
N4WYK-9   130516 !******/3504.04N/08105.29W#Vwr7730/WIDE-RELAY .. Anderson Mtnp.
KB4CNI-3  130551 !******/3809.90N/07918.87W#Pwr5850/WIDE-RELAY digi on Elliott K
N4VDE-3   130557 !******/350ö.76N/08236.29W#PHG5760/Wide-Reláx Digi Caesars Head
WA4SSP-2  130524 @130524/3606.50N/08153.50W_343/003/T043c867x004b0269h29U2kr,
NC
WB4PAN    130556 @130547/3639.28N/07940.44W#...Axton, Virginia=
KP3S      130554 @130953z1822"18N/06608.20W_358/000/T072/R000/P000/B008/H000/Ua
KE4HTM    130544 @130938/3556.19N/08128.28W-PHG5040/Jamie (Lenoir, NC)
KE4DGH    130553 @133553/3446.0NN/08235.45W_045/000/T041/R000h000g000UIImuto)
WA4SSP    130614 @130615/3528.92N/08059.15W-John on Devver, NC.
N4YCI     130557 @130044/3358.09N/08320.41W-Hi to javAPRS viewers

Later
Don
```

---

296. How I unsubscribed

From: Roger Breckon <n8chb@tir.com>
Date: Sat, 12 Oct 1996 18:29:03 -0700
To: dpage@cvp.ti.com
Cc: aprssig@tapr.org
Message-ID: <326045DF.4AAB@tir.com>
Rendered body type: text/plain

```
□WPC□□FK□[
□{□N□#□kC□□W□□□□D□A□"_□gDr□B□□□□`l*(\□x|□S□l□□P□□□□□□U□
□□□In□Ws□□□□□□z□□□g!Pw□□□Z□:i7□M□+r-□s□□□□o□k.□S□□□K□&O□X4□□□□T□□□]H□K□□F□npa□□b□□E□□l
Y□□Z□□d□3□Y9□W□□□□□□□iC3□`□□□1O□a□1□□y(C□□□□C□zQNh□□□S□□t□□□□□□□;□h;L□/1□/x□8□~□c□□□□□Zv6□□?!=□□v□□□□U□a
□□v□FS□□
+gN□□□□□□p□pT□]□□DY|6'□
```

---

297. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 13 Oct 1996 19:08:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;XNGA-6508-2900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:5...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

298. KPC-3 settings

From: Richard Ball <72155.1222@CompuServe.COM>
Date: 13 Oct 96 15:54:59 EDT
To: aprssig <aprssig@tapr.org>
Message-ID: <961013195458_72155.1222_EHB151-1@CompuServe.COM>
Rendered body type: text/plain

```
I could use some help.  I am running my APRS system in my car.  Garmin45, KPC-3
V6, DR1200 radio, laptop.  The last couple of times out in the car the system
sent fine but I never saw on my screen any of the stations that heard and sent
back to me.  This includes my home station when I was at the end of the block.
The car system did hear at one time, I don't know what I changed in the TNC.
   Would someone tell me what, and to what, settings they change in the KPC-3
```

```
from the defaults that come in it?

Thanks.   73  Richard  N7Rig
```

---

299. Re: homemade patch antenna sucess

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sun, 13 Oct 1996 14:03:19 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961013133230.14264J-100000@spork.callamer.com>
Rendered body type: text/plain

```
An most satisfactory GPS active antenna can be built for less than five
bucks and about two hours effort.  The patch antenna in the October 1995
issue of QST works very well.  It works much better when a MINI-CIRCUITS
MAR-6 preamp is included as part of that antenna.
    Two models of the patch antenna were built using flashing copper
sheet usually used by roofers.  This fifteen thousands thick material
bends and cuts most easily but is difficult to solder.  None the less
fashion per the QST instructions making only as large a hole as necessary
for the former coax tap connection on the upper plate and an insulated
passthrough hole in the ground plane.  The first model included the
MAR-6 MMIC between the plates while the second soldered the chip below the
ground plane.  No difference was noted, however the second was far easier
to construct.  An ordinary 100 ohm carbon composition resistor with a 470
pf ultra miniature cap across was placed between the output pin of the
MAR-6 and the coax center conductor to the Garmin 20.  Possibly the use of
better components would help, but the IC produces some 15 db gain at 1575
MHz, so some mismatch can be tolerated.
     The copper plate requires a large soldering iron (that's why author
W1GE used aluminum and conductive tape!).  Pretin two solder spots where
the MAR-6 grounded pins are to go and simply be satisfied with a cold
solder joint when assembling rather than trying to be "elegant" about it!
     Remember to insulate the patch as about 1.5 VDC appears there.  Also
insulate the center coax from the Garmin 20 as well as 5 VDC appears too. A
simple upside downplastic salad bowl completes the design.
                 Cliff Buttschardt K7RR ex W6HDO
```

---

300. Re: [APRSSIG:5560] MAIL

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Sun, 13 Oct 1996 17:29:58 EDT
To: aprssig@tapr.org
Message-ID: <19961015.032513.4647.0.WD4CQE@juno.com>
Rendered body type: text/plain

```
Hello, Name here is Ken. You need to send command to subscribe as follows
to tapr.org
subscribe aprssig (your E-mail)
```

---

301. Re: [APRSSIG:5567] KPC-3 settings

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 13 Oct 1996 16:42:24 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961013214224.0069ea74@tbcnet.com>
Rendered body type: text/plain

```
At 15:12 10/13/96 -0500, you wrote:
>   Would someone tell me what, and to what, settings they change in the KPC-3
>from the defaults that come in it?
>
>Thanks.   73  Richard  N7Rig
>
>

interface=newuser (default)
change to

interface=terminal

jbl
-------------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

---

302. javAPRS update

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 13 Oct 96 18:06:36 -0400
To: <aprssig@tapr.org>

Message-ID: <199610132202.SAA25042@bridge.net>
Rendered body type: text/plain

For all javAPRS users:

Version 0.8b1 is up on the TAPR site. If you are using javAPRS on a web page, please upgrade to this version. 0.7b4 was not correctly displaying stand-alone trackers (fix one bug, add another!)

I am back to work after my trip (working 17 of 19 nights, 12 hr shifts) and short on time. I don't plan to do much work on javAPRS for a while, I will be spending what programming time I have on APRServe.

Due to multiple requests like "when did you see me on your trip" etc, and my lack of time to cull the answers from the log file, I will make my log available on the TAPR FTP server once I get a chance to pull it all together. There will be two files, one of the raw data and one thinned with a program that should remove most of the dups as well as the non-posit report stuff like beacons and messages (the raw file is abt 2.3 MBs, with 470 stations heard).

73 de Steve

---

303. WEATHER STATION SIGNAL REPORT

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Sun, 13 Oct 96 21:23 EDT
To: aprs-fl@tapr.org
Cc: aprssig@tapr.org
Message-ID: <m0vCbkn-000QdmC@nevets.oau.org>
Rendered body type: text/plain

```
Listed below are weather stations received and recorded on my H-screen
as viewed from Winter Park, Florida, 6 miles north of Orlando
On Sunday, 10/12/96:
HR ESDT  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
-------+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--
KE4LOJ  41 29 40 42 41 36 39  5 17 17 11 12 18 13 16 15 17 20 26 27 20 22 23 37
KD4MRL  11 11 11  8  9  7 15 13 11 11 24 22  9  8  7  9  7 11 25  3  1  0  1  8
KD4TWB  64 64 53 53 45 33 49 47 46 33 79 49  8 12 26 36 99 58 96 49 50 52 48 31
KT4LL-12 6  9  7  4  6  9  5  4  6  1  0  0  0  2  2  3  2  1  0  0  1  3  3  4
KT4LL-13 6  6  7  3  0  1  0  1  3  0  2  2  1  2  5  0  2  3  2  1  5  6 13  8
KT4LL-1428 29 28 32 32 34 28 34  8  3  6 13 10 17 15 16 12 13 13 16 17 34 27 30
KT4LL-15 8  8  6  7  6  6  3  7  0  0  0  0  0  0  0  0  0  0  1  0  4  7  6  3
KD4UYR   3  2  2  3  3  3  3  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
KR4US   11 12  6  5 14 12 12 10  3  0  0  0  0  0  0  0  0  0  0  0  0  0  7  9
KP3S     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6 12 25 33  0  0  0  0  0
K9PAJ    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  3  1  4  0  0  0  0
VE3VRW   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  2  0  0  0  0
VE3EYR   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  0  0  0  0
KF0ZH    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  2  6  6  0  0  0  0  0
NOAN     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  2  3  5  0  0  0  0
On Sunday, 10/13/96, two more weather stations were received in Winter Park, FL
VE3JOR   0  0  0  0  0  0  4  0  2  2  0  0  0  0  0  0  2  0  0  0
N6OAA-2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  2  0  0  0
```

Those individuals operating weather stations may find this information useful for illustration of propagation into other areas.

Geoffrey Dick, WA4IKQ
Winter Park, Florida
wa4ikq@nevets.oau.org

---

304. DigiPath

From: William Nolle <wa8inz@concentric.net>
Date: Sun, 13 Oct 1996 22:38:49 -0700
To: aprssig@tapr.org
Message-ID: <3261D1E9.295E@concentric.net>
Rendered body type: text/plain

In Version 77c the digi path command was changed (Why i don't know) but i noticed many many users are having problems finding the new command including myself, I think some one gave a multi key command for this but it got lost. I have seen some go back to an older version because of it. I noticed ALT-B doesn't do anything now so why was it changed?. Sure would be great to be able to get an updated list off all APRS commands.
--

```
                    \////
                    (0 0)
               *--o0-(_)-0o--*
```

```
           wa8inz@amsat.org
           wa8inz@cris.com
Check out my dedicated A.P.R.S Web Page.
  THANKS TO THE 38 MENTOR VOLUNTEERS

   http://www.concentric.net/~wa8inz
```

---

305. Newbie GPS Question - Antenna

From: Donald Rotolo <73227.2644@CompuServe.COM>
Date: 13 Oct 96 23:37:46 EDT
To: APRS SIG <aprssig@tapr.org>
Message-ID: <961014033745_73227.2644_EHM28-1@CompuServe.COM>
Rendered body type: text/plain

OK, I've gone and put the GPS-20 kit together, managed to get some data out of it, but still haven't got a fix yet. The problem is the antenna.

Bob Bruninga's comments included with the kit say "To see it work, stick a tiny 1.8 inch piece of wire into the antenna jack, take it outside - you should have no problem getting a fix..."

Well, I went one better (I thought) and built a little ground plane - a 1.8" piece of wire (the center of the RG-174 coax) sticking out of a ground plane (a 3.6" diameter disk of PC Board material). Took it outside, nothing. Well, it kept finding one satellite (the $GPGSV sentence said), but not much else. So, I took it to a better spot (lots of tall trees where I live), and it began listing 8 satellites - the az/el data was there, but no C/N ratio - obviously, it wasn't tracking. My conclusion was that there wasn't enough signal.

So, I stopped at my local boat store, and saw the nifty little antennas that come with the Garmin units, but they didn't sell them (are they available?). All they had was another Garmin antenna, for roof mounting (on a boat), but it cost $129 - more than I care to spend, or can afford.

So, I looked around and found a description of a quadrifilar antenna in the ARRL Antenna Book - and built one. Or, what I think is one, since the construction details in the Antenna Book are quite vague. Unfortunately, I don't have easy access to any of the articles cited in the references to look up the details. I had to put a tiny chip cap in series with the center conductor, to avoid shorting out the antenna supply. Anyway, it didn't do any better - just the 8 satellites in view, no C/N, no fix.

Then I built a crossed dipole (the tiniest one I ever built), with a nice ground plane, just like the one in the antenna book. Again, no fix.

The satellite az/el info keeps changing, so I figured something must be getting through. As an experiment, I put a dummy load onto the antenna jack - did the same thing. Now I wonder if it is really seeing those satellites, or just guessing due to some info it got briefly sometime in the past.

Now I'm at a loss.

Question: Can I get an antenna for this thing for less than $40? Where? I live in the NY City area, so if it exists, I should be able to get it.

Question: How about building one? Someone mentioned that QST or 73 had an article on this in the past year, but I throw out the magazines when I'm done (or I'd be buried in paper), and couldn't find it. Any suggestions for an antenna? (I'd rather buy one, but building isn't a problem if $129 is what a commercial one costs).

Another question: I've tried to send data to the GPS 20, to tell it to stop sending some of the sentences I don't care about, but it doesn't seem to get the message. I noticed that everything has a checksum (?) at the end of the sentence, preceded by an asterisk (*) - since I didn't see how that is calculated, I didn't include it. I am supposing now that it is required, so how DO I calculate it?

And, the final question: Does WinAPRS care which sentences are sent to it by the GPS, or does it ignore what it doesn't need or use? In other words, should I just forget about turning off some of the data stream, and let APRS deal with it?

I'm really anxious to see this thing work, and find out just where I really am.

73,
Don Rotolo N2IRZ

306. Re: [APRSSIG:5565] How I unsubscribed

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 13 Oct 1996 23:57:25
To: aprssig@tapr.org
Message-ID: <199610140357.XAA10995@mail-e2b.gnn.com>
Rendered body type: text/plain

```
On Sun, 13 Oct Roger Breckon described:

>... How I unsubscribed
>
>WPCFK[
>

{N#kCWDA"_gDr`l*

(

\

x|SlP
>

U
>

InWszg!PwZ:i7M+r-sok.S


>K&OX

4T]HKFnpabE
l
>YZd3Y9WiC3`1Oa1y(CCzQNhS
>
t

;h;L/1/x8~cZv6?!=vUav
>FS
>+gNppT]DY|6

'



>

     Oh.  Sounds easy!  ;-)
                    Arte Booten  <N2ZRC@gnn.com>
 (Packet Radio:  N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
```

---

307. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 14 Oct 1996 04:59:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;ZNGA-3908-2900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:5...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

308. Re: [APRSSIG:5567] KPC-3 settings

From: aprs@juno.com (ap rs)
Date: Mon, 14 Oct 1996 01:10:31 EDT
To: aprssig@tapr.org
Message-ID: <19961013.220815.6774.38.aprs@juno.com>
Rendered body type: text/plain

```
Richard-
First and foremost:  Make sure you input the command  INTERFACE NORMAL so
the TNC knows more than just its "name,rank, and serial #"
```

The rest of the commands will be set when you bring up APRS. Tell APRS you have a TAPR TNC.

Ralph N4NEQ

On Sun, 13 Oct 1996 15:12:40 -0500 (CDT) Richard Ball
<72155.1222@compuserve.com> writes:
>I could use some help. I am running my APRS system in my car.
>Garmin45, KPC-3
>V6, DR1200 radio, laptop. The last couple of times out in the car the
>system
>sent fine but I never saw on my screen any of the stations that heard
>and sent
>back to me. This includes my home station when I was at the end of
>the block.
>The car system did hear at one time, I don't know what I changed in
>the TNC.
> Would someone tell me what, and to what, settings they change in
>the KPC-3
>from the defaults that come in it?
>
>Thanks. 73 Richard N7Rig
>
>
>

---

309. Re: [APRSSIG:5574] Newbie GPS Question - Antenna

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 14 Oct 1996 01:20:36 -0600
To: aprssig@tapr.org
Cc: 73227.2644@CompuServe.COM
Message-ID: <v02140b01ae879523406f@[199.1.11.115]>
Rendered body type: text/plain

>OK, I've gone and put the GPS-20 kit together, managed to get some data out of
>it, but still haven't got a fix yet. The problem is the antenna.

You might have missed the times I posted to the sig that people having GPS fix problem should run Bob's SIGPLOT basic program that is part of theAPRS doc file. If you have DOSaprs there is a GPS sky plot there also.

With SIGPLOT you can see what is going on with your unit.

If it keeps cycling in numeric order from one sat to another it is not getting a fix. Onec it find three satellites then it downloads the sky chart at 50 baud which takes at least 20 min sometimes longer.

You might need to wait hours if the satellites are not overhead. Once the chart is loaded and a corect lon/lat/alt are in, the next fix is faster.

I don't remember if the winaprs version has the sky plot working, I use MACaprs or DOSapr smost of the time. The SKY chart has disappeared from the latest MacAPRS program so use a older version.

Borrow a Garmin passive or active Antenna for the first fix.

Those az/el are bogus until the unit has the correct Keps installed. Otherwise it is just looking where is THINKS the satellites are.

There is a chance that if you use the input port to load your correct location/time/alt you might get to skip the downloading of the satellite sky chart keps and get a faster fix. Works on a Garmin-45 but have not tried on a Garmin-20

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

310. Re: [APRSSIG:5550] REMOTES ?

From: ddobbins@juno.com (David S Dobbins)
Date: Tue, 8 Oct 1996 23:11:08 PDT

To: aprssig@tapr.org
Message-ID: <19961008.230653.11863.15.ddobbins@juno.com>
Rendered body type: text/plain

```
I'll take Willie/KI7NV request for info on remote trackers for action. No
need for anyone else to respond. Willie:  I'll answer your question
direct, and provide other info that may be of interest to you.

David S. Dobbins/WH6YC      Pacific Northwest APRS Coordinator
POB 553   404 N Third St        Email: ddobbins@juno.com
Pe Ell, WA 98572-0553           VHF 147.06 T110.9, or 145.43
tel: 360-291-3707                    APRS 145.79, 145.75
pager: 800-514-7489              "In GOD we trust, all others we track by
GPS"
```

---

311. Re: [APRSSIG:5574] Newbie GPS Question - Antenna

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Mon, 14 Oct 1996 08:57:24 -0400
To: aprssig@tapr.org
Message-ID: <326238B4.3376@the-hermes.net>
Rendered body type: text/plain

```
Donald Rotolo wrote:
>
> Another question: I've tried to send data to the GPS 20, to tell it to stop
> sending some of the sentences I don't care about, but it doesn't seem to get the
> message.  I noticed that everything has a checksum (?) at the end of the
> sentence, preceded by an asterisk (*) - since I didn't see how that is
> calculated, I didn't include it.  I am supposing now that it is required, so how
> DO I calculate it?
>

The checksum is the XOR of all characters between $ and * (excluding
those
characters).  It is a single byte which must be sent as two ASCII
characters.
For example, to disable all messages, send the string:
        $PGRMO,,2*75<cr><lf>

<cr> is the carriage return:  0x0D
<lf> is the linefeed:  0x0A

To enable only the GPRMC message:
        $PGRMO,GPRMC,1*3D<cr><lf>


73 de Will, N3XLM, President
Clement Engineering, Inc.
```

---

312. Re: [APRSSIG:5567] KPC-3 settings

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 14 Oct 1996 08:03:36 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961014080306.11831B-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Check to see if your CD setting is still software.

On Sun, 13 Oct 1996, Richard Ball wrote:

> I could use some help.  I am running my APRS system in my car.  Garmin45, KPC-3
> V6, DR1200 radio, laptop.  The last couple of times out in the car the system
> sent fine but I never saw on my screen any of the stations that heard and sent
> back to me.  This includes my home station when I was at the end of the block.
> The car system did hear at one time, I don't know what I changed in the TNC.
>    Would someone tell me what, and to what, settings they change in the KPC-3
> from the defaults that come in it?
>
> Thanks.   73  Richard  N7Rig
>
>
```

---

313. Re: [APRSSIG:5553] Cheap HF rigs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 09:51:19 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014094218.15073C-100000@arctic>
Rendered body type: text/plain

```
On Sat, 12 Oct 1996, Dick Mead wrote:

> Well, It's not actually cheap, but I had not seen
> any mention of the Ten-Tec Scout. Here's a URL to a review.
> It's about double the cost and not xtal, but what the hey....

APRSdos REPLY/COMMENT:  It drifts.  Yes, it has frequency lock, IE, you
tune in a signal and it stays, but each time you power up the rig, you
will probably not be at the same starting point...  Does it have a
crystal option?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

314. Re: Tracker problem in 77C?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 09:55:23 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014095406.15073D-100000@arctic>
Rendered body type: text/plain

```
On Sun, 13 Oct 1996, Ronald Kramer wrote:

> when you made the change you broke the ssid structure on
> rx packet from mobiles with ssid of 15, I dont know about
> the other numbers above 9 and below 15 but my mobile
> does not show on my home station or my work shop station
> that are running 77 c, using the V screen all looks normal
> but the Plist show VE3MX-15 with a lat and long of 000000000's

APRSdos REPLY/COMMENT:  ANyone else seen this?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

315. Re: [APRSSIG:5568] Re: homemade patch antenna sucess

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 10:11:53 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014100915.15073I-100000@arctic>
Rendered body type: text/plain

```
On Sun, 13 Oct 1996, Clifford Buttschardt wrote:

>     Two models of the patch antenna were built using flashing copper
> sheet usually used by roofers.  This fifteen thousands thick material
> bends and cuts most easily but is difficult to solder.  (an
> understatement!)

It is much easier just to use PC board material.  The ground plane can be
double or single sided, but the patch must be single sided with the copper
side facing the ground plane.  You can carve out little lands using a
knife to solder the chip..

 Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

316. Re: [APRSSIG:5573] DigiPath

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 10:22:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014101857.15073K-100000@arctic>
Rendered body type: text/plain

```
On Sun, 13 Oct 1996, William Nolle wrote:

> In Version 77c the digi path command was changed (Why i don't know) ...
> I noticed ALT-B doesn't do anything now so why was it changed?.

APRSdos REPLY/COMMENT: Alt-B has changed to INPUT-MY-STATUS to be more
consistent with INPUT-MY-POSITION.  See the NEWNOTES.txt which comes with
each new version of APRS...

If there is a problem in the OPS-DIGI command, tell me about it.  There
were no changes made in that area...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

317. 77c and trackers.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 10:31:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014102950.15073M-100000@arctic>
Rendered body type: text/plain

```
Just got a phone call report of someone else 77c not seeing their tracker.
THis makes two.  I guess there may be a problem.  anyone have any ideas?
What does APRS show on the 25th line when it receives one of these
packets?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

318. Re: [APRSSIG:5580] Re: Programming Garmins

From: jkozak@erols.com (John W. Kozak)
Date: Mon, 14 Oct 1996 11:12:05 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199610141512.LAA27103@smtp1.erols.com>
Rendered body type: text/plain

```
>Donald Rotolo wrote:
>>
>> Another question: I've tried to send data to the GPS 20, to tell it to stop
>> sending some of the sentences I don't care about, but it doesn't seem to
get the
>> message.

>To enable only the GPRMC message:
>       $PGRMO,GPRMC,1*3D<cr><lf>
>
>
>73 de Will, N3XLM, President
>Clement Engineering, Inc.


I wonder if that could be told to the other Garmins as well as the GPS 20
module?
I have a Garmin 90 and it spits out tons of information. I haven't seen any
information on requesting specific data from this unit. Does anyone have a
copy of the GPS 20 instructions that I could  look at?

N3AGG
JWK
```

---

319. Skip this if U R not in LA area

From: aprs@juno.com (ap rs)
Date: Mon, 14 Oct 1996 11:23:38 EDT
To: aprssig@tapr.org
Message-ID: <19961014.082115.9958.1.aprs@juno.com>
Rendered body type: text/plain

```
Im travelling in LA area right now. See a few stations but so far none
have responded to my BLNs.  If you see me, pls message me. Also if there
is a particular voice freq y'all hang out on, let me know.   And what is
the Condor repeater for this area's frequency?

Sorry for the bandwidth- no other way to reach these folks.

Ralph N4NEQ-9
```

---

320. Re: Newbie GPS Question - Antenna

From: aprs@juno.com (ap rs)
Date: Mon, 14 Oct 1996 11:47:41 EDT
To: aprssig@tapr.org
Message-ID: <19961014.084531.9958.6.aprs@juno.com>
Rendered body type: text/plain

```
In using the Trackpac 35, which uses the GPS 25 engine, I find that the
checksum is not required for those commands (the ones that start and stop
sentences)

Using procomm or another term program, or possibly even APRS terminal
mode:  Just give it the info it needs, followed by C/R (I use the "Enter
Key)  and LF (I use CTRL J).  The checksum wasn't required and if
specifying ALL to be disabled or enabled, the  parameter thaty specifies
the sentence can be left blank.
```

```
 For example, to disable all messages, send the string:
      $PGRMO,,2   <ENTER  <CTRL-J>

To enable only the GPRMC message:
      $PGRMO,GPRMC,1  <ENTER> <CTRL-J>
```

Ralph N4NEQ
rwf@mindspring.com

---

321. Re: [APRSSIG:5580] Re: Newbie GPS Question - Antenna

From: TCox17892@aol.com
Date: Mon, 14 Oct 1996 12:19:43 -0400
To: aprssig@tapr.org
Message-ID: <961014121942_1580815725@emout06.mail.aol.com>
Rendered body type: text/plain

In speaking of messages sent to the GPS-20, Dr. William I. Clement wrote...

> <cr> is the carriage return: 0x0D
> <lf> is the linefeed: 0x0A

This notation confuses me, for two reasons: First, I think of CR and LF as single bytes, represented by two hex characters, 0D or 0A, and you show four hex characters. Second, the messages coming out of my GPS-20 seem to have only a single byte (0D) following the checksum.

---

322. 77C & Mobile GPS

From: JOHN.LANGTRY@resonet.com
Date: 14 Oct 1996 16:20:00 +0000
To: aprssig@tapr.org
Message-ID: <"ZNGA-6418-2900*/O=ENVOY
 100/ADMD=TELECOM.CANADA/C=CA/"@MHS>
Rendered body type: text/plain

Folks :

We got caught (in my case, again) by not reading the instructions; i.e. the newnotes.txt in the readme file.

When I got 77c up and running yesterday, I noticed also noticed the lack of VE3 mobiles; I assumed that we were all being stuffed with turkey and merely not mobile. (Wrong) I read Ron's note this morning and went and tried and experiment. I turned on the Jeep (-12) in my driveway and got the following reports; from Dave 3FGK, nothing on map, nothing on P list. From Lloyd 3BZF he could see my grey Jeep over top of my GATE symbol and he had me correctly in his P list. (Dave is running 77c and Lloyd is running 77) Odd.

Then I noticed that I could see AA4QI-12 in Florida as a Jeep and wondered what the heck. I could see my string on line 24, all looked fine, so what de heck was the difference ? Answer, I send out a $GPGGA string, whilst AA4QI-12 was sending a GGA, an RMC (which by the way, Bob, was being parsed as "No> string"). Oh, isn't that interesting.

Look at P list and find that the mobile that I can see (AA2QI) is in there with a GLL. Scratched my head. So, when all else failed, looked at the newnotes ... Tah Dah ! Bob no longer defaults to parsing a GGL sentence; you want to see me (or yourself, Ron) try <ALT>S GPS MODES and select GGA. Poof ! I'm back on the map and in the P list; Dave 3FGK confirms this.

Which leaves me with a couple of questions; why the change in the default ? (or Why not parse both GGA or RMC as it did in the past ?) Secondly, anyone any idea of how to make the stand alone Tiny Two change which sentence it gives out from the built in Trimble GPS to RMC or whatever the default is ? (I'm not sure that I really want to give out my RMC, you see I have this nice big V-8 in my Jeep and there is a station with the call of VA3OPP running APRS ! hi hi) Bob, wonder if they can use APRS to automate the sending of speeding tickets ?

Ron, I've mis-placed you e-mail address; could you fire that one off to me again, please. Bob, any thoughts on going back to parsing both sentences; if not which stentence should be "standard" ?

vy 73 to all, de John VE3NEC (john.langtry@resonet.com).

---

323. Re: [APRSSIG:5585] Re: DigiPath

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 14 Oct 1996 11:44:28 -0700
To: aprssig@tapr.org
Message-ID: <32628A0C.3F10@concentric.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Sun, 13 Oct 1996, William Nolle wrote:
>
> > In Version 77c the digi path command was changed (Why i don't know) ...
> > I noticed ALT-B doesn't do anything now so why was it changed?.
>
> APRSdos REPLY/COMMENT: Alt-B has changed to INPUT-MY-STATUS to be more
> consistent with INPUT-MY-POSITION.  See the NEWNOTES.txt which comes with
> each new version of APRS...
>
> If there is a problem in the OPS-DIGI command, tell me about it.  There
> were no changes made in that area...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

Well my copy must be a special one HI. I-M-S just changes the beacon text
(right)

I-M-P changes my Lat/Lon (Right)

O-D stores often used digi path's (Right)

Now where did the command go to make a quick temporary digi change when
needed.?
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

324. Digi Path

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 14 Oct 1996 12:11:45 -0700
To: aprssig@tapr.org
Message-ID: <32629071.5300@concentric.net>
Rendered body type: text/plain

```
Ok Ok, don't say it Hi. I found the command i was looking for, strange
it's been there right along ;-). This is what i'm talking about though
doesn't anybody have a list of APRS commands? (Not even the Author?) that
a person can print out as a reference. The command I was looking for of
course was the U = Digi path. I personally would like to see a file
available with ALL the updated APRS commands and of course what they do.
I had at one time started to convert all the F1-F files to help with this
but gave up when they changed so often, but if I had those I would still
do that, then all you would have to do is enter that command name and up
pops the explination for that command.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

325. Re: [APRSSIG:5590] Re: Newbie GPS Question - Antenna

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Mon, 14 Oct 1996 13:22:24 -0400
To: aprssig@tapr.org
Message-ID: <326276CF.6F5F@the-hermes.net>
Rendered body type: text/plain

TCox17892@aol.com wrote:
>
> In speaking of messages sent to the GPS-20, Dr. William I. Clement wrote...
>
> >   <cr> is the carriage return: 0x0D
> >   <lf> is the linefeed: 0x0A
>
> This notation confuses me, for two reasons: First, I think of CR and LF as
> single bytes, represented by two hex characters, 0D or 0A, and you show four
> hex characters. Second, the messages coming out of my GPS-20 seem to have
> only a single byte (0D) following the checksum.

0x0D is the 'C' way of writing hexadecimal. Sorry for the confusion.
As for the LF, I use it but perhaps it is unnecessary. I took this
from the GPS-20 manual and have used it successfully.

Will Clement, N3XLM

326. FW: [APRSSIG:5591] 77C & Mobile GPS

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 14 Oct 1996 13:38:05 -0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBB9D4.EF07ED20@gwyn.paccomm.com>
Rendered body type: text/plain

JOHN.LANGTRY@resonet.com[SMTP:JOHN.LANGTRY@resonet.com] asked:

Secondly, anyone any idea of how to make the stand alone
Tiny Two change which sentence it gives out from the built in
Trimble GPS to RMC or whatever the default is ?

Answer: The Parameter put into GPSTEXT is what is parsed for and put into
the LTEXT (or BTEXT on real old models). GPSTEXT defaults to $GPGGA. If
you put $GPVTG you will get that string. If you put $GP (thats all) you
will get both strings.

Those are the only two strings the Trimble SVee6 puts out in standard form.
We are making arrangements to change the strings produced to include $GPRMC
and perhaps others. I will make an announcement on the SIG when that is
accomplished.

327. Re: [APRSSIG:5567] KPC-3 settings

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 14 Oct 1996 10:56:04 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961014175604.0068ca00@mailhost.primenet.com>
Rendered body type: text/plain

Richard, be sure that the Garmin is set to NONE/NEMA in the I/O settings.
Have the TNC in Terminal mode and you should be OK. Be sure that you have
locked on to the necessary number of Sats before you start moving.

I have the same basic setup and will be happy to help you, directly, if you
need more help. Good luck, hope to see you on the map!

73, Alan

At 03:12 PM 10/13/96 -0500, you wrote:
>I could use some help. I am running my APRS system in my car. Garmin45, KPC-3
>V6, DR1200 radio, laptop. The last couple of times out in the car the system
>sent fine but I never saw on my screen any of the stations that heard and sent
>back to me. This includes my home station when I was at the end of the block.
>The car system did hear at one time, I don't know what I changed in the TNC.
>   Would someone tell me what, and to what, settings they change in the KPC-3
>from the defaults that come in it?
>
>Thanks.   73 Richard N7Rig
>
>
>

Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

328. No problem with OPS-DIGI in 77c.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 14:29:13 -0400 (EDT)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014142654.21691B-100000@arctic>
Rendered body type: text/plain

```
> On Sun, 13 Oct 1996, William Nolle wrote:
>
> > In Version 77c the digi path command was changed (Why i don't know) ...

APRSdos REPLY/COMMENT:  If you do not have a TNC connected or it is not
talking to the PC, then the OPS-DIGI command will appear not to work,
since it was unable to change the digi path in the TNC...  Otherwise, I
could find no problems.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

329. Re: [APRSSIG:5591] 77C & Mobile GPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 14:38:27 -0400 (EDT)
To: JOHN.LANGTRY@resonet.com
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014143543.21691D-100000@arctic>
Rendered body type: text/plain

```
Sounds like VE3NEC figured it out.  My intent was to make it so that you
could select which sentence, GGA or GLL or RMC that your GPS used.  This
would avoid some HSP timeouts when APRS just used whatever it got first
(if it wasnt a RMC...).

But (ARGH) I forgot that this same routine also parses on-the-air packets
too, so your selection will also apply to what you hear!  Looks like I
gotta fix that...  Can you select them all?  Ill have to check...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

330. Re: [APRSSIG:5592] Re: DigiPath

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 14:42:12 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014144109.21691F-100000@arctic>
Rendered body type: text/plain

```
On Mon, 14 Oct 1996, William Nolle wrote:

> > On Sun, 13 Oct 1996, William Nolle wrote:
> >
> > > In Version 77c the digi path command was changed (Why i don't know) ...
> Well my copy must be a special one HI. I-M-S just changes the beacon text
> Now where did the command go to make a quick temporary digi change when
> needed.?

APRSdos REPLY/COMMENT:  Same place as always.  OPS-UNPROTO

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

331. Re: [APRSSIG:5593] Digi Path

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 14 Oct 1996 14:45:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961014144409.21691I-100000@arctic>
Rendered body type: text/plain

```
On Mon, 14 Oct 1996, William Nolle wrote:

> doesn't anybody have a list of APRS commands? (Not even the Author?)
> that a person can print out as a reference.

APRSdos REPLY/COMMENT:  That is supposed to be what HELP.TXT file is.  A
list of commands and what they do.  I try to update it whenever I change
anything...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

332. Re: [APRSSIG:5593] Digi Path

From: ad4bl@juno.com (Linda G Mullen)
Date: Mon, 14 Oct 1996 15:54:54 CDT
To: aprssig@tapr.org
Message-ID: <19961014.151019.3374.3.ad4bl@juno.com>
Rendered body type: text/plain

```
William, one thing that I have done...I typed out all the commands
in shortened form and printed them out and put it in a booklet that I can
pull out, check, mark-up, highlight, etc.  It is most helpful.


Linda Mullen  AD4BL  DEC East Panhandle District
Northern Florida Section
Email   ad4bl@juno.com   or ad4bl@beaches.net
Everything worth doing takes courage
```

---

333. Re: [APRSSIG:5577] Re: KPC-3 settings

From: kb6lfm@ix.netcom.com
Date: Mon, 14 Oct 1996 13:15:00 -0700
To: aprssig@tapr.org
Message-ID: <32629F44.265E@ix.netcom.com>
Rendered body type: text/plain

```
ap rs wrote:
>
> Richard-
> First and foremost:  Make sure you input the command  INTERFACE NORMAL so
> the TNC knows more than just its "name,rank, and serial #"
>
> The rest of the commands will be set when you bring up APRS.  Tell APRS
> you have a TAPR TNC.
>
> Ralph N4NEQ
>
> On Sun, 13 Oct 1996 15:12:40 -0500 (CDT) Richard Ball
> <72155.1222@compuserve.com> writes:
> >I could use some help.  I am running my APRS system in my car.
> >Garmin45, KPC-3
> >V6, DR1200 radio, laptop.  The last couple of times out in the car the
> >system
> >sent fine but I never saw on my screen any of the stations that heard
> >and sent
> >back to me.  This includes my home station when I was at the end of
> >the block.
> >The car system did hear at one time, I don't know what I changed in
> >the TNC.
> >   Would someone tell me what, and to what, settings they change in
> >the KPC-3
> >from the defaults that come in it?
> >
> >Thanks.   73  Richard  N7Rig
> >
> >
> >The command is "INTFACE TERMINAL" Richard.
```

---

334. Re: [APRSSIG:5596] Re: KPC-3 settings

From: kb6lfm@ix.netcom.com
Date: Mon, 14 Oct 1996 13:30:36 -0700
To: aprssig@tapr.org
Message-ID: <3262A2EC.22B9@ix.netcom.com>
Rendered body type: text/plain

```
Alan K. Unangst wrote:
>
> Richard, be sure that the Garmin is set to NONE/NEMA in the I/O settings.
> Have the TNC in Terminal mode and you should be OK. Be sure that you have
> locked on to the necessary number of  Sats before you start moving.
>
> I have the same basic setup and will be happy to help you, directly, if you
> need more help. Good luck, hope to see you on the map!
>
> 73,  Alan
>
> At 03:12 PM 10/13/96 -0500, you wrote:
> >I could use some help.  I am running my APRS system in my car.  Garmin45, KPC-3
> >V6, DR1200 radio, laptop.  The last couple of times out in the car the system
> >sent fine but I never saw on my screen any of the stations that heard and sent
> >back to me.  This includes my home station when I was at the end of the block.
> >The car system did hear at one time, I don't know what I changed in the TNC.
> >   Would someone tell me what, and to what, settings they change in the KPC-3
> >from the defaults that come in it?
> >
> >Thanks.   73  Richard  N7Rig
> >
> >
> >
> Alan K. Unangst, WC7R
> E-mail: alanwc7r@primenet.com
> Amateur Radio Packet: WC7R @ KB7FRV


More TYPO's..... Command is "NONE/NMEA"......
```

---

335. Re: [APRSSIG:5601] Re: Digi Path

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 14 Oct 1996 16:21:20 -0700
To: aprssig@tapr.org
Message-ID: <3262CAF0.1543@concentric.net>
Rendered body type: text/plain

```
Linda G Mullen wrote:
>
> William, one thing that I have done...I typed out all the commands
> in shortened form and printed them out and put it in a booklet that I can
> pull out, check, mark-up, highlight, etc.  It is most helpful.
>
> Linda Mullen  AD4BL  DEC East Panhandle District
> Northern Florida Section
> Email   ad4bl@juno.com   or ad4bl@beaches.net
> Everything worth doing takes courage

Thanks Linda, sounds like a good idea that i may have to break down and
do also. Things are getting to involved to remember Hi. Thanks for the
help.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

336. Re: [APRSSIG:5574] Newbie GPS Question - Antenna

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 14 Oct 1996 19:07:30 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610141946.B7397-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
I have a Garmin 75 and it has an excellent removable antenna.  I played a
bit with a tiny dipole and it worked fine except it had about a third to
a half of the signal indication as the Garmin antenna.

The dipole will work, if your unit is working ok.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us
```

---

337. Re: [APRSSIG:5572] WEATHER STATION SIGNAL REPORT

From: jm1@webspan.net (Jay Millard)
Date: Mon, 14 Oct 1996 21:09:12 +0000
To: aprssig@tapr.org
Message-ID: <v01510102ae885b2f23d9@[38.10.232.19]>
Rendered body type: text/plain

```
Geoffrey Dick recently wrote to the SIG:

>Listed below are weather stations received and recorded on my H-screen
>as viewed from Winter Park, Florida, 6 miles north of Orlando
>On Sunday, 10/12/96:
>HR ESDT  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
>-------+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--
>KE4LOJ  41 29 40 42 41 36 39  5 17 17 11 12 18 13 16 15 17 20 26 27 20 22 23 37
```

```
>KD4MRL  11 11 11  8  9  7 15 13 11 11 24 22  9  8  7  9  7 11 25  3  1  0  1  8
```

etc., <snip for bandwith police>
>Those individuals operating weather stations may find this information useful
>for illustration of propagation into other areas.
>
>   Geoffrey Dick, WA4IKQ
>   Winter Park, Florida
>   wa4ikq@nevets.oau.org

I suspect my WX station was not there because it broadcasts on HF, and VHF for a RELAY and 2 WIDES from Connecticut.

My question to the SIG (hier and lower archy): does it make any sense to put a GATE on the HF side to put it out on VHF networks all over the place, say once an hour? Or would this be of insufficient interest to warrant the bandwidth?

73 de Jay

Jay Millard
Harmill Communications Inc.
** Amateur Radio Station KD1LY **
Darien, Connecticut 06820

---

338. Re: [APRSSIG:5605] Re: Newbie GPS Question - Antenna

From: David Wells <davew@cruzio.com>
Date: Mon, 14 Oct 1996 21:03:44 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <9610141811.aa28765@cruzio.com>
Rendered body type: text/plain

At 06:27 PM 10/14/96 -0500, you wrote:
>I have a Garmin 75 and it has an excellent removable antenna. I played a
>bit with a tiny dipole and it worked fine except it had about a third to
>a half of the signal indication as the Garmin antenna.
>
>The dipole will work, if your unit is working ok.
>
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us
>

The G75 antenna has a preamp in it which helps out a bit.

Dave KD6TO
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA

---

339. Re: [APRSSIG:5605]GPSPatch Antenna

From: John Kozak <jkozak@erols.com>
Date: Mon, 14 Oct 1996 22:15:01 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961015021501.006869bc@pop.erols.com>
Rendered body type: text/plain

I just ordered the Trimble GPS antenna from Paccom, but they are they are out of stock at the moment. So, while I wait, I figured I'd build the GPSPatch antenna.
With some scrap aluminum, hotglue and a tape measure, I whipped up an antenna without much attention to precision. I figured I'd have to add some amplification to get it to really work, but after 30 minutes building it, I took it outside and turned on my Garmin 90. I had lock on 4 satellites almost immediately with stronger signals than the antenna that comes with it! It does favor the higher satellites over the lower ones but I was impressed. Don't let the precision of measurements deture you from trying to build your your own antenna. I was so impressed I built a second one with nylon screws and spacers.

N3AGG
John Kozak

---

340. Re: [APRSSIG:5606] Re: WEATHER STATION SIGNAL REPORT

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 14 Oct 1996 21:33:04 -0700
To: aprssig@tapr.org

Message-ID: <32631400.3DD3@concentric.net>
Rendered body type: text/plain

```
Jay Millard wrote:
>
> Geoffrey Dick recently wrote to the SIG:
>
> >Listed below are weather stations received and recorded on my H-screen
> >as viewed from Winter Park, Florida, 6 miles north of Orlando
> >On Sunday, 10/12/96:
> >HR ESDT  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
>
>-------+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--
> >KE4LOJ  41 29 40 42 41 36 39  5 17 17 11 12 18 13 16 15 17 20 26 27 20 22 23 37
> >KD4MRL  11 11 11  8  9  7 15 13 11 11 24 22  9  8  7  9  7 11 25  3  1  0  1  8
>
> etc., <snip for bandwith police>
> >Those individuals operating weather stations may find this information useful
> >for illustration of propagation into other areas.
> >
> >                             Geoffrey Dick, WA4IKQ
> >                             Winter Park, Florida
> >                             wa4ikq@nevets.oau.org
>
> I suspect my WX station was not there because it broadcasts on HF, and VHF
> for a RELAY and 2 WIDES from Connecticut.
>
> My question to the SIG (hier and lower archy):  does it make any sense to
> put a GATE on the HF side to put it out on VHF networks all over the place,
> say once an hour?  Or would this be of insufficient interest to warrant the
> bandwidth?
>
> 73 de Jay
>
> Jay Millard
> Harmill Communications Inc.
> ** Amateur Radio Station KD1LY **
> Darien, Connecticut  06820

Well Jay i sure would rather see some WX stations then what i'm seeing
tonight again form HF. Nothing but keyboarding from VHF<->HF i just don't
understand why an HF station would want to have their message plastered
all over both bands at the same time, and then have the nerve to tell a
VHF user not to dare do the same, go figure.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

341. trimble board & KPC-3

From: Bill Kearns <billk@inland.net>
Date: Mon, 14 Oct 1996 19:45:10 -0700
To: aprssig@tapr.org
Message-ID: <2.2.16.19961014195711.29ef5dce@inland.net>
Rendered body type: text/plain

```
hello all,

        a friend of mine recently picked up a Paccomm Tiny-2 with the
Trimble GPS board installed inside. (this is a brand new perfectly working
unit!).  What we would like to do is to install the Trimble gps board inside
a  Kantronics KPC-3.  (believe it or not it almost fits!)  maybe a
modification to the case or i could have my sheet metal friend make a new
case for the kpc-3 and it would be a perfect fit.   our problem is this....
the trimble works perfect with the tiny-2 but we cannot get it to work with
the kpc-3,,,,,, anyone have any idea why?  we KNOW, we have the all the
connections correct.. but just cannot get it to work.....when we put the
board back into the Tiny-2 it works fine...
also....we have the garmin software installed on a laptop...it reads data
from the garmin like there was no tomorrow.... but when we hook up the
trimble board it reads garbage....  any help out there??
```

```
                                 /////
Bill Kearns  WB6JAR          ( o o )         billk@inland.net

--------------------------oOO--(_)--OOo-----------------------
```

---

342. Re: [APRSSIG:5577] Re: KPC-3 settings

From: James Duncan <ku0g@sprynet.com>
Date: Mon, 14 Oct 1996 20:33:22 -0700
To: aprssig@tapr.org
Message-ID: <199610150333.UAA18300@m1.sprynet.com>
Rendered body type: text/plain

```
At 00:29 10/14/96 -0500, you wrote:
>Richard-
>First and foremost:  Make sure you input the command  INTERFACE NORMAL so
>the TNC knows more than just its "name,rank, and serial #"
>
>The rest of the commands will be set when you bring up APRS.  Tell APRS
>you have a TAPR TNC.
>
>Ralph N4NEQ
Actually, that would be INTERFACE TERMINAL.....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

343. AutoWx problems??

From: Mark Oppenheim <marko@tetherless.com>
Date: Mon, 14 Oct 1996 21:06:35 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961014210645.46c7b0ba@gorgor.pa.tetherless.com>
Rendered body type: text/plain

```
I know that in the past there were problems that the APRS strings generated
by the AutoWx program were not reported correctly, and setting off APRS
alarms (ie: it tended to report total rainfall, rather than rainfall
rate)... has this been fixed?  What is the current version of AutoWx... the
file on TAPR (AW2K42D.ZIP) seems to be corrupted - at least on the 2
downloads that I have done on the file...

Mark
```

---

344. Re: [APRSSIG:5586] 77c and trackers.

From: David McCarthy <davidmc@goodnet.com>
Date: Mon, 14 Oct 1996 21:26:18 -0700
To: aprssig@tapr.org
Message-ID: <32631249.3A38@goodnet.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Just got a phone call report of someone else 77c not seeing their tracker.
> THis makes two.  I guess there may be a problem.  anyone have any ideas?
> What does APRS show on the 25th line when it receives one of these
> packets?
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

I had several occurances of this over the weekend.  As I recall, line 25
should the recieved packet starting with GGA.  The strings did have the
Lon/Lat in them, but when you check the Posit list, it just showed 0s.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

---

345. Re: [APRSSIG:4610] DFjr Good or Bad

From: Scott Walsh <n5nys@ix.netcom.com>
Date: Tue, 15 Oct 1996 00:28:48 -0500
To: aprssig@tapr.org
Message-ID: <32632110.5D28@ix.netcom.com>
Rendered body type: text/plain

DFjr Good or Bad? I wish I knew!

I have had my DFjr on order since June24th and have not received it yet. I tried calling the 1-800 number with no answer today 10-14-96. I then tried their long distance number and still got no answer. I had the same experiance back on 9-30-96.

Has anybody received a DFjr? How long did you have to wait? Did Agrelo call you and tell you that it would take longer or did you call them or what?

Also, does anybody know if Agrelo might have gone out of business or just changed their phone number? I have the credit card reversal forms filled out and ready to send in, but I don't want to go that route without knowing first what is going on. If they have been backlogged for four months, I hate to cancel the order and go back down to the bottom of the list.

Is this message off topic? Probably. However the motivation isn't. I want to be able to demonstrate ARPS's ability for DFing to all of the other people that are investing heavily in an APRS statewide network in Oklahoma on 145.79. I believe that if I can get the DF unit so that I can demo it with APRS, many people will want to invest in it now, before the spring wx season hits. If everyone is already equipped by spring, it will be a cinch to get them to use APRS for wx.

Thanks in advance,

Scott
n5nys@ix.netcom.com

---

346. Re: [APRSSIG:5614] Re: DFjr Good

From: kc5ejk@onramp.net (Robert Winingham)
Date: Tue, 15 Oct 1996 01:07:22 -0600
To: aprssig@tapr.org
Message-ID: <v02140b00ae88e5c866ec@[199.1.11.134]>
Rendered body type: text/plain

>
>I have had my DFjr on order since June24th and have not received it
>yet. I tried calling the 1-800 number with no answer today 10-14-96. I
>then tried their long distance number and still got no answer. I had the
>same experiance back on 9-30-96.

I ordered on June 13 and just got my unit. We have 4 that I know of in Dallas,TX.

Joe e-mails on this sig all the time and is very good about replying to e-mail.

Does this look like something you have seen before on the sig:

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

It was worth the wait and I am have fun with my unit.

Joe has explained he was flooded with orders and to expect some delay.

I think it is great that several of the Ham vendors monitor this sig.
Thanks to
Joe Agrelo Jagrelo@cris.com
Gwyn Reedy gwyn@paccomm.com
"Dr. William I. Clement" wclement@the-hermes.net
Just to make a few who have posted to the APRSsig this week.

73

```
Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

347. W9ZMR Mobile East Coast

```
From: "Ron Malinowski, Jr." <weather@xnet.com>
Date: Tue, 15 Oct 1996 01:13:00 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199610150613.BAA20546@mail.xnet.com>
Rendered body type: text/plain
```

```
Hi,
I am sending this message for a friend, Ken W9ZMR, as you may have known,
his last trip was not heard (from Chicago to Dallas to Phoenix, to LA to
seattle and back through MN and to Chicago),  well some adjustments have
been made and he is leaving in the morning for NJ and then NC from Chicago,
a week long trip.  I expect him to hit some gates on the coast cause I see
gates out in NJ, but I would like to have any reports if you see him, he is
running 15 watts VHF 2 seperate paths one going through and out a gate.
Thanks, replies if you see him can be sent to him at kenpiletic@aol.com,
or to me and I will forward.
Ron
```

348. Re: [APRSSIG:5614] Re: DFjr Good or Bad

```
From: William Nolle <wa8inz@concentric.net>
Date: Tue, 15 Oct 1996 01:36:18 -0700
To: aprssig@tapr.org
Message-ID: <32634D02.360D@concentric.net>
Rendered body type: text/plain
```

```
Scott Walsh wrote:
>
> DFjr Good or Bad? I wish I knew!
>
> I have had my DFjr on order since June24th and have not received it
> yet.  I tried calling the 1-800 number with no answer today 10-14-96.  I
> then tried their long distance number and still got no answer. I had the
> same experiance back on 9-30-96.
>
> Has anybody received a DFjr?  How long did you have to wait?  Did Agrelo
> call you and tell you that it would take longer or did you call them or
> what?
>

-------------- SNIP ------------------

> Scott
> n5nys@ix.netcom.com

Yes Scott i have had mine for a while now and waited 6 weeks almost to the
day. Joe Agrelo always says that soon they will be off the shelf in stock
items, but then again he has said that many times Hi. I would send Joe a
message about your order, he may have lost it. It shouldn't take that long
but then again he maybe taking care fo those that paid in advance. Here is
Joe's address. Mine altough having some things i would like to see changed
works good and have had few problems.

jagrelo@concentric.net

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

349. KPC3 commands

```
From: jclakeland@ucdavis.edu (John Lakeland)
Date: Tue, 15 Oct 1996 00:43:37 -0800
To: aprssig@tapr.org
Message-ID: <199610150743.AAA13171@franc.ucdavis.edu>
Rendered body type: text/plain
```

```
Gentlemen,
   The KPC3 comes with a book that gives all the commands etc. Don't know
what a guy would do if he didn't have it, but the command in question is
```

```
INTFACE TERMINAL. Notice it's not interface but INTFACE. As with most
elecronic devices close is not good enough. I have made several changes to
the default settings to get the KPC3 to work with Mac APRS among them
disabling software handshaking. Good luck John Lakeland kc6vlr
```

350. Re: Newbie GPS Question - Antenna

From: aprs@juno.com (ap rs)
Date: Tue, 15 Oct 1996 04:03:23 EDT
To: aprssig@tapr.org
Message-ID: <19961014.225905.12334.3.aprs@juno.com>
Rendered body type: text/plain

```
On Mon, 14 Oct 1996 12:42:00 -0500 (CDT) "Dr. William I. Clement"
>As for the LF, I use it but perhaps it is unnecessary.  I took this
>from the GPS-20 manual and have used it successfully.

The LF is required, and it has to be after the CR
```

351. Re: KPC-3 settings

From: aprs@juno.com (ap rs)
Date: Tue, 15 Oct 1996 04:03:23 EDT
To: aprssig@tapr.org
Message-ID: <19961014.225905.12334.8.aprs@juno.com>
Rendered body type: text/plain

```
On Mon, 14 Oct 1996 15:24:03 -0500 (CDT) kb6lfm@ix.netcom.com writes:
>> >The command is "INTFACE TERMINAL" Richard.

Whoops, Sorry!

Of course that's right. A slip of the meory cells. Must be the clean,
fresh air out here on the left coast.

LA...   Where we see at least two San Diego mobile trackers beaconing
once a minute with either a null position or a stationary position thru a
path of  WIDE,WIDE, GATE,GATE, WIDE,WIDE

Or even better yet:  WIDE,WIDE, RELAY



AND

Almost every UHF repeater is private and closed
```

352. Re: [APRSSIG:5591] 77C & Mobile GPS

From: aprs@juno.com (ap rs)
Date: Tue, 15 Oct 1996 04:03:23 EDT
To: aprssig@tapr.org
Message-ID: <19961014.225905.12334.7.aprs@juno.com>
Rendered body type: text/plain

```
On Mon, 14 Oct 1996 11:33:35 -0500 (CDT) JOHN.LANGTRY@resonet.com writes:

>( I'm not sure
>that I really want to give out my RMC, you see I have this nice
>big V-8 in my Jeep and there is a station with the call of VA3OPP
>running APRS ! hi hi) Bob, wonder if they can use APRS to automate
>the sending of speeding tickets ?
>

hehe   Just don't tell them the APRS P List readout is in KNOTS.  That
should buy you a little bit of leeway.

Didn't work for me, though.
Anyone know if Missouri State Patrol adds "points" for speeding tickets?
```

353. Re: [APRSSIG:5614] Re: DFjr Good or Bad

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 15 Oct 1996 07:34:02 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961015072711.31589A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
The DFjr is worth the wait! I was one of the first to order, and it took
8 weeks to the day to get in. Yes, I thought it would never arrive, but
finally it did! Brother, I can tell you , I've had more fun with it, as
you will, in our local foxhunts here in the hills of north central Arkansas.
```

One thing that I have to comment on, is the support that Joe has given. He worked with me (and others) on a daily basis, helping me fine tune and eventually identify a problem. I later became a "beta tester" for a new uP chip for the DFjr. But anyway, they have made changes and improvements and supplied them to the owners free of charge! Like a new uP chip upgrade and a redesigned antenna array.

So, wait? You bet!

---

354. Re: [APRSSIG:5612] AutoWx problems??

From: Les Blalock <lcb911@apex2000.net>
Date: Tue, 15 Oct 1996 08:30:18 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961015082621.1fcf8c32@apex2000.net>
Rendered body type: text/plain

Yes, the rainfall amounts were fixed in AutoWx sometime back. I rember the problem only in the Ultimeter II version. (Rain defaulted to 999 if there was an error - now the default is 000 if there is an error.)

I downloaded AW2k42D.ZIP this morning and it works fine - maybe a line or IP problem when you tried? AutoWx 2K is for the Ultimeter 500 and 2000 models and uses the Ultimeter Complete Record Mode. Version 2K 4.2d uses the newer beacon format of APRS 77. AutoWx (with awii in the filename) is for the Ultimeter II and the current version (AWii8xx.ZIP) can also be found in the TAPR software libarary.

Version 2K42d is the current release - 2k44 is being tested now in a couple of wx networks.

Thanks,

Les/N5KOA

At 11:23 PM 10/14/96 -0500, you wrote:
>I know that in the past there were problems that the APRS strings generated
>by the AutoWx program were not reported correctly, and setting off APRS
>alarms (ie: it tended to report total rainfall, rather than rainfall
>rate)... has this been fixed? What is the current version of AutoWx... the
>file on TAPR (AW2K42D.ZIP) seems to be corrupted - at least on the 2
>downloads that I have done on the file...
>
>Mark

---

355. Re: DFjr Good or Bad

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Tue, 15 Oct 1996 08:35:06 -0500
To: Scott Walsh <n5nys@ix.netcom.com>, aprssig@tapr.org
Message-ID: <9610150835.AA06451@oscar.telalink.net>
Rendered body type: text/plain

> DFjr Good or Bad? I wish I knew!
>
> I have had my DFjr on order since June 24th and have not received it
> yet. I tried calling the 1-800 number with no answer today 10-14-96.
> I then tried their long distance number and still got no answer. I had
> the same experiance back on 9-30-96.
>
----- SNIP ------
>
> Scott
> n5nys@ix.netcom.com

First thing is that Monday was a holiday for some folks and that may have included Agrelo. I talked to a friend yesterday who had talked to Joe either last Thursday or Friday. Joe told Mark that his DFjr. was being shipped that day. They apperently had a bit of a problem with some circuit boards (I think) and that caused them to get a bit behind in filling orders. When you get behind like that you get caught in the delema of continuing to work to fill the orders or taking time out (and further delay the process) to call everybody and explain why there is a delay. I have heard good things about the DFjr. and look forward to the day that it reaches the top of the priority list and I can order one too.

Bruce, KQ4TV

```
--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Never ask what sort of computer a guy drives.              *
* If he's a Mac user, he'll tell you.                         *
* If not, why embarrass him?"    -- Tom Clancy                *
****************************************************************
```

356. Re: Radar Coded Message

From: Tom Weeden <tcweeden@execpc.com>
Date: Tue, 15 Oct 1996 10:47:47 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <199610151547.KAA01754@mail.execpc.com>
Rendered body type: text/plain

Hi Mark,

A while ago you asked for suggestions to enhance the Mac & WinAPRS versions and I suggested adding parsing for the National Weather Service's RCM (Radar Coded Message). I don't remember if you said that you needed the program and/or data files, but I can send you a copy of the program if you still need it. Let me know.

Thanks

--Tom Weeden, WJ9H
South-Central Wisconsin SKYWARN Net Manager
Madison, WI

APRS: !4301.38N/08929.95W

357. Re: [APRSSIG:5554] Re: REMOTES ?

From: "Tom Busch" <busch_th@se.crane.navy.mil>
Date: Tue, 15 Oct 1996 10:14:49 -0500
To: <aprssig@tapr.org>
Message-ID: <2A0EDB401AA@avoca.se.crane.navy.mil>
Rendered body type: text/plain

> Are you going to be driving all of these cars? If not I would be
carefull
> of letting non-hams use your equipment without you being there as the
> control operator.

Actually, I think these would be covered as stations in automatic operation. But you're right...A non-ham may not initiate a transmission with out a control operator being present. I think a simple "Keep your mitts off." would suffice in most situations.

358. Re: [APRSSIG:5568] Re: homemade patch antenna sucess

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 15 Oct 1996 09:03:04 -0700 (PDT)
To: Donald Rotolo <73227.2644@CompuServe.COM>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961015085917.10777F-100000@spork.callamer.com>
Rendered body type: text/plain

Yes Don, putting a DC block on the MAR-6 input is a good idea if for no other reason than to isolate the bias supply to the IC. However, it is not disaster if a short occurs as would be the case if the Garmin 20 five volt supply were to be shorted to ground. Cliff K7RR

On 14 Oct 1996, Donald Rotolo wrote:

> I'll try that, once I finally get a copy of that article...
>
> The MAR-6 is a good choice. I would follow Mini-Circuit's recommendation to put
> a DC blocking cap at the input and output, then use the 5v from the garmin 20
> center pin to power the MAR-6 as you suggest. The MAR-6 has a noise figure of
> like 2.6 dB, so you couldn't do much better. If you REALLY want more gain, put
> 2 MAR-6's in series. Overkill, IMHO.
>
> 73,
> Don N2IRZ
>
>

359. DFjr update!

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 15 Oct 1996 12:19:26 -0700
To: aprssig@tapr.org
Message-ID: <3263E3BE.3C6B@cris.com>
Rendered body type: text/plain

Hi all,

With all the discussion about the DFjr it looks like people need
to know what is going on.

We are here Monday-Friday 9-5 (eastern), we were closed yesterday
for the holiday. The best place to get questions answered is through
direct email to me at mailto:jagrelo@cris.com
If it has appeared that we are not here maybe something is wrong
with the phone line, and it needs to be checked, we are getting
calls today however. There is no one to answer the phone during
our lunch hour and during the occasional morning meetings.

I havn't been very active on the SIG because I'm trying to get everyones
orders filled, which is the number one priority right now.

All the problems with the DFjr pc boards have been solved, any
open orders fron June and July are *all* shipping this week.

We have had more than our share of problems with the DFjr, but
most of it was due to poor employee workmanship during the assembly.
We have installed a fully automated pick-n-place surface mount assembly
line to help catch us up, that had a BIG learing curve. I am personaly
testing every DFjr myself, I now know that if you want something done
right, do it yourself.

When I do the test, I actally connect the DFjr to the MPA with a
Garmin-45 and watch all the data in a terminal program, I also
manualy spin the antenna array to make sure it is tracking properly
and that there is good tone, I put a scope on each antenna
to make sure the waves look good, and last, I scroll through some menus
to make sure the processor is doing it's thing.

I hope this helps.

Thanks for everyones patients and support.

73 De Joe N2OOC (new address & phone effective 8/15)
```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
             ph (518)864-7551 effective 8/15
            fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

360. Re: [APRSSIG:5626] Re: REMOTES ?

From: byoung@qni.com
Date: Tue, 15 Oct 1996 13:15:23 -0500
To: aprssig@tapr.org
Message-ID: <9610151815.AA03714@qni.com>
Rendered body type: text/plain

On Tue, 15 Oct 1996, "Tom Busch" <busch_th@se.crane.navy.mil> wrote:
>> Are you going to be driving all of these cars? If not I would be
>>carefull of letting non-hams use your equipment without you being
>>there as the control operator.
>
>Actually, I think these would be covered as stations in automatic
>operation. But you're right...A non-ham may not initiate a
>transmission with out a control operator being present. I think a
>simple "Keep your mitts off." would suffice in most situations.

OR... (if you're actually using a PC in each vehicle...) you can use
the ALT-S, (O)ther, (L)ock to prevent "unauthorized transmissions".
Comes in handy where threats to life and limb are insufficient. ;^)

Bill Young
byoung@qni.com
KB0UZQ

361. Re: [APRSSIG:5606] Re: WEATHER STATION SIGNAL REPORT

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 15 Oct 1996 15:30:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961015152412.16736C-100000@arctic>
Rendered body type: text/plain

On Mon, 14 Oct 1996, Jay Millard wrote:

> My question to the SIG: does it make any sense for my HF WX station to
> put a GATE on the HF side to put it out on VHF networks all over the place,
> say once an hour? Or would this be of insufficient interest to warrant the
> bandwidth?

APRSdos REPLY/COMMENT: In my opinion, that is good practice. But this assumes that you are the only such station in say 100 miles doing this on HF. What we dont need are three local VHF WX stations in XYZ City all reporting the same WX to us 1000 miles away. In fact, because of the 14 additional characters added just to get a VHF packet digipeated onto HF, I really dont like to see VHF WX stations going via GATES to HF at all. But since your station is already transmitting directly onto HF, that packet is much shorter. You may even go via GATE,WIDE in my opinion...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

362. Pittsburg PA Balloon launch 26 oct

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 15 Oct 1996 16:17:36 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961015161552.16736M-100000@arctic>
Rendered body type: text/plain

Finally, something we can track back east!

---------- Forwarded message ----------
Date: 06 Oct 96 16:36:00 UTC
Message-Id: 64987_W3SYY
From: aa3lt@w3syy.#wpa.pa.usa.na
To: atv@usbbs
Subject: ATV BALLOON LAUNCH

Path: N4HHP!N4GAA!AE1T!KA6EYH!W3IXR!KD3AI!W3OC!K3MJW!W2XO!WF0A!N8YIB!W3SYY

THERE IS TO BE A ATV BALLOON LAUNCH FROM GRID FN00 ON SATURDAY, 26OCT96

AT 1600 UTC. THE FREQUENCY WILL BE 439.25 MHZ AND THE RECOVERY BEACON

WILL BE 144.275 MHZ. LETS HOPE THE WEATHER IS GOOD FOR THE LAUNCH! WE

HOPE TO GET A GOOD VIEW FROM 75 TO 100,000 FEET! IF YOU WANT ANY INFO,

CONTACT WALT, AA3LT VIA PACKET. 73's.

--- end of message #875 ---

-KO4KS BBS

Grid FN00 is around nearby Pittsburgh area.

AA3LT is recorded as being at Bellwood, Pa 16617, off of Rt 220. Bellwood is east of Pittsburgh, NNE. of Cumberland, MD and Altoona, Pa., and just south of Tyrone, Pa.

363. APRS Slave

From: Les Blalock <lcb911@apex2000.net>
Date: Tue, 15 Oct 1996 15:41:44 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961015153748.1fcf80cc@apex2000.net>
Rendered body type: text/plain

At lunch today I had a sudden urge to run APRS on one computer while another was running AutoWx using a single tnc. A quick glance at the Slave stuff in

```
the OPS.TXT file seemed encouraging but I had no luck.  Rather than wiring
up RXD, TXD and GND as per the docs, only the RXD and GND were Y'd to the
second computer but I got no packets.  (Packets were seen on both computers
when I ran AutoWx on both computers but APRS saw no packets.)

Has anyone else played with this feature?  If so, did you have to jumper any
other pins on the slave computer end?  If I don't xmit from APRS, why
wouldn't the 2-pin cabling work?

Les/N5KOA
```

364. GPS Parity algorithm?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 15 Oct 1996 16:48:22 -0400
To: aprssig@tapr.org
Message-ID: <199610152048.QAA03607@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Does anyone have in emailable form the parity algorithm used in GPS
and RTCM messages?
```

365. DFjr manual

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 15 Oct 1996 16:53:17 -0700
To: aprssig@tapr.org
Message-ID: <326423ED.1B83@cris.com>
Rendered body type: text/plain

```
FYI

We are working on a new manual for the DFjr which will be very!
extensive, we hope to have this done in a few weeks (end of November),
At which time the manual will be downloadable from the new site we are
working on and available in a couple of formats such as .DOC, .PDF, etc.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

366. SEISMIC AGAIN

From: kd4emi@juno.com (Michael A. Kantor)
Date: Tue, 15 Oct 1996 18:20:54 EDT
To: aprssig@tapr.org
Message-ID: <19961015.182244.5375.1.KD4EMI@juno.com>
Rendered body type: text/plain

```
I worked on the lightning monitor last week and I think I can get it to
trigger when a big strike hits nearby...It is kinda lousy though and the
professional stuff available really puts the copper VLF receiver to
shame. You really need a VLF type ground and that is a major pain in the
rear.

I have been seeing SEISMIC alert devices advertized...I will contact the
manufacturer and see whats up.  Might be fun...
Mike
```

367. Slave - Never Mind

From: Les Blalock <lcb911@apex2000.net>
Date: Tue, 15 Oct 1996 17:34:36 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961015234845.108f71ca@apex2000.net>
Rendered body type: text/plain

```
Re: Slave Mode

Nevermind...  When I got home from work and checked the cables, I had
plugged the wrong one back in to the A/B box.  The 2-wire cable works fine.
duh
```

Les/N5KOA

368. Balloon Launch

From: Farrell Winder <fwinder@one.net>
Date: Tue, 15 Oct 1996 19:02:35 -0400
To: aprssig@tapr.org
Message-ID: <199610152302.TAA32401@one.net>
Rendered body type: text/plain

```
>From: Farrell Winder <fwinder@one.net>
>Subject: Balloon Launch
>
>>Date: Tue, 15 Oct 1996 18:59:01
>>To: atv@usbbs
>>From: Farrell Winder <fwinder@one.net>
>>Subject: Balloon Launch
>>
>>>Date: Tue, 15 Oct 1996 18:55:01
>>>To: aa3lt@w3syy.#wpa.pa.usa.na (Can't send to this address)
>>>From: Farrell Winder <fwinder@one.net>
>>>Subject: Balloon Launch
>>>
>>>We would like to watch for your balloon in the Dayton/Cincinnati area but
need more info.
>>>       1. What is polarization on ATV transmitter antenna? Horiz?
>>>       2. Will there be an APRS freq?  (144.275?)
>>>       3. Will there be a cross band repeater-- Up, Dn, freq's?
>>>       4. HF coord freq?  75m?
>>>                                       Thanks, 73, Farrell, W8ZCF
Cincinnati, O.
>>>
>>
```

---

369. Re: [APRSSIG:5574] Newbie GPS Question - Antenna

From: Glenn Little <glittle@awod.com>
Date: Tue, 15 Oct 1996 20:10:17 -0400
To: aprssig@tapr.org
Message-ID: <199610152359.TAA05748@sumter.awod.com>
Rendered body type: text/plain

```
At 10:59 PM 10/13/96 -0500, you wrote:

>Well, I went one better (I thought) and built a little ground plane - a 1.8"
>piece of wire (the center of the RG-174 coax) sticking out of a ground plane (a
>3.6" diameter disk of PC Board material).  Took it outside, nothing.  Well, it
>kept finding one satellite (the $GPGSV sentence said), but not much else.
So, I
>took it to a better spot (lots of tall trees where I live), and it began
listing
>8 satellites - the az/el data was there, but no C/N ratio - obviously, it
wasn't
>tracking.  My conclusion was that there wasn't enough signal.
>

How long is the RG-174 coax??  This cable is extremely lossy at GPS freqs.

This may be part of the no signal condition.

73


Glenn Little
WB4UIV

WB4UIV@amsat.org
glittle@awod.com
```

---

370. Winston Solar Challenge '97

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Tue, 15 Oct 1996 19:02:05 -0500 (CDT)
To: aprssig@tapr.org
Cc: wsc97@ernest.itg.ti.com
Message-ID: <m0vDJR2-00009XC@ernest.itg.ti.com>
Rendered body type: text/plain

```
Hi all,
```

The Texas Instruments Amateur Radio Club, callsign K5DM, will be in charge of communications for the 1997 Winston Solar Challenge. This will be held July 23rd through July 27th, 1997 from Dallas TX to Austin TX. Right now, 22 teams are entered, but we expect some dropouts. The race will last 3 days; each evening all teams will gather at the days' end checkpoint. That way we won't get the teams spread out to much. Each team will travel 80 to 120 miles day. Top speed of some cars is expected to be 50 to 60 mph (downhill, noon, tailwind :-)).

This has got APRS written all over it. But, we have several problems to solve. The distances will be too great for 2m. There are few 2m repeaters over the race course. We'd also like to update a HQ in Dallas with race snapshots; maybe via HF gateway. Also, if we have 22 teams, how do we get 22 standalone trackers? Donations? As you can see, lots of questions.

Anyway, you can see this is an exciting opportunity for APRS.

I know other clubs have run similar events and I don't want to reinvent the wheel. I would appreciate any and all comments.

If you want to be involved, drop me a line. If you have any ideas or comments, post to the list or send to me. I'll keep the aprssig updated on our progress; and any major unsolvable problems :-)

--
Alan Edmonds, KB5ZUY   Texas Instruments, Inc.
System Administrator, Composer Development   M/S 8515
Phone: +1-972-575-6427   6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com   Plano, TX, USA 75023

--
Alan Edmonds, KB5ZUY   Texas Instruments, Inc.
System Administrator, Composer Development   M/S 8515
Phone: +1-972-575-6427   6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com   Plano, TX, USA 75023

---

371. TAPR Beta-Test of MIC-E APRS Units

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 15 Oct 1996 20:15:32 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), aprssig@tapr.org (APRS SIG)
Cc: aprs-fl@tapr.org
Message-ID: <199610160115.UAA22333@tapr.org>
Rendered body type: text/plain

TAPR to begin Beta-test of APRS MIC-E (Mic encoder) units

TAPR is selecting a small group of people to beta-test (or beta-use) the upcoming MIC-E APRS adapter. The MIC-E (Mic Encoder) installs between your radio mic and radio and allows your GPS unit to transmit APRS AX.25 frames at designated intervals without needing a TNC! Very useful in many settings. You can listen to a discussion of the MIC-E by Bob Bruninga, WB4APR on http://www.tapr.org/tapr/html/virtual.html

The units are a semi-kit. This means that the board has already been assembled, but interface wires, box, and other items will still need to be configured and assembled for proper use. A Garmin GPS-20 can be installed installed directly on top of the board, inside the enclosure.

The purpose of beta-testing is to help generate and correct the kit documentation, ensure hardware problems are nonexistent in more variations not possible during the alpha-test, and that the software is functioning adequately in a wider range of applications. In addition, these beta-testers will become the core expert group to help others when the units are made available to everyone. Beta-testers will be responsible for communicating during the beta-testing using an Internet e-mail list. Regular access to Internet e-mail is required.

Beta-test units will be made available to those selected at break-even cost.

If you would like to participate in the APRS MIC-E Beta-Test, you will need to check

http://www.tapr.org/tapr/html/mic-e.question.html

and fill out the questions in as much depth as possible. Since there will be a limited number of Beta units available, this information will be used to select the best possible group for testing the units.

```
-----------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
-----------------------------------------------------------------------
e-mail: TAPR@TAPR.ORG  ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
-----------------------------------------------------------------------
```

372. Subject: Eastern NC activity nil

From: w4wwq@juno.com (Peter J Lascell)
Date: Tue, 15 Oct 1996 19:05:55 PST
To: aprssig@tapr.org
Message-ID: <19961015.192116.4543.0.W4WWQ@juno.com>
Rendered body type: text/plain

```
Just spent the weekend travelling from Lynchburg, VA  to Wilmington, NC
via Danville, Hillsboro, I-40 around Raleigh, Benson, and south to
Wilmington.  No activity in NC on the trip down, but there was ONE
packet burst on 145.79 on the way back about 25 miles south of Benson on
I-40 out in the middle of almost nowhere.  (Benson is the intersection of
I-40 and I-95).

Previous trips have had less results, to the point it is a waste of time
putting all the gear in the car, but I do listen to 145.79 and set the
squelch  loose.  Nothing is heard except for the squeel of brakes when a
passing radar detector gets into the beam of my gunplexer.

Wonder if this "brake" response counts as a two way communications?  The
signal was sent, and there was a reply.

If it is digital communications,  it would be classified as real
sloooooow baud.

Pete Lascell
W4WWQ@juno.com



--AAL10473.845355122/x3.boston.juno.com--


--------- End forwarded message ----------
```

373. Re: [APRSSIG:5607] Re: Newbie GPS Question - Antenna

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 15 Oct 1996 22:32:05 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610152247.D29607-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Yes, I understood that the stock antenna does have a preamp in it, but I
understood that it is located in the antenna itself, which is why they
provide the 5 volts at the BNC.  This is more reason to be amazed at the
little homemade dipole working so well.  It was running without the
benefit of the preamp, being connected directly to the BNC with a hunk of
low-loss coax.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Mon, 14 Oct 1996, David Wells wrote:

> At 06:27 PM 10/14/96 -0500, you wrote:
> >I have a Garmin 75 and it has an excellent removable antenna.  I played a
> >bit with a tiny dipole and it worked fine except it had about a third to
> >a half of the signal indication as the Garmin antenna.
> >
> >The dipole will work, if your unit is working ok.
> >
> >
> >John W. Wilson, KN4HX
> >z004391b@bcfreenet.seflin.lib.fl.us
> >
>
> The G75 antenna has a preamp in it which helps out a bit.
```

```
>
> Dave KD6TO
> David L. Wells KD6TO (KD6 Teletype Operator)
> INTERNET: davew@cruzio.com
> Watsonville, CA USA
>
```

---

374. Re: [APRSSIG:5610] trimble board & KPC-3

```
From: John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Tue, 15 Oct 1996 22:39:24 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610152242.E29607-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain
```

```
The Garmin runs a 'Garmin - Garmin' mode, which is not the normal NMEA
0183 (4800 baud) mode.  You may be aware of this, but just a reminder.
The fact that the Garmin does transmit data on the wire is good, it may
not be set to the proper prorocal.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us
```

---

375. Re: [APRSSIG:5639] Winston Solar Challenge '97

```
From: morganb@inetport.com (Robert B. Morgan)
Date: Mon, 15 Jan 1996 22:26:33 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199601160426.WAA04066@admin.inetport.com>
Rendered body type: text/plain
```

```
Per Alan Edmonds-
>
>The Texas Instruments Amateur Radio Club, callsign K5DM, will be  in
>charge of communications for the 1997 Winston Solar Challenge. This will
>be held July 23rd through July 27th, 1997 from Dallas TX to Austin TX.
SNIP
>This has got APRS written all over it.  But, we have several problems to
>solve.  The distances will be too great for 2m.  There are few 2m
>repeaters over the race course.  We'd also like to update a HQ in Dallas
>with race snapshots; maybe via HF gateway.  Also, if we have 22 teams,
>how do we get 22 standalone trackers?  Donations?  As you can see, lots
>of questions.
SNIP
>Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
>System Administrator, Composer Development    M/S 8515
>Phone: +1-972-575-6427                        6620 Chase Oaks Blvd.
>Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023


We (TRPS) added a local 1200b user port to the node at Moody last spring,
it became operational shortly before HamCom.  It is somewhat obscure, and
sees little use, but has some kind of range, being located several
hundred feet up.  When I range-checked it on the way to HamCom this last
summer, I started hearing it at Round Rock, and lost it somewhere
around Waxahachie.  It works as both a digipeater and TexNet node.
We even have a little bit of telemetry on it.  (That range check was by
audiable copy only, not working packet on I35, roughly MP 250 to MP 380).

While I have some plans (previously discussed on this SIG) to add some
code to TexNet to handle unconnected APRS traffic over the network,
it remains a concept only at this time, and I am hampered by lack of
codespace to do very much.  In connected mode it would certainly
get back to Dallas over the network, assuming the network is intact
at the time it is needed.

That unit is on 440.100, and is being run on a duplexer with the 445.100
trunk.  Maybe not an APRS freq, but a usuable digi.  Of course, next
summer is a long ways off, when it comes to predicting equipment being
operational, particularly that site, which is hard to get to since all
electronics is up there at the antenna, on a TV TX tower.  Likewise for
trying to update the EPROM in that remote node.

There is also a 2M repeater located on that tower, even higher, on
145.15, and is operated by the folks in Waco.  It also has pretty
good range.  Right now it is giving some apparent trouble though.
As I recall, there is some provision on that system for a link back into
Ft Worth for SKYWARN use.
```

You might want to keep both these systems in mind.

73 de Bob WB5AOH
Austin, Tx

---

376. The Western NC APRS & Ham Radio Home Page

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Wed, 16 Oct 1996 00:31:56 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961016043156.00679adc@bluenet.net>
Rendered body type: text/plain

Been alot of work going on at The Western North Carolina APRS & Ham Radio Home Page. Added some new info. like repeater freqs for the U.S. and links to Weather sites to get the local forecast, storm or hurricane data. So come by and check it out. Going be adding more APRS stuff ASAP.

http://www.bluenet.net/ke4htm

Jamie - KE4HTM

---

377. javAPRS Help

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 16 Oct 96 06:50:55 -0400
To: <aprssig@tapr.org>
Message-ID: <199610161046.GAA27827@bridge.net>
Rendered body type: text/plain

I need help from all those who have used javAPRS. There seems to be a strange bug where some stations are lost by different versions of Netscape/OS combinations.

Please look at:

http://www.peel.com/test.html

After the stations display, hit 'L', then open the java console. If possible copy the text from the station list (between the ******* lines), or at least report to me how many stations are in the list.

Send reports with operating system version, browser type and version, and the station list to

sdimse@bridge.net

(Please don't waste the SIG bandwidth...reply directly to me. Thanks

73 de Steve

(What hurricane...we ain't afraid of no stinking 'Lili'!)

---

378. Re: [APRSSIG:5641] Subject: Eastern NC activity nil

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 16 Oct 96 07:16:50 -0400
To: <aprssig@tapr.org>
Message-ID: <199610161112.HAA00552@bridge.net>
Rendered body type: text/plain

>Previous trips have had less results, to the point it is a waste of time
>putting all the gear in the car, but I do listen to 145.79 and set the
>squelch loose. Nothing is heard except for the squeel of brakes when a
>passing radar detector gets into the beam of my gunplexer.
>

After my trip, I have come to the conclusion that without HF, it is pretty much a waste of time to bring along APRS on a cross country trip.

>Wonder if this "brake" response counts as a two way communications? The
>signal was sent, and there was a reply.
>

Sure...it'd be cross-band though, wouldn't count for awards! Reminds me of the time a friend of mine, who works for the Florida Highway Patrol, tried to send me morse code with his radar unit. Turned out the response of my radar detector was too slow...

73 de Steve KO4HD

---

379. [APRSSIG:5633] GPS Parity algorithm?

From: Howard Goldstein <hgoldste@bbs.mpcs.com>
Date: Wed, 16 Oct 1996 07:31:38 -0400
To: aprssig@tapr.org
Message-ID: <199610161131.HAA04076@bbs.mpcs.com>
Rendered body type: text/plain

In article <199610152048.QAA03607@penny.n2wx.ampr.org>, you wrote:
 : Does anyone have in emailable form the parity algorithm used in GPS
 : and RTCM messages?

http://www.navcen.uscg.mil/gps/reports/sigspec/sigspec.htm

This carries pointers to .pdf (ugh) files with the entire GPS signal
spec, free for the downloading.

(I know, replying to my own posting...)

--
Howard Goldstein   <hgoldste@bbs.mpcs.com>

380. Ultimeter 2000 & Tiny 2

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Wed, 16 Oct 1996 08:28:37 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961016082642.23724E-100000@ns1>
Rendered body type: text/plain

Trying to interface Ult 2000 to a Tiny 2 for standalone APRS operation.
2000 is not standard rs232 I assume as no data gets to Tiny 2. Anyone
got a fix ?

I looked in Oct mail archives but no mention of this problem.

Thx.

```
Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
_______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                          (334) 405-4600
```

381. Bloomington Hilly Hundred

From: "Tom Busch" <busch_th@se.crane.navy.mil>
Date: Wed, 16 Oct 1996 08:48:08 -0500
To: <aprssig@tapr.org>
Message-ID: <2B77BE62C21@avoca.se.crane.navy.mil>
Rendered body type: text/plain

Hello...

Bloomington, Indiana will host the Hilly Hundred bike ride this weekend.
We will be trying out APRS at the event, equipping several of the SAG
vehicles with trackers.

If anyone on the SIG is participating in the ride, you can get more
information from me. For anyone bringing their GPS, we will be operating
on 145.79, with portable digis, alias RELAY. Bloomington WIDE digi is
WD9EVK-1.

Voice frequency is 146.64, and hams participating in the ride are
encouraged to check in at the communications center at Hilly HQ.

382. Re: Subject: Eastern NC activity nil

From: ddobbins@juno.com (David S Dobbins)
Date: Thu, 10 Oct 1996 07:48:36 PDT
To: aprssig@tapr.org
Message-ID: <19961010.065511.4519.2.ddobbins@juno.com>
Rendered body type: text/plain

Steve Dimse/KO4HD wrote:
Sure...it'd be cross-band though, wouldn't count for awards! Reminds me
of the time a friend of mine, who works for the Florida Highway Patrol,
tried to send me morse code with his radar unit. Turned out the response
of my radar detector was too slow...
73 de Steve KO4HD

So what exactly was he sending??? S L O W D O W N ???

Re VHF or HF in mobile: Been there, done that, with VHF only. Had

minimal contacts from AZ to TX and back, AZ to MT and WA, but collected
great HSTs which I used to error-correct the existing maps, and build new
maps. Had at least one contact each trip, so to me it was worth the
while. Drove around San Diego and had 2-3 pages of VHF stuff (that was
awhile ago, probably more now). Drove through Salt Lake City and had 2-3
contacts, one, Doug/KC7CO, now a resident of Seattle and good friend.
I've made alot of new friends from this hobby, and especially while
mobile APRS on VHF.

```
David S. Dobbins/WH6YC      Pacific Northwest APRS Coordinator
POB 553   404 N Third St        Email: ddobbins@juno.com
Pe Ell, WA 98572-0553           VHF 147.06 T110.9, or 145.43
tel: 360-291-3707                    APRS 145.79, 145.75
pager: 800-514-7489              "In GOD we trust, all others we track by
GPS"
```

383. Atl. OS/2 Java APRS Server moved

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Wed, 16 Oct 96 11:28:34 edt
To: aprssig@tapr.org
Message-ID: <m0vDXtb-0001TAC@wa4mei.radio.org>
Rendered body type: text/plain

I've moved my APRS server from http://wa4dsy-3.wa4dsy.radio.org/Xaprs
to: http://www.wa4dsy.radio.org/aprs/

Most of you were already accessing it through links at this URL
and won't be affected.

This is where is was originally before I put it on my debug machine
to work out the kinks. Now that it's debugged I've put it back
on the server where it belongs.

Those of you who were accessing the JavAPRS applet directly
or had web page links to any wa4dsy-3 addresses
will need to change your URL.

```
-------------------------------------------------
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp v4
```

384. TAPR GPS-20 Group Purchase Update

From: Greg Jones <wd5ivd@tapr.org>
Date: Wed, 16 Oct 1996 13:15:17 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing), aprs-fl@tapr.org,
tapr-bb@tapr.org (TAPR-BB mailing)
Message-ID: <199610161815.NAA00300@tapr.org>
Rendered body type: text/plain

```
TAPR GPS-20 Group Purchase Information
---------------------------------------------------------
```

Due to the popularity of the GPS-20 group buys, TAPR plans on just taking
continuous orders. Thus, TAPR will take orders for around 100 units and
then do a purchase and then start another buy right away. Please remember
that an order with payment must be received to get a unit -- this is NOT a
collection list for purchase.

The current GPS-20 orders are being shipped this week and next. TAPR is now
taking orders for another batch of 100 units.

Full details can be found on: www.tapr.org

```
-----------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
-----------------------------------------------------------------------
e-mail: TAPR@TAPR.ORG  ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
-----------------------------------------------------------------------
```

385. 7.7C fails

From: w4wwq@juno.com
Date: Thu, 17 Oct 1996 08:27:33 PST
To: aprssig@tapr.org
Message-ID: <19961017.082740.9759.0.W4WWQ@juno.com>
Rendered body type: text/plain

After getting back to live APRS I find that I am getting a lot of failures of APRS. The screen locks up. It was suggested that the earlier version I was running didn't deal well with this type of problem, and I should try the latest. So, now running 7.7C, there is still a lock up problem. It appears as a bright red band, about 8 lines high, horizontal across the middle of the screen covering the map underneath. Within the red band, in normal text size, the following usually appears every time I check the screen after being unattended for hours:

```
LM,PM: 77        1
A$:KE4JJU-3>APRS,WIDE*:*F007200000000
C$:
ES$finished Parsepaklz 3371z 3.725352E-41
OOOPS!  ERR number 6  Hit ENTER to resume or Q to Quit?
```

Only if the ENTER key is the next action will it resume and then a space bar is needed to redraw the map. Any other key will dump it back to DOS.

I have seen a similar error, but number 5, on the screen in the last 10 days but the rest of the text appeared similar in format and call sign.

Rumors is that there is a negative number being sent from a wx station. Is it from the call that ends up on the screen (in this case KE4JJU-3) or is it an unknown station going thru KE4JJU-3?

Is anyone else having this problem or have ideas to avoid it?

I use a 286 12MHz with math co-processor and MFJ 1270 TNC if it matters.

Pete Lascell
W4WWQ@juno.com

---

386. Re: [APRSSIG:5649] Ultimeter 2000 & Tiny 2

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Wed, 16 Oct 1996 19:07:45 GMT
To: aprssig@tapr.org
Message-ID: <32653210.1434146@mail.mergetel.com>
Rendered body type: text/plain

On Wed, 16 Oct 1996 08:33:12 -0500 (CDT), you wrote:

>Trying to interface Ult 2000 to a Tiny 2 for standalone APRS operation.
>2000 is not standard rs232 I assume as no data gets to Tiny 2. Anyone
>got a fix ?

I think you need a null modem cable for it to work as both devices are dte units. Also make shure that your tnx is set to 2400 baud for the RS 232 and that the String is set to look for !! string from the U2000

Hope this info helps

```
73 de Ron                                    Best Regard
Email:  rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

---

387. APRS REGISTRATION

From: Gerald Fuller <usdcc3h5@ibmmail.com>
Date: Thu, 17 Oct 1996 08:51:46 -0700
To: aprssig@tapr.org
Message-ID: <32665612.1251@ibmmail.com>
Rendered body type: text/plain

Bob; I'm a new user of the APRS program. I have a down loaded copy of the program version# 7.7a; my question: is this the latest version. I plan on sending my "REGISTRATION" in but if I have the latest version then I can save the $9.00. Please let me know...thanks.

Jerry (WA8EQP)

---

388. javAPRS and Netscape Bug!

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 17 Oct 96 08:14:57 -0400
To: <aprssig@tapr.org>
Message-ID: <199610171210.IAA14895@bridge.net>
Rendered body type: text/plain

The problem with javAPRS seems to be limited to Windows95 and Netscape 3.0, although I have no reports from W95 and Internet Explorer users. In investigating this it seem that other applets have had problems running under Netscape's Just In Time (JIT) compiler, presently only included in the Windows version of 3.0. It seems that the problem is in the exception handling code, that fails to properly call the "catch" routine if an exception occurs. This error handling code is central to the working of Java (and javAPRS). I will be trying to come up with a work-around, but until then, be aware that W95/Netscape3.0 users are only seeing about 1/3 of the stations actually appearing.

But, it ain't MY fault!

Steve KO4HD

---

389. Collier County EOC beaconing WX

From: Gary Arnold <garnold@naples.net>
Date: Thu, 17 Oct 1996 00:14:47 -0700
To: APRS FL Sig <aprs-fl@tapr.org>, APRS SIG <aprssig@tapr.org>
Message-ID: <3265DCE7.6E8C@naples.net>
Rendered body type: text/plain

As of 2250z on 16 October, Collier County (FL) Eoc is beaconing WX data from a new Davis Bros. Monitor II. The system is online thanks to a day's hard work from KG5QD and WB3TIH while we on the staff were busy with Tropical Storm LILI. The system has temp, barometer and wind dir/speed and a self tipping rain guage (.01 inches) available. Humidity will be available as soon as our replacement sensor arrives (if the s/w will carry it...I really am not quite up to speed!).

When looking at our wind data, keep in mind that the anemometer is on top of an 8 story building, some 130 feet in the air...so readings will likely be somewhat higher than the surface.

73,
Gary WB2WPA

--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered French Toast during the Renaissance."
-- Steven Wright, perpipheral visionary

---

390. APRS AND PACIFICON 96

From: Barry Winkler <kc6wya@bdt.com>
Date: Thu, 17 Oct 1996 01:26:52 -0700
To: aprssig@tapr.org
Cc: caldis@bdt.com, ndraper@earthlink.net, wd9biv@earthlink.net,
bbliss@juno.com
Message-ID: <3265EDCC.749A@bdt.com>
Rendered body type: text/plain

****
PACIFICON 96 AND APRS

HELLO AND THANKS FOR READING

WELL IT IS THAT TIME OF YEAR AGAIN AND APRS IS ALIVE AND WELL AT PACIFICON IN CONCORD,CA. ON OCT.18-19-20 APRS WILL SET UP SOME TIME ON FRIDAY THE 18 AND RUN TILL SUN THE 20 . ALL CA APRS STATIONS ARE

```
ASKED TO BE ON THE AIR. ANY GATES WOULD HELP ALOT !!!
THE BAY AREA MOBILES ARE ASKED TO HAVE YOUR TRACKER ON AND THIS WILL GET
ALOT OF HAM'S HOOKED. APRS DEMO IS AT 11:00 <AM> TO 12:00 NOON.

THERE IS AN APRS DIGI SYSOP MEETING AT 12:00 NOON AT THE APRS ROOM ON
SATURDAY THE 19th

PACIFICON IS AT THE CONCORD HILTON ON DIAMOND BLVD OFF OF HWY 680
IN CONCORD CA HOME OF THE MOUNT DIABLO ARC AND THE ROCKY RIDGE REPEATER
GROUP WHO HAS SUPPORTED APRS FOR A LONG TIME.

APRS NET ON TUESDAYS AT 19:30 ON 147.060 + pl 100
NET CONTROL ARE BARRY WINKLER KC6WYA AND HOWARD BURK KE6PTT
AND I WOULD LIKE TO THANK BILL WB6LPG AND KEN W7KKE WHO GOT ALL IF US
HOOK

SEE YOU AT PACIFICON ON APRS

THX BARRY  KC6WYA
73'S AND GO APRS
```

---

391. Re: [APRSSIG:5649] Ultimeter 2000 & Tiny 2

From: Miami Network <0004818186@mcimail.com>
Date: Wed, 16 Oct 96 16:18 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <55961016211855/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

```
Correct the Ultima 2000 is not a fully implemented RS-232.  In order to get the
unit to work as a standalone the TNC Must be intelligent and have the ability to
identify the input string.

On the KPC-3 the TNC has a GPS Mode and the Ultima 2000 uses the GPS
to send what would ordinarily be the GPS sentence. The String is prefixed
with two !!.

If the Tiny 2 Does not have a GPS mode capability so that it can
detect the input string of a GPS it will not work with the Ultima
2000 as a standalone.

The Old Tiny 2 that I had which I swapped for a KPC-3 was the reason
for the change in TNC's.


73, Seymour, KC4NMY
miaminet@mcimail.com
```

---

392. Re: Would you be so kind?

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Thu, 17 Oct 1996 08:08:22 -0800
To: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Cc: aprssig@tapr.org
Message-ID: <199610171508.IAA29306@franc.ucdavis.edu>
Rendered body type: text/plain

```
>Would you be so kind as to pass the parameters along for your Macintosh to
>KPC-3 interface?  I have a High Speed Modem Cable (per Apple Specs) that I
>plan to use with my new PB5300 powerbook and the KPC-9612.
>
>Your parameters will greatly speed up my setup time.
>
>Thank you in advance.
>

Larry,
   Here is what I have set for my KPC3. First I restored the default
settings using the RESTORE D command from a terminal program. Then I issued
the INTFACE TERMINAL command.

MCOM OFF
MRESP OFF
HEADERLN OFF
MSTAMP OFF
CSTAMP OFF
PID OFF
MONITOR ON
These params are in the Mac APRS docs for the KPC3 and I have set them in
the Mac APRS TNC settings dialog box. In addition I set the two commands
below.
```

XFLOW OFF
Since I'm using hardware handshaking I set this to disable software handshaking. In the serial tool dialog box I have selected DTR & CTS for the handshaking.

CD SOFTWARE (CD = carrier detect)
I use this and no squelch on the radio because my radio doesn't squelch too well on the local frequency, I think somebody's consumer electronics in my appartment building is transmitting noise on this freq. It also insures that any packets that can be received are received.

I am in a second story appartment of wood frame construction with wood siding. Stucco has chicken wire in it and forms a rather good shield. I have a homemade 2 element quad antenna in my living room mounted on a spring loaded 2 x 2 pole from the floor to the ceiling. It is fed by a 1/4 wave shorted paralell conductor transmission line with a coax balun tapped on at the correct distance up from the shorted end to give a match. The driven element is a closed loop and is fed at the bottom by one of the conductors of the matching section. The other conductor is unconnected. This arrangement is identical to a J Pole antenna except that a full wave loop is used in place of the normal 1/2 wave dipole. It works perfectly and has the advantage that the feed is entirely below the loops. I invented this arrangement myself (he said proudly).

Regards John Lakeland kc6vlr

C.C. the sig

---

393. New Central Georgia Digipeater

From: kc4zgq@ix.netcom.com (JOHN F. KRAUS II)
Date: Wed, 16 Oct 1996 17:34:36 -0700
To: aprssig@tapr.org
Message-ID: <199610170034.RAA21661@dfw-ix7.ix.netcom.com>
Rendered body type: text/plain

Hello to all on the SIG. I thought I would send a short note to report that at long last Central Georgia has a true WIDE-RELAY digi. With the help of several local hams Tom Rogers KR4OL has placed a digi near the junction of 1-75 and 1-475 just north of Macon. The digi has a true HAAT of about 400 ft. The present antenna has 9db gain with omni coverage. It presently covers Central Georgia quite well. Future

plans are to replace the existing 400 ft of 75 ohm CATV hardline with true 50 ohm hardline which will enhance power out as well as receive considerably. The TNC used at this site is a KPC-4 which will be used as a gate to uhf 445.925 in the near future as the radio is already on hand we lack only coax and antenna. We would be very interested in any

reports of performance both from mobile stations passing through as well as APRS base stations. Please send any reports to me at the address below.

Thanks to all who offered help and advice.

73 de John F. Kraus II KC4ZGQ

---

394. signals

From: Jim Prentice WA2MZF QCWA <PRENTICE@scanva.canton.edu>
Date: Wed, 16 Oct 1996 11:29:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01IAPJCLICFS005QPL@scanva.canton.edu>
Rendered body type: text/plain

Hello Group,

I have not been active for a while and just loaded latest ver of dos aprs. I do not seem to be seeing stations like in older ver of program. I am seeing some beacons es one liners between stations etc. and odd time can get list of stations and more odd times i get gateway station listed.. This is on 30 meters and signals real strong. Any hints?

Thanks.

---

395. Re: [APRSSIG:5648] GPS Parity algorithm?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 17 Oct 1996 15:24:50 -0600

To: aprssig@tapr.org
Message-ID: <v02140b00ae8c4b0193ce@[199.1.11.108]>
Rendered body type: text/plain

```
>In article <199610152048.QAA03607@penny.n2wx.ampr.org>, you wrote:
> : Does anyone have in emailable form the parity algorithm used in GPS
> : and RTCM messages?
>
>http://www.navcen.uscg.mil/gps/reports/sigspec/sigspec.htm
>
>This carries pointers to .pdf (ugh) files with the entire GPS signal
>spec, free for the downloading.
>
>(I know, replying to my own posting...)
>
>
>--
>Howard Goldstein   <hgoldste@bbs.mpcs.com>


 Were you really looking for the NMEA Checksum that is used by
Garmin GPS units on the data output ??

ftp://sundae.triumf.ca/pub/peter/index.html

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

396. MIC-E Beta

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 17 Oct 1996 16:00:16 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199610172100.QAA22369@tapr.org>
Rendered body type: text/plain

```
If you tried to use the form on the web page to submit and got refused,
please try again.  The TAPR.ORG server had a slight problem which cuased
sendmail to die.

It is corrected now.

Cheers - Greg
```

397. Re: [APRSSIG:5656] APRS REGISTRATION

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 17 Oct 1996 18:00:44 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961017180026.12021A-100000@arctic>
Rendered body type: text/plain

```
The latest is 77c, but 77d is under construction... hi hi

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

398. Re: [APRSSIG:5660] Re: Ultimeter 2000 & Tiny 2

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Thu, 17 Oct 1996 18:28:28 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961017182236.14088C-100000@ns1>
Rendered body type: text/plain

```
The tiny 2 does have the gps feature...I have used it with the Ultimeter
II a few years back.  However my method of testing may be at fault, but it
does make sense to me.  I have placed the tnc in converse mode and have
the 2000 sending a stream using the data mode output selection.  I would
assume the tnc would xmit when the buffer fills or it sees <cr>.  I was
hoping to use this method so I could place the 2000 in packet mode and
have it xmit every 5 min rather than use the gps mode. I would like to
see the highest ws over the past 5 min. as reported by the packet mode.
I hope APRS supports that.

Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
_____________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                        (334) 405-4600

On Thu, 17 Oct 1996, Miami Network wrote:
```

> Correct the Ultima 2000 is not a fully implemented RS-232. In order to get the
> unit to work as a standalone the TNC Must be intelligent and have the ability to
> identify the input string.
>
>

399. MIC-E Beta Test

From: Greg Jones <wd5ivd@tapr.org>
Date: Fri, 18 Oct 1996 00:30:48 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199610180530.AAA15498@tapr.org>
Rendered body type: text/plain

Hi.

I received several messages asking if I had or hadn't gotten a beta-test form. Here is the list of names I have received something from using the web form. I have received one or two just by e-mail, so they will not appear on this list (i.e. grep ^Name: mic-e.mail).

If your name is not on this list, please give the web page another try. Be sure to allow it to complete the submit or I will not receive a form to pass along to the beta test review committee.

All the requests so far are all very interesting...and should make for some interesting beta testing.

Cheers - Greg

Names as of 10/18/96:

```
Name:          Neil Lauritsen
Name:          William Yoreo
Name:          Mike Heskett
Name:          Stan Horzepa
Name:          Kansas City APRS Working Group/Jim Duncan
Name:          Jonathan R Brockmeier
Name:          Henry Van Bogaert
Name:          Bob Winingham
Name:          Steve Dimse
Name:          Larry Keeran
Name:          Richard F. Garcia
Name:          Tom Kinahan
Name:          Alan Crosswell
Name:          John Kozak
Name:          Bill Healy
Name:          Harry Burford
Name:          William C. Wolken
Name:          Frank McJunkins
Name:          Frank McJunkins
Name:          Kevin Kelly
Name:          George V. Chapek
Name:          Tony Drumm
```

400. Central Georgia Digi

From: kc4zgq@ix.netcom.com (JOHN F. KRAUS II)
Date: Thu, 17 Oct 1996 22:44:11 -0700
To: aprssig@tapr.org
Cc: jkham@internetMCI.com
Message-ID: <199610180544.WAA01091@dfw-ix5.ix.netcom.com>
Rendered body type: text/plain

I goofed and left my e-mail address of the last message.

So here it is.

Please send Central Georgia signal reports to:

   <KC4ZGQ@IX.NETCOM.COM> JOHN F. KRAUS II

THANKS

401. Re: [APRSSIG:5662] New Central Georgia Digipeater

From: aprs@juno.com (ap rs)
Date: Fri, 18 Oct 1996 05:08:09 EDT

To: aprssig@tapr.org
Message-ID: <19961018.020557.9350.2.aprs@juno.com>
Rendered body type: text/plain

```
On Thu, 17 Oct 1996 12:07:57 -0500 (CDT) kc4zgq@ix.netcom.com (JOHN F.
KRAUS II) writes:
>
>Hello to all on the SIG.  I thought I would send a short note to
>report that at long last Central Georgia has a true WIDE-RELAY digi.

Congratulations, guys.
When I eventually get home from California, I will expect to see that
thing banging the ears off of N4NEQ-2!

Consider leaving the CATV hardline.  Your SWR is only gonna be about
1.5:1 with it.
If you MUST have 50 ohm, there are simple transformer/connectors you can
make or buy.  Msg me if you want the info on how.

Again: good job.

Ralph Fowler
N4NEQ Atlanta
rwf@mindspring.com
```

402. Re: [APRSSIG:5647] Re: Eastern NC activity nil

From: jack swift <jswift@up.net>
Date: Fri, 18 Oct 1996 07:53:24 -0500
To: aprssig@tapr.org
Message-ID: <9610181149.AA20086@btc1>
Rendered body type: text/plain

```
i've had several trips past madison wisconsin, chicago, and st.
louis.  there are several 'hinterlands' in between, but those areas have
always filled my lists and brightened my map. since i'm usually alone i
can't answer messages, but have gotten some very nice ones. i mainly use the
screen information to avoid grabbing a paper map -- it's neat till s/a nails
me big time (one hunting trip spent an hour apparently 20 miles offshore
<g>). it would be nice to see more stations beaconing, but i'm sure that
will come -- each trip gets more position reports from home stations....


At 06:32 AM EST 10/16/96 -0500, you wrote:
>>Previous trips have had less results, to the point it is a waste of time
>>putting all the gear in the car, but I do listen to 145.79 and set the
>>squelch  loose.  Nothing is heard except for the squeel of brakes when a
>>passing radar detector gets into the beam of my gunplexer.
>>
>After my trip, I have come to the conclusion that without HF, it is
>pretty much a waste of time to bring along APRS on a cross country trip.
>
------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

403. APRS77C.ZIP

From: Leroy.Lawhorn@275-17.usbbs.com (Leroy Lawhorn)
Date: 17 Oct 96 21:37:25 -0500
To: aprssig@tapr.org
Message-ID: <f3c_9610180920@usbbs.com>
Rendered body type: text/plain

```
APRS77C.ZIP is out now dated 10-12-96 and on my bbs. Check it out...
W4VIW's BBS @ 864-299-6185 located in Greenville, SC.

I also carry the X-Files Network and MUFON Network.

Thanks for reading this post.

                     LeRoy Lawhorn SySop & UFOlogist

--- WILDMAIL!/WC v4.12
 # Origin: W4VIW's BBS 864-299-6185 Greenville, SC USA  (73:1320/1.0)
--
|Internet: Leroy.Lawhorn@275-17.usbbs.com
```

```
|
| E-Mail Services - info@usbbs.com
```

404. Re: [APRSSIG:5669] Central Georgia Digi

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 18 Oct 1996 08:23:16 -0700
To: aprssig@tapr.org
Message-ID: <3267A0E4.9F7@concentric.net>
Rendered body type: text/plain

```
JOHN F. KRAUS II wrote:
>
> I goofed and left my e-mail address of the last message.
>
> So here it is.
>
> Please send Central Georgia signal reports to:
>
>    <KC4ZGQ@IX.NETCOM.COM>  JOHN F. KRAUS II
>
> THANKS

John sounding great here in North Alabama, but can't see the wisdom of
having another digi 8 miles to the NW (KR4OL-2)?.
--
                    \////
                    (0 0)
               *--oO-(_)-Oo--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

405. Re: [APRSSIG:5668] MIC-E Beta Test

From: Mark Sproul <sproul@ap.org>
Date: Fri, 18 Oct 1996 10:54:28 -0400
To: aprssig@tapr.org
Cc: ksproul@hardees.Rutgers.EDU
Message-ID: <v03007804ae8d4a089e7f@[165.1.27.169]>
Rendered body type: text/enriched

>Hi.

>

>I received several messages asking if I had or hadn't gotten a
beta-test

>form. Here is the list of names I have received something from using
the

>web form. I have received one or two just by e-mail, so they will
not

>appear on this list (i.e. grep ^Name: mic-e.mail).

>

>If your name is not on this list, please give the web page another
try. Be

>sure to allow it to complete the submit or I will not receive a form
to pass

>along to the beta test review committee.

>

>All the requests so far are all very interesting...and should make for
some

>interesting beta testing.

>

>Cheers - Greg

Greg,

I tried again this morning and could not get it to take my entry so
here is the info

Mark Sproul

KB2ICI

sproul@ap.org

698 Magnolia Rd

North Brunswick, NJ 08902

908-246-3749

609-860-7120

609-860-7129

Software engineer

I think so (Keith is)

4 years

Windows

Mac

and X-Windows

Developer of MacAPRS and WinAPRS and X-APRS, enough said

We just need one for the two of us, I spoke to Keith to make sure that
we werent both trying to get one.

Thanks

Mark

```
__________________________________________________________________________

Mark Sproul                      |Amateur Radio: KB2ICI

Software Engineer @ Assoc Press  |

sproul@ap.org                    |Work: 609-860-7120

North Brunswick, NJ              |Fax:  609-860-7129

http://msproul.rutgers.edu/

__________________________________________________________________________
```

---

406. TAWG FALL APRS CONFERENCE 96

From: AA8JK@aol.com
Date: Fri, 18 Oct 1996 11:42:04 -0400
To: aprssig@tapr.org
Message-ID: <961018114204_1745271859@emout08.mail.aol.com>
Rendered body type: text/plain

SECOND ANNOUNCEMENT

TAWG FALL APRS CONFERENCE 96
October 26, 1996
Columbus, Ohio

Bringing together a contingent of APRS technologists to discuss recent
progress within the Tri-state (Ohio, Indiana, & Kentucky) area and the
direction for the future.

Everyone with an interest in APRS is invited.

The Columbus, Ohio site was chosen to be a central location for attendance
for hams in Pennsylvania, West Virginia, Northern Ohio, and many of the TAWG
members.

Topics to be addressed include:
- Recent APRS network achievements as well as future challenges.
- Committees to promote APRS activities.
- APRS interface with the National Weather Service.
- Question & answer session for newcomers.
- Other activities to be announced.

SPECIAL EVENTS
- A GPS Video (Approximately 20 minutes).
- A demonstration and progress report on ERIC (Electronic Roadway Information Companion). ERIC monitors data from your GPS and through an internal synthesized voice guides you along the way. ERIC adds speech to your GPS. Innovation at work.

LOCATION:
Whetstone Branch
Columbus Metropolitan Library
3909 N. High Street
(Near the entrance to the Park of Roses.)
Columbus, Ohio
Destination Waypoint - 40-02.47N 083-01.19W

DATE/TIME   October 26, 1996 1030 - 1500 local

SCHEDULE:

1000-1030   Room opens, Set-up

1030-1100   Opening Remarks, Intros, and update on TAWG.
Sid, AH7E

1100-1130   APRS: What it is and how you can use it. Mike, KB8SSH

1130-1200   GPS Video Joe, W8RIK

1200-1300   APRS interface with the NWS & ARES-Open Discussion.
Moderated by Joe, W8RIK

1300-1400   Open Forum
Moderated by Sid, AH7E
The Future of TAWG
Structure of the Organization
Committees to Promote APRS

1400-1500   Demonstration and progress report on ERIC
(Electronic Routing Information Companion).
ERIC adds speach to your GPS.
Presented by Eric, N8FYD

Joe, W8RIK says we can adjourn to one of the many good "pizza" establishments
in the area after 1500 hours.

TALK-IN: 147.12+ Repeater
THIS IS A CHANGE FROM FIRST ANNOUNCEMENT

SPONSOR: Tri-State APRS Working Group (TAWG)

All are encouraged to attend. For further information contact:

Sid, AH7E
e-mail: AH7E@aol.com
Phone: 937.866.3911 (New Area Code)

---

407. Re: [APRSSIG:5674] Re: MIC-E Beta Test

From: Mark Sproul <sproul@ap.org>
Date: Fri, 18 Oct 1996 11:28:24 -0400
To: aprssig@tapr.org
Message-ID: <v03007805ae8d52869d56@[165.1.27.169]>
Rendered body type: text/plain

Sorry about the last email, wrong address

Mark

---

408. Re-Smallest GPS/TNC

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Wed, 16 Oct 1996 19:24:25 +0000
To: aprssig@tapr.org
Message-ID: <199610182242.SAA15606@hemisphere.neocomm.net>
Rendered body type: text/plain

Thanks for all the replys on my question. My portable system is a Magellan Trail Blazer XL, HP 95 palm PC, alinco HT, and Packomm Handi Packet. The system is much to heavy for a 2000 mile hike. Also the Handipacket is dead and to expensive to repair, a KPC is probally cheaper than repair and will run a long time on tiny 9v battery. The Handi battery was practically useless and failed me so many times I eventually always carried an external battery.

I wonder how much "juice the Pico tnc and GPS combo requires ?

It seems like the best system would be the MiM connected to DeAngelo transmitter and some tiny gps. The whole system would have to be very near 1 pound and would run on AA alkiline batterys that could be replaced weekly. Nicads are not practicle in the woods, no recharger and poor weight to life ratio. The system would only be turned on for a fix / xmit periodically during the day when in high open areas. GPS units work very poorly in deep woods. There would be no need for a display of any type on this stand alone system.

With the expenses of a six month backpacking trip and no income during this time it will not be practical for me to purchase / build such a unit. I do however invite your further input in this sort of project. Its fun to talk about anyway!

The GPS data I mentioned that covered the Appalacian Trail:

I did not get a chance to talk to the owner of this data, with over 800 hikers at the "Gathering" in Carlise PA and many other programs I never did get to meet this fellow. I will continue my search for him and inquire about the release of the mapping data.

Tahnk You Charles

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA   ATC
Georgia>97>Main   Chase

---

409. Hercules Monitor & APRS

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 18 Oct 1996 23:02:51
To: aprssig@tapr.org
Message-ID: <199610190303.XAA10638@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

As many of you know, I've been trying to extend APRS into the so-called "APRS Black Hole" to my north. To this end I donated an old discarded 286 to a friend well situated to become a WIDE-REALY for the lower Hudson Valley area.

Little did I know at the time that this antique had a Hercules video card and monitor. According to this fellow, and THE DOCS, APRS locks up at the first whiff of this video system.

After talking with my friend, he seemed to remember some little program that would "emulate" a CGA something-or-other (or something like that!) Is anybody on the SIG aware of a way around this problem, short of getting another machine? After all we've gone through getting this clunker operational and all the hype and demonstrations I've given on APRS, we'd hate to have to go back to the drawing board.

The station in question is situated where he might link up

```
the existing "northeast corridor" APRS net with that in Schen-
ectady and points north and west!  THIS is why I'm so hot to
get this guy up and running.  Such a link is the next logical
step in expanding APRS to cover as much area as possible and
create connectivity everywhere (oh, okay, I'm allowed a little
wishful thinking, aren't I?)  Thanks & 73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

---

410. MIC-E UPdate

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 19 Oct 1996 00:08:25 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing)
Message-ID: <199610190508.AAA02087@tapr.org>
Rendered body type: text/plain

```
APRS MIC-E Update

If you would like to see a photo of a prototype layout with GPS-20
attached...take a look at:

http://www.tapr.org/tapr/html/mic-e.question.html

I have added a picture of the layout unit that Gwyn showed me at the DCC in
Seattle, WA the end of September.

You can also get to this page from a link on www.tapr.org


Cheers - Greg, WD5IVD
```

---

411. W95 naming convention

From: ddobbins@juno.com (David S Dobbins)
Date: Fri, 18 Oct 1996 22:18:39 PDT
To: aprssig@tapr.org
Message-ID: <19961018.221850.8247.0.ddobbins@juno.com>
Rendered body type: text/plain

```
Hi SIG. Will somebody literate w/both W95 and W3.1 please tell me how to
fix the following problem:

Tonite I downloaded the Powerpoint presentations in the aprs sig
presentation subdirectory. I unzipped the file and it created a sub
directory called "my docum" where the file is stored. I'm using W3.1, so
can't do anything with a directory that apparently was created with W95,
because it has a space between the MY and DOCUM. I can't rename the
directory, can't delete it, can't move it, etc. Nor can I open the file
thru PP because it doesn't recognize the space in the directory name.

Help please.

David S. Dobbins/WH6YC      Pacific Northwest APRS Coordinator
POB 553   404 N Third St        Email: ddobbins@juno.com
Pe Ell, WA 98572-0553           VHF 147.06 T110.9, or 145.43
tel: 360-291-3707                    APRS 145.79, 145.75
pager: 800-514-7489              "In GOD we trust, all others we track by
GPS"
```

---

412. Re: [APRSSIG:5678] Hercules Monitor & APRS

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 18 Oct 1996 23:19:42 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961018231943.2cdf5d22@mailhost.primenet.com>
Rendered body type: text/plain

```
At 10:17 PM 10/18/96 -0500, Arte Booten wrote:
>Hi All,
>
>
>     Little did I know at the time that this antique had a Her-
>cules video card and monitor.  According to this fellow, and
>THE DOCS, APRS locks up at the first whiff of this video sys-
>tem.
```

>
>   After talking with my friend, he seemed to remember some
>little program that would "emulate" a CGA something-or-other
>(or something like that!) Is anybody on the SIG aware of a
>way around this problem, short of getting another machine? Af-
>ter all we've gone through getting this clunker operational and
>all the hype and demonstrations I've given on APRS, we'd hate
>to have to go back to the drawing board.
>

The program in question is called "simcga," and if I recall correctly, it will work with DOS APRS.

Heck, someone would probably give you an 8 bit VGA video card, and VGA monitors can be picked up for $35 or less. A buddy of mine GAVE AWAY a 9 inch paper-white VGA monitor! Without consulting me even! Sheesh! I woulda paid him something for it. And I have yet to find another one. I think it was from a POS terminal.

73,

Mark
KC7BXS

---

413. Re: [APRSSIG:5680] W95 naming convention

From: Lew Midlam <Lew.Midlam@pobox.com>
Date: Sat, 19 Oct 1996 07:04:10 -0400
To: aprssig@tapr.org
Message-ID: <3268B5AA.52D5@pobox.com>
Rendered body type: text/plain

David S Dobbins wrote:

I unzipped the file and it created a sub
> directory called "my docum" where the file is stored. I'm using W3.1, so
> can't do anything with a directory that apparently was created with W95,
> because it has a space between the MY and DOCUM.

If you have Norton Utilities you can use DISKEDIT to change the name of the sub-directory to something DOS will let you command.

-Lew

---

414. Re: [APRSSIG:5678] Hercules Monitor & APRS

From: KG5QD@aol.com
Date: Sat, 19 Oct 1996 07:10:54 -0400
To: aprssig@tapr.org
Message-ID: <961019071053_546583366@emout01.mail.aol.com>
Rendered body type: text/plain

I went through about 10 CGA emulators and finally found one called
"COLOR.COM"
that works with aprs and hercules -If you cannot find this I have it here
someplace
73 de Dale kg5qd

---

415. NMEA question

From: TCox17892@aol.com
Date: Sat, 19 Oct 1996 10:57:54 -0400
To: aprssig@tapr.org
Message-ID: <961019105754_129707315@emout19.mail.aol.com>
Rendered body type: text/plain

Can someone explain, or direct me to an explanation of, the concept "dilution of precision" as used in NMEA sentences? Don't understand whether it is a percentage (and how it is applied), or something else.

---

416. GPS 20 data question.

From: TCox17892@aol.com
Date: Sat, 19 Oct 1996 11:03:45 -0400
To: aprssig@tapr.org
Message-ID: <961019110342_129709204@emout10.mail.aol.com>
Rendered body type: text/plain

In the $GPGGA output from my GPS-20, the first nine fields look plausible.
 They are followed by ",M,-34.1,M,," an asterisk, and a checksum.

This looks like one too many fields, and I don't understand the "M"s. I am
not providing differential input, so expected a geoidal height, followed by a
couple of nulls.

Any idea what's going on?

417. [APRSSIG:5664] Re: GPS Parity algorithm?

From: Howard Goldstein <hgoldste@bbs.mpcs.com>
Date: Sat, 19 Oct 1996 11:45:28 -0400
To: aprssig@tapr.org
Message-ID: <199610191545.LAA03104@bbs.mpcs.com>
Rendered body type: text/plain

```
In article <v02140b00ae8c4b0193ce@[199.1.11.108]>, you wrote:
 : >In article <199610152048.QAA03607@penny.n2wx.ampr.org>, you wrote:
 : > : Does anyone have in emailable form the parity algorithm used in GPS
 : > : and RTCM messages?
 : >
 : >http://www.navcen.uscg.mil/gps/reports/sigspec/sigspec.htm

 :  Were you really looking for the NMEA Checksum that is used by
 : Garmin GPS units on the data output ??
 :
 : ftp://sundae.triumf.ca/pub/peter/index.html
```

No, I was really looking for and as my followup indicated I found at
the .mil site the GPS parity algorithm. It has nothing at all to do
with NMEA.

Too bad Adobe's OS/2 acrobat reader generates upside down and
backwards images on a laserjet, but that gets beyond the pale of
aprssig...

But bringing it back into something relevant to aprssig the document
at the .mil site will have at least a few things of interest to anyone
with more than casual GPS involvement.

--
Howard Goldstein   <hgoldste@bbs.mpcs.com>

418. Re: [APRSSIG:5680] W95 naming convention

From: "Thomas [Griff] Griffin" <griffg@earthlink.net>
Date: Sat, 19 Oct 1996 09:23:33 -0700
To: aprssig@tapr.org
Message-ID: <2.2.16.19961019162333.0e7fd6e2@earthlink.net>
Rendered body type: text/plain

David,

```
>Tonite I downloaded the Powerpoint presentations in the aprs sig
>presentation subdirectory. I unzipped the file and it created a sub
>directory called "my docum" where the file is stored. I'm using W3.1, so
>can't do anything with a directory that apparently was created with W95,
>because it has a space between the MY and DOCUM. I can't rename the
>directory, can't delete it, can't move it, etc. Nor can I open the file
>thru PP because it doesn't recognize the space in the directory name.
```

I had the same problem with the same file recently! I think you can use the
DOS command deltree to delete the directory, e.g. "deltree my*" (or
something like that). Next time don't use -d with pkunzip so it won't
create that subdirectory.

Thomas (Griff) Griffin
Griffin International Enterprises, Inc.
and Griffin Construction
Beaverton, Oregon, USA
503 645-2284 (voice), 503 629-0426 (fax)
griffin@USemail.com or n7zkl@amsat.org

419. APRS at Space Museum

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Sat, 19 Oct 1996 08:35:02 -0700
To: aprssig@tapr.org
Message-ID: <199610191535.IAA08632@CATI.CSUFresno.EDU>
Rendered body type: text/plain

APRS is active at the Rueben H. Fleet Space Center in San Diego's Balboa
Park Museum district. Visited by thousands of tourists a year, the Science
Center has a fully operational Ham Station with a Kenwood TS450S for HF and
an APRS station with color monitor on 145.790 monitoring all the San Di ego
area action. This all thanks to Jack N6FUG who is the Projectionist for the
Center's IMAX theater. Aided by area Hams, the Ham station will be expanded
to feature SSTV, OSCAR Satellite and other Ham items, but APRS continues to
be the highlight of the exhibit. Visitors watch the mobiles drive around and
learn about how the GPS sats make it all possible. If you plan to visit
San Diego, be sure to stop by the Museum and see this station! They have
established a theme called "SIGNALS" and besides the Ham Station, have a
Morse Code pair of stations where visitors can communicate across the room
with this unusual (?) method.
73, Pat Bunsold WA6MHZ, ARRL San Diego Section Manager

---

420. Re: [APRSSIG:5445] smallest gps/tnc

From: Richard Roberts <rroberts@mcs.com>
Date: Sat, 19 Oct 1996 13:11:58 -0500
To: aprssig@tapr.org
Message-ID: <326919EE.EA0@mcs.com>
Rendered body type: text/plain

Charles W. Davidson wrote:
>
>   I plan on doing a Thru-hike of the Appalacian Trail next
> year. My APRS/GPS mobile is hoplessly too large to consider carrying
> on a six month hike. Whats the smallest, lightest gps/tnc available
> now? It shure would be neat to plot my 2000 mile hike from Georgia to
> Maine via APRS! My budget will probally not let me purchase such a
> system.   However I would still enjoy getting some more info.
>
>   Also for fellow map makers, the Trail was hiked with
> GPS this year. This weekend at Carlise, PA there is a Gathering of
> Long Distance Hikers. At this event I should meet the fellow that made
> this gps-hike and inquire about getting the data for us mapmakers.
>
> Charles
>
> cdavidso@neocomm.net
> http://www.neocomm.net/~cdavidso/
> WB4PAN@WB4QOJ.VA.USA.NOAM
> wb4pan@juno.com
> APRS ALDHA   ATC
> Georgia>97>Main   Chase

I just got back from a trip to Florida and used a Garmin 45XL about
$300.00 and a Kantronics KPC3(cost around $115.00) which will run on a 9
volt battery and a 5 watt ICOM Handie Talkie. It worked fine. You might
try using a Mag Mount also.

Hope this helps.

Rich

---

421. What is W95gps39.zip ??

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sat, 19 Oct 1996 14:27:33 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961019212733.0067b720@mailhost.primenet.com>
Rendered body type: text/plain

I saw the file W95gps39.zip. What is this file? I enjoy APRS\GPS and was
wondering if this file would be helpful.

Thanks for the help & 73, Alan
Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

422. Gathering Wx data

From: vodall@juno.com
Date: Sat, 19 Oct 1996 16:25:24 MST
To: aprssig@tapr.org
Message-ID: <19961019.162527.4887.1.vodall@juno.com>
Rendered body type: text/plain

I've been following this mailing list and monitoring the activity on 30
meters. Looks like lots of fun.

A couple questions:

Is there some summary document that describes the various ways that weather and other analog data can be acquired by a PC? I picked up a Radio Shack in-door/out-door electronic thermometer last week. It's neat to look up and see the digital reading of the outside temperature - but having it available in the computer would be even better. I realized there's got to be a better way after writing down the third temperature reading.

Has anybody set up an input to record current sunlight? Something relative like 0 for pitch dark to 100 for bright sun?

Tnx es 73,
Bill - WA7NWP

---

423. Re: [APRSSIG:5680] W95 naming convention

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 19 Oct 1996 19:29:28 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610191907.C9858-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

You can use Xtree to copy the file to a new directory, or even to delete the directory.

Xtree is a really useful program but is a DOS program and if you use a DOS program to copy a file with a long filename or directoryname then it will not be identical to it's Win95 file or directory. To properly copy files or directories you must use something like the Win95 Explorer.

73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Sat, 19 Oct 1996, David S Dobbins wrote:

```
> Hi SIG. Will somebody literate w/both W95 and W3.1 please tell me how to
> fix the following problem:
> 
> Tonite I downloaded the Powerpoint presentations in the aprs sig
> presentation subdirectory. I unzipped the file and it created a sub
> directory called "my docum" where the file is stored. I'm using W3.1, so
> can't do anything with a directory that apparently was created with W95,
> because it has a space between the MY and DOCUM. I can't rename the
> directory, can't delete it, can't move it, etc. Nor can I open the file
> thru PP because it doesn't recognize the space in the directory name.
> 
> Help please.
> 
> David S. Dobbins/WH6YC      Pacific Northwest APRS Coordinator
> POB 553   404 N Third St        Email: ddobbins@juno.com
> Pe Ell, WA 98572-0553           VHF 147.06 T110.9, or 145.43
> tel: 360-291-3707                    APRS 145.79, 145.75
> pager: 800-514-7489              "In GOD we trust, all others we track by
> GPS"
> 
```

---

424. Re: [APRSSIG:5684] NMEA question

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 19 Oct 1996 19:35:08 -0400 (EDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610191940.D9858-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

It is basically an indicator of how well your gps is receiving the satellites. If you are receiving the satellites well, and you have enough satellites in view, then the dilution number will be low. Your GPS accuracy, or confidence level, is good.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

```
On Sat, 19 Oct 1996 TCox17892@aol.com wrote:

> Can someone explain, or direct me to an explanation of, the concept "dilution
> of precision" as used in NMEA sentences?  Don't understand whether it is a
> percentage (and how it is applied), or something else.
>
```

---

425. Re: [APRSSIG:5693] Re: NMEA question

From: Lyle Johnson <lylej@azstarnet.com>
Date: Sat, 19 Oct 1996 17:40:30 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961019174055.00358f68@pop.azstarnet.com>
Rendered body type: text/plain

```
Dilution of PRecision is really an indication of gemetry.  FOr example, I
work a lot in mines, where at the bottom of a deep open pit we might have 5
satellites in view, with good signal strength, but the apoerture (field of
view) is so constrained by the  geometry of the pit that the Dilution of
Precision is a high value and, as a result, the accuracy of the "fix" is low.

Cheers,

Lyle

At 06:50 PM 10/19/96 -0500, you wrote:
>It is basically an indicator of how well your gps is receiving the
>satellites.  If you are receiving the satellites well, and you have
>enough satellites in view, then the dilution number will be low.  Your
>GPS accuracy, or confidence level, is good.
>
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us
>
>
>On Sat, 19 Oct 1996 TCox17892@aol.com wrote:
>
>> Can someone explain, or direct me to an explanation of, the concept "dilution
>> of precision" as used in NMEA sentences?  Don't understand whether it is a
>> percentage (and how it is applied), or something else.
>>
>
>
>
```

---

426. Re: smallest gps/tnc

From: w4wwq@juno.com (Peter J Lascell)
Date: Sat, 19 Oct 1996 20:03:57 PST
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <19961019.204702.4543.0.W4WWQ@juno.com>
Rendered body type: text/plain

```
>Charles W. Davidson wrote:
>>
>> I plan on doing a Thru-hike of the Appalacian Trail next year .
[snip]
> consider carrying on a six month hike.
[snip]
On Sat, 19 Oct 1996 13:14:16 -0500 (CDT) Richard Roberts
<rroberts@mcs.com> writes:
> You might try using a Mag Mount also.
>
==========================
Charles wants to take this APRS/GPS rig walking thru the woods for 6
months.

I don't think the mag mount will stick to the nylon pack material or pack
frame of aluminium .

Pete Lascell
W4WWQ@juno.com
```

---

427. Re: [APRSSIG:5685] GPS 20 data question.

From: clark@tomcat.gsfc.nasa.gov
Date: Sun, 20 Oct 96 05:24:14 UTC

To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <1362@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
The "M"s are required fields for GGA -- they state that the altitude and
geoid separation are in units of meters. The two trailing commas are nulls
for the DGPS correction age and reference station ID

73, Tom
```

---

428. Re: [APRSSIG:5684] NMEA question

From: clark@tomcat.gsfc.nasa.gov
Date: Sun, 20 Oct 96 05:26:13 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <1369@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
Dilution of Precision is a multiplier. It says that if the fundamental
accuracy of GPS is X on the individual satellites, then the resulting
navigation parameter is poorer by a factor of xDOP due to thew  geometry
of the satellites the receiver is currentkly using. There are several
DOPs in common use: GDOP, PDOP, HOPDOP, VDOP, TDOP. The "G"=General, P=
Position, H=Horizontal, V=Vertical & T=Time. PDOP = sqrt(HDOP^2+VDOP^2)
relates the overall positional accuracy to the Horizontal and Vertical
measurements. GDOP includes contributions from H,V & T. The mathematical
definition relates to the value of the diagonal elements of the cobvariance
matrix used to convert timeing measurements on the satelliuttes into
position determinations.

73, Tom
```

---

429. YESTERDAY'S PPT PROB FIXED

From: ddobbins@juno.com (David S Dobbins)
Date: Sun, 20 Oct 1996 05:34:45 PDT
To: aprssig@tapr.org
Message-ID: <19961020.054213.4471.4.ddobbins@juno.com>
Rendered body type: text/plain

```
Thanks to Thom Griffin for providing solution to yesterday's PPT
question. I was able to del the "MY DOCUM" folder from W3.1 using the
DELTREE command. Once I was able to get at the APRS PPT file, my W3.1 PPT
program wouldn't open it. Perhaps the file was created using a newer W95
version?

David S. Dobbins             Greater Northwest APRS Coordinator
POB 553                            Covering MT, OR, ID, WA
404 N. Third St                 APRS Freqs: 145.75, 145.79
Pe Ell, WA 98572-0553
Tel: (360) 291-3707          Email:  ddobbins@juno.com
```

---

430. Re: [APRSSIG:5696] Re: GPS 20 data question.

From: TCox17892@aol.com
Date: Sun, 20 Oct 1996 09:37:10 -0400
To: aprssig@tapr.org
Message-ID: <961020093709_1514391635@emout08.mail.aol.com>
Rendered body type: text/plain

```
Thanks for your reply.  If I understand you correctly, the GPS-20 documention
should be corrected to add two fields, which we might call <9.5> and <10.5>,
which have the (constant?) value, "M"
```

---

431. Re: [APRSSIG:5405] Re: Pico Packet - questions...

From: schiers@ames.net
Date: Sun, 06 Oct 96 09:11:25 -0500
To: aprssig@tapr.org
Message-ID: <199610201402.JAA05241@tapr.org>
Rendered body type: text/plain

```
In <825258@bbs.ames.net>, on 10/05/96 at 10:02 PM,
   aprssig@tapr.org said:

>I run mine at 10.5 v with no trouble .........I have never trusted the
>manual that says it is good to 13.5..........I also back it off to take
>care of any v spikes that might occur on/off of the power supply.

I have been running mine at whatever comes out of the cig light plug
(which is certainly 13.5 or greater at full charge) for five or six months
```

```
without any problems. I am afraid it is also seeing the spike on engine
start, which has also caused no problems. If the pico were that fragile,
either I have been extraordinarily lucky, or it is not as fragile as some
would believe. 73,

hasan schiers, N0AN
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

432. Re: [APRSSIG:5691] Gathering Wx data

From: Glenn Little <glittle@awod.com>
Date: Sun, 20 Oct 1996 12:37:22 -0400
To: aprssig@tapr.org
Message-ID: <199610201626.MAA15320@sumter.awod.com>
Rendered body type: text/plain

```
At 05:39 PM 10/19/96 -0500, you wrote:
>
>I've been following this mailing list and monitoring the activity on 30
>meters.  Looks like lots of fun.
>
>A couple questions:
>
>Is there some summary document that describes the various ways that
>weather and other analog data can be acquired by a PC?   I picked up a
>Radio Shack in-door/out-door electronic thermometer last week.  It's
>neat to look up and see the digital reading of the outside temperature -
>but having it available in the computer would be even better.  I realized
>there's got to be a better way after writing down the third temperature
>reading.
>
>Has anybody set up an input to record current sunlight?  Something
>relative like 0 for pitch dark to 100 for bright sun?
>
>Tnx es 73,
>Bill - WA7NWP
>
>
>

A cadnium-sulfide solar cell is high resistance in the dark and low
resistance in light.  The resistance varies as the light falling on it.
Maybe this is what you are looking for?

73
Glenn Little
WB4UIV

WB4UIV@amsat.org
glittle@awod.com
```

433. Re: [APRSSIG:5700] Re: Pico Packet - questions...

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Sun, 20 Oct 1996 14:43:57 -0400
To: <aprssig@tapr.org>
Message-ID: <199610201847.OAA04653@celeste.INS.CWRU.Edu>
Rendered body type: text/plain

```
----------
> From: schiers@ames.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:5700] Re: Pico Packet - questions...
> Date: Sunday, October 20, 1996 10:09 AM
>
> In <825258@bbs.ames.net>, on 10/05/96 at 10:02 PM,
>    aprssig@tapr.org said:
>
> >I run mine at 10.5 v with no trouble .........I have never trusted the
> >manual that says it is good to 13.5...........I also back it off to take
> >care of any v spikes that might occur on/off of the power supply.
>
> I have been running mine at whatever comes out of the cig light plug
> (which is certainly 13.5 or greater at full charge) for five or six
months
> without any problems. I am afraid it is also seeing the spike on engine
> start, which has also caused no problems. If the pico were that fragile,
> either I have been extraordinarily lucky, or it is not as fragile as some
> would believe. 73,
>
> hasan schiers, N0AN
> ------------------------------------------------------------
> schiers@ames.net
> ------------------------------------------------------------
 I too run my Garmin 45 and Pico directly from cig light plug, 6+
months and no problems with either. 73

 Joe Carter, AA8SF
 jbc5@po.cwru.edu
```

---

434. Re: [APRSSIG:5690] What is W95gps39.zip ??

```
From: Paul Gilmore <pgilmore@beachnet.org>
Date: Sun, 20 Oct 1996 15:00:14 -0400
To: aprssig@tapr.org
Message-ID: <326A76BE.3F06@beachnet.org>
Rendered body type: text/plain
```

```
Alan K. Unangst wrote:
>
> I saw the file W95gps39.zip. What is this file? I enjoy APRS\GPS and was
> wondering if this file would be helpful.
>
> Thanks for the help & 73,  Alan
> Alan K. Unangst, WC7R
> E-mail: alanwc7r@primenet.com
> Amateur Radio Packet: WC7R @ KB7FRV

Its the New WINGPS program for the Garmin gps's , try it...
--

 Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
 AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
 EMAIL  pgilmore@beachnet.org
```

---

435. Re: Gathering Wx data

```
From: vodall@juno.com
Date: Sun, 20 Oct 1996 13:05:40 MST
To: aprssig@tapr.org
Message-ID: <19961020.130542.5487.1.vodall@juno.com>
Rendered body type: text/plain
```

```
On Sun, 20 Oct 1996 11:45:17 -0500 (CDT) Glenn Little <glittle@awod.com>
writes:
>At 05:39 PM 10/19/96 -0500, you wrote:
>>
>>I've been following this mailing list and monitoring the activity on
>30
>>meters.  Looks like lots of fun.
>>
>>A couple questions:
>>
>>Is there some summary document that describes the various ways that
>>weather and other analog data can be acquired by a PC?   I picked up
>a
>>
>>Has anybody set up an input to record current sunlight?  Something
>>relative like 0 for pitch dark to 100 for bright sun?
>>
>>Tnx es 73,
>>Bill - WA7NWP
>>
>>
>>
>
>A cadnium-sulfide solar cell is high resistance in the dark and low
>resistance in light.  The resistance varies as the light falling on
>it.
>Maybe this is what you are looking for?
>
>73
>Glenn Little
>WB4UIV

Hooking up a photo cell like that will be pretty easy once the analog
input
ports are available.   I was curious if anybody was already doing that.

My assumption is, that with APRS, certain broadcast data values such as
```

temperature are pre-defined but there are other misc fields available.
Is
this true?

The really big quest is: what hardware options are there to add this
data
gathering capability to my system???

73,
Bill - WA7NWP

---

436. Re: [APRSSIG:5704] Re: Gathering Wx data

From: Bill Davis <n2zso@cyberenet.net>
Date: Sun, 20 Oct 96 15:49 EDT
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961020155652.302f5a2a@cyberenet.net>
Rendered body type: text/plain

At 02:31 PM 10/20/96 -0500, you wrote:
>
>On Sun, 20 Oct 1996 11:45:17 -0500 (CDT) Glenn Little <glittle@awod.com>
>writes:
>>At 05:39 PM 10/19/96 -0500, you wrote:
>>>
>>>I've been following this mailing list and monitoring the activity on
>>30
>>>meters. Looks like lots of fun.
>>>
>>>A couple questions:
>>>
>>>Is there some summary document that describes the various ways that
>>>weather and other analog data can be acquired by a PC?   I picked up
>>a
>>>
>>>Has anybody set up an input to record current sunlight? Something
>>>relative like 0 for pitch dark to 100 for bright sun?
>>>
>>>Tnx es 73,
>>>Bill - WA7NWP
>>>
>>>
>>>
>>
>>A cadnium-sulfide solar cell is high resistance in the dark and low
>>resistance in light. The resistance varies as the light falling on
>>it.
>>Maybe this is what you are looking for?
>>
>>73
>>Glenn Little
>>WB4UIV
>
>Hooking up a photo cell like that will be pretty easy once the analog
>input
>ports are available.   I was curious if anybody was already doing that.
>
>My assumption is, that with APRS, certain broadcast data values such as
>temperature are pre-defined but there are other misc fields available.
>Is
>this true?
>
>The really big quest is: what hardware options are there to add this
>data
>gathering capability to my system???
>
>73,
>Bill - WA7NWP
>
>
Bill; I don't know that much in ref. to aprs myself...I do know that the
ultimeter II has an interface that go into the pc and then all info should
go to the aprs program....also kyou can connect a gps to some tncs for use
with aprs.....   Hope this helps....73 de Bill>
Bill Davis, N2ZSO   Cumberland Co.
Skywarn
Millville, NJ   Phone: (609)
825-1052
Fax: (609) 327-5237

437. Re: [APRSSIG:5704] Re: Gathering Wx data

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sun, 20 Oct 1996 15:49:13 -0400
To: aprssig@tapr.org
Message-ID: <326A8239.112F@cyberenet.net>
Rendered body type: text/plain

There are a host of options available for data acquisition with desktop PCs, though none will interface with APRS that I know of.

It may be possible for SOME of these devices to be connected to a TNC much in the same way that a GPS can be at the serial level, provided that the device has a serial port (some are on ISA or VL-bus type PC cards).

The Kantronics KTU I believe can be interfaced with a variety of devices.

You might want to check out come of the following websites:

www.omega.com
www.natinst.com
www.isa.org (links and info on many related sites)

there are many others, try a search on 'data acquisition' at YaHoo or Alta-Vista.

Hope this helps,
Bob

---

438. NI's Javatized Weather page

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sun, 20 Oct 1996 16:13:20 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <326A87DF.3EA8@cyberenet.net>
Rendered body type: text/plain

If you are running Netscape 3.0 or Internet Explorer 3.0 try these Java wx instruments out;

http://weather.natinst.com/javaweather/

---

439. Re: [APRSSIG:5685] GPS 20 data question.

From: kc5ejk@onramp.net (Robert Winingham)
Date: Sun, 20 Oct 1996 15:48:08 -0600
To: aprssig@tapr.org
Cc: TCox17892@aol.com
Message-ID: <v02140b01ae904c87e0c4@[199.1.11.101]>
Rendered body type: text/plain

>In the $GPGGA output from my GPS-20, the first nine fields look plausible.
> They are followed by ",M,-34.1,M,," an asterisk, and a checksum.
>
>This looks like one too many fields, and I don't understand the "M"s. I am
>not providing differential input, so expected a geoidal height, followed by a
>couple of nulls.
>
>Any idea what's going on?

There are Three Good FAQ to read
GPS FAQ
Garmin-45/30/90 FAQ
NMEA FAQ

From: The NMEA FAQ Version 5.0 Apr. 10, 1996 -- P.Bennett WWW site.

```
-------
        GGA - Global Positioning System Fix Data
        GGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42
           123519       Fix taken at 12:35:19 UTC
           4807.038,N   Latitude 48 deg 07.038' N
           01131.324,E  Longitude 11 deg 31.324' E
           1            Fix quality: 0 = invalid
                                     1 = GPS fix
                                     2 = DGPS fix
           08           Number of satellites being tracked
           0.9          Horizontal dilution of position
           545.4,M      Altitude, Metres, above mean sea level
           46.9,M       Height of geoid (mean sea level) above WGS84
                        ellipsoid
           (empty field) time in seconds since last DGPS update
           (empty field) DGPS station ID number
--------

        RMC - Recommended minimum specific GPS/Transit data
        RMC,225446,A,4916.45,N,12311.12,W,000.5,054.7,191194,020.3,E*68
           225446       Time of fix 22:54:46 UTC
           A            Navigation receiver warning A = OK, V = warning
           4916.45,N    Latitude 49 deg. 16.45 min North
           12311.12,W   Longitude 123 deg. 11.12 min West
           000.5        Speed over ground, Knots
           054.7        Course Made Good, True
           191194       Date of fix  19 November 1994
           020.3,E      Magnetic variation 20.3 deg East
           *68          mandatory checksum
---------
        VTG - Track made good and ground speed
        VTG,054.7,T,034.4,M,005.5,N,010.2,K
           054.7,T      True track made good
           034.4,M      Magnetic track made good
           005.5,N      Ground speed, knots
           010.2,K      Ground speed, Kilometers per hour
--------
```

I use RMC most of the time with my GPS tracker to get position, Course and speed. I have the TNC output a GGA every once in a while so I get Altitude.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

440. RE: [APRSSIG:5687] RE: renaming files with a blank in the file name

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Sun, 20 Oct 96 23:58:57 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199610210000250479@msn.com>
Rendered body type: text/plain

Replace the "space" in file name with a "?" and you will be able to rename the file from DOS.   Intersetingly, GWBASIC will handle the blank in a file name but, you will have to conslult the manual for the BASIC equvalents of "delete" and "rename" i.e. "kill" and "name"
jack cavanagh, KB4XF
cjcavanagh@msn.com

441. Re: [APRSSIG:5568] Re: homemade patch antenna sucess

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sun, 20 Oct 1996 17:25:14 -0700 (PDT)
To: Donald Rotolo <73227.2644@CompuServe.COM>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961020171557.28610A-100000@spork.callamer.com>
Rendered body type: text/plain

Hi Don. I am most pleased that you had sucess getting the "simple patch" going. I really enjoy seeing complicated things reduced to simplicity.

Yes, hot glue seems a good insulator. Time will tell. As for the BNC connector, in a later model I placed a chassis mount below the ground plane and found it just right as a foot for the other Nylon feet.

I just returned from PACIFICON where there were many pontificating about patch antennas an not a soul that had any technical depth, so I continue to suggest you fabricate to 3% tolerance until we know otherwise. Is there anyone on the SIG that knows the design equations for a patch antenna? Might be useful to know! Cliff Buttschardt K7RR

On 17 Oct 1996, Donald Rotolo wrote:

> In the article, the author states that the dimensions of the patch should be
> held to 3% -- I'm well within 1%, maybe 1/2%.
>
> Of course, the fact that I mis-assembled the BNC connector so it had no contact
> couldn't have anything to do with it's not working, now could it ??? <g>
>
> I have to re-do the cable part, and try again. I did check the hot melt glue
> I'm using and it is an excellent insulator.
>

> Thanks for the encouragement and good technical comments. ONCE I get this whole thing straightened out, I'll post my findings to the SIG. Oh, and I found a few sheets of copper flashing in the garage, so guess what I'll be using for the next batch of patches...
>
> Regards,
> Don N2IRZ
>
>

---

442. Kansas City APRS Net....

From: James Duncan <ku0g@sprynet.com>
Date: Sun, 20 Oct 1996 17:56:57 -0700
To: aprssig@tapr.org
Message-ID: <199610210056.RAA13246@m1.sprynet.com>
Rendered body type: text/plain

The Kansas City APRS Working Group sponsors an APRS net on 145.43 (-600) locally every Sunday evening beginning at around 2030 CDT/CST. The net convenes immediately following the KC ATV Net. Check-ins are taken by both voice and APRS.

We want to invite ALL APRS users nation-wide to participate via HF APRS. To check in, send a message to KU0G-1. We are monitoring both HF (10.151 MHz) and VHF (145.79 MHz). Your ACK will confirm your QNI. I will post a message to the SIG right after the net to list all check-ins received!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

443. KC APRS Net Check-Ins 10/20/96

From: James Duncan <ku0g@sprynet.com>
Date: Sun, 20 Oct 1996 19:30:54 -0700
To: aprssig@tapr.org
Message-ID: <199610210230.TAA29517@m1.sprynet.com>
Rendered body type: text/plain

NV0O - DAVID, LEE'S SUMMIT, MO
KA0JLF - DON, OVERLAND PARK, KS.
WA0NKE - DALE, KANSAS CITY NORTH, MO.
W0DEL - WILBUR, SHAWNEE, KS.
N0XZB - CHRIS, OVERLAND PARK, KS.
KB0OMP/0 - J.R., BLUE SPRINGS, MO.
N0FUN - STEVE, SMITHVILLE, MO.
KB0LRA - GLENN, KANSAS CITY NORTH, MO.
N0LRF - PAUL, GARDNER, KS.
N0KCP - GENE, KANSAS CITY, KS.
WB0YNE - DAVIS, LEAVENWORTH, KS.

NV0O was mobile in Amarillo, TX, met with a couple of the local boys down there. One of the gentlemen that met Dave was the male parental unit of the famous (or infamous!) Sproul Brothers!

WA0NKE playing with his Celestron 8" Schmidt/Cass telescope this evening and relaying views from the scope out via ATV, mostly moonshots. Has been working with WinAPRS lately.
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

444. APRS Shirts?

From: rwf <rwf@mindspring.com>
Date: Sun, 20 Oct 1996 23:37:27 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961021033727.006d1b50@mindspring.com>
Rendered body type: text/plain

A while back, some APRS polo shirts were offered for sale by a SIG member.
Who else has paid and not received theirs?
Please respond VIA EMAIL! Not in the SIG.

Ralph
rwf@mindspring.com

---

445. Re: [APRSSIG:5680] W95 naming convention

From: MBoyce1856@aol.com
Date: Sun, 20 Oct 1996 23:37:21 -0400
To: aprssig@tapr.org
Message-ID: <961020233719_1347333643@emout04.mail.aol.com>
Rendered body type: text/plain

TRY USING XTREEGOLD (NEWEST VERSION) AND SHUD BE ABLE TO RENAME THE SUB-DIRECTORY THAT WAY.

73,
MIKE
k0coy@amsat.org

---

446. APRS Shirts?

From: rwf <rwf@mindspring.com>
Date: Sun, 20 Oct 1996 23:43:37 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961021034337.006f5738@mindspring.com>
Rendered body type: text/plain

Just after I posted the Shirt message, I heard from the person who was selling them. He states that they are to be shipped real soon now. (picking them up this Thursday)

Ralph
rwf@mindspring.com

---

447. serial a to d

From: jclakeland@ucdavis.edu (John Lakeland)
Date: Sun, 20 Oct 1996 21:35:39 -0800
To: aprssig@tapr.org
Message-ID: <199610210435.VAA15069@franc.ucdavis.edu>
Rendered body type: text/plain

Hi all,
Well I still hope that the APRS software authors provide support for at least 1 serial a to d board. Recent mail on the sig about cadmiun sulfide cells and the like demonstrate the variety of uses it would serve. For those currently discussing the subject it was discussed in some depth a while ago here, read back.

John Lakel;and kc6vlr

---

448. DFjr to Garmin-20 GPS Interface

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 21 Oct 1996 03:30:54 -0600
To: aprssig@tapr.org
Message-ID: <v02140b02ae90eea3405c@[199.1.11.101]>
Rendered body type: text/plain

I have my DFjr and plan to use it with a Garmin-20.

Are there any DFjr users that have attached a Garmin-20 GPS ?
I also wonder what baud rate you found works best.?

I also am wondering what we should ask the MACaprs and WINaprs software to do with the bearing data from the DFjr and the GPS course data $RMC so that we have absolute bearing displayed and not just relative bearing,
OR
should we just have the selections Bob does in DOSaprs.

There is mentioned of a Fluxgate in the APRS doc file but the last time I used a Fluxgate it was a three-axis device towed 3 miles+ deep in the ocean. I think I will stick with GPS data.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

449. Re: [APRSSIG:5703] Re: What is W95gps39.zip ??

From: Arte Booten <N2ZRC@gnn.com>
Date: Mon, 21 Oct 1996 07:06:03
To: aprssig@tapr.org
Message-ID: <199610211107.HAA31424@mail-e2b.gnn.com>

Rendered body type: text/plain

```
On Sun, 20 Oct 1996 Paul Gilmore replied to:

>
>Alan K. Unangst:
>>
>> I saw the file W95gps39.zip ...

>Its the New WINGPS program for the Garmin gps's , try it...

    Ah, but will it ONLY work with a Garmin or can any NMEA0183
equipped GPS unit play?


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

450. Re: [APRSSIG:5718] Re: What is W95gps39.zip ??

From: Paul Gilmore <pgilmore@beachnet.org>
Date: Mon, 21 Oct 1996 09:44:16 -0400
To: aprssig@tapr.org
Message-ID: <326B7E30.78A6@beachnet.org>
Rendered body type: text/plain

```
Arte Booten wrote:
>
> On Sun, 20 Oct 1996 Paul Gilmore replied to:
>
> >
> >Alan K. Unangst:
> >>
> >> I saw the file W95gps39.zip ...
>
> >Its the New WINGPS program for the Garmin gps's , try it...
>
>     Ah, but will it ONLY work with a Garmin or can any NMEA0183
> equipped GPS unit play?
>
>                Arte Booten <N2ZRC@gnn.com>
>  (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> .. Sensors say there is nothing at those coordinates ...

ANY NMEA 0183 WILL WORK>>>
--

 Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
 AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
 EMAIL  pgilmore@beachnet.org
```

451. UNSUBSCRIBE

From: Karl DeLyria <kdelyria@rain.com>
Date: Mon, 21 Oct 96 09:20 PDT
To: <aprssig@tapr.org>
Message-ID: <m0vFN5o-00011QC@psg.com>
Rendered body type: text/plain

[Empty message body]

452. Lo-Jack

From: Jerry Stuart <jerrys@bihs.net>
Date: Mon, 21 Oct 1996 11:37:24 -0500
To: aprssig@tapr.org
Message-ID: <326BA6C4.6AE5@bihs.net>
Rendered body type: text/plain

```
AMATEUR RADIO LO-JACK

   And finally, most people are familiar with the Lo-Jack system for
recovering stolen vehicles. Amateur radio operators have been
experimenting
with a similar system called APRS which really isn't designed to recover
stolen cars, but certainly could be used in that mode.
```

Now, the San Diego California Responder newsletter reports that
recently, as Scotty Leikett, W8KXX, was going to bed, he looked out his
window and noticed that his APRS-equipped car was missing. One glance
at
his computer terminal showed that the vehicle was across town and
moving!
He notified the San Diego Police Department, but the dispatcher would
not
believe that an owner had the ability to track his stolen car by radio.

When the policeman arrived, Scotty explained the ARPS system and
showed
him the car's symbol with the unique amateur call on an APRS city map.
The
officer relayed the precise location to the police cruisers.

As it happened, the stolen car and a police cruiser were stopped at
the
same red light with the thieves were still in the car.   Surprised at
the
officers' sudden attention, the culprits made an illegal left turn and
the
chase was on. Soon after the crooks abandoned the car and escaped,
leaving
a hand gun behind.

The car was recovered without major damage thanks to ARPS and ham
radio.

Credits:
The previous is late news about Amateur Radio for Radio Amateurs as
prepared from NEWSLINE RADIO scripts by the staff of the AMATEUR RADIO
NEWSLINE, INC., formerly the WESTLINK RADIO NETWORK. Amateur Radio
Newsline is a audio news service distributed via telephone.

Jerry Stuart KC5JAY
E-Mail: jerrys@bihs.net
Home: 7945 FM 1179 Bryan TX 77808-7621
Or: PO Box 5333 Bryan TX 77805-5333
Day work 409-778-3474 (9am-5pm)
Night work 409-776-4334 (6pm-2:30am)
Fax 409-774-4885

```
       o~
   _[-/)
   (_)\\(=)= o o o . . .    Live to ride-ride to live.
```

453. LOST EMAIL

From: ddobbins@juno.com (David S Dobbins)
Date: Thu, 10 Oct 1996 20:02:59 PDT
To: aprssig@tapr.org, amsdenj@rtinet.com, 72155.1222@compuserve.com,
wbliss@coastside.net, cougercat@prostar.com, ep@eyephrase.com,
RGervenack@aol.com, aa7ya@juno.com, slhayden@worldnet.att.net,
fmcjunki@cks.ssd.k12.wa.us, tmproehl@nwlink.com, annr@comtch.iea.com,
reeves@christenson.com, nl7ms@baker.cnw.com, dougwe@wrq.com,
foga@foothill.net, kc7lsp@juno.com, kc7epd@juno.com, n7zkl@amsat.org,
bshimmin@juno.com, w7hgk@BIGJOHN.bmi.net, kc7htk@juno.com,
phkv94a@prodigy.com, rgibson@cdsnet.net, rrross@cdsnet.net,
n7fsp@n7fsp.ampr.org, redwards3@juno.com, willy@mcn.net, n7cfa@tdn.com,
jbrock@tincan.tincan.org, jimvhn@delphi.com, wb4apr@amsat.org,
kb7jcp@worldnet.att.net
Message-ID: <19961010.190421.4487.1.ddobbins@juno.com>
Rendered body type: text/plain

For the second time in two days I've dumped, unintentionally, all 52
incoming messages. If I don't disconnect the incoming tel line to modem,
and another call comes in, the laptop locks up and I have to power down
to reboot, thus loosing all incoming JUNO email. If you sent me a message
in the past two days, please resend it.

Hi to Bill/WB6LPG, you old codger.

```
David S. Dobbins/WH6YC      Pacific Northwest APRS Coordinator
POB 553   404 N Third St        Email: ddobbins@juno.com
Pe Ell, WA 98572-0553           VHF 147.06 T110.9, or 145.43
tel: 360-291-3707                    APRS 145.79, 145.75
pager: 800-514-7489              "In GOD we trust, all others we track by
GPS"
```

454. APRS COMMERCIAL APPLICATIONS

From: "Adrian M. Zeffert" <azeffert@cardion.com>
Date: Mon, 21 Oct 1996 17:53:33 -0400
To: aprssig@tapr.org
Message-ID: <96Oct21.150136edt.14977@gateway.cardion.com>
Rendered body type: text/plain

```
Bob Bruninga  WB4APR

Bob:

Need to talk to you about commercial gps/radio based position determining
system components and software. Please e-mail contact numbers to:
azeffert@cardion.com or telephone 516-921-7300 x283

73 de KA2MIF

Adrian M. Zeffert
```

---

455. APRS77d replaces 77c!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 21 Oct 1996 16:27:06 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961021162033.28532A-100000@arctic>
Rendered body type: text/plain

```
Files just uploaded to TAPR:
   APRS77d.zip  about 1 Meg
   77to77d.zip        445k
   76to77d.zip        750k.

77d fixes the major bug found in 77c.  Once 77d proves good, then all
copies of 77c should be deleted everywhere...

Here's the scoop:

Ver 77d:  Big problem in 77c.  It defaults to not recognize on the air
  GGA position reports.  You had to do a alt-S-G-M-G to turn on GGA and
  then it would ignore RMC!  This was intended in 77c to allow the user
  to select which NMEA string *HIS* GPS would use, but it also filtered
  out on-air packets too!  Now you can select GGA, or RMC, or BOTH
  (Default)
* This required a new CFIG file.  YOu can add a 0,0 at the end, just
  before  the listing of your DIGI paths (or ****'s if you dont have any),
  and rename  your existing CFIG75b.APR to CFIG77d.APR if you like...
* Changed default path to RELAY,WIDE and added default OPS-DIGI paths
  of NONE, RELAY,WIDE and WIDE,WIDE.
* Magnified default altitude scale in 3D by factor of 4 for CAP.  Now
  32 mile scale will default to 8000 feet.
* Moved OPS-UNPROTO command to OPS-DIGI-ENTER command for consistency.
  But so you can still do it with 2 keys, OPS-ENTER will work...
* Fixed a bug in 77c that allowed remote WX BText to cancel out the WX
  data

Ver 77c:  Changed alt-BText command to INPUT-MY-STATUS to more correctly
describe the APRS STATUS Beacon.  Also eliminates the confusion between
TNC BText and APRS Status Beacon.
* Re-arranged INPUT-MY commands to accomodate MY-POS and MY-STATUS
* Moved MAPS-BORDERS to MAPS-PLOTS-BORDERS
* alt-S-DF-MAGvar is now listed in the alt-S-DF menu
* DF bearing line length now proportional to sending station map range
* Changed CONTROLS-K/M to CONTROLS-METRIC which is now same as WX-METRIC
* Course and SPeed box now displays KPH if Metric
* Removed special GGA display on 23rd line.
* Now alt-S-GPS-MODES-GGA forces APRS to use only the GGA (or GLL)
* Added alt-S-GPS-MODES-RMC to force APRS to use RMC only (default)
* SEND (copy message) now lets you add text to the end of a copied msg.
* Msg replies to Queries will use line number {: and will not be acked.
* New parser eliminates all packets that dont start with $,% or A-Z, 0-9
* Fixed Z/z case bug in Manual POS corrections that messed up ZULU time
* REMOVED MK100k3.EXE from standard distro.  Get it from tapr or BBS.
* Edited and cleaned up GPS.txt and renamed VOX-APRS.txt to MIC-E.txt

Ver 77b:  77a had a bug that caused incorrect selection of the default
response during a prompt.  It was fixed and immediately re-relesed as 77b.
* New definitions of first POSIT character: (pending Sproul's agreement)
  / = TNC only     M = MacAPRS     X = Xaprs
  @ = APRSdos      W = WinAPRS     J = javAPRS
* JUST-TYPES command will display station TYPE (above) instead of symbol.
* Fixed WX fade-to-gray
* Fixed mouse to sleep problem
* Fixed ALT-BTEXT being forced to UCASE
```

---

456. Re: [APRSSIG:5723] APRS COMMERCIAL APPLICATIONS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 21 Oct 1996 17:04:04 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961021170307.28532D-100000@arctic>
Rendered body type: text/plain

```
My daytime phone is 410-293-6417 and evenings is 553-6021 til 2330 Eastern
time...

Sounds great!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

457. Central Georgia Digi

From: kr4ol@juno.com
Date: Mon, 21 Oct 1996 14:43:06 PST
To: aprssig@tapr.org
Message-ID: <19961021.144442.29767.1.KR4OL@juno.com>
Rendered body type: text/plain

```
On  Fri, 18 Oct 1996 05:08:09 EDT, Ralph Fowler, N4NEQ Wrote regarding
the new Central Georgia Wide/Relay Digi and the trouble with the 75 Ohm
CATV hardline;

>Consider leaving the CATV hardline.  Your SWR is only gonna be about
>1.5:1 with it.
>If you MUST have 50 ohm, there are simple transformer/connectors you can
>make or buy.  Msg me if you want the info on how.


        Greetings Ralph, and the SIG! Thanks for writing regarding the
new Central Georgia Wide/Relay Digi. We are very excited about getting
it up & running. This has been an amazing project that has been built
with some new ideas that may prove to be beneficial for others that want
to put up Wide area digis. I want to speak to Ralph's suggestion that we
leave the CATV hardline in place, but first let me give you some
background on what we have done.

        KR4OL-2 is located on a commercial tower North of Macon at the
365' level. This gives us an approximate HAAT of 400'. The antenna and
feedline were installed on the tower last February and have been serving
a packet node and BBS ( MCN07 and MCNBBS ). At the time, no 50 Ohm
hardline was available within our budject ( $ -0.00 ), so we opted for
using the 75 Ohm CATV hardline. I purchased the Z-D Manuf. transformers
that claimed to make the 75 Ohm Cable behave and look like 50 Ohm cable
to the radio. After it was installed, the SWR at the rig was over 3:1.
After much consideration and studying, it was decided the second hand
Station Master antenna must be at fault for the high SWR. Another climb
was made & the Station Master changed out for a Diamond F-23a that was
proven to be flat at the frequency we desired. After installation, same
result. SWR was above 3:1. I finally installed a UHF "tee" between the
rig and the CATV transformers to make a tuning stub. With this, I have
been able to get the SWR down to 1.1:1, and performance has improved.
Since then, we have installed a second port for the node and BBS on the
tower at 280'. Some 7/8" 50 Ohm hardline was donated and installed. On
this port, we are operating at less than half the power we are using for
the higher antenna with MUCH better performance. After consulting some of
the local repeater owners, some of which have experimented with CATV
hardline, we have determined that the transformers will probably work
great with 75 Ohm runs of 100' or less, but the 400' we have in the line
is just too much for the transformers. We are presently awaiting delivery
of 50 Ohm 7/8' hardline to replace the CATV hardline. We anticipate to
see this feedline and antenna begin to outperform its sister antenna
located 80' below it.

        In another message, I will explain how one transmitter, one
feedline, and one antenna is serving not only APRS on 145.790 Mhz., but
also MCN07 and MCNBBS on 145.070 Mhz. simultaneously. This is exciting
stuff!

                                73! de Tom, KR4OL @ KR4OL.#MCN.GA.USA.NA
                                                or, KR4OL@Juno.com
```

458. Re: [APRSSIG:5724] APRS77d replaces 77c!

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 21 Oct 1996 18:16:30 -0700
To: aprssig@tapr.org
Message-ID: <326C206E.685B@concentric.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Files just uploaded to TAPR:
>    APRS77d.zip  about 1 Meg
>    77to77d.zip        445k
>    76to77d.zip        750k.
>


I'm sorry Bob but I don't see any of these files on Tapr.
I checked twice at 5:45 CD and again at 6:15 Cd
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

459. 77d

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 21 Oct 1996 18:22:03 -0700
To: aprssig@tapr.org
Message-ID: <326C21BB.6D20@concentric.net>
Rendered body type: text/plain

```
Just to make sure i checked again and following are the only files there.

76to77b.zip
76to77c.zip
77to77c.zip
APRS77c.zip

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

460. APRS77d.zip

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Mon, 21 Oct 1996 19:00:22
To: aprssig@tapr.org
Message-ID: <199610212359.TAA07330@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Where is this file hidden? I am unable to locate it in
ftp://ftp.tapr.org.  I would like to download it.
```

---

461. where is 77d?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 21 Oct 1996 20:38:48 -0400 (EDT)
To: "Alan K. Unangst" <alanwc7r@primenet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961021203736.14540A-100000@arctic>
Rendered body type: text/plain

```
On Mon, 21 Oct 1996, Alan K. Unangst wrote:

> Bob, passed the news on to Davis, then went to TAPR to retrieve it for
> myself and no go. Where did you post it?

APRSdos REPLY/COMMENT:  OOPS!  I spent the 50 mins to upload it to my
server, but then forgot to FTP it to TAPR!  Its there now...
```

```
Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

462. Re: [APRSSIG:5726] Central Georgia Digi

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 21 Oct 96 21:17:24 edt
To: aprssig@tapr.org
Message-ID: <m0vFVTD-0002FRC@wa4mei.radio.org>
Rendered body type: text/plain

```
On Mon, 21 Oct 1996 18:05:04 -0500 (CDT) you wrote:

>At the time, no 50 Ohm
>hardline was available within our budject ( $ -0.00 ), so we opted for
>using the 75 Ohm CATV hardline. I purchased the Z-D Manuf. transformers
>that claimed to make the 75 Ohm Cable behave and look like 50 Ohm cable
>to the radio. After it was installed, the SWR at the rig was over 3:1.

I've personally used 75 ohm catv hardline with no transformers
in both VHF and UHF 50 ohm systems with no problems.  This
was some 15 years ago so I don't remember the exact swr readings
but they were not any where near 3:1 and the performance was
very good.

Your 3:1 SWR and poor performance indicates a short or open at the antenna end of the feed line.  Even
3:1 is only 25% power reflected back and most of
it is reflected *again* at the transmitter ( minus 2x line loss) and goes
back to the antenna. Very little performance will be lost.
Perhaps there's a kink or dent in the line or a bad connector.

Anyway, replacing it with known good 50 ohm line will probably fix
it.  I just wanted to defend the use of good catv hardline.

My $ .02




--------------------------------------------------
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp v4
```

---

463. Re: [APRSSIG:5724] APRS77d replaces 77c!

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 21 Oct 1996 22:06:30 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961021215942.12480A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
Bob,

I have a suggestion that I'd like to throw out to all on the list...

RE: WX displays

        I like the new optional WX display formats on screen. However, my
area is getting more and more stns and I used to run with CALL's turned
OFF. I like the optional WX data displays so much that I now run with
CALL's turned ON. This clutters up the map greatly (at the scale I like
to use)  If I use Just Wx I will not see the normal stations.

I would really like it if there was some way to show ALL of the icons,
but NO CALL's except for WX stns?

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

464. APRS77d.zip

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Tue, 22 Oct 1996 06:39:25
To: aprssig@tapr.org
Message-ID: <199610221138.HAA13116@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Bob:

I have tried without success to find APRS77d.zip on the tapr ftp
site.  PLEASE!! What is the command line to find this file?

John...
```

465. Re: [APRSSIG:5726] Central Georgia Digi

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Tue, 22 Oct 1996 08:07:51 EDT
To: aprssig@tapr.org
Message-ID: <19961023.180415.4647.0.WD4CQE@juno.com>
Rendered body type: text/plain

```
KR4OL is being seen up into Crossville, Tn. Great to see more digis..
```

466. Re: [APRSSIG:5645] The Western NC APRS & Ham Radio Home Page

From: nickart@midtenn.net (Nicholas R. Smith)
Date: Tue, 22 Oct 1996 07:52:33 GMT
To: aprssig@tapr.org
Message-ID: <199610220752.HAA14618@sneezy.midtenn.net>
Rendered body type: text/plain

```
>Been alot of work going on at The Western North Carolina APRS & Ham Radio
>Home Page. Added some new info. like repeater freqs for the U.S. and links
>to Weather sites to get the local forecast, storm or hurricane data. So come
>by and check it out. Going be adding more APRS stuff ASAP.
>
>http://www.bluenet.net/ke4htm
>
>Jamie - KE4HTM
>
Hi Jamie:

Could you give me the lat-lon on your digis in NC(western). We have several
mountain top digis in eastern TN and would really like to get linked up to
NC but I guess the mountains are preventing that.  I did see one testing at
Mt. Mitchell, but it never came back.  Thanks

Nick Smith WA4GKM

Editor - "Amateur Radio Trader"
Chief Pilot - Consultant - "Trade-A-Plane"

e-mail wa4gkm@amsat.org
800-774-2623 voice
800-423-9030 fax
```

467. Re: [APRSSIG:5732] Re: APRS77d replaces 77c!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Oct 1996 10:12:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961022101138.19267B-100000@arctic>
Rendered body type: text/plain

```
On Mon, 21 Oct 1996, Richard Amirault wrote:

> I would really like it if there was some way to show ALL of the icons,
> but NO CALL's except for WX stns?

APRSdos REPLY/COMMENT:  OK, ill make it so that if you turn OFF calls,
that the WX stations will remain IF the special display formats are
selected...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

468. Re: Weather station display

From: Mark Sproul <sproul@ap.org>
Date: Tue, 22 Oct 1996 10:00:49 -0400
To: aprssig@tapr.org
Message-ID: <v03007802ae9283c7ed40@[165.1.27.178]>
Rendered body type: text/plain

```
>RE: WX displays
>
>       I like the new optional WX display formats on screen. However, my
>area is getting more and more stns and I used to run with CALL's turned
```

```
>OFF. I like the optional WX data displays so much that I now run with
>CALL's turned ON. This clutters up the map greatly (at the scale I like
>to use)  If I use Just Wx I will not see the normal stations.
>
>I would really like it if there was some way to show ALL of the icons,
>but NO CALL's except for WX stns?
>


There is quite a bit of work being done on Mac/WinAPRS exactly on these
lines.  It is a long way from finished but we are designing in much of this
type of capability.


Mark

____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

---

469. Lo-Jack

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Oct 1996 10:52:54 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961022104756.19267K-100000@arctic>
Rendered body type: text/plain

```
> AMATEUR RADIO LO-JACK
>
>    Most people are familiar with the Lo-Jack system for recovering
> stolen vehicles. Amateur radio operators have been experimenting with a
> similar system called APRS which really isn't designed to recover stolen
> cars, but certainly could be used in that mode.....
> ........  The car was recovered without major damage thanks to APRS and
> ham radio.

APRSdos REPLY/COMMENT:  Nice report!  I guess I should be happy to see
that even unregistered users get a benefit from APRS.  hi hi :-)

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

470. Re: [APRSSIG:5738] Lo-Jack

From: William Nolle <wa8inz@concentric.net>
Date: Tue, 22 Oct 1996 10:59:31 -0700
To: aprssig@tapr.org
Message-ID: <326D0B83.231A@concentric.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
>
> APRSdos REPLY/COMMENT:  Nice report!  I guess I should be happy to see
> that even unregistered users get a benefit from APRS.  hi hi :-)
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

O well maybe now he will Bob.

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

471. 6m aprs

From: "David Michael Gaytko ***@*** FM15mm" <cn2859@coastalnet.com>
Date: Tue, 22 Oct 1996 12:13:32 -0400

To: six-list@i1.net
Cc: aprssig@tapr.org
Message-ID: <326CF2AC.4AFD@coastalnet.com>
Rendered body type: text/plain

requesting freq/call for aprs digis on 6m.

tks . ... 73's

david

---

472. Re: APRS77d replaces 77c!

From: wa4mej@juno.com (john w dent)
Date: Tue, 22 Oct 1996 09:49:34 PST
To: aprssig@tapr.org
Message-ID: <19961022.112329.4615.0.wa4mej@juno.com>
Rendered body type: text/plain

```
i got 7.7d and it works just great and i got it from tapr wester day
john wa4mej

On Mon, 21 Oct 1996 18:56:34 -0500 (CDT) William Nolle
<wa8inz@concentric.net> writes:
>Bob Bruninga wrote:
>>
>> Files just uploaded to TAPR:
>>    APRS77d.zip  about 1 Meg
>>    77to77d.zip        445k
>>    76to77d.zip        750k.
>>
>
>
>I'm sorry Bob but I don't see any of these files on Tapr.
>I checked twice at 5:45 CD and again at 6:15 Cd
>--
>                    \////
>                    (0 0)
>               *--o0-(_)-0o--*
>               wa8inz@amsat.org
>               wa8inz@cris.com
>    Check out my dedicated A.P.R.S Web Page.
>      THANKS TO THE 38 MENTOR VOLUNTEERS
>
>       http://www.concentric.net/~wa8inz
>
>
```

---

473. 77d question

From: "Chris H. Edwards, AE4XO" <hedwards@st6000.sct.edu>
Date: Tue, 22 Oct 1996 12:53:11 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.A32.3.91.961022125150.63564B-100000@st6000.sct.edu>
Rendered body type: text/plain

Hello I downloaded v 77d yesterday, and was trying to set OPS Digi
paths. I used O - d S and it never saved my path. Anyone else
having the same problem??

Chris AE4XO
Marietta, GA

---

474. newbie help

From: Gumby <rgeer@physio-control.com>
Date: Tue, 22 Oct 96 10:14:57 PDT
To: aprssig@tapr.org
Message-ID: <9610221714.AA15149@physio-control.com>
Rendered body type: text/plain

I have been following the list for awhile now, I finally got a
computer and I really want to get started with APRS. I do not have a
ham license yet, but I want to see whats going on in my area (22mi.NE of
Seattle WA.). can someone reccomend an inexpensive receiver/scanner
and maybe do a little bit of elmering?

Thanks for your time
Gumby rgeer@physio-control.com
AKA   gumby@seanet.com

475. Re: [APRSSIG:5731] Re: Central Georgia Digi

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Tue, 22 Oct 96 17:23:02 UTC
To: aprssig@tapr.org
Message-ID: <1579@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
Concerning the comment:

>At the time, no 50 Ohm
>hardline was available within our budject ( $ -0.00 ), so we opted for
>using the 75 Ohm CATV hardline. I purchased the Z-D Manuf. transformers
>that claimed to make the 75 Ohm Cable behave and look like 50 Ohm cable
>to the radio. After it was installed, the SWR at the rig was over 3:1.

If you use 75 ohm coax in a 50 ohm system WITHOU ANY TRANSFORMERS, the
SWR is only  1.5:1  (i.e. 75/50). In the real world, this is an insignificant
mismatch. The only downside to saving money by using 75 ohm coax is that
suitable connectors are a hassle.

73, Tom
```

476. Re: [APRSSIG:5741] Re: APRS77d replaces 77c!

From: William Nolle <wa8inz@concentric.net>
Date: Tue, 22 Oct 1996 12:27:30 -0700
To: aprssig@tapr.org
Message-ID: <326D2022.64AB@concentric.net>
Rendered body type: text/plain

```
john w dent wrote:
>
> i got 7.7d and it works just great and i got it from tapr wester day
> john wa4mej
>
> >I'm sorry Bob but I don't see any of these files on Tapr.
> >I checked twice at 5:45 CD and again at 6:15 Cd

Yes I got it now, but it wasn't there the two times I logged on. And as Bob
posted later he didn't upload it when he tought he did. I maybe getting old,
but not that old that when i looked twice and still didn't see it I was sure
No matter what anybody says Hi. John i'm sure you got it later in the day.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

477. new AZ wide

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Tue, 22 Oct 1996 11:22:41 -0700 (MST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.961010105612.15237A-100000@willow>
Rendered body type: text/plain

```
The Motorola Amateur Radio Club of Arizona is proud to announce the
operational status of a new APRS WIDE-RELAY digipeater in the Phoenix
Metro Area.  The frequency is 145.79Mhz and is located in Tempe.  This
site will serve the entire east valley and most of Phoenix.  Actually,
W8FWF in Sun City West is solid copy into it, so coverage may be greater
than anticipated.

CALL = KC7KJK
ALIAS = WIDE
NODE = RELAY
BT = !3321.33N/11154.33W#PHG9210/WIDE-RELAY

Enjoy,

Chris Terwilliger, AA7WD
```

478. DFjr to Garmin-20 GPS Interface

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 22 Oct 1996 14:39:38 -0700

To: aprssig@tapr.org
Message-ID: <326D3F19.208E@cris.com>
Rendered body type: text/plain

Robert,

Can you call me or give me your number so I can call you
to discuss the problem your having further. We have spent
two days on trying to simulate your problem, nothing. I still
have a feeling that it's your data cable or MPA, is their a way
you can check these, try diconnecting the antenna unit to make
sure nothing is shorted in one of the logic lines there, and
running your test with the GPS to DFjr and then to the PC,
everything the same less the antenna plugged in.

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553 "   "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

479. Re: 6m aprs

From: gco <gco@norfolk.infi.net>
Date: Tue, 22 Oct 1996 14:53:42 -0400
To: cn2859@coastalnet.com
Cc: six-list@i1.net, aprssig@tapr.org
Message-ID: <326D1836.25B6@norfolk.infi.net>
Rendered body type: text/plain

David Michael Gaytko ***@*** FM15mm wrote:
>
> requesting freq/call for aprs digis on 6m.
>
> tks . ... 73's
>
> davidis there aprs traffic on 6m, i dont even knopw of any 6m packet in
eastren virginia. i am located in fm17td. 7 3 curt ad4nj

480. Web page moved to new ISP

From: Rick Szpyrka <wb8tif@cris.com>
Date: Tue, 22 Oct 1996 15:15:25 -0400
To: aprssig@tapr.org
Message-ID: <326D1D4C.30A5@cris.com>
Rendered body type: text/plain

Hello ALL,
Just to inform you that the WB8TIF Web Page which contains APRS, Space
Shuttle and Satellite Info has moved to a new ISP. The URL is
http://www.concentric.net/~wb8tif please bookmark and/or update your
links. Also my new email address is wb8tif@cris.com
Thanks and 73 Rick WB8TIF

--
Rick Szpyrka   WB8TIF
Bloomfield Hills, MI USA
Email: wb8tif@cris.com or wb8tif@amsat.org
URL: http://www.concentric.net/~wb8tif

481. Re: [APRSSIG:5742] 77d question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Oct 1996 15:30:46 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961022152922.21807D-100000@arctic>
Rendered body type: text/plain

On Tue, 22 Oct 1996, Chris H. Edwards, AE4XO wrote:

> Hello I downloaded v 77d yesterday, and was trying to set OPS Digi
> paths. I used O - d S and it never saved my path. Anyone else

> having the same problem??

APRSdos REPLY/COMMENT: I hope this isnt a bug!.. Anyway, everyone will notice the MAJOR change in that now you must do an OPS-DIGI-ENTER instead of the old OPS-UNPROTO. Ill check the SAVE when I log off here...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

482. Re: [APRSSIG:5747] DFjr to Garmin-20 GPS Interface, oops!

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 22 Oct 1996 15:51:41 -0700
To: aprssig@tapr.org
Message-ID: <326D4FFD.1FFE@cris.com>
Rendered body type: text/plain

Joe Agrelo wrote:
>
> Robert,
>
> Can you call me or give me your number so I can call you
> to discuss the problem your having further. We have spent
> two days on trying to simulate your problem, nothing. I still
> have a feeling that it's your data cable or MPA, is their a way
> you can check these, try diconnecting the antenna unit to make
> sure nothing is shorted in one of the logic lines there, and
> running your test with the GPS to DFjr and then to the PC,
> everything the same less the antenna plugged in.
>
> Thanks!
>
> 73 De Joe N2OOC (new address & phone effective 8/15)

Oops! I meant to send this to Bob Winingham directly, sorry!

```
73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

483. OPS-DIGI in 77D

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Oct 1996 15:53:15 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961022154816.26716A-100000@arctic>
Rendered body type: text/plain

The report was correct that you cannot USE the 12th entry in your OPS-DIGI list in 77d. WORKAROUND is to put a dummy path there by just making your first entry be XX, then all will work normally.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

484. Re: [APRSSIG:5743] newbie help

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Tue, 22 Oct 1996 13:15:35 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961022131536.1e8fd050@mailhost.primenet.com>
Rendered body type: text/plain

At 12:19 PM 10/22/96 -0500, Gumby wrote:
>I have been following the list for awhile now, I finally got a
>computer and I really want to get started with APRS. I do not have a
>ham license yet, but I want to see whats going on in my area (22mi.NE of
>Seattle WA.). can someone reccomend an inexpensive receiver/scanner
>and maybe do a little bit of elmering?
>

Buy a Kantronics KPC-3. Don't buy any other TNC as a beginner. If you like
APRS/Packet you can always buy another TNC later if you want more features.
And I bet you will still use the KPC-3 even after purchasing another TNC. I
have FIVE TNC's (including a 9600 bps Paccomm Spirit-2) and use the KPC-3
most consistantly.

Any scanner, even a 25 dollar used one, should work well for monitoring
APRS. Or, any 2-meter HT, used or new is also appropriate. Standard has a
new 2 meter HT with alphanumeric display for under $200. ADI also makes an
inexpensive 2-meter HT. I have found older non-pl, non-DTMF, 2-meter
transceivers for under $50. Some are crystal controlled, and those may be
difficult to put on 145.79 MHz. I recommend buying a new HT. I looked for
two years at hamfests for someone asking a "reasonable" price for a used HT
and never NEVER found one. I still can't understand why MOST hams think
that their 10 year old non-PL, Non-DTMF, with a dead battery, HT is worth $175!

That's my 2 cents

---

485. Re: APRS 7.7d

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 22 Oct 1996 19:01:39 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961022190034.26631C-100000@arctic>
Rendered body type: text/plain

On Tue, 22 Oct 1996, Thomas Burkhart wrote:

> I jumped the gun. The problem is that APRS77d does not save the unproto
> when you leave the program. At least that is what is happening to me.

APRSdos REPLY/COMMENT: It never did, unless you do an alt-s-save

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

486. Re: [APRSSIG:5736] Re: APRS77d replaces 77c!

From: Don Murray AE4BR <james-m@ix.netcom.com>
Date: Tue, 22 Oct 1996 19:47:51 -0400
To: aprssig@tapr.org
Message-ID: <326D5D27.5D0B@ix.netcom.com>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Mon, 21 Oct 1996, Richard Amirault wrote:
>
> > I would really like it if there was some way to show ALL of the icons,
> > but NO CALL's except for WX stns?
>
> APRSdos REPLY/COMMENT: OK, ill make it so that if you turn OFF calls,
> that the WX stations will remain IF the special display formats are
> selected...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Bob, while you are taking request...grin...

Would it be very difficult to incorporate someway that we can reset the
rainfall amounts displayed by APRS. I have had the power go out at my
place a couple of times and each time that aprs has come back up, it has
not displayed the correct rainfall amounts for the last 24hr period, and
in some cases the last hour.. Evidently APRS keeps track of this info
instead of allowing the Wx stat to do it.. I am using a Ultimeter 2000,
and it keeps track of this info..

Thanks for even considering this..

Don

---

487. Re: [APRSSIG:5745] Re: APRS77d replaces 77c!

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Tue, 22 Oct 1996 20:05:13 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961023000513.0068b47c@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 12:34 PM 10/22/96 -0500, you wrote:
>john w dent wrote:
>>
>> i got 7.7d and it works just great and i got it from tapr wester day
>> john wa4mej
>>
>> >I'm sorry Bob but I don't see any of these files on Tapr.
>> >I checked twice at 5:45 CD and again at 6:15 Cd
>
>Yes I got it now, but it wasn't there the two times I logged on. And as Bob
>posted later he didn't upload it when he tought he did. I maybe getting old,
>but not that old that when i looked twice and still didn't see it I was sure
>No matter what anybody says Hi. John i'm sure you got it later in the day.
>--
>                    \////
>                    (0 0)
>               *--o0-(_)-0o--*
>               wa8inz@amsat.org
>               wa8inz@cris.com
>    Check out my dedicated A.P.R.S Web Page.
>      THANKS TO THE 38 MENTOR VOLUNTEERS
>
>       http://www.concentric.net/~wa8inz
>
>You are necessarily paranoid just because you think everyone is out to get you.
 Maybe they are.
73 cu Ron"KD4AMS"
```

488. Re: [APRSSIG:5753] Re: newbie help

From: Paul Christenson <paul@tech.cyclades.com>
Date: Tue, 22 Oct 1996 17:25:50 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961022171317.17576F-100000@tech.cyclades.com>
Rendered body type: text/plain

```
On Tue, 22 Oct 1996, Mark D. Fellhauer wrote:

> Buy a Kantronics KPC-3.  Don't buy any other TNC as a beginner.

Why such a glowing endorsement for the KPC3?  Given their non-expandable
nature, I'd hesitate to recommend it to anyone, as there are several other
TNCs at the same price that CAN be expanded.  I'd also think twice about
buying ANY TNC that used a nonstandard default command set, regardless of
the reason.

Of course, to paraphrase P.T. Barnum, you can always find a buyer for it
after you've outgrown it.

I've been running an MFJ-1270 (no suffix) for many years now.  I can still
drop the latest ROMs in it, and have the same features as the ones still
in the box.

         +----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | High Performance Multiport Serial Cards & Routers  |
         | Unsolicited mail ads subject to a $25 handling fee |
         +----------------------------------------------------+
```

489. Re: [APRSSIG:5753] Re: newbie help

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Tue, 22 Oct 1996 20:28:18 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961023012818.006beb58@tbcnet.com>
Rendered body type: text/plain

```
At 15:18 10/22/96 -0500, you wrote:
(snip)

>
>Buy a Kantronics KPC-3.  Don't buy any other TNC as a beginner.  If you like
>APRS/Packet you can always buy another TNC later if you want more features.
>And I bet you will still use the KPC-3 even after purchasing another TNC.  I
>have FIVE TNC's (including a 9600 bps Paccomm Spirit-2) and use the KPC-3
>most consistantly.


And, my I suggest, the FIRST thing after you get it will be to change the
command called INtface from the out-of-the-box setting of NEWUSER to
```

TERMINAL. Otherwise it won't work with APRS.

jbl

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

---

490. Re: [APRSSIG:5731] Re: Central Georgia Digi

From: Dale Seaburg <dseaburg@web-access.net>
Date: Tue, 22 Oct 1996 20:41:34 -0500
To: aprssig@tapr.org
Message-ID: <326D77CE.657E@web-access.net>
Rendered body type: text/plain

Dale Heatherington wrote:
>
> On Mon, 21 Oct 1996 18:05:04 -0500 (CDT) you wrote:
>
> >At the time, no 50 Ohm
> >hardline was available within our budject ($ -0.00), so we opted for
> >using the 75 Ohm CATV hardline. I purchased the Z-D Manuf. transformers
> >that claimed to make the 75 Ohm Cable behave and look like 50 Ohm cable
> >to the radio. After it was installed, the SWR at the rig was over 3:1.
>
> I've personally used 75 ohm catv hardline with no transformers
> in both VHF and UHF 50 ohm systems with no problems. This
> was some 15 years ago so I don't remember the exact swr readings
> but they were not any where near 3:1 and the performance was
> very good.
>
> Your 3:1 SWR and poor performance indicates a short or open at the antenna
> end of the feed line. Even 3:1 is only 25% power reflected back and most of
> it is reflected *again* at the transmitter (minus 2x line loss) and goes
> back to the antenna. Very little performance will be lost.
> Perhaps there's a kink or dent in the line or a bad connector.
>
> Anyway, replacing it with known good 50 ohm line will probably fix
> it. I just wanted to defend the use of good catv hardline.
>
> My $ .02
>
> --
> Dale Heatherington, WA4DSY
> e-mail - wa4dsy@wa4dsy.radio.org
> e-mail - daheath@ibm.net (in case the first one doesn't work)
> Web page - http://www.wa4dsy.radio.org
> This message brought to you by OS/2 Warp v4

I personally use 345' of 3/4" CATV jacketed and flooded aluminum
hardline with ZD matching transformers on 2m for my packet BBS. It's
SWR is less than 1.5:1. The added advantage to the 1/4 wave matching
transformers on 2m, is that they become 3/4 wave matching transformers
(with broader bandwidth) at 70cm! Don't have to buy the 70cm matching
transformers... And the hardline was dirt-cheap! Thought I'd clear the
air on 75ohm hardline and ZD's matching transformers as to whether they
really work or not. They Work! Regardless of length of the coax.

I agree with Dale, the line may have had a kink or RF upset somewhere.
Or, perhaps the transformers may have been bad. Made by a human, so it
is possible, I suppose. My luck with them has been positive.

Dale. KG5LT
dseaburg@web-access.net

---

491. 7.7D Bug

From: scott miller <scottm@telis.org>
Date: Tue, 22 Oct 1996 20:05:41 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <326D8B84.2DFC@telis.org>
Rendered body type: text/plain

I have not been able to save a digi path with 7.7D.
has anyone else had this kind of problem?
I throu out my cfig75b or whatever befor I opened the latested version
7.7D.
73 and thanks Scott KE6RKE in Tahoe City,Ca.

492. 7.7D Bug

From: scott miller <scottm@telis.org>
Date: Tue, 22 Oct 1996 20:09:59 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <326D8C86.653B@telis.org>
Rendered body type: text/plain

```
oh yea I forgot to say,it will show saved digi path on list
but when I change to that newly saved digipath
it says no digipath saved under that name use Opps Digi Save to save
ect. Scott KE6rke
```

---

493. Re: [APRSSIG:5756] Re: APRS77d replaces 77c!

From: William Nolle <wa8inz@concentric.net>
Date: Tue, 22 Oct 1996 20:21:14 -0700
To: aprssig@tapr.org
Message-ID: <326D8F2A.4C29@concentric.net>
Rendered body type: text/plain

```
Ronald Oblinger wrote:
>
> At 12:34 PM 10/22/96 -0500, you wrote:
> >
> >You are necessarily paranoid just because you think everyone is out to get you.
>  Maybe they are.
> 73 cu Ron"KD4AMS"

Maybe so Ron. You must be right (Of course you are).

--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

494. Re: [APRSSIG:5757] Re: newbie help

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 22 Oct 1996 22:58:01 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961022225805.2da79278@mailhost.primenet.com>
Rendered body type: text/plain

```
At 07:27 PM 10/22/96 -0500, Paul Christenson wrote:
>On Tue, 22 Oct 1996, Mark D. Fellhauer wrote:
>
>> Buy a Kantronics KPC-3.  Don't buy any other TNC as a beginner.
>
>Why such a glowing endorsement for the KPC3?  Given their non-expandable
>nature, I'd hesitate to recommend it to anyone, as there are several other
>TNCs at the same price that CAN be expanded.  I'd also think twice about
>buying ANY TNC that used a nonstandard default command set, regardless of
>the reason.

You give exactly the reason why I recommend the KPC-3 to the beginner.  It's
a straight-forward, no frills, TNC.  As the packet coordinator for an
amateur radio club, I field a lot of phone calls from people who've just
bought their first TNC, usually one of those $500 jobs, and they can't get
it to work.

The KPC-3 is small, can be run on a wide variety of voltages, and draws
little power.  Dirty power supplies don't phase it.  I have two other TNC's,
one an AEA, and the other a PacComm, that crap out unless they're hooked to
a very clean, stable power supply.  This makes them USELESS for mobile work.
The AEA will lock in transmit if the voltage drops too much!

The KPC-3 is great for portable packet.  It interfaces with GPS units
easily.  It has on-line help functions.  Yes, it has a non-standard command
set, but so what?  That's what manuals are for.  You can add stuff:  more
memory, a real-time clock, and upgrading the ROM is a snap.

The KPC-3 is inexpensive.  How many times have I seen hams and non-hams buy
a $500 toy, only to lose interest in it 3 months later?  In this case, the
KPC-3 will leave your wallet a lot thicker when leaving the Ham radio store.
```

```
>
>Of course, to paraphrase P.T. Barnum, you can always find a buyer for it
>after you've outgrown it.

Who can live with just one TNC?  How are you gonna monitor DX-cluster and
tranfer a binary via pactor at the same time on your one do-it-all-in-one
box?  Are you gonna dedicate a $500 TNC for mobile APRS use in your car?
And once you put that TNC in your car, what are you going to use at home?
Remember, this person asked for a TNC that works well with APRS!  Again,
I've expanded past the KPC-3, but that doesn't mean it sits in my closet
collecting dust.
>
>I've been running an MFJ-1270 (no suffix) for many years now.  I can still
>drop the latest ROMs in it, and have the same features as the ones still
>in the box.
>
  There is nothing wrong with the MFJ 1270.  It's another good, inexpensive
TNC, or at least I've heard that.  I've never used one, but several people
who have, steered me towards the KPC-3, stating that I'd be happier with it
in the long run.

73,

Mark
KC7BXS
```

---

495. Re: new AZ wide

```
From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 22 Oct 1996 23:11:53 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961022231156.2da7d282@mailhost.primenet.com>
Rendered body type: text/plain
```

```
At 01:33 PM 10/22/96 -0500, Chris Terwilliger wrote:

>The Motorola Amateur Radio Club of Arizona is proud to announce the
>operational status of a new APRS WIDE-RELAY digipeater in the Phoenix
>Metro Area.  The frequency is 145.79Mhz and is located in Tempe.  This
>site will serve the entire east valley and most of Phoenix.  Actually,
>W8FWF in Sun City West is solid copy into it, so coverage may be greater
>than anticipated.
>

Great to hear it.  Now if we can just find a site in the West Valley.

As for George, W8FWF, of course he can hear it with that tower of his!  I
can always copy him, but he can never hear me from 47th Ave and Northern.
Granted, my external antenna only has a southern exposure.  The surrounding
chicken wire mesh (under the stucco) and steel studs in our condo complex
make a pretty good Faraday Cage!  If I crank up the 50 watt radio to hit
him, it sure disturbs my neighbors.  Nothing like wiping out everyone's
cable TV in a 100 foot radius!  I've considered asking the homeowner's board
for permission to put an antenna on the roof, but they might say yes.  And
then I'd really be in a bind...and about $300 poorer.

BTW, monitored 145.79 for about an hour tonight and heard nothing.



>CALL = KC7KJK
>ALIAS = WIDE
>NODE = RELAY
>BT = !3321.33N/11154.33W#PHG9210/WIDE-RELAY
>
>Enjoy,
>

I will.  Where is the digi located?  Height?

73,

Mark
KC7BXS
```

---

496. Re: [APRSSIG:5761] 7.7D Bug

```
From: William Nolle <wa8inz@concentric.net>
Date: Wed, 23 Oct 1996 03:04:15 -0700
```

To: aprssig@tapr.org
Message-ID: <326DED9F.3F3@concentric.net>
Rendered body type: text/plain

scott miller wrote:
>
> oh yea I forgot to say,it will show saved digi path on list
> but when I change to that newly saved digipath
> it says no digipath saved under that name use Opps Digi Save to save
> ect. Scott KE6rke

Yes your right Scott, that's a big bug!. Not only will it not save the
path but here is what i get. When entering a digi path and then doing the
ALT-S for saving it it still doesn't work. The strange part is that when
entering a digi path, the path it will show is a coordinance of
75049,86.67401,16
And it will show this everytime as a path. I even got out of APRS then
reloaded it and no path was saved.

```
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

---

497. Re: [APRSSIG:5763] Re: newbie help

From: Miami Network <0004818186@mcimail.com>
Date: Wed, 23 Oct 96 04:00 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <62961023090026/0004818186NA2EM@MCIMAIL.COM>
Rendered body type: text/plain

Would recommend to the individual that wanted to experiment with APRS and had
not received his license "first" let us know what part of the world he/she is in
and perhaps a local Amateur Radio Operator will invite you over to their station
to see APRS working first before you purchase any equipment.

73, Seymour, KC4NMY

---

498. Re: [APRSSIG:5752] OPS-DIGI in 77D

From: ad4bl@juno.com (Linda G Mullen)
Date: Wed, 23 Oct 1996 07:43:49 CDT
To: aprssig@tapr.org
Message-ID: <19961023.064537.3414.1.ad4bl@juno.com>
Rendered body type: text/plain

To Bill and others having problems with the Opps-Digi command...

I just loaded the 77to77D upgrade. Since I have a registered copy,
I also have a config file...the O-D paths store in the Config file.
I saved the config file from 7.7 [I keep it on disk so I can play with
different versions of APRS] After I loaded the upgrade, I used
Xtgold and changed the config file name and also changed the
line in the config file from 7.7 to 7.7D. The O-D command works just
fine, however I did loose the 12th path. As long as there is a problem
with the O-D command I will make my path changes using Xtgold
instead of thru the program.

Linda Mullen AD4BL DEC East Panhandle District
Northern Florida Section
Email ad4bl@juno.com or ad4bl@beaches.net
Everything worth doing takes courage

---

499. Re: [APRSSIG:5760] 7.7D Bug

From: James Duncan <ku0g@sprynet.com>
Date: Wed, 23 Oct 1996 05:00:09 -0700
To: aprssig@tapr.org
Message-ID: <199610231200.FAA01746@m1.sprynet.com>
Rendered body type: text/plain

At 22:11 10/22/96 -0500, you wrote:
>I have not been able to save a digi path with 7.7D.
>has anyone else had this kind of problem?

```
>I throu out my cfig75b or whatever befor I opened the latested version
>7.7D.
>73 and thanks Scott KE6RKE in Tahoe City,Ca.
>
In the NEWNOTES.TXT for 7.7d, Bob states that you can continue to use your
7.5 config file but you need to add 0,0 just before the lines that contain
your digipaths (or just ahead of the *'s near the end of the file if you
don't have any saved!).

While I haven't tried to save any new paths, my old paths DO seem to work.
I suspect that there may be a problem in the save function now rather than
the config file itself.  Perhaps the SAVE function is over-writing the 0,0????

At any rate, try resurrecting your config file and doing the manual edit.
If that works then we'll know the answer...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

500. Re: [APRSSIG:5765] Re: 7.7D Bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 23 Oct 1996 09:28:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961023092655.17012D-100000@arctic>
Rendered body type: text/plain

```
On Wed, 23 Oct 1996, William Nolle wrote:
> scott miller wrote:
> >
> > oh yea I forgot to say,it will show saved digi path on list
> > but when I change to that newly saved digipath
> > it says no digipath saved under that name use Opps Digi Save to save
>
> Yes your right Scott, that's a big bug!. Not only will it not save the

APRSdos REPLY/COMMENT:  I say again:  Only the FIRST entry cannot be used.
ALl other entries can be used and saved.  So ust put a XX dummy entry in
first.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

501. Re: [APRSSIG:5763] Re: newbie help

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 23 Oct 1996 09:58:09 -0400
To: aprssig@tapr.org
Message-ID: <326E2471.5079@global2000.net>
Rendered body type: text/plain

```
Mark Fellhauer wrote:
>
> At 07:27 PM 10/22/96 -0500, Paul Christenson wrote:
> >On Tue, 22 Oct 1996, Mark D. Fellhauer wrote:
> >
> >> Buy a Kantronics KPC-3.  Don't buy any other TNC as a beginner.
> >
> >Why such a glowing endorsement for the KPC3?  Given their non-expandable
> >nature, I'd hesitate to recommend it to anyone, as there are several other
> >TNCs at the same price that CAN be expanded.  I'd also think twice about
> >buying ANY TNC that used a nonstandard default command set, regardless of
> >the reason.
>
> You give exactly the reason why I recommend the KPC-3 to the beginner.  It's
> a straight-forward, no frills, TNC.  As the packet coordinator for an
> amateur radio club, I field a lot of phone calls from people who've just
> bought their first TNC, usually one of those $500 jobs, and they can't get
> it to work.
>
> The KPC-3 is small, can be run on a wide variety of voltages, and draws
> little power.  Dirty power supplies don't phase it.  I have two other TNC's,
> one an AEA, and the other a PacComm, that crap out unless they're hooked to
> a very clean, stable power supply.  This makes them USELESS for mobile work.
> The AEA will lock in transmit if the voltage drops too much!
>
> The KPC-3 is great for portable packet.  It interfaces with GPS units
> easily.  It has on-line help functions.  Yes, it has a non-standard command
> set, but so what?  That's what manuals are for.  You can add stuff:  more
> memory, a real-time clock, and upgrading the ROM is a snap.
>
> The KPC-3 is inexpensive.  How many times have I seen hams and non-hams buy
> a $500 toy, only to lose interest in it 3 months later?  In this case, the
> KPC-3 will leave your wallet a lot thicker when leaving the Ham radio store.
>
> >
> >Of course, to paraphrase P.T. Barnum, you can always find a buyer for it
> >after you've outgrown it.
>
> Who can live with just one TNC?  How are you gonna monitor DX-cluster and
> tranfer a binary via pactor at the same time on your one do-it-all-in-one
> box?  Are you gonna dedicate a $500 TNC for mobile APRS use in your car?
> And once you put that TNC in your car, what are you going to use at home?
> Remember, this person asked for a TNC that works well with APRS!  Again,
> I've expanded past the KPC-3, but that doesn't mean it sits in my closet
> collecting dust.
> >
> >I've been running an MFJ-1270 (no suffix) for many years now.  I can still
> >drop the latest ROMs in it, and have the same features as the ones still
> >in the box.
> >
>   There is nothing wrong with the MFJ 1270.  It's another good, inexpensive
> TNC, or at least I've heard that.  I've never used one, but several people
> who have, steered me towards the KPC-3, stating that I'd be happier with it
> in the long run.
>
> 73,
>
> Mark
> KC7BXS


Ever Heard of the Paccomm Tiny-II?

John
```

502. Re: [APRSSIG:5767] Re: OPS-DIGI in 77D

From: William Nolle <wa8inz@concentric.net>
Date: Wed, 23 Oct 1996 09:26:05 -0700
To: aprssig@tapr.org
Message-ID: <326E471D.2175@concentric.net>
Rendered body type: text/plain

```
Linda G Mullen wrote:
>
> To Bill and others having problems with the Opps-Digi command...
>
> I just loaded the 77to77D upgrade.  Since I have a registered copy,
> I also have a config file...the O-D paths store in the Config file.
> I saved the config file from 7.7 [I keep it on disk so I can play with
> different versions of APRS]  After I loaded the upgrade, I used
> Xtgold  and  changed the config file name and also changed the
> line in the config file from 7.7 to 7.7D.  The O-D command works just
> fine, however I did loose the 12th path.  As long as there is a problem
> with the O-D command I will make my path changes using Xtgold
> instead of thru the program.
>
> Linda Mullen  AD4BL  DEC East Panhandle District
> Northern Florida Section
> Email   ad4bl@juno.com   or ad4bl@beaches.net
> Everything worth doing takes courage

Yes Linda that's one way of doing it and thanks for the comments. I just
went back to 77c for now untill Bob get's it fixed Hi.
--
                    \////
                    (0 0)
               *--o0-(_)-0o--*
               wa8inz@amsat.org
               wa8inz@cris.com
    Check out my dedicated A.P.R.S Web Page.
      THANKS TO THE 38 MENTOR VOLUNTEERS

       http://www.concentric.net/~wa8inz
```

503. WinAPRS version 1.1.5

From: Mark Sproul <sproul@ap.org>
Date: Wed, 23 Oct 1996 11:00:02 -0400
To: aprssig@tapr.org
Message-ID: <v03007802ae93e088f6e7@[165.1.27.171]>
Rendered body type: text/plain

```
I have posted WinAPRS version 1.1.5 up on Rutgers

        http://aprs.rutgers.edu/APRS/
or
        ftp://aprs.rutgers.edu/pub/hamradio/aprs/

I will be posting it to TAPR in a little while.

There are 2 files

        WAPRS115.ZIP                          1070 Kb    Tue Oct 22
22:01:00 1996
        W115UPDT.ZIP                           229 Kb    Tue Oct 22
21:59:00 1996

The first is the full release including maps, the second is just the .exe,
the DLLs and the help file.  If you already have WinAPRS you probably  just
want the update (the 2nd one).

There are only a few changes in this release.

        A fix to a problem with parsing data from a Ultimeter weather station.

        Fixed bug in Auto Start - previously only VHF would auto start,
none of
        the other ports would auto start correctly. Also fixed conflict
between
        auto start and serial debug mode.

        Memory usage window.  This was added to try to track down some problems
        several people were having with memory leaks.  So far I have not been
        able to prove anything with it either way but if you are having
problems
        you might find it interesting. This window is NOT for general usage,
        therefore its contents may seem cryptic.

        QRZ CD-ROM has now been tested and is working properly. You need
the index
        file from our FTP site.

        HSP is still not done but its getting real close.

We should be completely caught up on registrations.  If you have sent for a
regration and have NOT received it, let us know ASAP.

Mark Sproul

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

504. Re: [APRSSIG:5768] Re: 7.7D Bug

From: Bruce Douberley <bcdpe@innova.net>
Date: Wed, 23 Oct 1996 11:12:06 -0400
To: aprssig@tapr.org
Message-ID: <v03007804ae93e451c396@[130.127.29.28]>
Rendered body type: text/plain

```
>At 22:11 10/22/96 -0500, you wrote:
>>I have not been able to save a digi path with 7.7D.
>>has anyone else had this kind of problem?
>>I throu out my cfig75b or whatever befor I opened the latested version
>>7.7D.
>>73 and thanks Scott KE6RKE in Tahoe City,Ca.
>>
>In the NEWNOTES.TXT for 7.7d, Bob states that you can continue to use your
>7.5 config file but you need to add 0,0 just before the lines that contain
>your digipaths (or just ahead of the *'s near the end of the file if you
>don't have any saved!).
```

Greetings,
I have been monitoring the SIG for sometime and this is the first my first response.
I AM registered and I have read OPS.txt etc.
7.7d seems to work fine and will save (sometimes) the Digipaths "ww, rw, no" also can manual edit. But I found out by pressing just the "u" the original "ou" response is displayed. I filled in the info and returned to the map screen. Then did alt "s" and saved my config. I left program and returned and the proper digipath was there. I did have the error messages "can't save etc. appear when I tried to follow the new procedure again so I don't know what I did. I will be monitoring for help also.
Thanks

Bruce Douberley
Clemson University
School of Textiles Fiber, and Polymer Science
161 Sirrine Hall
Clemson, SC 29634-1307
Phone: (864) 656-5972
Fax: (864) 656-5973
Email :
bcdpe@clemson.edu
bcdpe@innova.net

---

505. Re: [APRSSIG:5770] Re: newbie help

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Wed, 23 Oct 1996 10:49:07 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961023154907.006b0af0@tbcnet.com>
Rendered body type: text/plain

How about a LIST of recommended TNC's (and their settings) and firmware versions for APRS?

jbl

At 09:01 10/23/96 -0500, you wrote:
>Mark Fellhauer wrote:

>> >
>> >> Buy a Kantronics KPC-3. Don't buy any other TNC as a beginner.
>> >

>> >I've been running an MFJ-1270 (no suffix) for many years now.

>Ever Heard of the Paccomm Tiny-II?

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

---

506. Re: [APRSSIG:5764] Re: new AZ wide

From: joefoor@digitalexp.com (Foor, Joe)
Date: Wed, 23 Oct 1996 11:58:53 -0500
To: aprssig@tapr.org
Message-ID: <19961023165851887.AAA155@dial-07.marianna.fl.digitalexp.com>
Rendered body type: text/plain

In a message dated Wed, 23 Oct 1996 01:13:28, Mark wrote;

>If I crank up the 50 watt radio to hit
>him, it sure disturbs my neighbors. Nothing like wiping out everyone's
>cable TV in a 100 foot radius!

A 100 ft radius??? You better check that radio with a spectrum analyzer, before using it again. I can rotate my beam around and point it directly at my TV antenna, hitting it with 200W ERP (at about thirty feet distant) and still not get any interference at all.

regards,
Joe kf4dys

---

507. Re: [APRSSIG:5770] Re: newbie help

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Wed, 23 Oct 1996 10:01:14 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961023100117.1f17a6e2@mailhost.primenet.com>
Rendered body type: text/plain

At 09:01 AM 10/23/96 -0500, John M Domblewski wrote:

>Ever Heard of the Paccomm Tiny-II?

Yes, I have.

Remember, another person asked for suggestions. Most of the responses I've seen have been made to me, and not any helpful hints to a new user of APRS (which is what started this). Perhaps you might like to offer an opinion as to why the PacComm would be a better choice than a KPC-3.

PacComm TNC's are not as common as the KPC-3, and it might be harder to find a local elmer who knows much about them. They are not carried by any Ham Radio Stores that I've been to. No local purchase access is a downside, IMHO.

One feature I forgot to mention is that the KPC-3 has a remote sysop function which allows one to alter the TNC's settings by radio. This is a very helpful feature when using and setting up APRS, especially in mobile trackers. PacComm does not offer this.

To recap, the KPC-3 offers many postive traits to any user of APRS.

-Low cost
-Good local availability
-Many in use
-Accepts a wide variation in input voltage
-Immune to line noise and power fluctuations
-Very Low power consumption, can run for hours on a 9 volt battery
-Easy to set up for use with a GPS unit
-Interfaces with a GPS unit unbuffered
-parses time into its internal clock via GPS
-Remote sysop
-small physical size
-low weight
-On-line help
-reliable
-easy to wire up to transceiver
-no deviation settings to mess with, it just works

All of these features make it a very good choice for APRS.

73,

Mark Fellhauer
KC7BXS

508. Re: [APRSSIG:5774] Re: newbie help

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 23 Oct 1996 13:09:16 -0400
To: aprssig@tapr.org
Message-ID: <326E513C.3BC3@global2000.net>
Rendered body type: text/plain

John B. Leonard, Jr wrote:
>
> How about a LIST of recommended TNC's (and their settings) and firmware
> versions for APRS?
>
> jbl
>
> At 09:01 10/23/96 -0500, you wrote:
> >Mark Fellhauer wrote:
>
> >> >
> >> >> Buy a Kantronics KPC-3. Don't buy any other TNC as a beginner.
> >> >
>
> >> >I've been running an MFJ-1270 (no suffix) for many years now.
>
> >Ever Heard of the Paccomm Tiny-II?
> --
> J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com

> WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
> American Red Cross Disaster Services - DeKalb Co Chapter

probably because that would make perfect sence!:-)

John

509. Re: [APRSSIG:5772] WinAPRS version 1.1.5

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 23 Oct 1996 13:18:09 -0700
To: aprssig@tapr.org
Message-ID: <326E7D81.1DEA@cris.com>
Rendered body type: text/plain

Mark Sproul wrote:
>
> I have posted WinAPRS version 1.1.5 up on Rutgers

> ftp://aprs.rutgers.edu/pub/hamradio/aprs/

Mark,

I went to download the files and they were both empty.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

510. Re: [APRSSIG:5778] Re: WinAPRS version 1.1.5

From: schiers@ames.net
Date: Wed, 23 Oct 96 12:54:12 -0500
To: aprssig@tapr.org
Message-ID: <199610231801.NAA00812@tapr.org>
Rendered body type: text/plain

In <849051@bbs.ames.net>, on 10/23/96 at 12:24 PM,
aprssig@tapr.org said:

>I went to download the files and they were both empty.

I tried to ftp the smaller of the two and it timed out my ftp connection
after about 70k.

The files are on the tapr web site...got both files (update and full ver)
in a matter of a few minutes.

My experience with the rutgers ftp site has never been good, although I
always try it at least once. TAPR site works much better for me.

Hope to have it on after work later today. 73,

URL for the files:
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS

You can ftp to the same site/directory structure by just ftp'ing tapr.org
and changing to the proper directories. Directory names can be CASE
SENSITIVE.

Update Only: w115updt.zip
Full Version: waprs115.zip

hasan schiers, N0AN--
----
schiers@ames.net
----

511. Re: [APRSSIG:5776] Re: newbie help

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 23 Oct 1996 14:10:02 -0400
To: aprssig@tapr.org
Message-ID: <326E5F7A.30F9@global2000.net>
Rendered body type: text/plain

```
Mark D. Fellhauer wrote:
>
> At 09:01 AM 10/23/96 -0500, John M Domblewski wrote:
>
> >Ever Heard of the Paccomm Tiny-II?
>
> Yes, I have.
>
> Remember, another person asked for suggestions.  Most of the responses I've
> seen have been made to me, and not any helpful hints to a new user of APRS
> (which is what started this).  Perhaps you might like to offer an opinion as
> to why the PacComm would be a better choice than a KPC-3.
>
> PacComm TNC's are not as common as the KPC-3, and it might be harder to find
> a local elmer who knows much about them.  They are not carried by any Ham
> Radio Stores that I've been to.  No local purchase access is a downside, IMHO.
>
> One feature I forgot to mention is that the KPC-3 has a remote sysop
> function which allows one to alter the TNC's settings by radio.  This is a
> very helpful feature when using and setting up APRS, especially in mobile
> trackers.  PacComm does not offer this.
>
> To recap, the KPC-3 offers many postive traits to any user of APRS.
>
> -Low cost
> -Good local availability
> -Many in use
> -Accepts a wide variation in input voltage
> -Immune to line noise and power fluctuations
> -Very Low power consumption, can run for hours on a 9 volt battery
> -Easy to set up for use with a GPS unit
> -Interfaces with a GPS unit unbuffered
> -parses time into its internal clock via GPS
> -Remote sysop
> -small physical size
> -low weight
> -On-line help
> -reliable
> -easy to wire up to transceiver
> -no deviation settings to mess with, it just works
>
> All of these features make it a very good choice for APRS.
>
> 73,
>
> Mark Fellhauer
> KC7BXS


Hi Mark

Perhaps I should appolagize for sending a one liner as they always seem
to generate a negative response. In my opinion one should duplicate
their elmers setup to reduce the learning curve. Also I was just
offering an altenative to the KPC-3 as the conversation was seemingly
focused on standard command sets. The Tiny-II meets the criteria being
discussed and has the standard command set. Also if you have a local ham
dealer you are probably in the minority as most of us pick up the phone
to get anything new in ham gear. Again my intention was NOT to throw you
off or piss you off! Hind sight being 20-20 I can see how my one liner
could be perceived as a "speer" which was not my intention.

73

John
```

---

512. Re: [APRSSIG:5774] Re: newbie help

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Wed, 23 Oct 1996 13:13:06 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <m0vG7ng-00007lC@ernest.itg.ti.com>
Rendered body type: text/plain

I use an AEA PK-12 both at the QTH and GPS-mobile. I don't recall the
firware rev, but it does have GPS capability. It does support some
remote programming.

> How about a LIST of recommended TNC's (and their settings) and firmware
> versions for APRS?
>
> jbl
>

--
```
Alan Edmonds, KB5ZUY                         Texas Instruments, Inc.
System Administrator, Composer Development   M/S 8515
Phone: +1-972-575-6427                       6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                   Plano, TX, USA  75023
```

513. Re: [APRSSIG:5775] Re: new AZ wide

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Wed, 23 Oct 1996 11:31:51 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961023113154.24371428@mailhost.primenet.com>
Rendered body type: text/plain

At 12:03 PM 10/23/96 -0500, Foor, Joe wrote:

>In a message dated Wed, 23 Oct 1996 01:13:28, Mark wrote;
>
>>If I crank up the 50 watt radio to hit
>>him, it sure disturbs my neighbors. Nothing like wiping out everyone's
>>cable TV in a 100 foot radius!
>
>A 100 ft radius??? You better check that radio with a spectrum analyzer,
>before using it again. I can rotate my beam around and point it directly
>at my TV antenna, hitting it with 200W ERP (at about thirty feet
>distant) and still not get any interference at all.
>
>regards,
>Joe kf4dys
>

Well, all my radios do it to CABLE TV, including the radio I mentioned,
which is an FT-8500.
Remember, some cable TV channels are transmitted in the 2 meter band range.
My 5 watt HT will wipe out the cable in the lower channel ranges (around
channel 18 especially). It's been scoped a few times and is well within spec.

I find it hard to believe that your radio won't phase a TV at 30 feet. Most
of my RF transmission devices will cause at least some interference.
Clunks, wavy screens, etc. My gold-stickered RC transmitter does some
really goofy things to my computer monitors. You can actually see the RF
pulses. (G)

514. Re: [APRSSIG:5753] Re: newbie help

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 23 Oct 1996 13:34:53 -0500 (CDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961023133108.8520A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Here's another 2 cents. KPC-3 TNC, crystal controlled radios. I have
three KPC-3's all dedicated to APRS, one of which is a digi. I also use
have three crystal controlled radios. You can pick those up at a hamfest.
Forget the scanner, just don't hook up the trasmit side of the tnc until
you get your ticket.

On Tue, 22 Oct 1996, Mark D. Fellhauer wrote:

> At 12:19 PM 10/22/96 -0500, Gumby wrote:
> >I have been following the list for awhile now, I finally got a
> >computer and I really want to get started with APRS. I do not have a
> >ham license yet, but I want to see whats going on in my area (22mi.NE of
> >Seattle WA.). can someone reccomend an inexpensive receiver/scanner
> >and maybe do a little bit of elmering?
> >
>
> Buy a Kantronics KPC-3. Don't buy any other TNC as a beginner. If you like

```
> APRS/Packet you can always buy another TNC later if you want more features.
> And I bet you will still use the KPC-3 even after purchasing another TNC.  I
> have FIVE TNC's (including a 9600 bps Paccomm Spirit-2) and use the KPC-3
> most consistantly.
>
> Any scanner, even a 25 dollar used one, should work well for monitoring
> APRS.  Or, any 2-meter HT, used or new is also appropriate.  Standard has a
> new 2 meter HT with alphanumeric display for under $200.  ADI also makes an
> inexpensive 2-meter HT.  I have found older non-pl, non-DTMF, 2-meter
> transceivers for under $50.  Some are crystal controlled, and those may be
> difficult to put on 145.79 MHz.  I recommend buying a new HT.  I looked for
> two years at hamfests for someone asking a "reasonable" price for a used HT
> and never NEVER found one.  I still can't understand why MOST hams think
> that their 10 year old non-PL, Non-DTMF, with a dead battery, HT is worth $175!
>
> That's my 2 cents
>
```

---

515. Re: [APRSSIG:5778] Re: WinAPRS version 1.1.5

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Wed, 23 Oct 1996 14:06:26 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961023190626.006ab128@tbcnet.com>
Rendered body type: text/plain

```
Try the TAPR ftp.  It was put up there this am.  That version works fine.

jbl

At 12:23 10/23/96 -0500, you wrote:
>Mark Sproul wrote:
>>
>> I have posted WinAPRS version 1.1.5 up on Rutgers
>
>> ftp://aprs.rutgers.edu/pub/hamradio/aprs/
>
>Mark,
>
>I went to download the files and they were both empty.
>
>73 De Joe N2OOC (new address & phone effective 8/15)
>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
>            Agrelo Engineering
>           Joe Agrelo/President
>    P.O.Box 231 Pattersonville, NY 12137 USA
>              ph (518)864-7551 effective 8/15
>             fax (518)864-7553  "       "
>        mailto:Jagrelo@cris.com
>  WEB: http://home.navisoft.com/agrelo/ae.htm
>Designer & Manufacturer of intelligent microprocessor
>     based Doppler, talking products and RF.
>   Experts in Microchip & Motorola processors
>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
>
------------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

---

516. Re: WinAPRS version 1.1.5

From: Mark Sproul <sproul@ap.org>
Date: Wed, 23 Oct 1996 15:24:55 -0400
To: aprssig@tapr.org
Message-ID: <v03007804ae9420d511bc@[165.1.27.171]>
Rendered body type: text/plain

```
>
>I went to download the files and they were both empty.
>


I have checked it with an FTP client and with Netscape and both work.  If
you are having problems, they are up on TAPR as well


Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
```

Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

---

517. Thanks!

From: Gumby <rgeer@physio-control.com>
Date: Wed, 23 Oct 96 13:43:26 PDT
To: aprssig@tapr.org
Message-ID: <9610232043.AA23655@physio-control.com>
Rendered body type: text/plain

I just wanted to Thank all of you for your input, keep it comming!

Thanks again!
Robert (gumby)

---

518. Re: new AZ wide

From: aprs@juno.com (ap rs)
Date: Wed, 23 Oct 1996 16:36:59 EDT
To: aprssig@tapr.org
Message-ID: <19961023.143303.8774.7.aprs@juno.com>
Rendered body type: text/plain

That is feasible. Remember that CATV uses part of our 2 meter, 220, and 440 spectrum. If there is a cable leak, 2 meters WILL wipe out channel 18 at least. An old CATV axiom: "Where there is egress there is also ingress".

Actually, it may wipe out channel 18 without a leak, if he's close enough. The problem is that of the CATV company, and the owners of the poorly shielded TV, but try telling that to an irate neighbor.

He said CABLE TV. You said you have an antenna. You are not watching CATV 18 if you have an antenna, I believe.

Ralph
rwf@mindspring.com

On Wed, 23 Oct 1996 12:03:36 -0500 (CDT) joefoor@digitalexp.com (Foor, Joe) writes:
>A 100 ft radius??? You better check that radio with a spectrum
>analyzer,
>before using it again. I can rotate my beam around and point it
>directly
>at my TV antenna, hitting it with 200W ERP (at about thirty feet
>distant) and still not get any interference at all.
>

---

519. 75 Ohm CATV Hardline

From: kr4ol@juno.com
Date: Wed, 23 Oct 1996 15:52:58 PST
To: aprssig@tapr.org
Message-ID: <19961023.155306.32487.0.KR4OL@juno.com>
Rendered body type: text/plain

Good Grief! I'm real sorry guys! I did not intend to start a debate on the merits of 75 Ohm CATV Hardline with my previous message regarding our experience with it. I am a strong proponant of using surplus material for HAM purposes. Most of the equipment I use for packet and APRS is surplus gear. I can assure you, I looked into it very carefully before putting up the CATV hardline and was sure we could use it with little trouble. I also think the fine folks at ZD Manufacturing do a super job. Their literature and service speak volumes of the personal care they put into their product. If another HAM were asking about using CATV hardline for a similar application, I would, of course, reccomend 50 Ohm Hardline over the CATV Hardline, but if the situation is similar to the one we faced when trying to get our system on the air, I would reccomend using the CATV Hardline without reservation.

My purpose in addressing this in the first place was in response to another sysop's reccomendation that we leave our CATV hardline in place. If I had been able to track down the problem in this hardline, I

might be persuaded to leave it in place. Let me assure you, we have
searched very carefully for the culprit and have found none. No "kinks",
connections are sound, jumper cable at the antenna is good. Perhaps it
could be a "bad" transformer. I agree, it could happen. At any rate, I
have recently had donated enough 7/8" 50 Ohm hardline to replace the
CATV hardline. Now, what would you do?

I appreciate all the responses regarding our efforts on getting
KR4OL-2 on the air! I first started using APRS in February of 1994 (I
think it was ver 7.3a). The group in Georgia has grown coniderably
since then! It isvery nice to boot up and see so many stations on the
map! Thanks for hearing me out, and I hope I have not offended.

73! de Tom, KR4OL @
KR4OL.#MCN.GA.USA.NA

or, KR4OL
@Juno.com

---

520. makemaplist and new maps

From: Jim Warakois <koisj@ziplink.net>
Date: Wed, 23 Oct 1996 19:38:35 -0700
To: aprssig@tapr.org
Message-ID: <326ED6AB.33B9@zipnet.net>
Rendered body type: text/plain

Hi, All

I have a question for mapmakers.

I have recently created a bunch (50 or so) new maps using mk100k3.exe
which should help organize my Boston map series...

I now want to make a maplist using mkmaplist.exe/bas.
I run the make maplist program (I use it renamed for brevity)
and I get the directory file but it wont create the psudo maplist.## file

My question: is there a change in the maps that doesn't allow the list to
be made or am I missing something??

Jim/ W1KRU

warakois@world.std.com

---

521. Re: [APRSSIG:5782] Re: new AZ wide

From: joefoor@digitalexp.com (Foor, Joe)
Date: Wed, 23 Oct 1996 20:02:52 -0500
To: aprssig@tapr.org
Message-ID: <19961024010251074.AAA196@dial-23.marianna.fl.digitalexp.com>
Rendered body type: text/plain

In a message dated Wed, 23 Oct 1996, Mark wrote;

>My 5 watt HT will wipe out the cable in the lower channel ranges (around
>channel 18 especially). It's been scoped a few times and is well within
spec.

Scoped? As in Oscilloscope? That won't tell you much at those
frequencies. If you are clipping your RF signal, you will be generating
odd harmonics. The "O"scope won't display the waveform distortion on a
2M frequency, unless the "O"scope is good for at least 450Mhz. Even then,
you won't see the clipping, but you will see some distortion of the
waveform. To actually see the clipping, you should be using an "O"scope
with a bandwith of at least 10 times the frequency you are looking at
(for 2M that means a bandwidth of 1,500Mhz). That's why I suggested a
spectrum analyzer.

>I find it hard to believe that your radio won't phase a TV at 30 feet. Most
>of my RF transmission devices will cause at least some interference.
>Clunks, wavy screens, etc. My gold-stickered RC transmitter does some
>really goofy things to my computer monitors. You can actually see the RF
>pulses. (G)

Fortunately, for me, your lack of faith does not affect my reality :-)

Before Hurricane season, I had all my 2M antennas stacked over my TV
antenna, with the Radios (Alinco DR-150T and DJ-582) on an end table,
near the TV and my stereo. There was never any detectable interference,
in the video or audio of either system.

```
At the beginning of Hurricane season, I stuck up another mast 30 feet
away, to reduce the wind loads on the, el cheapo, Radio Shack rotor. I
still get no detectable interference.

Since then, I have relocated my radio equipment into an extra room, on a
shelf directly above my computer, to keep it all together for APRS. I
also get no interference there.

The only time I have ever experienced any interference, from my 2M
equipment, was when I was testing a homebrew three element quad in the
kitchen. It set off the smoke detector and the cats went crazy :-)

In a message dated Wed, 23 Oct 1996 15:58:14, Ralph wrote;

>He said CABLE TV.  You said you have an antenna.  You are not watching
>CATV 18 if you have an antenna, I believe.

You are right there, Ralph. The cable doesn't come within four miles of
my home. However, Mark said that he was causing interference which would
"wipe out the cable". This doesn't sound like a single shared frequency
problem. Considering that one single TV channel is 6Mhz wide, he would
have to be using spread spectrum to cause that much interference if
everything is working right.

Admittedly, the fault may not be in his radio. But it is the easiest
thing to check out. So, logically, it should be eliminated before
progressing to other checks.

regards,
Joe kf4dys

(I just do it all for fun now)
------------------------------------
Miniature Repair Technician(retired), Electronics Instructor(retired),
Motorcycle Instructor(retired), Ditch Digger(retired), Sailor(retired),
Technical Writer(retired), Petty Bureaucrat(retired), Gambler(retired),
Truck Driver(retired), Jungle Guide(retired), Hog Farmer(retired)
```

---

522. 77d and saving..

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 23 Oct 1996 21:55:29 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961023215236.24723A-100000@arctic>
Rendered body type: text/plain

```
OK, everyone was right, the problem with saving digipaths is more than I
thought. Some places I changed the number of paths to 11 and then back to
12.  Not all of them got changed back to 12, so there will be confusion.

Before I issue another version.  Did I properly FIX everything else in the
NEWNOTES.txt file?  SOmeone says the BText from remote WX sites is still
overwriting the WX data...  Is this true?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

523. Boat cruise down atlantic

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 23 Oct 1996 21:57:26 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961023215541.24723B-100000@arctic>
Rendered body type: text/plain

```
AA3NM just reported he traveled the intercoastal from Annapolis to
SouthCarolina.  He had a stand alone tracker, but the family lost him just
south of Patuxent river.  ANyone in Norfolk or NC or SC see him?  He needs
some feedback...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

524. WB0WNX-7

From: Dave Kaplan <dkaplan@pionet.net>
Date: Wed, 23 Oct 1996 22:18:08 -0500
To: aprssig@tapr.org
Message-ID: <9610240318.AA12908@ELWOOD.pionet.net>
Rendered body type: text/plain

WB0WNX-7 Mojave Mobile has been active the last week. Last week there was a trip from Sioux City (SUX) to Kansas City International (MCI) and back. Two days later there was a trip from SUX to Columbia, MO and back. Yesterday a trip from SUX to Kansas City Downtown (MKC) landing during a blizzard that dropped 7.5 inches of snow at the airport (IN KANSAS CITY!?). Tomorrow SUX to Chicago and back departing SUX about 0830L. I would appreciate and and all track recorded to be E-Mailed to me for future demonstration purposes. Oh yes, plan on going to Minneapolis (St. Paul Downtown airport) for the Minnesota Hamfest this weekend.

Dave
WB0WNX-7 Mojave Mobile

---

525. aprs77d

From: wtb@partyline.org
Date: Wed, 23 Oct 96 22:24:58
To: aprssig@tapr.org
Message-ID: <9610232224.0VHNZ00@partyline.org>
Rendered body type: text/plain

```
PK□YW!□□cPARTYLN.MSG□O□N□@□#□□□□□e□b9□□4
□(1□□□□□□□]□□□5□□%□□□□□7□□7□|'□□□□p□□"□□□□□□□□1□□□□□□□z□4A/□□4G□□2□□}\□□-□□□□□□C□X□B□|□~./zp□;□□□□O□;RX□
□□Ns□s□D□@□YF□%□□U>□□7□AT□□^H□U□□□+□□□□□□□,U□□0□□□6□*%□□IR1□-xI□□G□B]□□C/lc□3□□
□l□□□5□□op[□"□□□□□`/□/□~!□R-□$□eK!□□□k□;□□□9□PK□YW!□□c PARTYLN.MSGPK9@
```

---

526. Re: [APRSSIG:5791] 77d and saving..

From: James Duncan <ku0g@sprynet.com>
Date: Wed, 23 Oct 1996 20:40:46 -0700
To: aprssig@tapr.org
Message-ID: <199610240340.UAA00654@m1.sprynet.com>
Rendered body type: text/plain

```
At 20:52 10/23/96 -0500, you wrote:
  SOmeone says the BText from remote WX sites is still
>overwriting the WX data...  Is this true?
>
```

Yes, That's correct...It is still broke...
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

527. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: by mwweb.com from localhost
    (router,SLmailNT V2.0); Wed, 23 Oct 1996 23:48:29 Eastern Daylight Time
Received: by mwweb.com from kb8ast.mwweb.com
    (207.50.157.40::mail daemon; unverified,SLmailNT V2.0); Wed, 23 Oct 1996 23:48:28 Eastern Daylight
Time
Message-ID: <MAPI.Id.0016.00623861737420203030303630303036@MAPI.to.RFC822>
In-Reply-To: <1.5.4.16.19961023113154.24371428@mailhost.primenet.com>
References: Conversation <1.5.4.16.19961023113154.24371428@mailhost.primenet.com> with last message
<1.5.4.16.19961023113154.24371428@mailhost.primenet.com>
Read-Receipt-To: Bob Merchant <kb8ast@mwweb.com>
Priority: Normal
To: aprssig@tapr.org
MIME-Version: 1.0
From: "KB8AST" <kb8ast@mwweb.com>
Subject: [APRSSIG:5782] Re: new AZ wide
Date: Wed, 23 Oct 96 23:38:59 PDT
Content-Type: text/plain; charset=US-ASCII; X-MAPIextension=".TXT"
Content-Transfer-Encoding: 7bit
```

Interesting string, it started talking about the new AZ wide, and the last message I read was talking about TVI. Sounds like someone has a missing ground or leaky shield in their local cable tv network. And the new tv's usually have cheap or non existant shielding, and can be penetrated by a 5 watt cb just as easily as a gallon 2 mtr rig.

GRIDSQ --- EN91kr

May you have the pleasure of participating in a challenging existance..
73 from G. R. (Bob) Merchant in Perry Twp, Lake County, Ohio

```
        Packet     --- kb8ast.#neoh.oh.usa.na
        ampr.org  --- kb8ast@geaugasw.ampr.org
        TCP/IP   --- kb8ast.ampr.org [44.70.248.17]
                         neswch.ampr.org [44.70.248.18]
        INTERNET  --- KB8AST@www.mwweb.com
        APRS     --- TAWG  OH60
        PUBLIC ACCESS LANDLINK  ---   216-259-5612
```

---

528. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 24 Oct 1996 04:21:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;ONGA-5172-3900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:5...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

529. Re: [APRSSIG:5793] WB0WNX-7

From: James Duncan <ku0g@sprynet.com>
Date: Wed, 23 Oct 1996 21:30:17 -0700
To: aprssig@tapr.org
Message-ID: <199610240430.VAA12293@m1.sprynet.com>
Rendered body type: text/plain

```
Wish I'd have know you were coming, Dave!  Sure looking forward to a ride in
that Mojave!!!!

Be sure to EMail or call me next time!!!!
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

530. Re: [APRSSIG:5792] Boat cruise down atlantic

From: Jim Conrad <jjc@infi.net>
Date: Thu, 24 Oct 1996 01:50:58 -0400 (EDT)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19961024015031.0dffaf18@mailhost.infi.net>
Rendered body type: text/plain

```
At 09:02 PM 10/23/96 -0500, Bob Bruninga wrote:
>AA3NM just reported he traveled the intercoastal from Annapolis to
>SouthCarolina.  He had a stand alone tracker, but the family lost him just
>south of Patuxent river.  ANyone in Norfolk or NC or SC see him?  He needs
>some feedback...

Today was the first day I had a TNC and radio sitting on 145.790 here in
Norfolk and I saw only one station with APRS data and it was not AA3NM. I
was told by one of the current APRS users here in Norfolk that their is no
"wide digi" available so I suspect coverage is limited in the area currently.

..Jim - N4WFP

<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8217 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

---

531. Re: [APRSSIG:5780] Re: newbie help

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 23 Oct 1996 23:07:37 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961023230738.2fff0a5e@mailhost.primenet.com>
Rendered body type: text/plain

```
At 01:17 PM 10/23/96 -0500, John M Domblewski wrote:
>
>Hi Mark
>
```

```
>Perhaps I should appolagize for sending a one liner as they always seem
>to generate a negative response. In my opinion one should duplicate
>their elmers setup to reduce the learning curve. Also I was just
>offering an altenative to the KPC-3 as the conversation was seemingly
>focused on standard command sets. The Tiny-II meets the criteria being
>discussed and has the standard command set. Also if you have a local ham
>dealer you are probably in the minority as most of us pick up the phone
>to get anything new in ham gear. Again my intention was NOT to throw you
>off or piss you off! Hind sight being 20-20 I can see how my one liner
>could be perceived as a "speer" which was not my intention.
>
>73
>
>John
>

Not a problem.

73,

Mark
KC7BXS
```

---

532. Re: [APRSSIG:5787] Re: new AZ wide

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 23 Oct 1996 23:25:36 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961023232538.2e174e8e@mailhost.primenet.com>
Rendered body type: text/plain

```
At 03:58 PM 10/23/96 -0500, ap rs wrote:

>That is feasible.  Remember that CATV uses part of our 2 meter, 220, and
>440  spectrum. If there is a cable leak, 2 meters WILL wipe out channel
>18 at least.  An old CATV axiom:  "Where there is egress there is also
>ingress".
>

Especially, when you're dealing with Dimension Cable (Now COX).
I can watch cable on my TV not connected to the cable!
And now they're trying to sell internet access via cable modem and want to
get into the telephone market.
Great, I'll lose my phones and internet access every time it rains or the
wind blows, just like the cable TV.

They actually told me their equipment was maxed out at 50 channels which is
why we can't get any of the newer cable channels.  (g)

They also told me that the ghosting through the cable was caused by nearby
TV transmitters, but I stood and watched the cable repair woman turn the
gain down after she peaked my set.  She was in the service closet of my
condo complex replacing a splitter and the picture got very good and the MTS
stereo popped on (on channels I never get in stereo).  She then backed the
gain down, so the local channels come in ghosting.  And then she denied it!
How stupid do they think I am!  I'd go DBS if we didn't have 3 TV's hooked
to the cable.  I might get one anyway, when systems drop to under $200 (with
no rebate).

Oh well, back to APRS.

Mark
```

---

533. Re: [APRSSIG:5790] Re: new AZ wide

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 23 Oct 1996 23:30:46 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961023233049.2e17d6d0@mailhost.primenet.com>
Rendered body type: text/plain

```
At 08:09 PM 10/23/96 -0500, Foor, Joe wrote:

>Scoped? As in Oscilloscope? That won't tell you much at those
>frequencies. If you are clipping your RF signal, you will be generating
>odd harmonics. The "O"scope won't display the waveform distortion on a
>2M frequency, unless the "O"scope is good for at least 450Mhz. Even then,
>you won't see the clipping, but you will see some distortion of the
>waveform. To actually see the clipping, you should be using an "O"scope
>with a bandwith of at least 10 times the frequency you are looking at
>(for 2M that means a bandwidth of 1,500Mhz). That's why I suggested a
```

```
>spectrum analyzer.

I meant that in the generic sense.  The ARA has a spectrum analyzer that
they set up at hamfests.


>
>Admittedly, the fault may not be in his radio. But it is the easiest
>thing to check out. So, logically, it should be eliminated before
>progressing to other checks.
>

It's the cable.

Mark
```

---

534. Re: [APRSSIG:5796] Re: new AZ wide

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 23 Oct 1996 23:45:08 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961023234510.2e17e912@mailhost.primenet.com>
Rendered body type: text/plain

```
At 10:49 PM 10/23/96 -0500, KB8AST wrote:

>Interesting string, it started talking about the new AZ wide, and
>the last message I read was talking about TVI. Sounds like someone
>has a missing ground or leaky shield in their local cable tv network.
>And the new tv's usually have cheap or non existant shielding, and
>can be penetrated by a 5 watt cb just as easily as a gallon 2 mtr
>rig.

Yup.

>
>May you have the pleasure of participating in a challenging existance..
>73 from G. R. (Bob) Merchant in Perry Twp, Lake County, Ohio
>

Betcha it's getting a little cold on Lake Erie this time of year.  That's
why I moved out here 12 years ago.

73 from Mark Fellhauer formerly from Perrysburg, Wood County, Ohio (The west
side of Lake Erie) now in sunny Glendale, AZ.  (g)
```

---

535. Re: [APRSSIG:5776] Re: newbie help

From: Don Murray AE4BR <james-m@ix.netcom.com>
Date: Thu, 24 Oct 1996 02:44:50 -0400
To: aprssig@tapr.org
Message-ID: <326F1062.5D06@ix.netcom.com>
Rendered body type: text/plain

```
I agree with Mark on this.. I own two KPC-3s and plan on buying another.
they are great little TNCs and are easy to setup and use..

Actually thinking of trying out the paging functions on the Kantronics
9612 TNC

AE4BR
Don

Mark D. Fellhauer wrote:
>
> At 09:01 AM 10/23/96 -0500, John M Domblewski wrote:
>
> >Ever Heard of the Paccomm Tiny-II?
>
> Yes, I have.
>
> Remember, another person asked for suggestions.  Most of the responses I've
> seen have been made to me, and not any helpful hints to a new user of APRS
> (which is what started this).  Perhaps you might like to offer an opinion as
> to why the PacComm would be a better choice than a KPC-3.
>
> PacComm TNC's are not as common as the KPC-3, and it might be harder to find
> a local elmer who knows much about them.  They are not carried by any Ham
> Radio Stores that I've been to.  No local purchase access is a downside, IMHO.
>
> One feature I forgot to mention is that the KPC-3 has a remote sysop
```

> function which allows one to alter the TNC's settings by radio. This is a
> very helpful feature when using and setting up APRS, especially in mobile
> trackers. PacComm does not offer this.
>
> To recap, the KPC-3 offers many postive traits to any user of APRS.
>
> -Low cost
> -Good local availability
> -Many in use
> -Accepts a wide variation in input voltage
> -Immune to line noise and power fluctuations
> -Very Low power consumption, can run for hours on a 9 volt battery
> -Easy to set up for use with a GPS unit
> -Interfaces with a GPS unit unbuffered
> -parses time into its internal clock via GPS
> -Remote sysop
> -small physical size
> -low weight
> -On-line help
> -reliable
> -easy to wire up to transceiver
> -no deviation settings to mess with, it just works
>
> All of these features make it a very good choice for APRS.
>
> 73,
>
> Mark Fellhauer
> KC7BXS

536. Wide Command

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Thu, 24 Oct 1996 03:38:38 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961024073838.00683e38@bluenet.net>
Rendered body type: text/plain

I'm running APRS 7.7d and just notice that when I press ALT-S the wide
command is missing? Where is this command?? We in this area use it once in a
while for testing and such. Any Help?
Jamie-KE4HTM

```
+----------------------------------------------------+
|                  Jamie R. Dean                     |
| Amateur Radio Call: KE4HTM                         |
| Internet E-Mail...: ke4htm@bluenet.net             |
| APRS Page.........: http://www.bluenet.net/ke4htm |
| Drop Your Bombs...: 35 45.39N   081 40.34W        |
+----------------------------------------------------+
```

537. Re: [APRSSIG:5787] Re: new AZ wide

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 24 Oct 1996 07:34:17 -0500 (CDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961024072859.21661A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Frequencies in use by cable companies:

Chan 18 Broadcast-495.25 Cable STD-145.25 Cable HRC-144.00 Cable IRC-145.15

If you ever want to see how leaky the system is around you, tune to
145.25 (works best). I used this freq with APRS/GPS/DFjr setup to show
the cable maintenance manager where his leaks were. Didn't make him mad
either! The guy calls me regularly to see if I have found any leaks
lately. Small town.

On Wed, 23 Oct 1996, ap rs wrote:

> That is feasible. Remember that CATV uses part of our 2 meter, 220, and
> 440 spectrum. If there is a cable leak, 2 meters WILL wipe out channel
> 18 at least. An old CATV axiom: "Where there is egress there is also
> ingress".
>
> Actually, it may wipe out channel 18 without a leak, if he's close

```
> enough.  The problem is that of the CATV company, and the owners of the
> poorly shielded TV, but try telling that to an irate neighbor.
>
> He said CABLE TV.  You said you have an antenna.  You are not watching
> CATV 18 if you have an antenna, I believe.
>
> Ralph
> rwf@mindspring.com
>
>
>
>
>
> On Wed, 23 Oct 1996 12:03:36 -0500 (CDT) joefoor@digitalexp.com (Foor,
> Joe) writes:
> >A 100 ft radius??? You better check that radio with a spectrum
> >analyzer,
> >before using it again. I can rotate my beam around and point it
> >directly
> >at my TV antenna, hitting it with 200W ERP (at about thirty feet
> >distant) and still not get any interference at all.
> >
>
```

---

538. WinAPRS and HSP

From: Mark Sproul <sproul@ap.org>
Date: Thu, 24 Oct 1996 09:49:16 -0400
To: aprssig@tapr.org
Message-ID: <v03007800ae9521a61fe5@[165.1.27.171]>
Rendered body type: text/plain

```
To all WinAPRS users

I FINALLY have HSP working.  I will be releasing version 1.1.6 by the end
of the weekend.

Currently it works on Windows95 ONLY.

The first release will contain new versions of the Serial32.dll and
SerThunk.dll.

I do not have the Win 3.1 DLL working with DTR yet. Once that is finished,
it will be a simple matter of getting new version of Serial16.dll.

I have been testing with a PacCom HSP cable, currently HSP is switched for
4 seconds out of each minute.  User settable rates will not be available in
this first release.  I do not know how important it is to have user
settable rates so if you have any thoughts on this, let me know.

Now that my NUMBER ONE PRIORITY is almost completed I will have a chance to
first take a breath and a sigh of relief.  Then I will get on to other
enhancements and additions.

Thanks for all of your support and patience


Mark Sproul

__________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press    |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

539. Re: [APRSSIG:5807] WinAPRS and HSP

From: Joe Agrelo <jagrelo@cris.com>
Date: Thu, 24 Oct 1996 11:25:06 -0700
To: aprssig@tapr.org
Message-ID: <326FB482.6ACF@cris.com>
Rendered body type: text/plain

```
Mark Sproul wrote:

> I FINALLY have HSP working.  I will be releasing version 1.1.6 by the end
> of the weekend.

Congratulations Mark!
```

> Now that my NUMBER ONE PRIORITY is almost completed I will have a chance to
> first take a breath and a sigh of relief. Then I will get on to other
> enhancements and additions.

Aaahhhhh....

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

540. Re: [APRSSIG:5790] Re: new AZ wide

From: Paul Christenson <paul@tech.cyclades.com>
Date: Thu, 24 Oct 1996 09:02:25 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961024082945.1544A-100000@tech.cyclades.com>
Rendered body type: text/plain

On Wed, 23 Oct 1996, Foor, Joe wrote:

> You are right there, Ralph. The cable doesn't come within four miles of
> my home. However, Mark said that he was causing interference which would
> "wipe out the cable". This doesn't sound like a single shared frequency
> problem.

True. However, that's not the usual way that CATVI works.

CATVI usually happens through physical damage to the system, usually caused by people trying to steal cable. This allows signals to get into the system.

Since the amplitude of the 2m signal us huge, compared to the regular cable signal, and in the passband, it drives the amplifier to clipping. It's this overloading of the amps that usually cause the entire system to be affected.

Basically, it's simply "front end overload".

---

541. Need maps - Orange County, CA

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Thu, 24 Oct 1996 09:57:15 -0700
To: <aprssig@tapr.org>
Message-ID: <199610241659.JAA08243@mail1.deltanet.com>
Rendered body type: text/plain

Greetings Sig:

Orange County RACES is planning to use APRS in Orange County the night of the elections to track a few vans carrying ballot information. This is a test only.

Unfortunately we do not have adequate street maps for Orange County, CA for us to demonstrate APRS capabilities.

Therefore, we are putting out a request for any street level Orange County maps that may be in the system. We have Cala, and Socal but they only show the major highways in LA.   There must be someone out there that has made more detailed maps????????

We have a lot of CD-ROM's with detailed street maps, but until Mark & Keith Sproul release their conversion program we feel we are out of luck.

Any ideas or maps??

Thanks to all that reply.

KM6YH,
County of Orange RACES

542. Re: [APRSSIG:5810] Need maps - Orange County, CA

From: Mark Sproul <sproul@ap.org>
Date: Thu, 24 Oct 1996 14:30:38 -0400
To: aprssig@tapr.org
Cc: kjm@deltanet.com
Message-ID: <v03007807ae95660730c8@[165.1.27.171]>
Rendered body type: text/plain

```
>Greetings Sig:
>
>Orange County RACES is planning to use APRS in Orange County the night of
>the elections to track a few vans carrying ballot information.  This is a
>test only.
>
>Unfortunately we do not have adequate street maps for Orange County, CA
>for us to demonstrate APRS capabilities.
>
>Therefore, we are putting out a request for any street level Orange County
>maps that may be in the system.  We have Cala, and Socal but they only show
>the major highways in LA.   There must be someone out there that has made
>more detailed maps????????
>
>We have a lot of CD-ROM's with detailed street maps, but until Mark & Keith
>Sproul release their conversion program we feel we are out of luck.
>


We can generate the maps for the area that you need, give us the lat lon of
the area(s) and we will generate them.  (They will be WinAPRS/MacAPRS only
and wont work on dosAPRS

Mark

________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
________________________________________________________________________
```

543. Re: [APRSSIG:5810] Need maps - Orange County, CA

From: Greg Noneman <greg@clubnet.net>
Date: Thu, 24 Oct 96 13:01:29 -0700
To: <aprssig@tapr.org>
Message-ID: <1365960229-61609280@www.clubnet.net>
Rendered body type: text/plain

```
Ken,

I can, and have created APRS street level maps of Orange County based on
USGS 100k maps.  What particular area(s) of OC do you need?

One thing to consider though is that the USGS source CDs are somewhat
dated. I estimate that some of the data is no more recent than the late
70's.  Hopefully the streets you are interested in have been around a
while.


Greg
WB6ZSU
```

544. Re: [APRSSIG:5804] Re: newbie help

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 24 Oct 1996 15:17:25 -0500 (CDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961024151516.2048A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Just bouaght a 9612 and it's nice! The paging functions look interesting
if there is a local interest. Would come in handy for ARES/RACES personel
notification. Or a backup to some other system. Any APRS functions that
you can think of?



On Thu, 24 Oct 1996, Don Murray AE4BR wrote:
```

```
> I agree with Mark on this.. I own two KPC-3s and plan on buying another.
> they are great little TNCs and are easy to setup and use..
>
> Actually thinking of trying out the paging functions on the Kantronics
> 9612 TNC
>
> AE4BR
> Don
>
> Mark D. Fellhauer wrote:
> >
> > At 09:01 AM 10/23/96 -0500, John M Domblewski wrote:
> >
> > >Ever Heard of the Paccomm Tiny-II?
> >
> > Yes, I have.
> >
> > Remember, another person asked for suggestions.  Most of the responses I've
> > seen have been made to me, and not any helpful hints to a new user of APRS
> > (which is what started this).  Perhaps you might like to offer an opinion as
> > to why the PacComm would be a better choice than a KPC-3.
> >
> > PacComm TNC's are not as common as the KPC-3, and it might be harder to find
> > a local elmer who knows much about them.  They are not carried by any Ham
> > Radio Stores that I've been to.  No local purchase access is a downside, IMHO.
> >
> > One feature I forgot to mention is that the KPC-3 has a remote sysop
> > function which allows one to alter the TNC's settings by radio.  This is a
> > very helpful feature when using and setting up APRS, especially in mobile
> > trackers.  PacComm does not offer this.
> >
> > To recap, the KPC-3 offers many postive traits to any user of APRS.
> >
> > -Low cost
> > -Good local availability
> > -Many in use
> > -Accepts a wide variation in input voltage
> > -Immune to line noise and power fluctuations
> > -Very Low power consumption, can run for hours on a 9 volt battery
> > -Easy to set up for use with a GPS unit
> > -Interfaces with a GPS unit unbuffered
> > -parses time into its internal clock via GPS
> > -Remote sysop
> > -small physical size
> > -low weight
> > -On-line help
> > -reliable
> > -easy to wire up to transceiver
> > -no deviation settings to mess with, it just works
> >
> > All of these features make it a very good choice for APRS.
> >
> > 73,
> >
> > Mark Fellhauer
> > KC7BXS
>
```

---

545. KAM+ / APRS

From: "Al and/or Lorie Z." <ldajz@epix.net>
Date: Thu, 24 Oct 1996 17:05:36 +0000
To: aprssig@tapr.org
Message-ID: <326FA1E0.27AF@epix.net>
Rendered body type: text/plain

Howdy folks,

Will a KAM+ w/ a version 6.1 ROM work without a hitch as an APRS GATE?

AL, N3KAE

---

546. Re: [APRSSIG:5805] Wide Command

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 24 Oct 1996 17:16:08 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961024171421.5948C-100000@arctic>
Rendered body type: text/plain

On Thu, 24 Oct 1996, Jamie R. Dean wrote:

> I'm running APRS 7.7d and just notice that when I press ALT-S the wide
> command is missing? Where is this command?? We in this area use it once in a
> while for testing and such. Any Help?

APRSdos REPLY/COMMENT: The WIDE command has been out of APRS for 6 months or so. Since every station, includeing a WIDE should also have the alias of RELAY, the only correct way to have a WIDE-RELAY is to use a TNC which can have 2 aliases. You can use the PACCOMM or the KPC-3. Just set one of the alternalte aliases to WIDE. Then APRS will leave it alone...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

547. Re: [APRSSIG:5810] Need maps - Orange County, CA

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 24 Oct 1996 17:36:03 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961024173106.5948I-100000@arctic>
Rendered body type: text/plain

On Thu, 24 Oct 1996, Ken Mirabella wrote:

> Orange County RACES is planning to use APRS in Orange County the night of
> the elections to track a few vans carrying ballot information.
> Therefore, we are putting out a request for any street level Orange County
> maps that may be in the system.

APRSdos REPLY/COMMENT: WIth the new MK100k3.exe you can make up to 200 or more APRSdos maps automatically by just entereing the LAT/LONG of the area of interest using the USGS CD rom $32.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

548. Altoona, PA activity?

From: Bob Derderian <n2iph@cyberenet.net>
Date: Thu, 24 Oct 1996 17:45:48 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <326FE38B.359C@cyberenet.net>
Rendered body type: text/plain

Hi All,

Anyone know if there is any activity in the Altoona, PA area. I know there is now N2CHV-2 on Blue Mtn in Harrisburg, and occasionally I would see a station marked as WIDE in Hagerstown, MD.

Is there any APRS activity in Pittsburg also? For anyone who might be in that vicinity please leave packet mail for no3a@w3syy. He's not on the 'net and as far as I know there is no gateway setup for w3syy as I've tried to send email to w3syy.ampr.org which got returned.

Anyways, Mike and a couple others are trying to get APRS started in Altoona, and are looking for others in the area who may already be running APRS or are interested too.

73...Bob

www.cyberenet.net/~n2iph/frontpg.html

---

549. 77d Bug

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Wed, 23 Oct 1996 08:18:49 -0700
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <326E3759.2B70@worldnet.att.net>
Rendered body type: text/plain

I have noticed the problem with the O D S and have what appears to be a couple of others..
1. My saved maps (1,3,5 etc) were scrambled
2. The X B does not send. X P works!

One other problem, which might have been Operator error,(who me?) I renamed my CONFIG files to 77d. The APR extent ion seemed to work OK but the HF extension would not. I finally had to enter the program from scratch and save it.

Bud (WB4LTF)

---

550. Sailboats and APRS.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 24 Oct 1996 19:35:43 -0400 (EDT)
To: KB8AST <kb8ast@mwweb.com>
Cc: wb4gqk@amsat.org, aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961024192732.11181A-100000@arctic>
Rendered body type: text/plain

```
I will be adding a QRU command to APRS so that sailboaters can turn off
their RECEIVERS as well as transmitters on long sails.  At the Academy, we
find that an SSB radio draws 1.7 amps on receive and the 286 laptop draws
.3 for a total of 2 amps.  Although the 100 amp hour batteries should last
2 days at this rate, most skippers are concerned.  (Transmit current of 20
amps is insignificant since it is on less than 0.5% of the time).

With a QRU query packet, I can have the laptop turn oFF the HF between the
15 minute position periods.  THen turn it on to send its beacon, posit and
the QRU packet.  THen it listens for 1 minute before turning off the HF
again.  Every station hearing the QRU packet will scan its MESSAGE list
and if it has an outgoing packet for that station, it will send it.  THis
way, the sailboat will still RECEIVE traffic, even though his receiver
is OFF 92% of the time!  This reduces the average current drain to about
0.4 amps for a factor of FIVE improvement in battery life!

I still dont see any sailboats on HF, and very few of the waterway boats
if there are any, but this will be easy to do if they want...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

551. Best Weather Setup

From: Dave Kaplan <dkaplan@pionet.net>
Date: Thu, 24 Oct 1996 19:06:37 -0500
To: aprssig@tapr.org
Message-ID: <9610250006.AA22856@ELWOOD.pionet.net>
Rendered body type: text/plain

```
It looks like we are going to see some activity here in Sioux City, IA.  We
are talking about putting up a WIDE in Mapelton, IA that should give us a
link to Red Oak, IA and, hopefully, from there to Kansas City and Des Moines.

We would like to install some weather station around Sioux City for the
local Police Fire and EOC to be able to monitor weather conditions.  What
are the pros and cons about the Peet Bros and the Davis.  How does price
compare for units that have rainfall/rate of rainfall etc...

Looking forward to all comments either in private or on the web.

Dave
WB0WNX
```

---

552. Re: [APRSSIG:5818] 77d Bug

From: Bruce Douberley <bcdpe@innova.net>
Date: Thu, 24 Oct 1996 20:25:15 -0400
To: aprssig@tapr.org
Message-ID: <327008EB.3B73@innova.net>
Rendered body type: text/plain

```
B.G. Gotshall wrote:
>
> I have noticed the problem with the O D S and have what appears to be a
> couple of others..
> 1.  My saved maps (1,3,5 etc) were scrambled
> 2. The X B does not send.  X P works!
>
> One other problem, which might have been Operator error,(who me?) I
> renamed my CONFIG files to 77d. The APR extent ion seemed to work OK but
> the HF extension would not.  I finally had to enter the program from
> scratch and save it.
>
> Bud (WB4LTF)

Bob,
Is there a problem with the shell to DOS? When I hit File-Dos i get
dumped to c: and get the following error message:
"Illegal function call in line 0 of module APRS77W at address 1AA8:5545
```

Hit any key to return to system"

Bruce Douberley, WB4JNE
bcdpe@innova.net

---

553. Re: [APRSSIG:5819] Sailboats and APRS.

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Thu, 24 Oct 1996 18:04:51 -0700
To: aprssig@tapr.org
Message-ID: <32701233.59F8@ix.netcom.com>
Rendered body type: text/plain

Bob Bruninga wrote:

> I will be adding a QRU command to APRS so that sailboaters can turn off
> their RECEIVERS as well as transmitters on long sails. At the Academy, we
> find that an SSB radio draws 1.7 amps on receive and the 286 laptop draws
> .3 for a total of 2 amps. Although the 100 amp hour batteries should last
> 2 days at this rate, most skippers are concerned. (Transmit current of 20
> amps is insignificant since it is on less than 0.5% of the time).
>
> With a QRU query packet, I can have the laptop turn oFF the HF between the
> 15 minute position periods. THen turn it on to send its beacon, posit and
> the QRU packet. THen it listens for 1 minute before turning off the HF
> again. Every station hearing the QRU packet will scan its MESSAGE list
> and if it has an outgoing packet for that station, it will send it. THis
> way, the sailboat will still RECEIVE traffic, even though his receiver
> is OFF 92% of the time! This reduces the average current drain to about
> 0.4 amps for a factor of FIVE improvement in battery life!
>
> I still dont see any sailboats on HF, and very few of the waterway boats
> if there are any, but this will be easy to do if they want...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

de KB6LFM

QRU for S/V's what a great idea.! looking forward to that up-grade.
Re; UR comment about not seeing many S/V's. We out here on the Left
Coast are doing our best to get the (Ham) Skippers to install 30m
beacons. You might want to check-out the "Baja Ha! Ha!" race which
starts on the 28th. KN6KB (Rick) on "Second Wind" for one, will be
"beaconing"

Cheers de Bill

---

554. LL BBS?

From: n4ldg@juno.com (Louis A Cruz)
Date: Thu, 24 Oct 1996 19:14:47 PST
To: aprssig@tapr.org
Message-ID: <19961024.191449.3942.0.N4LDG@juno.com>
Rendered body type: text/plain

Hello folks, is there a LL BBS where I can download the latest version(s)
of APRS? At the time, I have no access to the Internet, only mail, but
would like to still be able to download the latest version of APRS.

Thanks! 73 - Louis, N4LDG

---

555. Eagle Accunav Sport/Mac Serial Pinouts

From: Ronnie Reid <reid@imerge.com>
Date: Thu, 24 Oct 1996 22:21:46 -0500
To: aprssig@tapr.org
Message-ID: <32703245.7C25@imerge.com>
Rendered body type: text/plain

Ok, this isn't exactly an APRS question, but maybe someone can help.

I'm trying to get my Accunav Sport to send data to my Mac, but so far,
I'm having no luck.
I think I have the correct pins connected, but someone mentioned I might
need a diode or something for the RS-422 port. Not knowing _alot_ about
it, I'm turning to you all... the experts.

Any help would be greatly appreciated!!!

Thanks.
Ronnie

---

556. Re: [APRSSIG:5819] Sailboats and APRS.

From: James Duncan <ku0g@sprynet.com>
Date: Thu, 24 Oct 1996 20:33:17 -0700
To: aprssig@tapr.org
Message-ID: <199610250333.UAA01881@m1.sprynet.com>
Rendered body type: text/plain

```
At 18:33 10/24/96 -0500, you wrote:

>With a QRU query packet, I can have the laptop turn oFF the HF between the
>15 minute position periods.  THen turn it on to send its beacon, posit and
>the QRU packet.  THen it listens for 1 minute before turning off the HF
>again.  Every station hearing the QRU packet will scan its MESSAGE list
>and if it has an outgoing packet for that station, it will send it.  THis
>way, the sailboat will still RECEIVE traffic, even though his receiver
>is OFF 92% of the time!  This reduces the average current drain to about
>0.4 amps for a factor of FIVE improvement in battery life!
>
>I still dont see any sailboats on HF, and very few of the waterway boats
>if there are any, but this will be easy to do if they want...

It would seem to me that this would also be great for just plain ol'
mobiles, too!  How about people like Peter (W7LUS) who are on the road for
long periods.  Would also be good for the RV'ers out there, too!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

557. Re: [APRSSIG:5820] Best Weather Setup

From: James Duncan <ku0g@sprynet.com>
Date: Thu, 24 Oct 1996 20:35:25 -0700
To: aprssig@tapr.org
Message-ID: <199610250335.UAA02235@m1.sprynet.com>
Rendered body type: text/plain

```
At 18:59 10/24/96 -0500, you wrote:
>It looks like we are going to see some activity here in Sioux City, IA.  We
>are talking about putting up a WIDE in Mapelton, IA that should give us a
>link to Red Oak, IA and, hopefully, from there to Kansas City and Des Moines.
>
GREAT NEWS, Dave!!!  Looking forward to seeing I-29 get even more coverage
than it already has!!!

>We would like to install some weather station around Sioux City for the
>local Police Fire and EOC to be able to monitor weather conditions.  What
>are the pros and cons about the Peet Bros and the Davis.  How does price
>compare for units that have rainfall/rate of rainfall etc...

I like the Peet Brothers units, myself (own two, so far!). They're easy to
set up, assembly and hook up to the TNC!!!
>
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

---

558. Re: [APRSSIG:5821] Re: 77d Bug

From: James Duncan <ku0g@sprynet.com>
Date: Thu, 24 Oct 1996 20:36:39 -0700
To: aprssig@tapr.org
Message-ID: <199610250336.UAA02427@m1.sprynet.com>
Rendered body type: text/plain

```
At 19:29 10/24/96 -0500, you wrote:
>B.G. Gotshall wrote:
>>
>> I have noticed the problem with the O D S and have what appears to be a
>> couple of others..
>> 1.  My saved maps (1,3,5 etc) were scrambled

Same here!  Mine wouldn't even play!!!
```

>> 2. The X B does not send. X P works!

Haven't tried this yet....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

559. Re: [APRSSIG:5824] Eagle Accunav Sport/Mac Serial Pinouts

From: kc5ejk@onramp.net (Robert Winingham)
Date: Thu, 24 Oct 1996 23:40:05 -0600
To: aprssig@tapr.org
Cc: reid@imerge.com
Message-ID: <v02140b00ae95fb9cb0c4@[199.1.11.123]>
Rendered body type: text/plain

>Ok, this isn't exactly an APRS question, but maybe someone can help.

That Ok it is asked all the time

>I'm trying to get my Accunav Sport to send data to my Mac, but so far,
>I'm having no luck.
>I think I have the correct pins connected, but someone mentioned I might
>need a diode or something for the RS-422 port. Not knowing _alot_ about
>it, I'm turning to you all... the experts.

The Mac serial ports are RS-422 BUT all pre-make cables have one side of the RS-422 "balanced pair interface" input connect to ground to make it RS-232

That looks something like this:

```
       DIN-8 MALE                       DB-25 MALE

       GROUND 4 O--+--------------------O 7  GROUND
  RECV DATA + 8 O--+

  RECV DATA - 5 O-----------------------O 3  RD (Receive Data)

  XMIT DATA - 3 O-----------------------O 2  TD (Transmit Data)

HANDSHAKE OUT 1 O--+
HANDSHAKE  IN 2 O--+--------------------O 20 DTR (Data Terminal Ready)
```

You must roll your own cable by using a 8-pin to 8-pin cable and cutting off one end.

8-pin mini-DIN connector on the back panel

```
    notch
   8  7  6

  5   4   3

    2   1
```

Pin number	Signal	Function
1	HSKo	Handshake output
2	HSKi	Handshake input
3	TxD-	Transmit data -
4	SG	Signal ground
5	RxD-	Receive data -
6	TxD+	Transmit data +
7	GPi	General-purpose input
8	RxD+	Receive data +

```
GPS            MAC Signal        MAC pin
------         --------------    -------
GPS Data Out   Receive  Data -    (5)
GPS Data In    Transmit Data -    (3)
Ground         Ground             (4)
------------------------------------------------
```

The RS-422 will be a better match for the almost TTl like

output of most GPS units. IF your unit output true S-232
than per-made MAC RS-232 cable will work.

Note : IF you do run an input TO the GPS don't overdrive it.

For a Garmin-45 user the cable would be:

```
GPS 45                  Mac              PC User 9 Pin
----------------      --------------    ---------
Data Out (Brown)    Receive Data  (5)      2
Data In (White)     Transmit Data (3)      3
Ground (Black)      Ground        (4)      5
Power(+)(Red)       No Connection
```

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

560. Re: [APRSSIG:5814] KAM+ / APRS

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 24 Oct 1996 22:27:22 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961024222724.2d47079c@mailhost.primenet.com>
Rendered body type: text/plain

At 03:59 PM 10/24/96 -0500, Al and/or Lorie Z. wrote:
>Howdy folks,
>
>Will a KAM+ w/ a version 6.1 ROM work without a hitch as an APRS GATE?
>
>

Although I'm no expert on the KAM+, it seems to me there was a guy in Phoenix who was using one. Unfortunately, he moved out of the area, or I'd get his call.

Mark
KC7BXS

---

561. Re: [APRSSIG:5807] WinAPRS and HSP

From: aprs@juno.com (ap rs)
Date: Fri, 25 Oct 1996 01:20:49 EDT
To: aprssig@tapr.org
Message-ID: <19961024.222816.8982.1.aprs@juno.com>
Rendered body type: text/plain

Mark

Hope it works with pico mode, too (where it sends a ctrl e for the posit).
It is very important to have HSP user settable, I think down to every couple of seconds or so. This is, of course for tracking your progress (mapping).

Not having used WinAPRS mobile yet with GPS (because of no HSP), I don't even know if you have such a mode. But if you do, I think we need to be able to get posits for local screen update that often. The pico can easily switch once a second without causing errors on DosAPRS.

Ralph
rwf@mindspring.com

On Thu, 24 Oct 1996 09:06:58 -0500 (CDT) Mark Sproul <sproul@ap.org>
writes:
>To all WinAPRS users
>
>I FINALLY have HSP working. I will be releasing version 1.1.6 by the
>end
>of the weekend.

---

562. Re: [APRSSIG:5823] LL BBS?

From: Doug Wittich <dwittich@concentric.net>
Date: Fri, 25 Oct 1996 06:15:23 -0400
To: aprssig@tapr.org

Message-ID: <1.5.4.32.19961025101523.002aac7c@pop3.concentric.net>
Rendered body type: text/plain

```
Louis, you can download it from my BBS.   I got the 77D versions from TAPR
and uploaded them to these two the other day:

410-256-0170  33+kbps   Area HAMCOMM

410-252-6238  14400 bps (W3FT Baltimore ARC BBS)  Area HAMPKT

Once you get *a* copy, there is a list of the official distribution boards.
I'm not yet on there, but should probably ask to be.


73

Doug




At 09:55 PM 10/24/96 -0500, you wrote:
>Hello folks, is there a LL BBS where I can download the latest version(s)
>of APRS?  At the time, I have no access to the Internet, only mail, but
>would like to still be able to download the latest version of APRS.
>
>Thanks!  73 - Louis, N4LDG
>
>
>
```

---

563. Re: 77d Bug

From: ad4bl@juno.com (Linda G Mullen)
Date: Fri, 25 Oct 1996 07:50:54 CDT
To: aprssig@tapr.org
Message-ID: <19961025.065244.3406.3.ad4bl@juno.com>
Rendered body type: text/plain

```
On Thu, 24 Oct 1996 22:43:27 -0500 (CDT) James Duncan <ku0g@sprynet.com>
writes:
>At 19:29 10/24/96 -0500, you wrote:
>>B.G. Gotshall wrote:
>>>
>>> I have noticed the problem with the O D S and have what appears to
>be a
>>> couple of others..
>>> 1.  My saved maps (1,3,5 etc) were scrambled
>
>Same here!  Mine wouldn't even play!!!
>
>>> 2. The X B does not send.  X P works!
>
>Haven't tried this yet....
>
>73 de Jim, KU0G
>Chairman/Coordinator
>Kansas City APRS Working Group
>EMail:  ku0g@sprynet.com
>

I am using 7.7D and the SB works just fine...I did keep the old config
file
with some modifications for 7.7d

Linda
```

---

564. Re: [APRSSIG:5822] Re: Sailboats and APRS.

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 25 Oct 1996 06:57:40 -0500 (CDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961025065657.11597A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I have a sail boat in my bath tub. Does that count? ... grin ...

On Thu, 24 Oct 1996, kb6lfm wrote:

> Bob Bruninga wrote:
```

> >
> > I will be adding a QRU command to APRS so that sailboaters can turn off
> > their RECEIVERS as well as transmitters on long sails. At the Academy, we
> > find that an SSB radio draws 1.7 amps on receive and the 286 laptop draws
> > .3 for a total of 2 amps. Although the 100 amp hour batteries should last
> > 2 days at this rate, most skippers are concerned. (Transmit current of 20
> > amps is insignificant since it is on less than 0.5% of the time).
> >
> > With a QRU query packet, I can have the laptop turn oFF the HF between the
> > 15 minute position periods. THen turn it on to send its beacon, posit and
> > the QRU packet. THen it listens for 1 minute before turning off the HF
> > again. Every station hearing the QRU packet will scan its MESSAGE list
> > and if it has an outgoing packet for that station, it will send it. THis
> > way, the sailboat will still RECEIVE traffic, even though his receiver
> > is OFF 92% of the time! This reduces the average current drain to about
> > 0.4 amps for a factor of FIVE improvement in battery life!
> >
> > I still dont see any sailboats on HF, and very few of the waterway boats
> > if there are any, but this will be easy to do if they want...
> >
> > Reply mail addr: wb4apr@amsat.org
> > See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
> de KB6LFM
>
> QRU for S/V's what a great idea.! looking forward to that up-grade.
> Re; UR comment about not seeing many S/V's. We out here on the Left
> Coast are doing our best to get the (Ham) Skippers to install 30m
> beacons. You might want to check-out the "Baja Ha! Ha!" race which
> starts on the 28th. KN6KB (Rick) on "Second Wind" for one, will be
> "beaconing"
>
> Cheers de Bill
>

---

565. X1J Node

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 25 Oct 1996 07:32:34 -0500
To: aprssig@tapr.org
Message-ID: <9610251232.AA11627@ELWOOD.pionet.net>
Rendered body type: text/plain

Hope to install an X1J WIDE at Mapleton, Iowa in the next 10 days. Anything
special about setting up this style node?

Dave

---

566. Remote U-II's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 25 Oct 1996 09:34:49 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961025093105.14356A-100000@arctic>
Rendered body type: text/plain

I figured out what is going on with remote U-II's. What APRS does is
overwrite the POSIT on the P-LIST with the WX data when a raw U-II packet
come in. When a BText from the same station contains the POSIT info, it
overwrites that too as it should. What you have to do is make sure that
the BText with the POSIT has no other text in it beyond the _ wx symbol
character. That way, it will NOT overwrite that portion of the posit.

So the software IS working as I designed it. But BText must contain only
the posit and no text.

I would like for the BText to contain some other info, but havent figured
out how I want to do that yet. So for now, cut the BText to POSIT only.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

567. GPS & Window DeIcers

From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Date: Fri, 25 Oct 1996 06:30:44 -0700
To: aprssig@tapr.org
Message-ID: <199610251330.GAA29421@CATI.CSUFresno.EDU>
Rendered body type: text/plain

I have used my Trimble Mushroom GPS all summer with excellent results in the
rear window shelf of my car and usually get about 5 to 6 satellites. But
today I was shocked to see NO SATS at all being recieved! After checking all
possible causes, I turned off the Rear Window DeIcer and suddenly all the sats
reappeared. Evidently, when off, these wires do not interfere with sat n, but when powered, act as a
Faraday shield or such blanking out reception!
So, those running rear window GPS's, Scrape off the ice if you want to have
your tracker work! 73, Pat WA6MHZ

---

568. Re: [APRSSIG:5817] Altoona, PA activity?

From: Mark Humphrey <mark@y100.com>
Date: Fri, 25 Oct 1996 09:43:02 -0400
To: aprssig@tapr.org
Message-ID: <3270C3E6.4110@y100.com>
Rendered body type: text/plain

Bob Derderian wrote:
>
> Hi All,
>
> Anyone know if there is any activity in the Altoona, PA area. I know
> there is now N2CHV-2 on Blue Mtn in Harrisburg, and occasionally I would
> see a station marked as WIDE in Hagerstown, MD.
>

Bob: I'm not aware of anything in Altoona yet, but I drove through
Pittsburgh last May and did hear activity on 145.79.

If the Altoona group decides to set up a WIDE, a site on Sideling Hill
(near the PA Turnpike) should be able to hit N2CHV-2 reliably, and would
receive mobiles on I-76 and I-70 toward MD. They will probably want to
build another WIDE west of Altoona to cover the Johnstown area, too.

73, Mark N2CHV

---

569. Re: QRU for sailboats

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 25 Oct 1996 10:08:37 -0400 (EDT)
To: Bob Derderian <n2iph@cyberenet.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961025093738.14356C-100000@arctic>
Rendered body type: text/plain

On Thu, 24 Oct 1996, Bob Derderian wrote concerning my proposal of
Sailboat low power APRS HF operations:

> I don't understand something, are you say ing that APRS will physically
> shut down the receiver (remove power) ? If so will this be through some
> control using the LPT port or a second serial port?

APRSdos REPLY/COMMENT: I will use the DTR line on the serial port...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

570. Re: [APRSSIG:5821] Re: 77d Bug

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 25 Oct 1996 10:11:10 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961025101056.14356E-100000@arctic>
Rendered body type: text/plain

You dont have enough memory any more...

On Thu, 24 Oct 1996, Bruce Douberley wrote:

> B.G. Gotshall wrote:
> >
> > I have noticed the problem with the O D S and have what appears to be a
> > couple of others..
> > 1. My saved maps (1,3,5 etc) were scrambled
> > 2. The X B does not send. X P works!
> >
> > One other problem, which might have been Operator error,(who me?) I
> > renamed my CONFIG files to 77d. The APR extent ion seemed to work OK but
> > the HF extension would not. I finally had to enter the program from
> > scratch and save it.
> >
> > Bud (WB4LTF)

```
>
> Bob,
> Is there a problem with the shell to DOS? When I hit File-Dos i get
> dumped to c: and get the following error message:
> "Illegal function call in line 0 of module APRS77W at address 1AA8:5545
> Hit any key to return to system"
>
> Bruce Douberley, WB4JNE
> bcdpe@innova.net
>
>

APRSdos REPLY/COMMENT:

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

571. Re: [APRSSIG:5825] Re: Sailboats and APRS.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 25 Oct 1996 10:20:34 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961025101249.14356F-100000@arctic>
Rendered body type: text/plain

```
On Thu, 24 Oct 1996, James Duncan wrote:

> It would seem to me that this would also be great for just plain ol'
> mobiles, too!  How about people like Peter (W7LUS) who are on the road for
> long periods.  Would also be good for the RV'ers out there, too!

APRSdos REPLY/COMMENT:  Yes, and no.  Like anything, idiots can abuse it.
If a station has ample power like ANY mobile with an engine, then he
should keep his HF receiver on all the time and should *not* burn up
bandwidth sending QRU's all day long.  But yes, for a mobile that has gone
QRT for a few hours, he can send one QRU when he is on the road again to
see if he missed anything.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

572. Re: [APRSSIG:5820] Best Weather Setup

From: schiers@ames.net
Date: Fri, 25 Oct 96 10:13:39 -0500
To: aprssig@tapr.org
Message-ID: <199610251517.KAA21472@tapr.org>
Rendered body type: text/plain

```
In <851561@bbs.ames.net>, on 10/24/96 at 07:00 PM,
   aprssig@tapr.org said:

> What
>are the pros and cons about the Peet Bros and the Davis.

I can only give you pros about Peet:

1. The U-2000 is a dream to use. Easy and very powerful. Excellent
   interface to APRS.
2. SUPERB customer service. Responsive, fair, fast.
3. I have used 2 U-II's and one U-2000 and had excellent luck with
   all of them. There were some early problems with both the regular
   temp sensors and the combined external humidity/temp sensor.  4. Price
is reasonable and they have maintained some form of upgrade
   path so your existing peripherals work with their upgraded control
   heads. The old heads can even be used as remotes!

hasan schiers, N0AN--
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

573. Re: [APRSSIG:5820] Best Weather Setup

From: schiers@ames.net
Date: Fri, 25 Oct 96 10:17:42 -0500
To: aprssig@tapr.org
Message-ID: <199610251518.KAA21633@tapr.org>
Rendered body type: text/plain

In <851561@bbs.ames.net>, on 10/24/96 at 07:00 PM,
   aprssig@tapr.org said:

>It looks like we are going to see some activity here in Sioux City, IA.
>We are talking about putting up a WIDE in Mapelton, IA that should give
>us a link to Red Oak, IA and, hopefully, from there to Kansas City and
>Des Moines.

Have you been talking to Larry, N0BKB about an APRS WIDE digi at Red Oak?
73,

hasan schiers, N0AN--
----
schiers@ames.net

---

574. Re: [APRSSIG:5836] GPS & Window DeIcers

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 25 Oct 1996 12:16:47 -0500 (CDT)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961025121558.15841D-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

When tracking ones spouse, don't tell them about this!!!

On Fri, 25 Oct 1996, Pat Bunsold wrote:

> I have used my Trimble Mushroom GPS all summer with excellent results in the
> rear window shelf of my car and usually get about 5 to 6 satellites. But
> today I was shocked to see NO SATS at all being recieved! After checking all
> possible causes, I turned off the Rear Window DeIcer and suddenly all the sats
> reappeared. Evidently, when off, these wires do not interfere with sat n, but when powered, act as a Faraday shield or such blanking out reception!
> So, those running rear window GPS's, Scrape off the ice if you want to have
> your tracker work! 73, Pat WA6MHZ
>

---

575. GPS-20 question

From: Mel Muecke <MMuecke@InterfaceTech.com>
Date: Fri, 25 Oct 1996 10:25:42
To: aprssig@tapr.org
Message-ID: <19961025102542.29045737.in@InterfaceTech.com>
Rendered body type: text/plain

Hi gang!

I bought a GPS-20 and hooked it up to see that it works. I didn' have an antenna handy, so I tried the trick with a piece of wire. I connected the serial output to my Newton, and watched the strings come out of the unit for quite some time. The satellite numbers kept incrementing like it was searching the sky for each one. I don't remember which string was showing what, but got the impression that it was going through a cold boot sequence. When it was finished, it showed 00 satellites received, and the lat/lon never appeared.

Since the first power-up I have transferred my homemade amplified patch to the cable provided with the unit, and have left the GPS-20 running for a few hours. It never shows that it is receiving any satellites in spite of the fact that my garmin45 is sitting next to it with a full house. I know the antenna is fine, I had been using it with the garmin45.

I was wondering if there is any way to get the unit to go through the cold boot sequence again without shorting out the backup battery?

Does the unit only look for the satellites it expects to see in the sky over the last place it got a lock (garmin factory), or would it see the ones in view and lock onto them? In other words, when it says it is not receiving ANY satellites, does that mean ANY, or not any of the ones it is expecting?

I was trying to enter the lat/lon and time manually to see if that would fix it, but am having trouble getting the GPS-20 to accept input from the Newton. It may be a cabling problem, since the Newton is RS-422 and I'm not sure whether it thinks it is serial or appletalk network. I got the cable hookup for Macs a couple days ago, and will probably try that this weekend. If ALL else fails, I can dig out my old PC and talk to it that way.

Any info would be appreciated.

Thanks,

Mel

```
________________________________________________________
  @__0~_          Mel Muecke - Applications Engineer
 ,>/->/-#         mmuecke@InterfaceTech.com
(*)\--\(*)        Interface Technology - Walnut, CA  USA
                  (909) 595-6030   Fax (909) 595-7177
```

Comment on the computer age: Never in the history of mankind has it been
possible to produce so many wrong answers so quickly.
- author unknown.

---

576. Re: [APRSSIG:5835] Remote U-II's

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Fri, 25 Oct 1996 13:38:39 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961025133149.11512C-100000@ns1>
Rendered body type: text/plain

Well I was wondering why my 2000 data would not show in the little data
box at the top of the screen. I am also not seeing the wind direction
indication on the blue dot. Is this caused by the same problem ?

Another question....does the packet mode of the 2000 work w/aprs or
should I keep it in the gps mode ?

```
Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
_______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                        (334) 405-4600
```

On Fri, 25 Oct 1996, Bob Bruninga wrote:

> I figured out what is going on with remote U-II's. What APRS does is
> overwrite the POSIT on the P-LIST with the WX data when a raw U-II packet
> come in. When a BText from the same station contains the POSIT info, it
> overwrites that too as it should. What you have to do is make sure that
> the BText with the POSIT has no other text in it beyond the _ wx symbol
> character. That way, it will NOT overwrite that portion of the posit.
>

---

577. Re: [APRSSIG:5844] GPS-20 question

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 25 Oct 1996 13:59:56 -0500
To: aprssig@tapr.org
Message-ID: <9610251859.AA29237@ELWOOD.pionet.net>
Rendered body type: text/plain

At 12:34 PM 10/25/96 -0500, you wrote:

>
><snip>

>
>It may be a cabling problem, since the Newton is RS-422 and I'm not
>sure whether it thinks it is serial or appletalk network. I got the cable
>hookup for Macs a couple days ago, and will probably try that this weekend.
>If ALL else fails, I can dig out my old PC and talk to it that way.
>
>Any info would be appreciated.
>
>Thanks,

I have some old RS422 to RS232 adapters I used when I had a Honeywell (Bull)
computer system that spoke RS422 that I needed to connect to my PC's. I
have 3 or 4 of them in the storage closet I could sell for $25 ea if anyone
needs them.....

Dave

---

578. Re: [APRSSIG:5792] Boat cruise down atlantic

From: Daniel Velez <djv@gte.net>
Date: Fri, 25 Oct 1996 14:54:00 -0400
To: aprssig@tapr.org
Message-ID: <32710CC7.7450@gte.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>

```
> AA3NM just reported he traveled the intercoastal from Annapolis to
> SouthCarolina.  He had a stand alone tracker, but the family lost him just
> south of Patuxent river.  ANyone in Norfolk or NC or SC see him?  He needs
> some feedback...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
Yep!  When I got home from work, I saw the boat had just gone by.  I
first copied position reports as he approached downtown Norfolk in the
Elizabeth River.  I managed to PING him as he traveled south into Pungo
(South Virginia Beach).  He was using a standalone tracker on 145.79
when he passed through here...raw data.
--
Dan

||||||||||||||||||||||||||||||||||||||||||||||||||||
Daniel Velez                             djv@gte.net
                  http://home1.gte.net/djv/index.htm
                            n4wzr@wd4miz.va.usa.noam
||||||||||||||||||||||||||||||||||||||||||||||||||||
```

---

579. [APRSSIG:5653] TAPR GPS-20 Group Purchase Update

From: Don Pendry <dpendry@mail.telis.org>
Date: Fri, 25 Oct 1996 12:48:00 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19961025124450.1ab76fd0@mail.telis.org>
Rendered body type: text/plain

```
TAPR GPS-20 Group Purchase Information
---------------------------------------------------------

Due to the popularity of the GPS-20 group buys, TAPR plans on just taking
continuous orders.  Thus, TAPR will take orders for around 100 units and
then do a purchase and then start another buy right away.  Please remember
that an order with payment must be received to get a unit -- this is NOT a
collection list for purchase.

The current GPS-20 orders are being shipped this week and next.  TAPR is now
taking orders for another batch of 100 units.


Full details can be found on: www.tapr.orgy


------------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
------------------------------------------------------------------------
e-mail: TAPR@TAPR.ORG  ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
------------------------------------------------------------------------



Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California  92252
dpendry@telis.org
```

---

580. Re: [APRSSIG:5653] TAPR GPS-20 Group Purchase Update

From: Don Pendry <dpendry@mail.telis.org>
Date: Fri, 25 Oct 1996 12:47:53 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <2.2.16.19961025124444.241710b2@mail.telis.org>
Rendered body type: text/plain

```
At 10:36 17/10/96 -0500, you wrote:
>TAPR GPS-20 Group Purchase Information
>---------------------------------------------------------
>
>Due to the popularity of the GPS-20 group buys, TAPR plans on just taking
>continuous orders.  Thus, TAPR will take orders for around 100 units and
>then do a purchase and then start another buy right away.  Please remember
>that an order with payment must be received to get a unit -- this is NOT a
>collection list for purchase.
>
>The current GPS-20 orders are being shipped this week and next.  TAPR is now
>taking orders for another batch of 100 units.
>Would like some info on the GPS 20 prior to ordering one...does an external
```

anntena connect to the GPS 20 and is the $169.00 include shipping and taxes ??
Thanks for you info..Don Pendry, N6AER, dpendry@mail.telis.org
>
>Full details can be found on: www.tapr.org
>
>
>---
>Tucson Amateur Packet Radio
>8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
>---
>e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
>---
>
>
>
>
Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California 92252
dpendry@telis.org

---

581. Re: [APRSSIG:5833] Re: Sailboats and APRS.

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Fri, 25 Oct 1996 12:50:41 -0700 (PDT)
To: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961025124915.26746G-100000@spork.callamer.com>
Rendered body type: text/plain

Along with a few others I am a sailboater with an interest in power
conservation too. If it would be possible to turn off the beacon easily
with a single command it would be most useful! Cliff Buttschardt K7RR

---

582. Don't read if you are not in Texas

From: rwf <rwf@atl.mindspring.com>
Date: Fri, 25 Oct 1996 18:19:18 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961025221918.006b3118@atl.mindspring.com>
Rendered body type: text/plain

Well, they're sending me on the road again. I'd be interested in meeting up
with APRSers or ATVers in the McAllen/Laredo/Houston areas. I'll be there
from this Monday thru the 5th of November.

                 Ralph Fowler, N4NEQ   S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web: http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!

---

583. Re: [APRSSIG:5835] Remote U-II's

From: James Duncan <ku0g@sprynet.com>
Date: Fri, 25 Oct 1996 18:42:29 -0700
To: aprssig@tapr.org
Message-ID: <199610260142.SAA05248@m1.sprynet.com>
Rendered body type: text/plain

At 08:32 10/25/96 -0500, you wrote:
>I figured out what is going on with remote U-II's. What APRS does is
>overwrite the POSIT on the P-LIST with the WX data when a raw U-II packet
>come in. When a BText from the same station contains the POSIT info, it
>overwrites that too as it should. What you have to do is make sure that
>the BText with the POSIT has no other text in it beyond the _ wx symbol
>character. That way, it will NOT overwrite that portion of the posit.
>
>So the software IS working as I designed it. But BText must contain only
>the posit and no text.
>
>I would like for the BText to contain some other info, but havent figured
>out how I want to do that yet. So for now, cut the BText to POSIT only.
>

>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
OK, but what about those of us who use TACTICAL CALLSIGNS for the MYCALL and
satisfy the ID requirement by including the actual station callsign in the
BText? Means that my WX stations can no longer post on maps as MCI, MKC,
etc....

Bummer!!!! I'm vain as the next guy but even >I< get tired of seeing 8 or 9
posits on the map all with MY callsign on them!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

584. Re: [APRSSIG:5842] Re: Best Weather Setup

From: James Duncan <ku0g@sprynet.com>
Date: Fri, 25 Oct 1996 18:44:50 -0700
To: aprssig@tapr.org
Message-ID: <199610260144.SAA05889@m1.sprynet.com>
Rendered body type: text/plain

At 10:26 10/25/96 -0500, you wrote:
>In <851561@bbs.ames.net>, on 10/24/96 at 07:00 PM,
>   aprssig@tapr.org said:
>
>>It looks like we are going to see some activity here in Sioux City, IA.
>>We are talking about putting up a WIDE in Mapelton, IA that should give
>>us a link to Red Oak, IA and, hopefully, from there to Kansas City and
>>Des Moines.
>
>Have you been talking to Larry, N0BKB about an APRS WIDE digi at Red Oak?
>73,
>
>hasan schiers, N0AN--
>---
>schiers@ames.net
>---
>
There's ALREADY a WIDE at Red Oak! That would be N0BKB-3, isn't it?
BTW: Where is Mapleton?

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

585. Maps & Longitude Latitude Co-ordinates

From: Dennis James <denniswj@aljan.com.au>
Date: Sat, 26 Oct 1996 12:50:31 +1000
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961026025031.0066f6c4@aljan.com.au>
Rendered body type: text/plain

Hello All

Having been on the sig now for some months and have enjoyed reading the
comments.

I would like to know if there are any maps on Australia and if you can get a
listing or Longitude and Latitude co-ordinates world wide.

Thanks in advance

Dennis
Scone
The Horse Capital of Australia
denniswj@aljan.com.au
VK2DOR
Satellites UO-22 KO-23 KO-25
GPS 45XL
Dennis
Scone
The Horse Capital of Australia
denniswj@aljan.com.au
VK2DOR
Satellites UO-22 KO-23 KO-25

586. Re: [APRSSIG:5851] Don't read if you are not in Texas

From: N5RKN@aol.com
Date: Sat, 26 Oct 1996 00:38:02 -0400
To: aprssig@tapr.org
Message-ID: <961026003800_551303420@emout04.mail.aol.com>
Rendered body type: text/plain

```
Hoping to see a bunch of APRS use coming to the Odessa Hamfest
November 2nd & 3rd.  I'll be running mine for a while.... but, I'm in Odessa
and in charge of the fest, so it will be major redundant.
  See Everyone Here....over 2 dozen different dealers and over 200 tables
filled.
  Robert   N5RKN
```

---

587. Don't read if you are not in Texas #2

From: rwf@mindspring.com
Date: Sat, 26 Oct 1996 08:58:22 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961026125822.006f409c@mindspring.com>
Rendered body type: text/plain

```
Forgot to say that APRS will be running *if* I can find an active station or
WIDE to digi thru. Anyone know?


Lifted from the ARRL Letter, electronic edition:

rwf@mindspring.com


Albert Einstein explaining radio:

"You see, wire telegraph is a kind of a very, very long cat. You pull his
tail in New York and his head meows in Los Angeles. Do you understand this?"
Einstein then continued: "Radio operates exactly the same way---you send
signals here, they receive them there. The only difference is that there is
no cat."




                 Ralph Fowler, N4NEQ                S.E.R.A. ATV Technical
Advisor
                    rwf@mindspring.com
Atlanta, GA USA
      Web:    http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and
Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS. Ask
me how!
```

---

588. Bye,Bye

From: William Nolle <wa8inz@concentric.net>
Date: Sat, 26 Oct 1996 09:31:14 -0700
To: aprssig@tapr.org
Message-ID: <32723CD2.3903@concentric.net>
Rendered body type: text/plain

```
I didn't think I would ever do this but I have decided to give up running
APRS altogether. I have for a long time now been doing some checking, and
this is not so easy task about where and how my signal is going and
through what digi etc. I had an idea that a certain indivitual was
Budlisting my call and am now convinced of that. After watching WA4DSY
internet server for a long time i noticed the call WA8INZ never shows on
that list. So testing again this morning with me 300W and my stacked
13B2's directed right at a digi that does show up in the list all the
time (By the way I see that digi direct) I never ever see my or my digi's
call show up on that list. When some users are sinking that low to
budlist users because of a dissagreement between two people then i don't
want anything to do with such a group. Therefore I will discontinue using
APRS and will be removing my APRS webpage from the internet. Sorry there
are a great bunch of people on both the sig and those running APRS, but
budlisting users is uncalled for. I will leave the digi up and running in
Huntsville since I won't sink to that persons level. It's been great
while it lasted guys. I have been running APRS pretty near from it's
start and have enjoyed it, but there are some people that just will never
give up. I know I have upset people both here and while running APRS and
i'm sure there are those that will be glad to see me dissapear, and some
dislike the fact that I speak and put down in words what i feel and I had
always thought this was a free country, but I guess there are those that
```

think a dictatorship would be better. I know my letterwriting is not the best in the world and I don't realy have the skills to express myself to well but i'm sure most people got the drift on how I felt. 73 Bill WA8INZ

--

wa8inz@amsat.org
wa8inz@cris.com

589. static scrambled the Digi

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sat, 26 Oct 1996 09:34:43 -0500
To: aprssig@tapr.org, aprs-fl@tapr.org
Message-ID: <19961026143441841.AAA171@dial-12.marianna.fl.digitalexp.com>
Rendered body type: text/plain

Hi All;

Our EPAN wide area digi was becoming less sensitive, with an apparent reduction of about 20db, after several days.

Over the air tests, using voice on the digi's radio, proved that the problem was in the TNC.

Observing the operation, we could see that there were packets being received, but the digi wasn't retransmitting them. After 30 minutes of failing to get the computer to communicate with the TNC, I swapped out the KPC-3, replacing it with my own.

Immediately, it became apparent that there was a receive audio problem, with the TNC Rcv led flickering during incoming packets. Apparently, the Digi TNC, CD command was set to internal instead of software, covering up this symptom.

We couldn't hear anything wrong with the receive audio, so I looked at it on an 'O'scope and found a spike with a very wide trailing edge, occurring randomly, about 18db stronger than the background noise level.

Hooking up the TNC to an HT, with both on battery power, we shut down the 60cps power throughout the house, without affecting the interference.

While walking around the yard, looking for possible sources, we noticed a strong static build up on every piece of metal.

To digress slightly, the Digi is located on top of a sandhill, about 160 feet above the average terrain. The weather for the last week and a half has been clear, windy and abnormally low humidity (20 to 30% instead of our normal 70 to 90%).

Assuming the problem was due to static buildup, I did a hard reset on the TNC, then had no problem reprogramming it. Setting the system up normally, I found that occasionally, a packet would fall entirely between the spikes, resulting in good sensitivity and normal retransmission. When a spike occurred during a packet, it required an incoming signal of at least 6 bars on the receiver, before the packet was clean enough to be retransmitted.

During the night, it rained lightly and the problem went away.

At this point, I am assuming that the static was the entire problem, including the scrambled communication protocol. Has anyone else noticed the KPC-3 being sensitive to static, or was this a random event?

regards,
Joe kf4dys

590. HF APRS Activity.

From: rhiii@mnsinc.com (Richard H.)
Date: Sat, 26 Oct 1996 14:34:46 GMT
To: aprssig@tapr.org
Message-ID: <32722121.79288822@relay.mnsinc.com>
Rendered body type: text/plain

Aside from 10151khz is there any other HF frequency commonly used for APRS ?

Richard/N2JR

591. Re: [APRSSIG:5854] Maps & Longitude Latitude Co-ordinates

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 26 Oct 96 11:02:12 EDT
To: aprssig@tapr.org, <denniswj@aljan.com.au>
Message-ID: <CMM-RU.1.5.846342132.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
> I would like to know if there are any maps on Australia and if you can get a
> listing or Longitude and Latitude co-ordinates world wide.


I can make maps of anyplace in the world from the Digital Chart of the World
CD-ROM.  I will then put them up on the FTP sites..

I have made some of the Austrailian Maps and New Zealand too, they turn out
pretty good.. (This is of course Win/Mac Maps)



By  "listing or Longitude and Latitude co-ordinates world wide"

do you mean lat/lon of cities etc? If so, I have seen this and will go look
for it...  If you mean something else, please explain.


Keith


Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

592. Re: [APRSSIG:5855] Re: Don't read if you are not in Texas

From: Fred Quarles <fredq@bihs.net>
Date: Sat, 26 Oct 1996 12:15:24 -0500
To: aprssig@tapr.org
Message-ID: <3272472C.5F89@bihs.net>
Rendered body type: text/plain

```
Hi Robert, could you give me the details on the Odessa hamfest, I have a
group from Bryan/College Station that may come up...

Thanks...73...Fred Quarles, KC5HHN
```

---

593. [APRSSIG:5859] HF APRS Activity.

From: JOHN.LANGTRY@resonet.com
Date: 26 Oct 1996 17:35:00 +0000
To: aprssig@tapr.org
Message-ID: <"HNGA-3593-3900*/O=ENVOY
 100/ADMD=TELECOM.CANADA/C=CA/"@MHS>
Rendered body type: text/plain

```
Hi again Richard !

Well, ahem, this is going to be from a Canadian perspective, and given
what the bands are these days, here's what I've been able to glean :

1) 10.151 LSB is the main place for APRS packet folks
2) 7.085 LSB appears rarely up here; mostly folks on the West Coast
   of the USA and sometime a few others when 30M is really dead.
3) 18.110 LSB I saw only a couple of stations on there one day,
  Mike KD4EMI and Peter W7LUS-14 (in the big rig), again, it was
  one of those days when 30M was darn near dead.
4) 7.0855 this was one chap on the West coast; dunno if he was
   trying for 7.085 and was just off frequency or not. The band
   dropped out before I could reach him.
5) 14.0963 thru 14.100 LSB there have been some experiments on 20M
within this range; my observations are that most folks will try for
an hour or so, and when they find themselves all alone, QSY back to
30M, grit their teeth and wait for the band to come back.

Also, bear in mind that I run the GATE here in the Toronto Ontario
area, and as such, my rig tends to stay on 10.151 LSB most of the
time; so all kinds of neat stuff could be happening on other bands
that I'm totally unaware of. I was hoping that someone would bring
up the topic on the SIG and I'm curious if any of your other replies
are similar to mine, above.
```

What would really make 20/17M popular is if we could get some of the
DX boys interested; G land leaps instantly to mind. So far, no luck.
We're sending a couple of APRS "ambassadors" armed with disks over there
in another few weeks with the hopes that we can raise some interest.
All it takes is for one or two stations to start playing with APRS,
and bang, it takes off like wild fire. Toronto is a good example, a
year an a half ago, we had maybe, 6 stations on the VHF side; now
my mailing list has over 120 stations (we mail bulletins, tips, etc
via packet) and we've got 8 digipeaters that reach from Buffalo N.Y.
all the way around Lake Ontario on to Peterborough in the North East
and Barrie to the North. (I see this morning, that Rochester N.Y.
are back on testing their digipeater). Like I said, interest is
growing like wild fire.

Sorry to ramble on, hope this helps, and until next time, vy 73 de John
VE3NEC.

---

594. Re: [APRSSIG:5857] Bye,Bye

From: Bob Lorenzini <hwm@netcom.com>
Date: Sat, 26 Oct 1996 07:12:20 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961026070145.187B-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

Bill, I wish you would give it some time before you decide to quit. You
are a major contributor to this group and your absence would be missed
my myself and others. As you know, I have not always agreed with your
opinions but by and large I enjoy your posts.
  Packet wars have always been a fact of life much like the flame wars
here on the internet, the difference being your routing cannot get shut
off here unless you do something really bad. I hope you can resolve your
differences with whoever or route around them but if not, give it some
thought before you dump APRS to which you have given so much.

Bob - wd6dod

---

595. Re: Bye,Bye

From: wa4mej@juno.com (john w dent)
Date: Sat, 26 Oct 1996 14:29:44 PST
To: aprssig@tapr.org
Message-ID: <19961026.142948.4551.1.wa4mej@juno.com>
Rendered body type: text/plain

bill don't give up.. there are more people with you than you know to
loose one good person is like ganning an arm pit full of flees..
john wa4mej
On Sat, 26 Oct 1996 12:44:12 -0500 (CDT) Bob Lorenzini <hwm@netcom.com>
writes:
> Bill, I wish you would give it some time before you decide to quit.
>You
>are a major contributor to this group and your absence would be missed
>my myself and others. As you know, I have not always agreed with your
>opinions but by and large I enjoy your posts.
> Packet wars have always been a fact of life much like the flame wars
>here on the internet, the difference being your routing cannot get
>shut
>off here unless you do something really bad. I hope you can resolve
>your
>differences with whoever or route around them but if not, give it some
>thought before you dump APRS to which you have given so much.
>
>Bob - wd6dod
>
>
>

---

596. Re: [APRSSIG:5859] HF APRS Activity.

From: rwf@mindspring.com
Date: Sat, 26 Oct 1996 18:40:07 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961026224007.00704178@mindspring.com>
Rendered body type: text/plain

At 09:43 AM 10/26/96 -0500, Richard wrote:
>Aside from 10151khz is there any other HF frequency commonly used for APRS ?

Richard- in Florida, several were operating GATES on 80M. When I was there

this winter it seemed to work pretty well. I know Kevin, Mike, and Rich
were doing it. Don't know what happened to the FLGATES though.

Ralph Fowler, N4NEQ , S.E.R.A. Amateur Television Technical Advisor
Atlanta, GA USA
Internet Email: rwf@mindspring.com Pager Email: 7647836@skytel.com
2 way pager: 1 (800) 764-7836
http://www.mindspring.com/~rwf for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
Ask me how!

---

597. Re: [APRSSIG:5858] static scrambled the Digi

From: rwf@mindspring.com
Date: Sat, 26 Oct 1996 18:40:05 -0400
To: aprssig@tapr.org
Message-ID: <2.2.32.19961026224005.006e7e34@mindspring.com>
Rendered body type: text/plain

At 09:42 AM 10/26/96 -0500, Joe in FL wrote:

>
>At this point, I am assuming that the static was the entire problem,
>including the scrambled communication protocol. Has anyone else noticed
>the KPC-3 being sensitive to static, or was this a random event?

Not static, Joe- but a really freaky problem nontheless. I have a KPC3 whose rx data sometimes flashes while the TX is sending data. Full duplex? nope. The radio is a stock GE MVP whose rx oscillator is unpowered when the TX is up. One of these days, I'll try another rig or TNC, but until then, I'll ponder about it.

Your static issue sounds familiar. The TNC on the Huntsville balloon a few weeks ago put out garbled data for the last 1/2 of the flight. I wonder if it was static glitched? It was usinf a zero pressure balloon which was like a plastic garbage bag instead of the latex type weather balloon we usually use.

I never heard from the guy in Huntsville (KE4ROC, I think) whose TNC it was as to whether it recovered or has to be reset/repaired.

Ralph Fowler
rwf@mindspring.com

Albert Einstein, explaining Radio:

"You see, wire telegraph is a kind of a very, very long cat. You pull his
tail in New York and his head meows in Los Angeles. Do you understand this?"
Einstein then continued: "Radio operates
exactly the same way---you send signals here, they receive them there. The
only difference is that there is no cat."- lifted from the ARRL Letter,
Electronic Edition.

---

598. 80M in FL Re: HF APRS Activity.

From: n2czf@magg.net (Richard Garcia)
Date: Fri, 25 Oct 1996 23:46:21 -0400
To: aprssig@tapr.org
Message-ID: <199610262348.TAA24488@grumpy.magg.net>
Rendered body type: text/plain

Not enough interest to support the expense for many of us on 2 full gateways runing 24hrs a day, it is also a big risk here in Lighting Country to leave an unattended station. Way I see it if my 30M radio get's smoked at least I have a radio to fall back on, if both are in operation and both get smoked it will probably be a few years till I can afford a new HF rig.

Another problem we found is that most people were disinterested in using the FLGATE. Everyone wanted to go out on 30M where the "action" was so even when the FLGATE was on 80M no one was on except for the FLGATES, everyone else (mostly) stayed using GATE.

>At 09:43 AM 10/26/96 -0500, Richard wrote:
>>Aside from 10151khz is there any other HF frequency commonly used for APRS ?
>
>
>Richard- in Florida, several were operating GATES on 80M. When I was there

>this winter it seemed to work pretty well. I know Kevin, Mike, and Rich
>were doing it. Don't know what happened to the FLGATES though.
>
>
>
>Ralph Fowler, N4NEQ , S.E.R.A. Amateur Television Technical Advisor
>Atlanta, GA USA
>Internet Email: rwf@mindspring.com   Pager Email: 7647836@skytel.com
>2 way pager: 1 (800) 764-7836
>http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and Ham info
>My hobby is tracking Vehicles and other things using Ham Radio and APRS.
>Ask me how!
>
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net   (E-Mail)
http://www.magg.net/~n2czf   (Personal)
http://www.magg.net/~n2czf/aprs.html   (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)

599. Wind Barb

From: Tom Fleming N9SZF <n9szf@skywarn.cs.wisc.edu>
Date: Sat, 26 Oct 1996 19:05:16 -0500 (CDT)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961026185151.29132A-100000@skywarn.cs.wisc.edu>
Rendered body type: text/plain

At my last trip to the Sullivan NWS, I noties that every map that dealt with
winds used wind barbs. This is something to think about for a future release.

For the people that might not know what a wind barb is. This is a stick
showing wind direction by pointing into it and show the wind speed with
"flags" on the end at 5 mph inc.

```
 O     0     0     0     0     0
 |     |     |     |     |     |
 |     |     |     |     |     |
 |     |     |     |     |     |
 |     |     |     |     |-    |--
 |     |     |-    |--   |--   |--
 |-    |--   |--   |--   |--   |--

 5     10    15    20    25    30
mph   mph   mph   mph   mph   mpg
```

Tom Fleming - N9SZF
South Central Wisconsin NCS
Dane County ARES

600. Re: [APRSSIG:5865] Re: HF APRS Activity.

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Sat, 26 Oct 1996 20:05:27 -0400 (EDT)
To: aprssig@tapr.org
Message-ID: <199610270005.UAA08541@babbage.csee.usf.edu>
Rendered body type: text/plain

At 05:40 PM 10/26/96 -0500, you wrote:
>At 09:43 AM 10/26/96 -0500, Richard wrote:
>>Aside from 10151khz is there any other HF frequency commonly used for APRS ?
>
>
>Richard- in Florida, several were operating GATES on 80M. When I was there
>this winter it seemed to work pretty well. I know Kevin, Mike, and Rich
>were doing it. Don't know what happened to the FLGATES though.

I believe that the tests were to prove that 80M is a viable method to
connect Florida together. I believe that they might be used in an emergency
(ie hurricane) where FLGATE (or is GATEFL) would prove to be a more useful
than 30 meters.

Paul
Paul E. Knupke, Jr.   *
knupke@csee.usf.edu   *
Largo, Florida   * You can fight
Amateur Radio KR4YL   * Without ever winning
Fidonet 1:3603/570.0   * But never ever win

```
Assistant E.C. Pinellas A.R.E.S.    *  Without a fight
Florida Contest Group Member        *           ... Neil Peart
Trustee KE4ZYU/R 224.78 Clearwater  *               "Resist" by RUSH
```

---

601. broken link to wx symbols chart

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sat, 26 Oct 1996 20:31:35 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <3272AD66.9CC@cyberenet.net>
Rendered body type: text/plain

For those that may be interested, I found this chart of graphics used on wx charts at a NWS site. You can view it by going to my site (you'll need to add the http://www. to make it work), I've purposely made the link broken so those without browsers won't be hurt by the binary file in their juno-style mailboxes. Probably not possible to create these symbols in DosAPRS (comment please Bob), but should be possible in Win/MACaprs (Keith/Mark ?).

73...Bob

www.cyberenet.net/~n2iph/wxkey.gif
[Attachment: wxkey.gif; image/gif; 18,865 bytes]

---

602. SRI 'bout that

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sat, 26 Oct 1996 20:56:16 -0400
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <3272B330.4C64@cyberenet.net>
Rendered body type: text/plain

Sorry all,

Thought I had broken the link but forgot to knock off the www. ! So those of you with text-only email accounts will have to ignore the link. The rest can see what I was talking about with out having to go to my site, but of course you are still welcome to.

73...Bob

cyberenet.net/~n2iph/frontpg.html

---

603. Re: Don't read if you are not in Texas & Odessa Hamfest

From: N5RKN@aol.com
Date: Sun, 27 Oct 1996 01:02:59 -0400
To: aprssig@tapr.org
Message-ID: <961027010259_341409338@emout07.mail.aol.com>
Rendered body type: text/plain

```
Hope to catch the College Station crew here.  You might also check out our
webpage at www.netwestonline.com/bluebird/radio.htm
  Talk-in is 145.470- (88.5tone).  Attendance will be 2-3000 over 2 days.  We
have
over 2 dozen dealers in attendance.  They come from Pennsylvania, Utah,
Virginia,
Missouri, and of course surrounding states and yes...Texas.
  WB0W, Texas Bugcatcher, KCOM, Itech, Bearcat, Battery Tech, Falkner Ent.,
and many more will be here.
  Hope to see the gang here.   The Ector County Coliseum, Building C, 42nd &
Andrews Highway.  Nov 2nd & 3rd (8-5 Sat, 9-2 Sun).
   73'  Robert   N5RKN   915-335-7980

******** Please note:  To the APRS crew.  Sorry for posting this via the
board.  I'll
try to respond directly next time.
```

---

604. Re: [APRSSIG:5857] Bye,Bye

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Sun, 27 Oct 1996 01:08:20 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961027060820.00694794@mail.cyberstreet.com>
Rendered body type: text/plain

At 09:35 AM 10/26/96 -0500, you wrote:
>I didn't think I would ever do this but I have decided to give up running
>APRS altogether.

Bill - I am fairly new to the group, a couple of months. I find your input

refreshing and informative. Maybe that's because I don't carry the baggage
or ego some of the oldtimers have. Pesonally I wish you would re-consider.

>this is not so easy task about where and how my signal is going and
>through what digi etc. I had an idea that a certain indivitual was
>Budlisting my call and am now convinced of that. After watching WA4DSY
>internet server for a long time i noticed the call WA8INZ never shows on
>that list. So testing again this morning with me 300W and my stacked
>13B2's directed right at a digi that does show up in the list all the
>time (By the way I see that digi direct) I never ever see my or my digi's
>call show up on that list. When some users are sinking that low to
>budlist users because of a dissagreement between two people then i don't
>want anything to do with such a group. Therefore I will discontinue using
>APRS and will be removing my APRS webpage from the internet. Sorry there
>are a great bunch of people on both the sig and those running APRS, but
>budlisting users is uncalled for. I will leave the digi up and running in
>Huntsville since I won't sink to that persons level. It's been great
>while it lasted guys. I have been running APRS pretty near from it's
>start and have enjoyed it, but there are some people that just will never
>give up. I know I have upset people both here and while running APRS and
>i'm sure there are those that will be glad to see me dissapear, and some
>dislike the fact that I speak and put down in words what i feel and I had
>always thought this was a free country, but I guess there are those that
>think a dictatorship would be better. I know my letterwriting is not the
>best in the world and I don't realy have the skills to express myself to
>well but i'm sure most people got the drift on how I felt. 73 Bill WA8INZ
>
>--
>
> wa8inz@amsat.org
> wa8inz@cris.com
>
>
73 cu Ron"KD4AMS"

---

605. RE: [APRSSIG:5857] Bye,Bye

From: "William Yoreo" <K1TRS@msn.com>
Date: Sun, 27 Oct 96 11:57:27 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL05.199610271157100143@msn.com>
Rendered body type: text/plain

Bill, This Bill K1TRS in Conn. I won't change what you are doing because of an other operator's activities. If what you are doing is enjoyable to you and of help to others...then continue. Amateur radio is becoming another area that people like to try and control and be the 'most important station' in thier area. This happened with the growth of FM repeaters and Packet Digis in almost every area. I see it to a small degree here in CT. Everyone wants to be a WIDE-RELAY. To see thier call with the Green Star ! It seems everyone wants to control somthing.

Amateur radio is a hobby that should provide enjoyment and should try to help others.

You know you are doing a good job and that your efforts are to help not hurt. Don't let the people who for one reason or another control your enjoyment of the hobby.

73 Bill

k1trs@msn.com

From: aprssig@tapr.org on behalf of William Nolle
Sent: Saturday, October 26, 1996 9:35 AM
To: aprssig@tapr.org
Subject: [APRSSIG:5857] Bye,Bye

I didn't think I would ever do this but I have decided to give up running
APRS altogether. I have for a long time now been doing some checking, and
this is not so easy task about where and how my signal is going and
through what digi etc. I had an idea that a certain indivitual was
Budlisting my call and am now convinced of that. After watching WA4DSY
internet server for a long time i noticed the call WA8INZ never shows on
that list. So testing again this morning with me 300W and my stacked
13B2's directed right at a digi that does show up in the list all the
time (By the way I see that digi direct) I never ever see my or my digi's

call show up on that list. When some users are sinking that low to budlist users because of a dissagreement between two people then i don't want anything to do with such a group. Therefore I will discontinue using APRS and will be removing my APRS webpage from the internet. Sorry there are a great bunch of people on both the sig and those running APRS, but budlisting users is uncalled for. I will leave the digi up and running in Huntsville since I won't sink to that persons level. It's been great while it lasted guys. I have been running APRS pretty near from it's start and have enjoyed it, but there are some people that just will never give up. I know I have upset people both here and while running APRS and i'm sure there are those that will be glad to see me dissapear, and some dislike the fact that I speak and put down in words what i feel and I had always thought this was a free country, but I guess there are those that think a dictatorship would be better. I know my letterwriting is not the best in the world and I don't realy have the skills to express myself to well but i'm sure most people got the drift on how I felt. 73 Bill WA8INZ

--

wa8inz@amsat.org
wa8inz@cris.com

---

606. Re: [APRSSIG:5852] Re: Remote U-II's

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Sun, 27 Oct 1996 09:32:11 -0600
To: aprssig@tapr.org
Message-ID: <199610271430.OAA14005@smtp-gw01.ca.us.ibm.net>
Rendered body type: text/plain

>OK, but what about those of us who use TACTICAL CALLSIGNS for the MYCALL and
>satisfy the ID requirement by including the actual station callsign in the
>BText? Means that my WX stations can no longer post on maps as MCI, MKC,
>etc....
>
>Bummer!!!! I'm vain as the next guy but even >I< get tired of seeing 8 or 9
>posits on the map all with MY callsign on them!

Seems to me this could be fixed by making the WX parsing a tad smarter. I ran into this bug, too, while I was running my WX station standalone. Only noticed it because I occasionally monitor the station from somewhere else. I've seen other WX stations show up with garbage in their stats, though I don't know if for the same reason. I think if the parsing doesn't yield numbers for each data group, APRS could assume the packet is not really WX data and ignore the "data".

73.
Tony Drumm
ARS AA0SM

---

607. BYE BYE FROM BILL

From: ddobbins@juno.com (David S Dobbins)
Date: Sun, 27 Oct 1996 07:19:18 PDT
To: aprssig@tapr.org
Message-ID: <19961027.073246.4495.1.ddobbins@juno.com>
Rendered body type: text/plain

>From my perspective, Bill/INZ, has been a major contributor to this SIG. Like others have mentioned, I don't always agree with Bill's comments, and think he's too quick on the draw at times, perhaps a reflection of a headstrong personality. I get that too at times. But at least he has something to contribute, and has regularly done that when others didn't have anything to say.

For some unknown reason, Bill has managed to PO the fellow who has locked him out of the digi, and thus loss of primary path. Bill, and other readers: I would find it a greater challenge to resolve that issue, and make whatever changes you need to make to get him to allow you digi privileges again. APRS didn't do it, the SIG didn't do it. YOU did it, so YOU fix it. Maybe you won't be able to resolve it, but that's no reason to give up APRS which has brought incredible interest to packet. In the meantime, keep the station running and the SIG alive with your input.

```
David S. Dobbins             Greater Northwest APRS Coordinator
POB 553                            Covering MT, OR, ID, WA
404 N. Third St                  APRS Freqs: 145.75, 145.79
Pe Ell, WA 98572-0553
Tel: (360) 291-3707          Email:  ddobbins@juno.com
```

608. Bad operating example in KPC-3 Manual!

From: rwf@mindspring.com
Date: Sun, 27 Oct 1996 08:52:30 -0500
To: aprssig@tapr.org
Cc: support@kantronics.com
Message-ID: <3.0b19.32.19961027085225.006f22dc@mindspring.com>
Rendered body type: text/plain

```
An APRS user in another area (whom I correspond with via telephone) was
using a strange path a while ago.  When I realized this, I helped him
choose a better path and found that he got the bogus path straight out of
the KPC-3 manual!

I am looking at one of the newer manuals right now.  It has the GPS
supplement bound right into the manual.  I'm not sure if the old supplement
that was distributed by itself was also affected.

The example in my book is on page B8 in the sectionwhere the LTP (GPS
beacon path) is set.  The manual suggests using a path of :  APRS via
WIDE,RELAY,RELAY

A seasoned APRS user would see the problem of using RELAY as anything other
than the first entry, but this person was kind of new and didn't yet know
this.

I hope someone at Kantronics will see this and see that the manual gets
corrected next time around.  All the rest of us should help new KPC-3 users
make sure they know that the example is incorrect.

The last time someone ended his path in RELAY around here, it was a guy in
a plane beaconing very often! Talk about QRM. Heard him for hundreds of
mikes.  I almost got beheaded because of the QRM to the TV every minute
when the XYL was trying to watch a movie shed waited months to see.  (the
APRS and TV antennas are *very close* at my remote WX site).




Ralph Fowler, N4NEQ ,  S.E.R.A. Amateur Television Technical Advisor
Atlanta, GA USA
Internet Email:  rwf@mindspring.com      Pager Email:  7647836@skytel.com
  2 way pager: 1 (800) 764-7836
http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
 Ask me how!
```

---

609. Re: [APRSSIG:5875] Re: Remote U-II's

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 26 Oct 1996 15:32:57 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <199610271534.KAA29856@grumpy.magg.net>
Rendered body type: text/plain

```
I see the same thing with several WX stations in this state. Seems that the
U-II's are not set up correctly or are damaged, one or the other. I set a
lot of them with no data, just a wind direction and speed, and some with a
wind speed  that makes no sense, it is always showing 5 or 7 mph. Bob can
something be done abut this with the program ?

EDITED>>
>I've seen other WX stations show up with garbage in their stats, though I
>don't know if for the same reason.  I think if the parsing doesn't yield
>numbers for each data group, APRS could assume the packet is not really WX
>data and ignore the "data".
>
>73.
>Tony Drumm
>ARS AA0SM
>
>
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                (E-Mail)
http://www.magg.net/~n2czf                             (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

610. Re: [APRSSIG:5857] Bye,Bye

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sun, 27 Oct 1996 10:25:47 -0600
To: aprssig@tapr.org
Message-ID: <19961027162545648.AAA187@dial-10.marianna.fl.digitalexp.com>
Rendered body type: text/plain

```
In a message dated Saturday, October 26, 1996, Bill wrote;

>I didn't think I would ever do this but I have decided to give up running
>APRS altogether. I have for a long time now been doing some checking, and
>this is not so easy task about where and how my signal is going and
>through what digi etc. I had an idea that a certain indivitual was
>Budlisting my call and am now convinced of that.

I'm sorry to hear that you are letting someone else determine your
actions, Bill.

Look at it this way. Someone who would put a digi callsign in his
Suppress list, will probably run out of room for all the people he
dislikes, since the list in the TNC is limited. As APRS continues to
grow, he'll find other people to be pissed at. Just ignore him
completely and he will eventually erase your call sign, to put someone
elses in there (someone more emotionally satisfying, in their response
to his petty action).

regards,
Joe kf4dys
```

---

611. Re: Bye Bye

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sun, 27 Oct 1996 10:46:29 -0600
To: aprssig@tapr.org
Message-ID: <19961027164627944.AAA190@dial-28.chipley.fl.digitalexp.com>
Rendered body type: text/plain

```
Just checked my HEARD listing and found this;

WA8INZ-7* 10/27/96  11:21:05

Glad to see you left it on the air, Bill.

regards,
Joe kf4dys
```

---

612. Re: [APRSSIG:5877] Bad operating example in KPC-3 Manual!

From: James Duncan <ku0g@sprynet.com>
Date: Sun, 27 Oct 1996 11:47:11 -0800
To: aprssig@tapr.org
Message-ID: <199610271947.LAA03130@m1.sprynet.com>
Rendered body type: text/plain

```
At 08:50 10/27/96 -0600, you wrote:
>An APRS user in another area (whom I correspond with via telephone) was
>using a strange path a while ago.  When I realized this, I helped him
>choose a better path and found that he got the bogus path straight out of
>the KPC-3 manual!
>
>I am looking at one of the newer manuals right now.  It has the GPS
>supplement bound right into the manual.  I'm not sure if the old supplement
>that was distributed by itself was also affected.
>
>The example in my book is on page B8 in the sectionwhere the LTP (GPS
>beacon path) is set.  The manual suggests using a path of :  APRS via
>WIDE,RELAY,RELAY
>
>A seasoned APRS user would see the problem of using RELAY as anything other
>than the first entry, but this person was kind of new and didn't yet know
>this.
>
>I hope someone at Kantronics will see this and see that the manual gets
>corrected next time around.  All the rest of us should help new KPC-3 users
>make sure they know that the example is incorrect.
>
>The last time someone ended his path in RELAY around here, it was a guy in
>a plane beaconing very often! Talk about QRM. Heard him for hundreds of
>mikes.  I almost got beheaded because of the QRM to the TV every minute
>when the XYL was trying to watch a movie shed waited months to see.  (the
>APRS and TV antennas are *very close* at my remote WX site).
```

>
>
>
>
>Ralph Fowler, N4NEQ , S.E.R.A. Amateur Television Technical Advisor
>Atlanta, GA USA
>Internet Email: rwf@mindspring.com   Pager Email: 7647836@skytel.com
> 2 way pager: 1 (800) 764-7836
>http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and Ham info
>My hobby is tracking Vehicles and other things using Ham Radio and APRS.
> Ask me how!
>
I am forwarding a copy of this message to the Kantronics people immediately.

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

613. Re: [APRSSIG:5880] Re: Bye Bye

From: James Duncan <ku0g@sprynet.com>
Date: Sun, 27 Oct 1996 12:03:43 -0800
To: aprssig@tapr.org
Message-ID: <199610272003.MAA05555@m1.sprynet.com>
Rendered body type: text/plain

OK, I've stayed out of this one long enough without opening my mouth so watch out!!!

I do not know how you have dealt with the other APRS users in your area, Bill, but I DO know how you've dealt with your fellow SIG members over the past year or so!

You and I do not always agree on things and I suspect that this will continue to be the case, not only with me but with others also.

On many occasions you have posted very terse and angry commentary on this SIG. You have bashed others repeatedly out of anger or misunderstanding. I recall a particular bashing of N4NEQ (Ralph) in which you attacked him publicly about some crystals that you had apparently loaned to him.

Picking up your toys and going home mad is NOT the way to deal with the problems you are now having in your home area. Maybe it's time to make some public apologies then perhaps you would find yourself welcomed back onto the digipeater! I don't know if that would help or not but without hearing both sides of the story it's hard to determine who is at fault.

I do know that locking a packet user out of a digipeater/network is usually the absolute last resort when an operator either refuses to cooperate or work within the gentlemen's agreements that we all try to live by.

I ENCOURAGE you to make contact with the digipeater sysops and (nicely) ask for an explanation of the rationale for locking you out. I would also encourage you to work WITH those in your immediate area.

You DO make a positive contribution to the APRS SIG the majority of the time and I would hate to see you leave but if you are REALLY fed up, then that's probably the best thing you can do for yourself. I am just sorry to see all of your efforts with the web page and so forth go down the tubes and hope that you will consider trying to work things out in Alabama with your neighbors.

Good luck!
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@sprynet.com

---

614. javAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 27 Oct 96 15:56:36 -0500
To: <aprssig@tapr.org>
Message-ID: <199610272052.PAA20877@bridge.net>
Rendered body type: text/plain

I have fixed the problem with Netscape 3.0 and Windows 95, although I don't know how. For the programming aware among you, the problem was that sometimes the program would give up on parsing a string that was valid, for no reason that I could determine. Adding a dummy assign to the program before where it would give up solved the problem. This error only

```
occurred under NS3/W95, not with Mac/NS3, or NS2/W95. It seems to be some
strange concurrency bug in the just-in-time Java compiler in NS3 for W95.
I've sent my comments to Netscape but haven't heard anything from them.

In any case, javAPRS 0.9b2 is up on the TAPR server, and all who have
javAPRS on their web pages should upgrade. Using version 0.8b(x) will
prevent NS3/W95 users from seeing any station that includes time info
(digis and stand-alone trackers/WX work fine).

73 de Steve KO4HD
```

---

615. 6M Frequency Proposal

From: n2czf@magg.net (Richard Garcia)
Date: Sat, 26 Oct 1996 21:22:00 -0400
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <199610272123.QAA12802@grumpy.magg.net>
Rendered body type: text/plain

```
Ok nuff is enough,  some of us have spoken about 6M and today I saw a BLN on
my screen that someone was listening to 50.62, seems that the time has come
to get serious. Previously I posted a message RE: the 50.62 frequency choice
and how it has quite a few downfalls. For the past 2 or so months after
posting that message I have been listening to 51.68 and 51.18 in the SE
Florida area and have heard no activity at all.

This frequency pair is recomended by the ARRL Repeater Directory, I know I
know they are not the final word on frequency choices (I do not want to
start anything all over again) but it is was a place to start. I would like
anyone with 6M capability to listen to 51.680 and 51.180 and give me some
input on it from your area. I am prepairing to submit a request to get this
pair assigned as a an APRS frequency in the state of Florida and it would be
nice if we can all do the same as we have tried with 145.79. I know that CA
may be a problem since most EVERYTHING is tied up already but this is to be
expected.

BTW this pair is exactly that a pair suggested for a DIGITAL REPEATER. Why
in the world they would suggest that I have no idea, but we can just use the
output for regular digi's and if anyone has the inclination to build a
repeater then they have the input for their disposal. 51.180 is the Input
and 51.68 is the output I am suggesting 51.68 as the APRS frequency since it
is the closest suggestion to the normal FM Sub-Band for SWR considerations.
73's Rich N2CZF
Jupiter Farms Florida
n2czf@magg.net                                                (E-Mail)
http://www.magg.net/~n2czf                             (Personal)
http://www.magg.net/~n2czf/aprs.html          (Florida APRS)
http://www.magg.net/~n2czf/brothers.html   (Brothers to the Rescue Human
Rights Group)
```

---

616. Re: [APRSSIG:5880] Re: Bye Bye

From: William Nolle <wa8inz@concentric.net>
Date: Sun, 27 Oct 1996 16:55:24 -0800
To: aprssig@tapr.org
Message-ID: <3274047C.BEC@concentric.net>
Rendered body type: text/plain

```
Foor, Joe wrote:
>
> Just checked my HEARD listing and found this;
>
> WA8INZ-7* 10/27/96  11:21:05
>
> Glad to see you left it on the air, Bill.
>
> regards,
> Joe kf4dys

I want to make it clear that my digi will stay up and running. I don't
want to punish regular users of it because of personal dissagreements
with someone.
--

               wa8inz@amsat.org
               wa8inz@cris.com
```

---

617. Re: GPS-20 question

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 27 Oct 96 17:12:06 EST
To: <aprssig@tapr.org>
Message-ID: <961027221205_71301.3106_FHJ44-1@CompuServe.COM>
Rendered body type: text/plain

Mel wrote -

>...am having trouble getting the GPS-20 to accept input from the
>Newton. It may be a cabling problem, since the Newton is RS-422 and I'm not
>sure whether it thinks it is serial or appletalk network. I got the cable
>hookup for Macs a couple days ago, and will probably try that this weekend.

The Mac cable configuration may be your key, Mel, though you obviously have the at least the GPS output wired right because otherwise you'd see nothing at all on the Newton. It is not necessary to use RS422 adapters, as all you have to do is use a specific TXD lead (I forget which one... "TXD-", I think) as the functional equivalent of RS232 TXD against data ground. While the 422 and 232 specs don't seem like they're compatible, Apple's implementation of 422 is little more than 232 with differential drivers.

I've had no trouble using both a GPS-45 and an old Magnavox 4200 with my Newtons. You might want to know that, to save energy, AppleTalk is not enabled on the Newton unless the application is specifically looking for AppleTalk services. So this means that any serial program you're using (TermLimit, maybe?) doesn't have to worry about running interference against AppleTalk protocols.

However, unless I'm mistaken the GPS-20 should cold-start without any external encouragement. My guess is that there is another problem, unrelated to your serial interface.

...mike/N0QBF

618. Map data from remote U2000

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Sun, 27 Oct 1996 16:37:44 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961027163121.13945C-100000@ns1>
Rendered body type: text/plain

I have an Ultimeter 2000 set up remotely. What follows is an example of its packets. I get the blue dot but no wind direction indicator from the dot or any data on screen when it is selected with the (n), or when (W)x, (D)isplay, (T)emp (I think thats the sequence) options are turned on.

```
WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046
```

Can you tell what I may have set wrong. Using PacComm Tiny 2

Thanks.

```
Geoff Peacock                                                      '''
KD4GOE                                                            (o o)
______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                             (334) 405-4600
```

619. Re: [APRSSIG:5887] Map data from remote U2000

From: James Duncan <ku0g@sprynet.com>
Date: Sun, 27 Oct 1996 15:34:05 -0800
To: aprssig@tapr.org
Message-ID: <199610272334.PAA11743@m1.sprynet.com>
Rendered body type: text/plain

At 16:45 10/27/96 -0600, you wrote:

```
>I have an Ultimeter 2000 set up remotely.  What follows is an example of
>its packets.  I get the blue dot but no wind direction indicator from the
>dot or any data on screen when it is selected with the (n), or when (W)x,
>(D)isplay, (T)emp (I think thats the sequence) options are turned on.
>
>
>WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
>WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
>WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046
>
>Can you tell what I may have set wrong.  Using PacComm Tiny 2
```

```
>
>Thanks.
>
>Geoff Peacock                                                        '''
>KD4GOE                                                              (o o)
>______________________________________________________________oOO__( )__OOo_
>geoff@maf.mobile.al.us                                            (334) 405-4600
>
Looks like you need to change the path from GPS to WX.  Am I right that APRS
looks for the WX and then knows that the data that follows is weather node
data???

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@sprynet.com
```

620. Re: Bye Bye

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sun, 27 Oct 1996 17:51:28 -0600
To: aprssig@tapr.org
Message-ID: <9610271751.AA28296@oscar.telalink.net>
Rendered body type: text/plain

```
Bravo, well said.

Bruce, KQ4TV

> OK, I've stayed out of this one long enough without opening my mouth
> so watch out!!!
>
> ----  Snip  ______
>
> On many occasions you have posted very terse and angry commentary on
> this SIG.  You have bashed others repeatedly out of anger
> or misunderstanding.
>
> ----  Snip  ______
>
> I ENCOURAGE you to make contact with the digipeater sysops and
> (nicely) ask for an explanation of the rationale for locking you out.
> I would also encourage you to work WITH those in your immediate area.
>
> You DO make a positive contribution to the APRS SIG the majority of
> the time and I would hate to see you leave but if you are REALLY fed
> up, then that's probably the best thing you can do for yourself.  I
> am just sorry to see all of your efforts with the web page and so forth
> go down the tubes and hope that you will consider trying to work
> things out in Alabama with your neighbors.
>
> Good luck!
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail:  ku0g@sprynet.com
>


--
***************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Never ask what sort of computer a guy drives.              *
* If he's a Mac user, he'll tell you.                         *
* If not, why embarrass him?"    -- Tom Clancy                *
***************************************************************
```

621. Re: [APRSSIG:5886] Re: GPS-20 question

From: TCox17892@aol.com
Date: Sun, 27 Oct 1996 19:34:25 -0500
To: aprssig@tapr.org
Message-ID: <961027193424_133342930@emout12.mail.aol.com>
Rendered body type: text/plain

```
>Mel wrote -
>
> >...am having trouble getting the GPS-20 to accept input from the
> >Newton.

Even if wiring is correct, GPS 20 ignores commands that are incorrect.  Note
that the checksum shown in the documentation is not required, but the
asterisk, C/R, and L/F are all required, and in that order.
```

622. leaving the sig

From: henryvb <henryvb@dpliv.com>
Date: Sun, 27 Oct 1996 19:51:15 -0600
To: aprssig@tapr.org
Message-ID: <32741193.6861@dpliv.com>
Rendered body type: text/plain

```
This is now the 3rd time (that I know of) that this indivudual has
crybabied to the SIG that he was packing his dolls and dishes and
leaving the SIG/APRS/whatever.  If someone wants to leave, goodbye.  I'm
getting sick of seeing all the "oh don't leave us" messages (5 of 17 in
this digest alone), and would be willing to bet that all this individual
is looking for is to have his ego stroked by everyone telling him how
valuable he is.

Time for the next topic.

Henry
```

623. Re: BAND OPENING 10-27-96

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Sun, 27 Oct 1996 21:47:43 EST
To: aprssig@tapr.org
Message-ID: <19961029.082842.4551.0.WD4CQE@juno.com>
Rendered body type: text/plain

```
Here is list of some stations heard into Crossville, Tennessee.
WD8NEE-10
KB8VBE
WB8YUS-4
KB8OTL
N8AJO-10
KB8VEE
KB8VOT-10
KR4OL
KD4SXP
```

624. Re: [APRSSIG:5845] Re: Remote U-II's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 22:15:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027221316.25462C-100000@arctic>
Rendered body type: text/plain

```
On Fri, 25 Oct 1996, Geoff Peacock wrote:

> Another question....does the packet mode of the 2000 work w/aprs or
> should I keep it in the gps mode ?

ANSWER:  THe U-2000 should be in data logging mode if used locally.  It
should also be in the data loggig mode if used remotely too.  This
requires a GPS capable TNC to do the timing of packets.  The U-2000 packet
mode should not be used...

 Reply mail addr: wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

625. Re: [APRSSIG:5891] leaving the sig

From: leeb@hargray.com (Lee Bradley)
Date: Sun, 27 Oct 1996 22:11:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199610280311.WAA15917@fern.hargray.com>
Rendered body type: text/plain

```
>
>Time for the next topic.
>
HEAR HEAR!!!!!!
"A mature person is one..who is able to be objective
even when deeply stirred emotionally." (Eleanor Roosevelt)
and "when ye encounter disbelivers, strike off their heads."
(The Koran, XLVII)
```

626. Re: [APRSSIG:5850] Re: Sailboats and APRS.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 22:22:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027221626.25462D-100000@arctic>
Rendered body type: text/plain

```
On Fri, 25 Oct 1996, Clifford Buttschardt wrote:

> Along with a few others I am a sailboater with an interest in power
> conservation too.  If it would be possible to turn off the beacon easily
> with a single command it would be most useful!  Cliff Buttschardt K7RR

APRSdos REPLY/COMMENT: Understood, but your beacon is your status packet.
It should be maintained up to date with your current intentions if
unerway.  THats where you tell folks your next port, ETA, fuel and water
status, etc....  Oh, at 1 packet every 15 minutes the cost is .3 % of 20
amps or about 60 ma average power.  Compared to probably 1500 ma just for
your receiver, its not worth turning off....in my opinion, hi hi

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

627. Re: [APRSSIG:5852] Re: Remote U-II's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 22:40:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027223824.25462J-100000@arctic>
Rendered body type: text/plain

```
On Fri, 25 Oct 1996, James Duncan wrote:

> At 08:32 10/25/96 -0500, you wrote:
> >I figured out what is going on with remote U-II's....
> >...Make the BText only contain the posit and no text.
> >
> >I would like for the BText to contain some other info, but havent figured
> >out how I want to do that yet.  So for now, cut the BText to POSIT only.
> >
> OK, but what about those of us who use TACTICAL CALLSIGNS for the MYCALL and
> satisfy the ID requirement by including the actual station callsign in the
> BText?  Means that my WX stations can no longer post on maps as MCI, MKC,

APRSdos REPLY/COMMENT: Hummh..... Ill keep working on it...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

628. Daylight time AND FADE tip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 22:49:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027224247.25462K-100000@arctic>
Rendered body type: text/plain

```
TIPS OF THE WEEK:  Use the alt-S-OTHER-ZONE command to change your UTC
offset back to standard time.  Then FILE-DOS to change  your PC time, then
alt-S-SAVE to make the change permanent (till spring).

APRS TIDBIT.  Ever wonder why BK files from other people load up with
no one faded to gray, while yours are?

Simple, if you load a backup file with your call as the first station,
then APRS knows you saved the file and therefore it preserves the oldness
of old packets.  If, however, you load a file that was saved by someone
else, then APRS always sets CONTROLS-FILTERS-FADE to OFF because of course
the file is old and no one wants to see everyone faded....

Oh, if you turn FADE off, tho it will revert to ON again after 2 hours...

Just thought you'd like to know...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

629. Re: [APRSSIG:5860] Re: Maps & Longitude Latitude Co-ordinates

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 23:00:43 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027225846.25462L-100000@arctic>
Rendered body type: text/plain

On Sat, 26 Oct 1996, Keith Sproul wrote:

> I can make maps of anyplace in the world from the Digital Chart of the World
> CD-ROM. I will then put them up on the FTP sites..

APRSdos REPLY/COMMENT: Keith, if you would tell us the format and/or how
to read the Win/Mac maps, then several of us could write a conversion
routine so that we could build multiple DOS maps from your maps...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

630. Re: [APRSSIG:5877] Bad operating example in KPC-3 Manual!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 23:31:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027233027.25462N-100000@arctic>
Rendered body type: text/plain

On Sun, 27 Oct 1996 rwf@mindspring.com wrote:

> choose a better path and found that he got the bogus path straight out of
> the KPC-3 manual!
> The example in my book is on page B8 in the sectionwhere the LTP (GPS
> beacon path) is set. The manual suggests using a path of : APRS via
> WIDE,RELAY,RELAY

APRSdos REPLY/COMMENT: ABSOLUTELY! I found that in the supplementover a
year ago and WROTE them to change it. If they havent, then that is a BIG
problem!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

631. Re: [APRSSIG:5878] Re: Remote U-II's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 23:35:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027233410.25462P-100000@arctic>
Rendered body type: text/plain

On Sun, 27 Oct 1996, Richard Garcia wrote:

> lot of them with no data, just a wind direction and speed, and some with a
> wind speed that makes no sense, it is always showing 5 or 7 mph. Bob can
> something be done abut this with the program ?

APRSdos REPLY/COMMENT: SOrry, but the above statement doesnt justify my
tearing apart APRS. 5 to 7 MPH seems like a perfectly valid wind speed to
me... If there is no rain gage, then there is no other data except for
temperature...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

632. Re: [APRSSIG:5887] Map data from remote U2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 23:44:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027234336.25462R-100000@arctic>
Rendered body type: text/plain

On Sun, 27 Oct 1996, Geoff Peacock wrote:

> I have an Ultimeter 2000 set up remotely. What follows is an example of
> its packets. I get the blue dot but no wind direction indicator from the
>
> WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
> WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046

APRSdos REPLY/COMMENT: I will need you to send me the exact format as
APRS displays it on the P-List if you want me to figure out anything...

Reply mail addr: wb4apr@amsat.org

```
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

633. Re: [APRSSIG:5888] Re: Map data from remote U2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Oct 1996 23:46:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961027234526.25462S-100000@arctic>
Rendered body type: text/plain

```
On Sun, 27 Oct 1996, James Duncan wrote:

> Looks like you need to change the path from GPS to WX.  Am I right that APRS
> looks for the WX and then knows that the data that follows is weather node
> data???

APRSdos REPLY/COMMENT:  APRS does recognize the GPS address.  Even I dont
remember if its accepts "WX"...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

634. Re: [APRSSIG:5891] leaving the sig

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Mon, 28 Oct 1996 07:12:36 -0800
To: aprssig@tapr.org
Message-ID: <3274CD64.1754@worldnet.att.net>
Rendered body type: text/plain

```
henryvb wrote:
>
> This is now the 3rd time (that I know of) that this indivudual has
> crybabied to the SIG that he was packing his dolls and dishes and
> leaving the SIG/APRS/whatever.  If someone wants to leave, goodbye.  I'm
> getting sick of seeing all the "oh don't leave us" messages (5 of 17 in
> this digest alone), and would be willing to bet that all this individual
> is looking for is to have his ego stroked by everyone telling him how
> valuable he is.
>
> Time for the next topic.
>
> Henry


I'll second this message!
```

---

635. (no subject)

From: /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@dps.state.ia.us
Date: Mon, 28 Oct 1996 08:47:35 -0500 (EST)
Message-ID: <199610281347.IAA21237@outpost.dps.state.ia.us>
Rendered body type: text/plain

```
>From /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/ Mon Oct 28 07:47:23 CST 1996 remote
from osiint.dps.state.ia.us
Date: 28 Oct 1996 07:46:42 -0600
X400-Trace: US*ATTMAIL*IADPS
        arrival 28 Oct 1996 07:46:42 -0600
        action Relayed
From: /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@osiint.dps.state.ia.us
To: "/RFC-822=aprssig(a)tapr.org/OU=OSI-INTERNET/O=WALLACE/PRMD=IADPS/ADMD=ATTMAIL/C=US/"@osiint.dps.sta
te.ia.us
Subject: Wide is wrong?
Importance: normal
Autoforwarded: FALSE
Message-Id:
<werl1028074610aa*/PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@osiint.dps.state.ia.us>
P1-Message-Id: US*ATTMAIL*IADPS;IDPS3550 werl1028074610aa
UA-Content-Id: werl1028074610aa
P1-Content-Type: P2
Priority: normal
Received: from osiint.dps.state.ia.us by iadpshub.dps.state.ia.us; Mon, 28 Oct 1996 07:47 CST
Content-Type: text
Content-Length: 389

Hi all, I am very new to APRS but starting to enjoy my somewhat limited time.
I am running DOS version of 7.7b and really like it.
I've seen some information that a user (like me) should not have WIDE in
his unproto path.  I'm using W0BXR-8,WIDE.  Should I be using some
```

```
other path?

Scott N0XZY
N0XZY @ WA0RJT.#EIA.IA.USA.NOAM
werling@dps.state.ia.us
scott@ia.net
```

636. Re: [APRSSIG:5903] Re: leaving the sig

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 28 Oct 1996 07:50:37 -0800
To: aprssig@tapr.org
Message-ID: <3274D64D.5BEF@concentric.net>
Rendered body type: text/plain

```
B.G. Gotshall wrote:
>
> henryvb wrote:
> >
> > This is now the 3rd time (that I know of) that this indivudual has
> > crybabied to the SIG that he was packing his dolls and dishes and
> > leaving the SIG/APRS/whatever.  If someone wants to leave, goodbye.  I'm
> > getting sick of seeing all the "oh don't leave us" messages (5 of 17 in
> > this digest alone), and would be willing to bet that all this individual
> > is looking for is to have his ego stroked by everyone telling him how
> > valuable he is.
> >
> > Time for the next topic.
> >
> > Henry
>
> I'll second this message!

If nothing else this is at least bringing out all the assholes on the sig,
mister go get a life.
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

637. Useful URL

From: dougwe@ccintnet.wrq.com
Date: Mon, 28 Oct 96 06:55:17 PST
To: aprssig@tapr.org
Message-ID: <9609288465.AA846518200@ccintnet.wrq.com>
Rendered body type: text/plain

```
A URL for packet beginners, or those of us without manuals for our
     tncs!

     http://prairie.lakes.com/~medcalf/ztx/wire/

     Doug
     KC7CO
```

638. Re: [APRSSIG:5904]

From: James Duncan <ku0g@sprynet.com>
Date: Mon, 28 Oct 1996 07:23:59 -0800
To: aprssig@tapr.org
Message-ID: <199610281523.HAA09496@m1.sprynet.com>
Rendered body type: text/plain

```
At 07:51 10/28/96 -0600, you wrote:
>Hi all, I am very new to APRS but starting to enjoy my somewhat limited time.
>I am running DOS version of 7.7b and really like it.
>I've seen some information that a user (like me) should not have WIDE in
>his unproto path.  I'm using W0BXR-8,WIDE.  Should I be using some
>other path?
>
>Scott N0XZY
>N0XZY @ WA0RJT.#EIA.IA.USA.NOAM
>werling@dps.state.ia.us
>scott@ia.net
Nothing wrong at all with what you're doing.  Don't worry about it!
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
```

```
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

639. Re: [APRSSIG:5905] Re: leaving the sig

From: "John R. Moore" <w5huq@pobox.com>
Date: Mon, 28 Oct 1996 15:43:23 -0000
To: <aprssig@tapr.org>
Message-ID: <199610281537.KAA03323@mailhub.southeast.net>
Rendered body type: text/plain

```
Please either Leave or Shut up, you may have contributed to the sig
previously but your resorting to name calling shows your true colors.
Your great ability of name calling is not wanted or needed in this
portion of this great hobby.  You have a right to run your station as
you see fit as long as it is within the regulations, but if I or anyone
doesn't agree with that then it is our right to say you will not utilize
our equipment.  So take a hike.
John W5HUQ

----------
> From: William Nolle <wa8inz@concentric.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:5905] Re: leaving the sig
> Date: Monday, October 28, 1996 13:52
>
> B.G. Gotshall wrote:
> >
> > henryvb wrote:
> > >
> > > This is now the 3rd time (that I know of) that this indivudual has
> > > crybabied to the SIG that he was packing his dolls and dishes and
> > > leaving the SIG/APRS/whatever.  If someone wants to leave, goodbye.
I'm
> > > getting sick of seeing all the "oh don't leave us" messages (5 of 17
in
> > > this digest alone), and would be willing to bet that all this
individual
> > > is looking for is to have his ego stroked by everyone telling him how
> > > valuable he is.
> > >
> > > Time for the next topic.
> > >
> > > Henry
> >
> > I'll second this message!
>
> If nothing else this is at least bringing out all the assholes on the
sig,
> mister go get a life.
> --
>       \////
>       (0 0)
>  *--o0-(_)-0o--*
>  wa8inz@amsat.org
>  wa8inz@cris.com
>
```

---

640. WinAPRS 1.1.6 and HSP

From: Mark Sproul <sproul@ap.org>
Date: Mon, 28 Oct 1996 11:05:46 -0500
To: aprssig@tapr.org
Message-ID: <v03007800ae9a89aefedc@[165.1.27.171]>
Rendered body type: text/plain

```
I have HSP finished for WinAPRS.

There is a new DLL, Serial32.dll.  This is required for proper operation.
Note: I do NOT have the new DLL finished for Windows 3.1, so HSP will not
work on Win 3.1 yet.  When I finsh the 16 bit DLL, you will simply need to
download the new DLL and it will work.



        ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/

        ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/

Also support for the Agrello DFjr is now working properly.
```

Mark

```
_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

641. Re: [APRSSIG:5905] Re: leaving the sig

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 28 Oct 96 11:34:06 -0500
To: <aprssig@tapr.org>
Message-ID: <199610281630.LAA12126@bridge.net>
Rendered body type: text/plain

```
>If nothing else this is at least bringing out all the assholes on the sig,
>mister go get a life.
>--
>      \////
>      (0 0)
> *--o0-(_)-0o--*
> wa8inz@amsat.org
> wa8inz@cris.com
>
```

The mail's been abt 10 to 2 in his favor, and he's using profanity. Hard
to believe someone would BUDLIST him, huh? Wonder when he'll make good
on his promise to leave?

Whether he contributes positively at times to the sig or not, do we
really need this?

Steve KO4HD

642. 10 Meter Freq. ?

From: kr4ol@juno.com
Date: Mon, 28 Oct 1996 12:28:38 PST
To: aprssig@tapr.org
Message-ID: <19961028.122846.3391.0.KR4OL@juno.com>
Rendered body type: text/plain

Anybody know of, or currently using 10 Meters for APRS? If so,
What freq.? If not, is there a reason why we shouldn't use 10 meters for
APRS activity?.......Just asking........73! de Tom, KR4OL

643. Re: [APRSSIG:5881] Re: Bad operating example in KPC-3 Manual!

From: Bob Derderian <n2iph@cyberenet.net>
Date: Mon, 28 Oct 1996 23:36:22 -0500
To: aprssig@tapr.org
Message-ID: <327589C6.2EBB@cyberenet.net>
Rendered body type: text/plain

FYI,

This information also appears in the upgrade manual as Ralph had
suspected. I noticed it too just the other day when reviewing it as I
just picked up the upgrade kit for an older KPC-3 which had the ver 5
firmware in it.

Since Jim has forwarded a copy of the msg to KAntronics I see no need
for this msg to any further, just thought I'd bring it to everyone's
attention so if they were elmering a new user who had performed the
upgrade they would be aware.

73...Bob

NNNN

644. Re: [APRSSIG:5875] Re: Remote U-II's

From: Bob Derderian <n2iph@cyberenet.net>
Date: Mon, 28 Oct 1996 23:46:57 -0500
To: aprssig@tapr.org
Message-ID: <32758C41.4CB9@cyberenet.net>
Rendered body type: text/plain

Why do we have to make the software smarter? Why can't we educate the
operator? That way other areas WITHOUT these problems are not shackled
by the operator limitations of another area, and everyone moves towards
becoming a better operator (or packet control op in this case).

73...Bob

NNNN

---

645. Re: [APRSSIG:5909] WinAPRS 1.1.6 and HSP

From: schiers@ames.net
Date: Mon, 28 Oct 96 12:14:10 -0500
To: aprssig@tapr.org
Message-ID: <199610281715.LAA07556@tapr.org>
Rendered body type: text/plain

In <856832@bbs.ames.net>, on 10/28/96 at 10:21 AM,
   aprssig@tapr.org said:

>There is a new DLL, Serial32.dll. This is required for proper operation.

Is it correct to assume that this is "required" for proper operation ONLY
if you are going to use the HSP function? Otherwise, those of us not
involved with HSP could wait for the next release?

hasan schiers, N0AN--
----
schiers@ames.net

---

646. Re: [APRSSIG:5911] 10 Meter Freq. ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Oct 1996 12:29:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961028122707.12909F-100000@arctic>
Rendered body type: text/plain

On Mon, 28 Oct 1996 kr4ol@juno.com wrote:

>   Anybody know of, or currently using 10 Meters for APRS? If so,
> What freq.? If not, is there a reason why we shouldn't use 10 meters for
> APRS activity?.......Just asking........73! de Tom, KR4OL

APRSdos REPLY/COMMENT: For reliable reporting of moving position reports
back to home base, 10 meters is useless. BUT it would be a great band for
DX where APRS QUICKLY plots band openings! I dont remember, but cant we
operate at 1200 baud there?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

647. Re: [APRSSIG:5908] Re: leaving the sig

From: James Duncan <ku0g@sprynet.com>
Date: Mon, 28 Oct 1996 09:44:44 -0800
To: aprssig@tapr.org
Message-ID: <199610281744.JAA20254@m1.sprynet.com>
Rendered body type: text/plain

OK, folks. Now Bill is leaving, or already gone. Let's just leave the
issue alone and let it pass without further comment. Please restrain
yourself from making additional responses that will only serve to keep the
fire roaring. In other words, drop it. It's over and done. Over and Out!

<END THREAD>

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

648. Re: [APRSSIG:5915] Re: 10 Meter Freq. ?

From: schiers@ames.net
Date: Mon, 28 Oct 96 12:48:00 -0500
To: aprssig@tapr.org
Message-ID: <199610281750.LAA09346@tapr.org>
Rendered body type: text/plain

In <856940@bbs.ames.net>, on 10/28/96 at 11:22 AM,
   aprssig@tapr.org said:

>I dont remember, but cant we
>operate at 1200 baud there?

Yes, but it's virtually useless due to multi-path and phasing distortion. Any ionospheric reflection appears to cause some real severe distortion that 1200 baud doesn't like. 1200 baud works on 10m, "kinda"...but not very well. Throughput is faster at 300 baud due to all the retries.

Listen to 10m fm and all the distortion on it as the sig fades in and out, even when quite strong, there is so much distortion that the packets just can't cut it. So I wouldn't put much hope for 1200 baud.

hasan schiers, N0AN--
----
schiers@ames.net

---

649. Re: [APRSSIG:5862] HF APRS Activity.

From: Mark Humphrey <mark@y100.com>
Date: Mon, 28 Oct 1996 13:31:52 -0500
To: aprssig@tapr.org
Message-ID: <3274FC18.5ED7@y100.com>
Rendered body type: text/plain

JOHN.LANGTRY@resonet.com wrote:
>
> Hi again Richard !
>
> Well, ahem, this is going to be from a Canadian perspective, and given
> what the bands are these days, here's what I've been able to glean :

 Toronto is a good example, a
> year an a half ago, we had maybe, 6 stations on the VHF side; now
> my mailing list has over 120 stations (we mail bulletins, tips, etc
> via packet) and we've got 8 digipeaters that reach from Buffalo N.Y.
> all the way around Lake Ontario on to Peterborough in the North East
> and Barrie to the North. (I see this morning, that Rochester N.Y.
> are back on testing their digipeater). Like I said, interest is
> growing like wild fire.

John:

Are the VHF digis in Buffalo and Rochester operating on 145.79 or another freq? I recall there was a problem in coordinating APRS activity on .79 in that part of upstate NY.

73, Mark N2CHV (formerly from Rochester)

---

650. Re: [APRSSIG:5914] Re: WinAPRS 1.1.6 and HSP

From: Mark Sproul <sproul@ap.org>
Date: Mon, 28 Oct 1996 13:47:53 -0500
To: aprssig@tapr.org
Message-ID: <v03007801ae9ab0210767@[165.1.27.171]>
Rendered body type: text/plain

>In <856832@bbs.ames.net>, on 10/28/96 at 10:21 AM,
>   aprssig@tapr.org said:
>
>>There is a new DLL, Serial32.dll. This is required for proper operation.
>
>Is it correct to assume that this is "required" for proper operation ONLY
>if you are going to use the HSP function? Otherwise, those of us not
>involved with HSP could wait for the next release?
>

Yes, the new DLL is for HSP operation only, the old DLL will work with the new software.

Version 1.1.6 also supports GPS input from the PicoPacket.

Mark

```
_____________________________________________________________________________
Mark Sproul                         |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                       |Work: 609-860-7120
North Brunswick, NJ                 |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

---

651. Re: [APRSSIG:5912] Re: Bad operating example in KPC-3 Manual!

From: James Duncan <ku0g@sprynet.com>
Date: Mon, 28 Oct 1996 11:52:04 -0800
To: aprssig@tapr.org
Message-ID: <199610281952.LAA24863@m1.sprynet.com>
Rendered body type: text/plain

```
At 10:46 10/28/96 -0600, you wrote:
>Since Jim has forwarded a copy of the msg to KAntronics I see no need
>for this msg to any further, just thought I'd bring it to everyone's
>attention so if they were elmering a new user who had performed the
>upgrade they would be aware.
>

I got a nice reply from Kantronics this a.m.  They are now aware and asked
some interesting questions to which I gave thoughtful and insightful answers
(everyone that believes that may now take his/her place in the line for the
ocean front property in Arizona that I have for sale...).

I also volunteered to help them with any APRS issues that may arise as an
outside source...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

652. Re: [APRSSIG:5915] Re: 10 Meter Freq. ?

From: dougwe@ccintnet.wrq.com
Date: Mon, 28 Oct 96 13:03:11 PST
To: aprssig@tapr.org
Message-ID: <9609288465.AA846540400@ccintnet.wrq.com>
Rendered body type: text/plain

```
Yes, there used to be quite a bit of 1200 bps activity around 28.176,
     before the band collapsed last fall.

Doug
KC7CO

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5915] Re: 10 Meter Freq. ?
Author:  aprssig@tapr.org at CCINTNET
Date:    10/28/96 11:32 AM


On Mon, 28 Oct 1996 kr4ol@juno.com wrote:

>  Anybody know of, or currently using 10 Meters for APRS? If so,
> What freq.? If not, is there a reason why we shouldn't use 10 meters for
> APRS activity?.......Just asking........73! de Tom, KR4OL

APRSdos REPLY/COMMENT:  For reliable reporting of moving position reports
back to home base, 10 meters is useless.  BUT it would be a great band for
DX where APRS QUICKLY plots band openings!  I dont remember, but cant we
operate at 1200 baud there?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

653. APRS SW Registration

From: Richard Filia <rfilia@boot.com>
Date: Mon, 28 Oct 1996 13:19:18 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961028211918.0068e938@cts.com>
Rendered body type: text/plain

```
Hello Bob,
Can I purchase the registered APRS program via e-mail?
```

I'm using version 7.1 freeware now. I also would like the GPS version. I
understand this will allow the program to work with a GPS receiver on a PC.
Let me know if you'll take Visa / MC. Thanks!
Rich Filia AA1Z
San Diego
(619) 755-0700 ext. 158 days
(619) 298-8248 home

---

654. Re: [APRSSIG:5917] Re: 10 Meter Freq. ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Oct 1996 17:05:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961028170345.11698B-100000@arctic>
Rendered body type: text/plain

On Mon, 28 Oct 1996 schiers@ames.net wrote:

> >I dont remember, but cant we operate at 1200 baud there?
>
> Yes, but it's virtually useless due to multi-path and phasing distortion.
> Listen to 10m fm and all the distortion on it as the sig fades in and out,
> even when quite strong, there is so much distortion that the packets just
> can't cut it. So I wouldn't put much hope for 1200 baud.

APRSdos REPLY/COMMENT: I agree that 10mFM has terrible phase distortion,
but I assumed that was due to the wide bandwidth of 12 KHz. I just
assumed that operating FSK at 1200 baud is only a 1K shift so the
distortion would be about 8% of what you hear on FM. But that my too
still be too much to work...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

655. Re: [APRSSIG:5911] 10 Meter Freq. ?

From: Paul Christenson <paul@tech.cyclades.com>
Date: Mon, 28 Oct 1996 14:11:05 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961028140633.205A-100000@tech.cyclades.com>
Rendered body type: text/plain

On Mon, 28 Oct 1996 kr4ol@juno.com wrote:

>   Anybody know of, or currently using 10 Meters for APRS? If so,
> What freq.? If not, is there a reason why we shouldn't use 10 meters for
> APRS activity?.......Just asking........73! de Tom, KR4OL

Other than the band being nearly dead, I can't think of any.. You can get
low power 10m rigs downright cheap. Power isn't a real consideration on
10m anyway except for ground wave; if the band is up, 5W works everywhere.

May I suggest using 28.2777 MHz? (That's 28.APRS using phone -> number
conversion.) As I recall, most digital work on the Novice section
centered around 28.15 -> 28.20 MHz, with the upper part nearly dead.

Paul
N3EOP/6

```
+----------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation   |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
| High Performance Multiport Serial Cards & Routers  |
| Unsolicited mail ads subject to a $25 handling fee |
+----------------------------------------------------+
```

---

656. Re: [APRSSIG:5915] Re: 10 Meter Freq. ?

From: Paul Christenson <paul@tech.cyclades.com>
Date: Mon, 28 Oct 1996 14:13:58 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961028141229.205B-100000@tech.cyclades.com>
Rendered body type: text/plain

On Mon, 28 Oct 1996, Bob Bruninga wrote:

> On Mon, 28 Oct 1996 kr4ol@juno.com wrote:
>
> >   Anybody know of, or currently using 10 Meters for APRS?

> APRSdos REPLY/COMMENT: For reliable reporting of moving position reports

> back to home base, 10 meters is useless.

In its present state, maybe so. However, keep in mind that groundwave
propogation of 10m is similar to that of 2m. A few well-placed WIDEs
would take care of that problem.

```
         +----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | High Performance Multiport Serial Cards & Routers  |
         | Unsolicited mail ads subject to a $25 handling fee |
         +----------------------------------------------------+
```

---

657. Re: [APRSSIG:5901] Re: Map data from remote U2000

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Mon, 28 Oct 1996 17:30:35 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961028172245.1969B-100000@ns1>
Rendered body type: text/plain

```
I have set weather, display justwx

then set w, d, temp and get:
        _   ^F/    "
with t, d, wind :
        ****/    g.../   "
with w, d, barom:
        ****//    "

on screen next to blue dot.

When I select with N I get WB4QEV-3    :    MPH_    ^F
 at the top of the screen.

And at the bottom of the screen I get

pos:!******/3031.31N/08807.31W_
    !!0000009002F503B1----03E3--------012D052200000000

(^ is the degree symbol, spaces may vary for displays next to blue dot.
Hard to count)

Hope this is enough to troubleshoot.

Geoff Peacock                                                  '''
Mobile Area Free-Net, Inc.                                    (o o)
_______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                       (334) 405-4600

On Sun, 27 Oct 1996, Bob Bruninga wrote:

> On Sun, 27 Oct 1996, Geoff Peacock wrote:
>
> > I have an Ultimeter 2000 set up remotely.  What follows is an example of
> > its packets.  I get the blue dot but no wind direction indicator from the
> >
> > WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> > WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
> > WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046
>
> APRSdos REPLY/COMMENT:  I will need you to send me the exact format as
> APRS displays it on the P-List if you want me to figure out anything...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
```

---

658. Maps with county lines

From: Tom Fleming N9SZF <n9szf@skywarn.cs.wisc.edu>
Date: Mon, 28 Oct 1996 17:55:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961028175339.32006B-100000@skywarn.cs.wisc.edu>
Rendered body type: text/plain

Is it posible to get some maps made with only county lines on it.

```
------------------------------------------------------------------
Tom Fleming - N9SZF
```

South Central Wisconsin NCS
Dane County ARES

---

659. RE: [APRSSIG:5921] Re: 10 Meter Freq. ?

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Tue, 29 Oct 96 00:30:26 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199610290031350412@msn.com>
Rendered body type: text/plain

```
Yes 1200 baud operation is allowed on 10m, but it won't always be physically
possible.  Nasty things like intersymbol interference tends to limit digital
data transmission rates on HF and digital bandwidth.  The signal processor
wetware between the ears takes care of voice signals.  However, since most 10m
HF ionospheric paths will be single mode, 1200 baud will work a good deal of
time when the band is open, like in 2-3 years.  Sunspot mimimum will occur
about American Thanksgiving.
    Another point.....with the KAM you cannot push 1200 baud signals out of
the "HF" port.  This is for good reason as Kantronics has optimized the HF
port for 300 baud or less and the VHF port for 1200 baud.  You will have to
switch cables or build a switch.
    You can use either port with with the MJF-1278.  They change filter
bandwidths in the analog section with a switched capicitor filter.
     I can't tell you first thing about the AEA tnc's.
Jack, KB4XF, Carolyn's OM
cjcavanagh@msn.com
```

---

660. APRS & SAREX: How do you do it?

From: David McCarthy <davidmc@goodnet.com>
Date: Mon, 28 Oct 1996 17:32:47 -0700
To: aprssig@tapr.org
Message-ID: <327550A4.5768@goodnet.com>
Rendered body type: text/plain

```
I am looking for any information on how to do APRS packet with future
SAREX missions.  Antennas, power and equipment requirements as well as
scheduled will be appreciated.  Thanks.

--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

---

661. Re: [APRSSIG:5929] APRS & SAREX: How do you do it?

From: kc5ejk@onramp.net (Robert Winingham)
Date: Mon, 28 Oct 1996 19:04:11 -0600
To: aprssig@tapr.org
Message-ID: <v02140b01ae9b07120888@[199.1.11.154]>
Rendered body type: text/plain

```
>I am looking for any information on how to do APRS packet with future
>SAREX missions.

Why wait, Try the space mode of Bob's dosAPRS late at night
with the MIR on 145.550 MHZ. One or two quick packets in the manual
mode will not add any QRM. Last I looked the digi was on.

A Discone with 45 watts can connect to Shuttle packet.


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

662. Re: [APRSSIG:5928] Re: 10 Meter Freq. ?

From: dougwe@ccintnet.wrq.com
Date: Mon, 28 Oct 96 17:31:31 PST
To: aprssig@tapr.org
Message-ID: <9609288465.AA846556422@ccintnet.wrq.com>
Rendered body type: text/plain

```
You can use either port with with the MJF-1278.  They change filter
bandwidths in the analog section with a switched capicitor filter.
     I can't tell you first thing about the AEA tnc's.
Jack, KB4XF, Carolyn's OM
cjcavanagh@msn.com
```

```
The PK-232 works fine at 1200 on ten meters - I've always used the
same settings as vhf and have no trouble.

Doug
KC7CO
```

---

663. Re: [APRSSIG:5898] Re: Maps & Longitude Latitude Co-ordinates

From: etjm@ECUA.NET.ec (teodoro jaramillo)
Date: Mon, 28 Oct 1996 20:42:36 -0500
To: aprssig@tapr.org
Message-ID: <9610290139.AA51330@ecua.net.ec>
Rendered body type: text/plain

```
Maps  MISTERY STILL not resolved....
I have locally  visited and tried from Municipalities and also from a
Military Organization to obtain any kind of digital Maps for Ecuador...and
nothing  gained...
A while back a friend on this system offered to make some maps and I sent a
large TUBE containing  MAPS local regional and National
( typical geographical large  scale Maps) and after  several months
the TUbe returned undeliverable  MAIL...so failed..will keep trying...
I see the  present  msg and perhaps if there is   world CD-rom with
info any scale  Map will be great for me to work with...I sit here
looking ad when I travel there is no detail Maps at all of my
trips and efforts and can demo to tohers  Hams  either...
What  is needed  to ask for   someone to provide and what shall i provide
for  data to obtain some course  Maps even...on this region of the world...???
basic  areas are within  about
02 00 00 north
04 00 00 south
80 00 00 west
76 00 00  east

Still reading   10.151 data and  propagation  very  extrange at cerain days
and  times.... but all great  info and learning
has increased a lot.

Thanks for  help and info required  I shall make any  effort  ti
supply.

73's
  TED
 HC5K

>On Sat, 26 Oct 1996, Keith Sproul wrote:
>
>> I can make maps of anyplace in the world from the Digital Chart of the World
>> CD-ROM.  I will then put them up on the FTP sites..
>
>APRSdos REPLY/COMMENT: Keith, if you would tell us the format and/or how
>to read the Win/Mac maps, then several of us could write a conversion
>routine so that we could build multiple DOS maps from your maps...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
>
```

---

664. (no subject)

From: "John D. kerr" <john.kerr@peel.com>
Date: Mon, 28 Oct 1996 19:45:28 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199610290145.TAA29245@tapr.org>
Rendered body type: text/plain

```
~ Ontario APRS Support Page ~
                    -------------------------------

For the past few months, we have been working feverishly to update our
Ontario APRS support page.  Initially established in mid 1995, we have
grown to become a popular stop-off to APRS surfers on the Internet.

Today, we are pleased to announce some major feature additions to our
website. Some of our major features are:

o javAPRS: For the past two months, we have been working with
Steve Dimse (K04HD) to identify some browser specific issues in his
```

javAPRS work. Steve has identified these issues and we are now ready
to make our javAPRS site public. Running with a dedicated transceiver
on 144.390MHz. (Canadian APRS frequency), we are providing real time
javAPRS updates from 15 minutes to 24 hours of activity - automatically!

o Guest Book: Many of our guests to the system are experts in APRS and
other associated activities. With our guest book feature, all users are
able to review previous connections and determine who might be a
knowledgeable candidate to assist with your problems. All guests are
encouraged to sign into the guestbook.

o Online Conference System: Another exclusive feature to our system is
the online conference system where guests can connect to a bulletin
board style message system. Visitors can leave messages dealing with
APRS, buy & sell messages, or just general chit-chat. All of this is
done with your standard web browser.

o Latest Updates: As with most other APRS pages, we always maintain
the latest APRS software versions, along with being the Ontario APRS
map distribution site.

We think we have a site that you would enjoy visiting, and maybe
even gain some knowledge while you are at it. Please take a few
minutes and visit our site at:

          http://www.peel.com/aprs

Thanks... John VE3SVE - john.kerr@peel.com

665. Re: [APRSSIG:5865] Re: HF APRS Activity.

From: rhiii@mnsinc.com (Richard H.)
Date: Tue, 29 Oct 1996 01:47:48 GMT
To: aprssig@tapr.org
Message-ID: <32735c85.61864899@relay.mnsinc.com>
Rendered body type: text/plain

Ralph --- thanks for the info.   Will pursue that lead.

de Richard/ N2JR

On Sat, 26 Oct 1996 17:39:35 -0500 (CDT), you wrote:

>At 09:43 AM 10/26/96 -0500, Richard wrote:
>>Aside from 10151khz is there any other HF frequency commonly used for APRS ?
>
>
>Richard- in Florida, several were operating GATES on 80M. When I was there
>this winter it seemed to work pretty well. I know Kevin, Mike, and Rich
>were doing it. Don't know what happened to the FLGATES though.
>
>
>
>Ralph Fowler, N4NEQ , S.E.R.A. Amateur Television Technical Advisor
>Atlanta, GA USA
>Internet Email: rwf@mindspring.com   Pager Email: 7647836@skytel.com
>2 way pager: 1 (800) 764-7836
>http://www.mindspring.com/~rwf   for APRS, ATV, Balloon, and Ham info
>My hobby is tracking Vehicles and other things using Ham Radio and APRS.
>Ask me how!
>
>

666. Re: [APRSSIG:5884] 6M Frequency Proposal

From: rhiii@mnsinc.com (Richard H.)
Date: Tue, 29 Oct 1996 01:47:52 GMT
To: aprssig@tapr.org
Message-ID: <3275350d.109193346@relay.mnsinc.com>
Rendered body type: text/plain

Rich -- what are the problems with 50.62 ? Missed it the first time
around.

Richard/n2jr

On Sun, 27 Oct 1996 15:27:34 -0600 (CST), you wrote:

>Ok nuff is enough, some of us have spoken about 6M and today I saw a BLN on
>my screen that someone was listening to 50.62, seems that the time has come

>to get serious. Previously I posted a message RE: the 50.62 frequency choice
>and how it has quite a few downfalls. For the past 2 or so months after
>posting that message I have been listening to 51.68 and 51.18 in the SE
>Florida area and have heard no activity at all.

667. Re: [APRSSIG:5867] 80M in FL Re: HF APRS Activity.

From: rhiii@mnsinc.com (Richard H.)
Date: Tue, 29 Oct 1996 01:47:50 GMT
To: aprssig@tapr.org
Message-ID: <32735dc4.62184064@relay.mnsinc.com>
Rendered body type: text/plain

Thanks Rich for that info. Too bad though, because 80m would be just
fine on low qrn nights.   Sat on 7085 last night but heard (saw)
nothing on the screen this monring.   ---   Will put radio on
14105lsb today & see if any interest can be generated there.
de Richard/N2JR

On Sat, 26 Oct 1996 18:54:20 -0500 (CDT), you wrote:

>Not enough interest to support the expense for many of us on 2 full gateways
>runing 24hrs a day, it is also a big risk here in Lighting Country to leave
>an unattended station. Way I see it if my 30M radio get's smoked at least I
>have a radio to fall back on, if both are in operation and both get smoked
>it will probably be a few years till I can afford a new HF rig.
>
>Another problem we found is that most people were disinterested in using the
>FLGATE. Everyone wanted to go out on 30M where the "action" was so even when
>the FLGATE was on 80M no one was on except for the FLGATES, everyone else
>(mostly) stayed using GATE.
>
>

668. Re: [APRSSIG:5911] 10 Meter Freq. ?

From: rhiii@mnsinc.com (Richard H.)
Date: Tue, 29 Oct 1996 01:47:56 GMT
To: aprssig@tapr.org
Message-ID: <32753612.109454939@relay.mnsinc.com>
Rendered body type: text/plain

28105lsb sound like a winner Tom. Let me know when the testing
begins.
de Richard/n2jr

On Mon, 28 Oct 1996 10:37:25 -0600 (CST), you wrote:

>
>   Anybody know of, or currently using 10 Meters for APRS? If so,
>What freq.? If not, is there a reason why we shouldn't use 10 meters for
>APRS activity?.......Just asking........73! de Tom, KR4OL
>
>

669. Re: Maps with county lines

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Mon, 28 Oct 1996 20:21:07 -0600
To: aprssig@tapr.org
Message-ID: <9610282021.AA07005@oscar.telalink.net>
Rendered body type: text/plain

> Is it posible to get some maps made with only county lines on it.
>
> --

For that matter, using the 100k DLG CD-ROMs, how do you get the political
boundaries (county & state lines) plotted on the maps.

Bruce, KQ4TV

--
```
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net    *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                    *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733         *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W       *
* "Never ask what sort of computer a guy drives.               *
* If he's a Mac user, he'll tell you.                         *
* If not, why embarrass him?"    -- Tom Clancy                *
***************************************************************
```

---

670. Re: [APRSSIG:5928] Re: 10 Meter Freq. ?

From: "David Michael Gaytko" <cn2859@coastalnet.com>
Date: Tue, 29 Oct 1996 00:53:52 -0500
To: <aprssig@tapr.org>
Message-ID: <199610290554.AAA05891@abaco.coastalnet.com>
Rendered body type: text/plain

```
what do you mean in 2-3yrs.....

copied kp4, and py on 10m yesterday using 1200 baud and ssb!

73's....david
```

---

671. Sorry Jack for the alert - appears premature call

From: w4wwq@juno.com (Peter J Lascell)
Date: Mon, 28 Oct 1996 22:04:34 PST
To: aprssig@tapr.org
Message-ID: <19961028.224151.4543.1.W4WWQ@juno.com>
Rendered body type: text/plain

```
I thought he left but I must have mis interpreted his original message.

Keep the filter on Jack

Pete W4WWQ
```

---

672. Re: [APRSSIG:5938] Re: Maps with county lines

From: "Tom Busch" <busch_th@se.crane.navy.mil>
Date: Tue, 29 Oct 1996 07:47:27 -0500
To: <aprssig@tapr.org>
Message-ID: <B82756359A@avoca.se.crane.navy.mil>
Rendered body type: text/plain

```
I made some a while back using the 2M data.  Are any of the 2M formats
still compatible?  The class numbers for boundaries for the 100k seem to
vary all over the place, and (for Indiana at least) the MK100K programs
won't convert them.
```

---

673. Re: [APRSSIG:5923] Re: 10 Meter Freq. ?

From: schiers@ames.net
Date: Tue, 29 Oct 96 08:10:24 -0500
To: aprssig@tapr.org
Message-ID: <199610291311.HAA25467@tapr.org>
Rendered body type: text/plain

```
In <857449@bbs.ames.net>, on 10/28/96 at 03:55 PM,
   aprssig@tapr.org said:

>I just
>assumed that operating FSK at 1200 baud is only a 1K shift so the
>distortion would be about 8% of what you hear on FM.  But that my too
>still be too much to work...

I think you are probably right. Definite improvement with FSK...I was
commenting only about FM...our experiences there were terriblle at 1200
baud.

73,
hasan schiers, N0AN--
-------------------------------------------------------------
schiers@ames.net
-------------------------------------------------------------
```

---

674. Re: [APRSSIG:5905] Re: leaving the sig

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Tue, 29 Oct 1996 09:02:54 -0800
To: aprssig@tapr.org
Message-ID: <327638BE.350B@worldnet.att.net>
Rendered body type: text/plain

```
William Nolle wrote:
>
> B.G. Gotshall wrote:
> >
```

> > henryvb wrote:
> > >
> > > This is now the 3rd time (that I know of) that this indivudual has

> > I'll second this message!
>
> If nothing else this is at least bringing out all the assholes on the sig,
> mister go get a life.
> --
> wa8inz@cris.com

It's language like this that we will really miss!!!

---

675. Re: [APRSSIG:5915] Re: 10 Meter Freq. ?

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Tue, 29 Oct 1996 09:08:50 -0800
To: aprssig@tapr.org
Message-ID: <32763A22.6916@worldnet.att.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Mon, 28 Oct 1996 kr4ol@juno.com wrote:
>
> >   Anybody know of, or currently using 10 Meters for APRS? If so,
> APRSdos REPLY/COMMENT:
> DX where APRS QUICKLY plots band openings! I dont remember, but cant we
> operate at 1200 baud there?
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

I use to run a lot of 1200 packet on 10 when the band was in good shape.
Seems like the freq for 1200 baud was around 28.105 thru 108.

Bud (WB4LTF)

---

676. Dual 2 Meter devices on one antenna

From: kr4ol@juno.com
Date: Tue, 29 Oct 1996 10:25:36 PST
To: aprssig@tapr.org
Message-ID: <19961029.102541.24039.1.KR4OL@juno.com>
Rendered body type: text/plain

Ok, Thanks Larry for prodding me on this one. I promised to send
this message regarding how we are using one transmitter, one feedline,
and one antenna to serve APRS on 145.790 Mhz. and our Node/BBS on
145.070 Mhz. simultaneously. I'm afraid you may be much more qualified
as an electronic technician than I, so you will have much better
understanding of the minute details of this. I will explain as best I
can how we accomplished this, and you may have to interpolate some of
the details.

        Lets start at the T/R switch.......we installed an external T/R
switch, put a "tee" on the receive side, sending the leads to two
separate receivers. One receiver is on 145.790 Mhz., the other is on
145.070 Mhz. Each of these receivers sends receive audio to its own TNC.
I am using Kantronics TNC's, so when the TNC calls for transmit, it does
so by showing ground potential to the rigs' PTT. It just so happens that
in a crystal radio, channel selection is made by grounding the crystal of
the channel to be used. So, the TNC has the ability to "choose" channels
in the radio at the same time it calls for PTT.So, as each TNC calls for
transmit, it automatically chooses the correct channel in the
transmitter, and keys the rig. That is how a single transmitter can
serve the two frequencies. There are some other important details that
must be addressed. We set TXDelay to 50 to allow the TNC plenty of time
to switch channels and get the rig keyed. The data-out from the two
TNC's are tied together to the mic. input of the Rig. Pin 2 on
Kantronics TNC, when shown ground potential, show a "busy" on the TNC,
so it cannot transmit. We hooked Pin 2 on each TNC to the PTT of the
other, so when one TNC is transmitting it shows "busy" on the other.
This avoids internal collisions.

        When we first started talking about this, it sounded real good
in theory, but we wondered how it would actually behave in "field
conditions". Well, its been up & running now for a couple of weeks and
so far it has ecceeded our expectations. Each side is apparently
transparent to the other, there have been very few "misses", and unless
the process is explained, users never know the transmitter is serving

two masters. Each TNC has the capability to "hold" a valid packet frame
for transmit until the "busy" condition ceases, then calls for transmit.
I am sure that there will be the odd frame that will be missed due to the
receiver not being available at the time, but in watching it over the
past few weeks, it appears to be very few.

Well, basically, thats it! cat's out of the bag. This technique has allowed us to add APRS to our existing Node/BBS without having to add
another transmitter, feedline, and antenna. With our transmit antenna
400' up the tower, this makes our Digi very advantageous to the network.
(we hope)...........

73! de Tom, KR4OL
@KR4OL.#MCN.GA.USA.NA
or KR4OL
@Juno.com

---

677. DIGIpeats

From: JohnLGaf@gnn.com (John L. Gafford)
Date: Tue, 29 Oct 1996 08:53:56
To: aprssig@tapr.org
Message-ID: <199610291454.JAA01383@mail-e2b.gnn.com>
Rendered body type: text/plain

I am centrally located in Texas (Waco, half way between
Dallas-FtWorth and Austin). When I first started using APRS I had
no problem getting digis back. I can see stations from DFW to
Houston, but xa gives me the message, "APRS did not see a DIGIpeat
of your last packet...". I am using UNPROTO of RELAY,WIDE,WIDE.
Even when N5PAY-3 (a wide area digi in Temple - about 30 miles
south of Waco) is on the air, I still get the "APRS did not see"
message. What has possibly changed, or what am I doing wrong? At
one time I could send and receive messages to Granbury, Temple and
Austin. Occasionally, xa results in a response, but it is rare and
intermittent. I am using DOSAPRS 77d, and have tried earlier
versions with the same results. Any suggestions will be sincerely
appreciated.

John - N5XAK

---

678. Re: [APRSSIG:5926] Re: Map data from remote U2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Oct 1996 10:15:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029101458.22052B-100000@arctic>
Rendered body type: text/plain

Unless you tell me what is on the P-LIST for that station, I cant tell
anything from what you sent me...

On Mon, 28 Oct 1996, Geoff Peacock wrote:

```
> I have set weather, display justwx
>
> then set w, d, temp and get:
>       _   ^F/    "
> with t, d, wind :
>         ****/    g.../   "
> with w, d, barom:
>         ****//    "
>
> on screen next to blue dot.
>
> When I select with N I get WB4QEV-3    :    MPH_    ^F
>  at the top of the screen.
>
> And at the bottom of the screen I get
>
> pos:!******/3031.31N/08807.31W_
>     !!0000009002F503B1----03E3--------012D052200000000
>
> (^ is the degree symbol, spaces may vary for displays next to blue dot.
> Hard to count)
>
> Hope this is enough to troubleshoot.
>
> Geoff Peacock                                                       '''
> Mobile Area Free-Net, Inc.                                          (o o)
> _______________________________________________________________oOO__( )__OOo_
> geoff@maf.mobile.al.us                                               (334) 405-4600
>
> On Sun, 27 Oct 1996, Bob Bruninga wrote:
>
> > On Sun, 27 Oct 1996, Geoff Peacock wrote:
> >
> > > I have an Ultimeter 2000 set up remotely.  What follows is an example of
> > > its packets.  I get the blue dot but no wind direction indicator from the
> > >
> > > WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> > > WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
> > > WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046
> >
> > APRSdos REPLY/COMMENT:  I will need you to send me the exact format as
> > APRS displays it on the P-List if you want me to figure out anything...
> >
> > Reply mail addr:  wb4apr@amsat.org
> > See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
> >
> >
>
>

APRSdos REPLY/COMMENT:

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

679. Re: [APRSSIG:5909] WinAPRS 1.1.6 and HSP

From: nickart@midtenn.net (Nicholas R. Smith)
Date: Tue, 29 Oct 1996 11:24:53 GMT
To: aprssig@tapr.org
Message-ID: <199610291124.LAA01444@sneezy.midtenn.net>
Rendered body type: text/plain

```
Dear Mark:

When operating both HF and VHF (dual port) on DSP 2232 I do not get
both VHF and HF indications of received packets.  Both the VHF and HF
show up as VHF, just wonder if anyone else is having this same problem.

Thanks.
>I have HSP finished for WinAPRS.
>
>There is a new DLL, Serial32.dll.  This is required for proper operation.
>Note: I do NOT have the new DLL finished for Windows 3.1, so HSP will not
>work on Win 3.1 yet.  When I finsh the 16 bit DLL, you will simply need to
>download the new DLL and it will work.
>
>
>
>       ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/
>
>       ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/
>
>Also support for the Agrello DFjr is now working properly.
>
>
>Mark
>
>__________________________________________________________________________
>Mark Sproul                      |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |
>sproul@ap.org                    |Work: 609-860-7120
>North Brunswick, NJ              |Fax:  609-860-7129
>http://msproul.rutgers.edu/
>__________________________________________________________________________
>
>
>
Nick Smith WA4GKM

Editor - "Amateur Radio Trader"
Chief Pilot - Consultant - "Trade-A-Plane"

e-mail wa4gkm@amsat.org
800-774-2623 voice
```

```
800-423-9030 fax
```

680. Re: [APRSSIG:5928] Re: 10 Meter Freq. ?

From: Paul Christenson <paul@tech.cyclades.com>
Date: Tue, 29 Oct 1996 08:37:10 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961029083622.7026A-100000@tech.cyclades.com>
Rendered body type: text/plain

```
On Mon, 28 Oct 1996, Carolyn Cavanagh wrote:

>      I can't tell you first thing about the AEA tnc's.

Well, the difference between the ports on the DSP-232 is that the VHF port
can do 9600.

         +----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | High Performance Multiport Serial Cards & Routers  |
         | Unsolicited mail ads subject to a $25 handling fee |
         +----------------------------------------------------+
```

681. Re: [APRSSIG:5937] Re: 10 Meter Freq. ?

From: Paul Christenson <paul@tech.cyclades.com>
Date: Tue, 29 Oct 1996 08:49:38 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961029084522.7026B-100000@tech.cyclades.com>
Rendered body type: text/plain

```
On Mon, 28 Oct 1996, Richard H. wrote:

> 28105lsb sound like a winner Tom.

I'd suggest 28.2xx for APRS.  The 28.1xx freqs are full of keyboarders
when the band is up.

         +----------------------------------------------------+
         | Technical Support Engineer, Cyclades Corporation   |
         | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
         | High Performance Multiport Serial Cards & Routers  |
         | Unsolicited mail ads subject to a $25 handling fee |
         +----------------------------------------------------+
```

682. Re: [APRSSIG:5935] Re: 6M Frequency Proposal

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Oct 1996 12:05:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029120357.3683D-100000@arctic>
Rendered body type: text/plain

```
On Mon, 28 Oct 1996, Richard H. wrote:

> Rich --  what are the problems with 50.62 ?  Missed it the first time
> around.

APRSdos REPLY/COMMENT:  He cant get a radio that will tune both the high
end and the low end of the band simultaneously.  In my opinion, that is
what makes 50.62 so good.  Nobody with a voice radio is going to bother
with it, so if you xtal up an old low band radio and dedicate it to APRS,
then you have no problems...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

683. Re: [APRSSIG:5937] Re: 10 Meter Freq. ?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Oct 1996 12:07:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029120626.3683E-100000@arctic>
Rendered body type: text/plain

```
On Mon, 28 Oct 1996, Richard H. wrote:

> 28105lsb sound like a winner Tom.  Let me know when the testing
> begins.

APRSdos REPLY/COMMENT:  Actually, I liked the 28.2777 (28.APRS) idea and
```

was in the process of adding it to my docs. But Im not a 10m operator, so
You guys figure it out and lemme know...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

684. Re: [APRSSIG:5946] DIGIpeats

From: Derick Anness <np2ij@flinet.com>
Date: Tue, 29 Oct 1996 12:13:17 -0500
To: aprssig@tapr.org
Message-ID: <32762F7B.34E9@flinet.com>
Rendered body type: text/plain

John,it sounds like your closest neighbor changed the MYAlias in their
tnc away from the default of relay.you may need to get more digi
specific in your unproto path to see the digipeat.i dont know how far
away n5pay-3 is from you, but you could try Unproto N5PAY-3,wide,wide.
In SFlorida,I use about 3 very digi specific paths to get out,
via WA4HXZ-3,KF4DXY-1,KD4EMI-3,this gets the path south into Miami.
via WA4HXZ-3 for keyboarding with friends
via wide,wide,wide for general coverage in our area(where everyone is a
wide hihi).John I hope this helps..73
--
                  I think we're all Bozos on this bus!

Derick Anness,NP2IJ
Jupiter Farms,Fl.
np2ij@flinet.com
http://www.flinet.com/~np2ij

---

685. ARPS PICO w/2port settings?

From: "Kent Hufford" <khufford@erols.com>
Date: Tue, 29 Oct 1996 12:31:01 -0500
To: <aprssig@tapr.org>
Message-ID: <199610291726.MAA05132@smtp1.erols.com>
Rendered body type: text/plain

Could some expert (or non-expert) please give me to correct settings for
the Paccom PICO TNC w/2nd port that is used with APRS 7.7d, GArmin 45?

A dump the internal settings of the PICO would be great. Or what are the
settings required in APRS (dos or WIN).

This APRS stuff sure is fun... once the settings are right. But, maybe it
is the quest for the right ones that is fun. Dont know.

thanks in advance

Kent V Hufford
KQ4KK
khufford@erols.com

---

686. Re: [APRSSIG:5931] Re: 10 Meter Freq. ?

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 29 Oct 1996 10:24:18 -0800 (PST)
To: dougwe@ccintnet.wrq.com
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029102251.13494I-100000@spork.callamer.com>
Rendered body type: text/plain

Excellent use for an old PK 232 but you might let us know what is required
in the way of chips to accomodate APRS. Also, I believe one must be above
29 MHz to use 1200 baud. Cliff K7RR

On Mon, 28 Oct 1996 dougwe@ccintnet.wrq.com wrote:

>
>   You can use either port with with the MJF-1278. They change filter
> bandwidths in the analog section with a switched capicitor filter.
>   I can't tell you first thing about the AEA tnc's.
> Jack, KB4XF, Carolyn's OM
> cjcavanagh@msn.com
>
>
>   The PK-232 works fine at 1200 on ten meters - I've always used the
>   same settings as vhf and have no trouble.
>
>   Doug
>   KC7CO

>
>

687. W3IWI-13 DGPS

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Tue, 29 Oct 96 19:01:05 UTC
To: aprssig@tapr.org
Message-ID: <2368@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Today I made a minor change on the W3IWI-13 DGPS beacon to provide better coverage, especially into the Chesapeake Bay. Formerly the beacon was sending its <UI> frames W3IWI-13>WIDE where the main WIDE I see is WB4APR-1 in Annapolis. I changed it to W3IWI-13>WIDE>WIDE so that there was a better chance of hitting the PAX RIVER digi, as well as providing better coverage to the north into PA/SNJ.

In case you start seeing heiroglyphics on the screen, never fear! They are intentional. They come at the rate of one beacon per 20 seconds to give a good chance that a DGPS user will get two corrections within the one minute "aging" period common to most GPS receivers. The DGPS data strings are all under ~60 characters long, and all the characters are printable (even though they are illegible to mere mortal humans!).

As I reported before, the DGPS bits are generated by a professional (Trimble 4000SSE) GPS receiver connected to the same GPS antenna used for my IGS (International GPS Service for Geodynamics) site called GODE. The amateur interface begins at the RS232 connector and consists of a personal PK232, IC-27 and 6 dB gain "stick" on a ~30' tower next to the GODE site.

I am anxious to get reports, both on the W3IWI-13 coverage area and from people who use the DGPS signals with their GPS receiver. Out to a couple of hundred km from the Greenbelt MD area, the DGPS signals should help improve the accuracy of your handheld GPS receiver to the <10 meter level, removing the effects of the DoD's Selective Availability (SA) dithering. Also the accuracy of your velocity determinations will improve -- no longer will your GPS receiver say you are moving 1-2 MPH when you are fixed.
If your GPS receiver says it is "DGPS Ready", all you should have to do is to poke the 4800 baud data stream from your TNC into the GPS's RXD data input connection (and perhaps tell the receiver to accept DGPS inputs); the heiroglyphics in the DGPS beacon are formatted the same as the bits coming from commercial ~300 kHz or FM subcarrier DGPS receivers.

I believe WB4APR still has "hooks" in APRS (they were there eons ago) to pass the DGPS bits from the TNC into your GPS receiver. I haven't had the chance to test this with a recent APRS 7.x release. Can Bob or somebody report if it still works, and perhaps post a note on how to configure APRS to make it happen?

73 de Tom, W3IWI

688. Re: [APRSSIG:5955] Re: 10 Meter Freq. ?

From: dougwe@ccintnet.wrq.com
Date: Tue, 29 Oct 96 13:15:38 PST
To: aprssig@tapr.org
Message-ID: <9609298466.AA846623826@ccintnet.wrq.com>
Rendered body type: text/plain

The lower limit for 1200 is 28 Mhz, according to my FCC rules.. hence the activity 28.105 & up.

As far as APRS is concerned, unless you are going to use the PK232 as a tracker (WHY???????), there isn't anything special required. I have an ancient one with 1988 proms, and it works great.

I don't think AEA supports GPS in any PK232 firmware release.

Doug
KC7CO

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:5955] Re: 10 Meter Freq. ?
Author: aprssig@tapr.org at CCINTNET
Date: 10/29/96 11:53 AM

Excellent use for an old PK 232 but you might let us know what is required in the way of chips to accomodate APRS. Also, I believe one must be above 29 MHz to use 1200 baud. Cliff K7RR

```
>      The PK-232 works fine at 1200 on ten meters - I've always used the
>      same settings as vhf and have no trouble.
>
>      Doug
>      KC7CO
>
>
```

---

689. HF on 10m

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Oct 1996 21:22:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029211103.7673C-100000@arctic>
Rendered body type: text/plain

```
Several responses to someones question about 10M APRS freq.
WB4LTF said between 28.105 to 108
KB4OAM said         28.195
N3EOP suggested     28.2777 (28.APRS)

I liked the last one due to its memorability, but then I also hate
lettered phone numbers because you have to "convert" them to use them...

One that I can certainly remember would be 28.151 LSB ( like 10.151 LSB)

PROBLEM:  We need an HF TNC survey!  We must choose frequencies that
coincide with even 1 KHz so that commercial radios can tune in the signals
with standard TNC's.  They CANNOT RIT...  The current 10.151 was defined
by my old KAM which uses 1700 Hz center tones.  Many new TNCs use 2125 HZ
center tones.  Note that this is a 425 HZ difference that even the Navy
radios with 100 Hz switches cannot hit within 25 HZ.

Of everyone on 10.151 we need a comprehensive survey of who is using 1700
HZ tones and who is using 2125 tones.  If its 50/50 then there is no
reason to standardize.  If it is 10% and 90% then we need to do
something...  WHO on HF can start beaconing a bulletin and requesting
everyone to tell them their tones?  Rather than making them THINK, simply
ask everyone to "report their dial frequency" we can infer their tones
from that...

WHo will volunteer to do this? W3ADO PC monitor is burned up.  Its on the
air, but I cant see the screen without a lot of hassle, or I would...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

690. RE: [APRSSIG:5938] Re: Maps with county lines

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Wed, 30 Oct 96 01:32:02 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199610300135190180@msn.com>
Rendered body type: text/plain

```
Yes it  would be possible to make maps with only politcal boundaries, but one
would have to hack on the makmap code......it is a relatively easy hack...just
a simple software change....har!   The alternative is to make a minimum
feature map from the 1:2,000,000 CD and them delete eveything but boundaries
with mapfix.

Re: boundaries on 100K CD  They ain't there!   This CD was release without
that data.  The manaula says it should be there but I guess they ran out of
room.   You can get the 100K political boundary data from the USGS ftp site.
However a hack would be required in this case as mk100kv3 and earlier versions
ignore any typoe on data not found on the CD.

Jack Cavanagh, KB4XF  (Carolyn is my XYL, aka AC4SK)
cjcavanagh@msn.com
..
```

---

691. Beacon when mobile is stopped QUESTION

From: Richard Parry <rparry@qualcomm.com>
Date: Tue, 29 Oct 1996 12:25:34 -0800
To: aprssig@tapr.org
Message-ID: <v0300780bae9c17567021@[129.46.159.136]>
Rendered body type: text/plain

```
I understand that a mobile station transmits frequently (once every 1-5
minutes) at least compared to a fixed station (once an hour).  Is it
expected practice that when a mobile APRS station (vehicle) "parks" for the
night that it should turned itself off and stop beaconing?

   In other words, I would like to be able to set my APRS vechicle to 5
minute beacons and keep it on 24 hours a day.  Is this bad practice or
acceptable?

   Just trying to be a good APRS neighbor.

---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link Software Engineer
Internal Web --> <http://qcwww/~rparry>
External Web --> <http://www.qualcomm.com/~rparry>
---------------
```

---

692. APRS IN TUCSON

From: David McCarthy <davidmc@goodnet.com>
Date: Tue, 29 Oct 1996 20:01:48 -0700
To: aprssig@tapr.org
Message-ID: <3276C50D.25D7@goodnet.com>
Rendered body type: text/plain

```
Anybody have info about APRS activity in Tucson.  REALYS? WIDES?
Callsigns to look for.  Anything will be apreciated.  Thanks.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

---

693. Re: [APRSSIG:5956] W3IWI-13 DGPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Oct 1996 15:47:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029154637.18065D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 29 Oct 1996, Tom Clark -- W3IWI wrote:
>
> I believe WB4APR still has "hooks" in APRS (they were there eons ago) to
> pass the DGPS bits from the TNC into your GPS receiver. I haven't had the
> chance to test this with a recent APRS 7.x release.

APRSdos REPLY/COMMENT:  I think it is still there.  Select alt-S-GPS-DGPS
and that should do it...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

694. Re: [APRSSIG:5932] Re: Maps & Longitude Latitude Co-ordinates

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Oct 1996 15:41:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961029153845.18065B-100000@arctic>
Rendered body type: text/plain

```
On Mon, 28 Oct 1996, teodoro jaramillo wrote:

> Maps  MISTERY STILL not resolved....
> I have locally  visited and tried from Municipalities and also from a
> Military Organization to obtain any kind of digital Maps for Ecuador...and
>  HC5K

APRSdos REPLY/COMMENT:  Woaha, I spent a lot of time making a map of
Ecuador back in August.  It was probably called ECUADOR.MAP and I posted
it on the SIG im sure.  But I cant find a copy now on ANY of my PC's.
though I did find that I had added the major roads to the South America
NORTH map SANORTH.map.  I will send it to you privately, but I sure hope
someone got a copy of the original ECUADOR.MAP since it had the smaller
roads and towns on it...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

695. Re: [APRSSIG:5954] ARPS PICO w/2port settings?

From: Richard Parry <rparry@qualcomm.com>
Date: Tue, 29 Oct 1996 11:56:47 -0800
To: aprssig@tapr.org
Message-ID: <v0300780aae9c1107f485@[129.46.159.136]>
Rendered body type: text/plain

```
I don't have answer to your question, but since you have a pico from
Paccomm I thought I would ask how you like it so far.  Seems like the APRS
SIG likes the KPC-3.  I was thinking of the Pico with a built in GPS since
it is nice and small and has a few other features.

Since it is expensive $600 before I purchase it, I thought I would ask how
you like it so far?



>Could some expert (or non-expert) please give me to correct settings for
>the Paccom PICO TNC w/2nd port that is used with APRS 7.7d, GArmin 45?
>
>A dump the internal settings of the PICO would be great. Or what are the
>settings required in APRS (dos or WIN).
>
>This APRS stuff sure is fun... once the settings are right. But, maybe it
>is the quest for the right ones that is fun. Dont know.
>
>thanks in advance
>
>Kent V Hufford
>KQ4KK
>khufford@erols.com


*************************************************************************
* Richard R. Parry, R-307B      *  (619) 658-4972 (Day)                 *
* Qualcomm, Inc.                *  (619) 748-2014 (Eve)                 *
* 6455 Lusk Blvd.               *  (619) 658-1022 (Fax)                 *
* San Diego, CA 92121-2779      *  email: rparry@qualcomm.com           *
*************************************************************************
```

696. W3IWI-13 BIG @ PAX

From: Kevin Kelly <kkelly@Radix.Net>
Date: Tue, 29 Oct 96 20:31:41 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199610300131.UAA18665@news1.radix.net>
Rendered body type: text/plain

```
-- [ From: Kevin Kelly * EMC.Ver #3.1 ] --

Greetings SIG:

A quick note to say that Tom Clark's DGPS is going like gangbusters via the
W3PQT-1 digi at Pax River which is located in Southern Md. where the
Patuxent River and the Chesapeake Bay meet.  Should be a hit with the
boaters.

73,
Kevin Kelly/N6QAB
```

697. APRS Node symbol?

From: Kevin Kelly <kkelly@Radix.Net>
Date: Tue, 29 Oct 96 20:31:49 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199610300131.UAA18680@news1.radix.net>
Rendered body type: text/plain

```
-- [ From: Kevin Kelly * EMC.Ver #3.1 ] --

Greeting SIG:

Now that the N6QAB repeater has an APRS Node. I was wondering if anyone has
a suggestion for a "Node" symbol?  And should it have the the Rptr freq
displayed with the symbol, or just put it in the BT.

Your suggestions are most welcome.

73,
Kevin Kelly/N6QAB
```

698. N6QAB Rptr Node

From: Kevin Kelly <kkelly@Radix.Net>
Date: Tue, 29 Oct 96 20:31:45 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199610300131.UAA18674@news1.radix.net>
Rendered body type: text/plain

-- [From: Kevin Kelly * EMC.Ver #3.1] --

Greetings SIG:

The N6QAB repeater is now fully functional as both a voice machine, and an APRS repeater NODE. The frequency is 145.130 minus PL 156.7 (voice), no PL required for Data on the input.

The machine consists of a Midland LMR commercial receiver, exciter, power amp, and a CAT 300DX controller. The Rptr receiver antenna is a Diamond 500XNA dual band antenna @ 90 ft, with the tx antenna located @ 80 ft. The receiver has an inline pre amp installed which gives it .14uV @12dB SINAD sensitivity.

The APRS Rptr NODE taps off the high side of the receiver volume control and is fed to the rx audio pin of port 2 on a KPC-4. Port 1 is connected to a dedicated GE custom MVP on 145.790. The MVP uses an 11 element beam @ 70 ft pointing North to WB4APR-1 for both tx and rx. As luck would have it, the W3PQT-1 Digi is 1 mile away directly off the back end of the beam.

```
MYA = WIDE/WIDE    (PORT 1/PORT 2)
MYG = RELAY
UNPROTO = W3PQT-1,WIDE
```

At the moment no PL is required for APRS "Data" on the NODE input. In the near future, one of the two planned remote sites will be coming online. Due to the nature of the remote installation, PL may be required. Limited testing of APRS "data" transmissions with PL on the input have not degraded the NODE's operation. More experimentation will take place later, once the voter is added to the system.

If you plan on being in the southern Md. area, whether by auto, boat, or plane, bring your APRS gear and MIC-E because we are APRS friendly!

73,
Kevin Kelly/N6QAB

---

699. ATV with FM xmtr

From: Glenn Little <glittle@awod.com>
Date: Tue, 29 Oct 1996 20:31:46 -0500
To: aprssig@tapr.org
Message-ID: <199610300020.TAA24195@sumter.awod.com>
Rendered body type: text/plain

Ralph

Saw a message with your title on it.

We are trying to get som ATV activity in Charleston, SC.

Can you point me to some information on rebiasing the finals on a comercial 440 MHz FM transceiver to operate on AM??

Would like to use PA from commercial FM rig.

73
Glenn Little
WB4UIV

WB4UIV@amsat.org
glittle@awod.com

---

700. 30m "hits" on the Left Coast

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Tue, 29 Oct 1996 12:55:39 -0800
To: aprssig@tapr.org
Message-ID: <32766F4B.42F5@ix.netcom.com>
Rendered body type: text/plain

Had a very interesting morning. At 06:30 PST. I had a total of 17 states on screen on APRS. Thats the highest I've seen to date. Curious as to "who" is the Maritime Mobil "YP694"..? had a couple of solid hits directly on 30m. Tried a few "one liners", but got no "ACK's" back. May have been stand-alone.

73 de Bill KB6LFM
APRS GATEWAY Stn in SFO.

701. Re: [APRSSIG:5947] Re: Map data from remote U2000

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Tue, 29 Oct 1996 18:46:26 -0600 (CST)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961029182942.19416C-100000@ns1>
Rendered body type: text/plain

On Tue, 29 Oct 1996, Bob Bruninga wrote:

```
> Unless you tell me what is on the P-LIST for that station, I cant tell
> anything from what you sent me...
>
```

Sorry....don't have all the lingo down....thought what I sent would be of some help. I assume P-LIST is P from the main menu...if not how about a more detailed explanation of what you want and how to get there so I don't have to read the whole readme directory. P from the main menu says it is positions and not P-LIST however, so this may all be in vain. As follows:

P from main menu gives my position and

```
WB4QEV-3 291849 !******/3031.31N/08807.31W_
```

and nothing else

V from the main menu gives

```
WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
WB4QEV-3>GPS:!!0000008802E003B1----03CE--------012E055200000000
```

BTW nothing shows up on WinAPRS (which I assume you have nothing to do with) either which makes me beleive the problem is on my end.

```
Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
_______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                         (334) 405-4600
```

```
> > >
>  I have an Ultimeter 2000 set up remotely.  What follows is an example of
>  its packets.  I get the blue dot but no wind direction indicator from the
>
>  WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
>  WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
>  WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046

> > >
> > > APRSdos REPLY/COMMENT:  I will need you to send me the exact format as
> > > APRS displays it on the P-List if you want me to figure out anything...
```

702. Re: [APRSSIG:5948] Re: WinAPRS 1.1.6 and HSP

From: rbost@itexas.net (Roy Bost)
Date: Tue, 29 Oct 1996 18:08:35 -0600
To: <aprssig@tapr.org>
Message-ID: <19961030000841825.AAA152@rbost.itexas.net>
Rendered body type: text/plain

Try using a KPC-9612...everything shows up as HF! :-)

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

703. Re: [APRSSIG:5952] Re: 10 Meter Freq. ?

From: rhiii@mnsinc.com (Richard H.)
Date: Wed, 30 Oct 1996 01:27:40 GMT
To: aprssig@tapr.org
Message-ID: <3276ad5f.125887487@relay.mnsinc.com>
Rendered body type: text/plain

```
Oh no Bob.   28.2-28.3 is sacred ground for beacons -- lets not tread
on them.

de Richard/n2jr
-------------------------------------------------------------------------------------------------
On Tue, 29 Oct 1996 11:05:04 -0600 (CST), you wrote:

>On Mon, 28 Oct 1996, Richard H. wrote:
>
>> 28105lsb sound like a winner Tom.  Let me know when the testing
>> begins.
>
>APRSdos REPLY/COMMENT:  Actually, I liked the 28.2777 (28.APRS) idea and
>was in the process of adding it to my docs.  But Im not a 10m operator, so
>You guys figure it out and lemme know...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
```

704. Re: [APRSSIG:5951] Re: 6M Frequency Proposal

From: rhiii@mnsinc.com (Richard H.)
Date: Wed, 30 Oct 1996 01:27:38 GMT
To: aprssig@tapr.org
Message-ID: <3276acfb.125787756@relay.mnsinc.com>
Rendered body type: text/plain

```
Agree !!  50.62 would be just fine.     Next issue:  horizontal or
vertical polarization ?

de Richard/n2jr
------------------------------------------------------------------------------------
On Tue, 29 Oct 1996 11:04:30 -0600 (CST), you wrote:

>On Mon, 28 Oct 1996, Richard H. wrote:
>
>> Rich --  what are the problems with 50.62 ?  Missed it the first time
>> around.
>
>APRSdos REPLY/COMMENT:  He cant get a radio that will tune both the high
>end and the low end of the band simultaneously.  In my opinion, that is
>what makes 50.62 so good.  Nobody with a voice radio is going to bother
>with it, so if you xtal up an old low band radio and dedicate it to APRS,
>then you have no problems...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
```

705. Re: 6M Frequency Proposal

From: kf7tp@juno.com (Keith E Justice)
Date: Tue, 29 Oct 1996 21:50:03 EST
To: aprssig@tapr.org
Message-ID: <19961029.174733.9902.1.kf7tp@juno.com>
Rendered body type: text/plain

```
You are right on, there Bob.  Low band Mitrek radios are coming on the
surplus market for $40 or less, and if you belong to a club that can get
a donation, or can pick up a pallette of them, for a lot less.  They are
(relatively) small, and can be xtaled for about $25 per radio.

On Tue, 29 Oct 1996 11:04:30 -0600 (CST) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>On Mon, 28 Oct 1996, Richard H. wrote:
>
>> Rich --  what are the problems with 50.62 ?  Missed it the first
>time
>> around.
>
>APRSdos REPLY/COMMENT:  He cant get a radio that will tune both the
>high
>end and the low end of the band simultaneously.  In my opinion, that
>is
>what makes 50.62 so good.  Nobody with a voice radio is going to
>bother
>with it, so if you xtal up an old low band radio and dedicate it to
>APRS,
>then you have no problems...
>
>Reply mail addr:  wb4apr@amsat.org
>See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>
```

---

706. RE: [APRSSIG:5960] Beacon when mobile is stopped QUESTION

From: Larry Griffin <largriff@swta.com>
Date: Tue, 29 Oct 1996 23:03:52 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC5ED.7598F4A0@red150.onramp.net>
Rendered body type: text/plain

```
----------
From:   Richard Parry[SMTP:rparry@qualcomm.com]
<snip>
   In other words, I would like to be able to set my APRS vechicle to 5
minute beacons and keep it on 24 hours a day.  Is this bad practice or
acceptable?

*****

It would be nice if TNCs had an input to select 1 of 2 posrates.  When
parked beaconing once an hour might be plenty.  When mobile a faster rate
could be switched manually or wired to the ignition.  How about it?

Larry - AB5GE
```

---

707. Software Registration APRS

From: "Jerry Gumbus" <n4gki@worldnet.att.net>
Date: Tue, 29 Oct 1996 18:24:36 -0500
To: <aprssig@tapr.org>
Message-ID: <19961029232506.AAA13558@main-pc>
Rendered body type: text/plain

```
To: Bob Bruninga  WB4APR

Bob, Have you recieved my letter for registration of the APRS Program?

Jerry Gumbus  n4gki@worlnet.att.net
```

---

708. Re: Maps with county lines

From: morganb@inetport.com (Robert B. Morgan)
Date: Wed, 30 Oct 1996 00:49:39 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199610300649.AAA22760@admin.inetport.com>
Rendered body type: text/plain

```
>
>Re: boundaries on 100K CD  They ain't there!   This CD was release without
>that data.  The manaula says it should be there but I guess they ran out of
>room.   You can get the 100K political boundary data from the USGS ftp site.
>However a hack would be required in this case as mk100kv3 and earlier versions
>ignore any typoe on data not found on the CD.
>
>Jack Cavanagh, KB4XF  (Carolyn is my XYL, aka AC4SK)

I would be interested in knowing the nature and extent of the hack myself.
I also eventually need to produce some maps for skywarn use, and they need
to resemble what the NWS uses on their radar screens, which is normally
county line maps, also occasionally river & watershed boundary maps.
I already downloaded some of the USGS data, and discovered that the
routine couldn't input it.  To me, it would appear that the downloadable
input would be preferable to the CD, which could get outdated and costs a
few $$.

73 de Bob WB5AOH
Austin, TX
morganb@admin.inetport.com
```

---

709. EGA Monitor: No color with APRS

From: jud <judlynn@norfolk.infi.net>
Date: Wed, 30 Oct 1996 02:21:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199610300721.CAA01541@mh004.infi.net>
Rendered body type: text/plain

My monitor for the desk top is in the shop being fixed. I picked up an EGA
RGB color monitor to use with my Zenith Data Systems M/N ZWL-184-97 Laptop
computer. Several programs in the Laptop such as packet programs are
working great in color but the APRS program only runs in Black and White
with the EGA monitor. My question is, will APRS work in color using an EGA
system and if it does is there something in the APRS software that I am over
looking. Any help or comments will be greatly appreciated.

```
  73, Jud, KE4HFX  Norfolk, VA Gate 30 Meters - 2 Meters
                              ))(((((
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

---

710. WinAPRS Serdll32.dll file

From: Chris Dapples <ccdapple@wtp.net>
Date: Tue, 29 Oct 1996 12:52:26 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <9610291952.AA03386@wtpprod1.wtp.net>
Rendered body type: text/plain

I just downloaded the Serdll32.dll file from the TAPR WinAPRS
directory. Now when I
try to open WinAPRS I get the error message "Unable to load
'Serdll32.dll'. I used binary
download so I don't think I messed up the file. Is this a problem
at my end, or is the
new Serdll32.dll file not working properly??

Chris Dapples, KF7KN
ccdapple@wtp.net

---

711. Re: [APRSSIG:5954] ARPS PICO w/2port settings?

From: aprs@juno.com (ap rs)
Date: Wed, 30 Oct 1996 01:46:24 EST
To: aprssig@tapr.org
Message-ID: <19961030.004432.9486.5.aprs@juno.com>
Rendered body type: text/plain

Here's what I use:

LGE $05   (very important!)

LOC EV 40   (for when the computer is off)

LPATH APRS VIA RELAY,WIDE   (or whatever path you want- used ONLY when
computer is off and Pico is in auto-tracker mode)

GPSTEXT $GPRMC   (set to the one sentence you wish to send- the Pico
only supports one right now)

APRS sets the rest, just tell it you have a TNC2
I don't set ELOC, APRS works fine without it for me

One thing: The Pico doesn't seem to be able to take quick, multiple
commands at 9600 bps, so I set the baud rate of APRS and the Pico at
1200. Bob supposedly added delays, but I can't tell it.

Ralph N4NEQ
rwf@mindspring.com

On Tue, 29 Oct 1996 11:29:22 -0600 (CST) "Kent Hufford"
<khufford@erols.com> writes:
>Could some expert (or non-expert) please give me to correct settings for
>the Paccom PICO TNC w/2nd port that is used with APRS 7.7d, GArmin 45?

---

712. Re: Beacon when mobile is stopped QUESTION

From: aprs@juno.com (ap rs)
Date: Wed, 30 Oct 1996 06:31:20 EST
To: aprssig@tapr.org

Message-ID: <19961030.074820.8622.1.aprs@juno.com>
Rendered body type: text/plain

```
I have suggesed to both Paccomm and Kantronics that the GPS firmware have
a selectable "speed up or slow down function" that will speed up the
posrate if the fix appears to be changing (more thannormal SA) and will
slow down when it seems stopped.

The fast and slow limits would be user settable.

I also asked Bob to look at something like this in the live APRS program,
too but I think he forgot about it. It was a year ago.

Paccomm was very receptive to my suggestion, Kantronics didn't seem to
care much.


ralph
rwf@mindspring.com

 Larry Griffin <largriff@swta.com> writes:
>----------

>It would be nice if TNCs had an input to select 1 of 2 posrates.  When
>parked beaconing once an hour might be plenty.  When mobile a faster
>rate could be switched manually or wired to the ignition.  How about it?
```

---

713. Re: [APRSSIG:5960] Beacon when mobile is stopped QUESTION

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Wed, 30 Oct 1996 07:02:46 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961030065355.4583A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Good Question! I'd suggest setting the mobile up to come on when the
vehicle is started and shut down when you turn it off. If you want to
track the vehicle the instant that it is started, then you'll need to
keep the gps running all the time. (Most gps's have a delay in satelite
aquiring, some up to 15 mins!) However, if you were using the system to
track emergency vehicles, I'd suggest leaving it on all the time! If you
left it on all the time, though, it would beacon every time, thus
creating much un-needed traffic.

Bob, or anybody, is there a way to set this up so that no packets are
transmitted unless the vehicle is travelling? Or is that already in there?



On Tue, 29 Oct 1996, Richard Parry wrote:

>    I understand that a mobile station transmits frequently (once every 1-5
> minutes) at least compared to a fixed station (once an hour).  Is it
> expected practice that when a mobile APRS station (vehicle) "parks" for the
> night that it should turned itself off and stop beaconing?
>
>    In other words, I would like to be able to set my APRS vechicle to 5
> minute beacons and keep it on 24 hours a day.  Is this bad practice or
> acceptable?
>
>    Just trying to be a good APRS neighbor.
>
> ---------------
> Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
> Globalstar/Gateway Reverse Link Software Engineer
> Internal Web --> <http://qcwww/~rparry>
> External Web --> <http://www.qualcomm.com/~rparry>
> ---------------
>
>
```

---

714. Re: [APRSSIG:5978] EGA Monitor: No color with APRS

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Wed, 30 Oct 1996 08:27:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199610301327.IAA05462@itchy.mosquito.com>
Rendered body type: text/plain

At 01:27 10/30/96 -0600, you wrote:

>with the EGA monitor. My question is, will APRS work in color using an EGA
>system and if it does is there something in the APRS software that I am over
>looking. Any help or comments will be greatly appreciated.
>
> 73, Jud, KE4HFX Norfolk, VA Gate 30 Meters - 2 Meters

EGA works with no problem. I've had two of them working until the first
monitor gave up of old age! I'm still using the 2nd with a 286... the 286
is slow but EGA definitely works.

Have fun es 73 de Boyd
w2hob@mosquito.com

715. Re: [APRSSIG:5975] RE: Beacon when mobile is stopped QUESTION

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Wed, 30 Oct 1996 08:27:24 -0500
To: aprssig@tapr.org
Message-ID: <327757BC.44B6@the-hermes.net>
Rendered body type: text/plain

Larry Griffin wrote:
>
> ----------
> From: Richard Parry[SMTP:rparry@qualcomm.com]
> <snip>
>   In other words, I would like to be able to set my APRS vechicle to 5
> minute beacons and keep it on 24 hours a day. Is this bad practice or
> acceptable?
>
> *****
>
> It would be nice if TNCs had an input to select 1 of 2 posrates. When
> parked beaconing once an hour might be plenty. When mobile a faster rate
> could be switched manually or wired to the ignition. How about it?
>
> Larry - AB5GE

The MIC-Encoder has a 3/4 turn potentiometer on the front panel which
allows the posrate to be slowed by various factors, 1:2, 1:3, ... 1:8.
So you could have posits sent every 10 minutes as the base time and then
extend that up to 80 minutes. You need not even use its MIC-Encoder
features, simply let it send the packets automatically (set the "auto"
time).

The MIC-E is currently (or will be soon) in Beta test through TAPR.
Commercial versions (and quantity purchases) will be available through
PacComm.

Will, N3XLM

```
|=====================================|
|  Dr. William I. Clement, President  |
|  Clement Engineering, Inc.          |
|  1261 Dogwood Road                  |
|  Arnold, MD  21012                  |
|  (410) 518-6591  (my office)        |
|  (410) 268-6736  (sales)            |
|  (410) 268-4612  (fax)              |
|  wclement@the-hermes.net            |
|=====================================|
```

716. Re: [APRSSIG:5982] Re: Beacon when mobile is stopped QUESTION

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Wed, 30 Oct 1996 06:01:18 -0800
To: aprssig@tapr.org
Message-ID: <32775FAE.74EF@ix.netcom.com>
Rendered body type: text/plain

J. Scott Ratchford wrote:
>
> Good Question! I'd suggest setting the mobile up to come on when the
> vehicle is started and shut down when you turn it off. If you want to
> track the vehicle the instant that it is started, then you'll need to
> keep the gps running all the time. (Most gps's have a delay in satelite
> aquiring, some up to 15 mins!) However, if you were using the system to
> track emergency vehicles, I'd suggest leaving it on all the time! If you

> left it on all the time, though, it would beacon every time, thus
> creating much un-needed traffic.
>
> Bob, or anybody, is there a way to set this up so that no packets are
> transmitted unless the vehicle is travelling? Or is that already in there?
>
> On Tue, 29 Oct 1996, Richard Parry wrote:
>
> >   I understand that a mobile station transmits frequently (once every 1-5
> > minutes) at least compared to a fixed station (once an hour). Is it
> > expected practice that when a mobile APRS station (vehicle) "parks" for the
> > night that it should turned itself off and stop beaconing?
> >
> >   In other words, I would like to be able to set my APRS vechicle to 5
> > minute beacons and keep it on 24 hours a day. Is this bad practice or
> > acceptable?
> >
> >   Just trying to be a good APRS neighbor.
> >
> > ---------------
> > Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
> > Globalstar/Gateway Reverse Link Software Engineer
> > Internal Web --> <http://qcwww/~rparry>
> > External Web --> <http://www.qualcomm.com/~rparry>
> > ---------------
> >
> >
KB6LFM here.

I've wired my APRS system so the GPS (Garmin-45) and TNC (KPC-3) are
"ON" at all times, and the "Rig" comes on and off with the Ignition.

717. Re: [APRSSIG:5985] Re: Beacon when mobile is stopped QUESTION

From: "Paul W. Burke" <pwburke@imperium.net>
Date: Wed, 30 Oct 1996 09:27:25 -0500
To: aprssig@tapr.org
Message-ID: <327765CD.3F45@imperium.net>
Rendered body type: text/plain

> KB6LFM here.
>
> I've wired my APRS system so the GPS (Garmin-45) and TNC (KPC-3) are
> "ON" at all times, and the "Rig" comes on and off with the Ignition.This seemed like a good place top
ask this:

I am interested in APRS and have a Garnin 55 GPS that I utilize for flying.
I have a KPC-3 that I use for mobile and updated the prom last year tro support GPS operation.

My question is what software is reccomended. I downloaded several softwares last night including one for
 dos
and one for windows. My new laptop has win95.

This SIG seems to be very active and that is great.

If there is a setup FAQ for my configuration that would be great too.

Thanks,

Paul W. Burke
KB8VAS
pwburke@imperium.net

718. Re: [APRSSIG:5979] WinAPRS Serdll32.dll file

From: Mark Sproul <sproul@ap.org>
Date: Wed, 30 Oct 1996 09:12:58 -0500
To: aprssig@tapr.org
Cc: ccdapple@wtp.net
Message-ID: <v03007804ae9d12b126c2@[165.1.27.177]>
Rendered body type: text/plain

>I just downloaded the Serdll32.dll file from the TAPR WinAPRS
>directory. Now when I
>try to open WinAPRS I get the error message "Unable to load
>'Serdll32.dll'. I used binary
>download so I don't think I messed up the file. Is this a problem
>at my end, or is the
>new Serdll32.dll file not working properly??
>
>Chris Dapples, KF7KN

```
>ccdapple@wtp.net

Download the W116UPDT.ZIP, this contains the application and the ZIP files
without the MAPS etc.  This is the best way to get the DLLs

Mark

___________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

719. Motrakmotranmicormaxarmitrek?

From: dougwe@ccintnet.wrq.com
Date: Wed, 30 Oct 96 07:08:50 PST
To: aprssig@tapr.org
Message-ID: <9609308466.AA846688266@ccintnet.wrq.com>
Rendered body type: text/plain

```
Anyone know of a web site that contains Motorola commercial-ham
     conversion info?

     Thanks!

     Doug
     KC7CO
```

720. Re: [APRSSIG:5956] W3IWI-13 DGPS

From: Mark Humphrey <mark@y100.com>
Date: Wed, 30 Oct 1996 10:20:25 -0500
To: aprssig@tapr.org
Message-ID: <32777239.2F98@y100.com>
Rendered body type: text/plain

```
Tom Clark -- W3IWI wrote:
>
> Today I made a minor change on the W3IWI-13 DGPS beacon to provide better
> coverage, especially into the Chesapeake Bay. Formerly the beacon was
> sending its <UI> frames W3IWI-13>WIDE where the main WIDE I see is
> WB4APR-1 in Annapolis. I changed it to W3IWI-13>WIDE>WIDE so that there
> was a better chance of hitting the PAX RIVER digi, as well as providing
> better coverage to the north into PA/SNJ.
> I am anxious to get reports, both on the W3IWI-13 coverage area and from
> people who use the DGPS signals with their GPS receiver.


I am copying most of your DGPS beacons here in the Philadelphia area,
via the WIDE digis N2CHV-3 and W3PHL-3.    I haven't used the
corrections with my Garmin 45 yet, but hope to try this later in the
week.  If I connect the RX data from the TNC (KPC-3) directly to the
Garmin, will the Garmin automatically filter out non-DGPS data, or will
this cause errors?

A question for WB4APR:  My "Heard" log shows less than ten packets per
hour from W3IWI-13, although I am actually receiving over 100 per hour.
What happens in the log if the number received from a particular station
exceeds 99?


73, Mark N2CHV
```

721. Re: [APRSSIG:5974] Re: 6M Frequency Proposal

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Wed, 30 Oct 1996 08:19:01 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.961030081616.20495A-100000@willow>
Rendered body type: text/plain

```
Plus they're a lot easier to tune up at 50.62 than 52 or 53 Mhz...

On Tue, 29 Oct 1996, Keith E Justice wrote:

> You are right on, there Bob.  Low band Mitrek radios are coming on the
> surplus market for $40 or less, and if you belong to a club that can get
> a donation, or can pick up a pallette of them, for a lot less.  They are
> (relatively) small, and can be xtaled for about $25 per radio.
>


Chris, AA7WD
```

---

722. Re: Beacon when mobile is stopped QUESTION

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Wed, 30 Oct 1996 09:48:41 -0600
To: aprssig@tapr.org
Message-ID: <9610300948.AA41623@oscar.telalink.net>
Rendered body type: text/plain

```
Good question. Part of the answer depends on how much activity is in your area
and how far your position beacons propagate. There are not many mobile users
in my area and generally I leave mine on when I am driving around town and
only turn it off when i get home at night. Others in town leave theirs on all
of the time.

I have always wanted to to build a circuit to allow packets when the ignition
is on and to drop to a timing mode when the ignition is off. I set the TNC to
beacon a position every minute. When I park the timer kicks in. In 5 minutes
the timer stops allowing transmissions for 30 minutes then allows them for 5
minutes then stops allowing transmissions for 30 minutes. This sequence goes
on until the car is turned on again. A switch could be added to over-ride the
timer. The transmission interrupt could be cutting power to the transmitter or
simply interrupting the PTT or Audio Out lines from the TNC. My original
thought was just to cut power to the transmitter but since I started using
older synthesized rigs that lose their memory when you cut the power I have
decided the "open PTT" is the better method. Some day I will sit down and do
it. Maybe if I wait long enough someone with less patience will design one
first.

>    I understand that a mobile station transmits frequently (once
> every 1-5 minutes) at least compared to a fixed station (once an
> hour).  Is it expected practice that when a mobile APRS station
> (vehicle) "parks" for the night that it should turned itself off and
> stop beaconing?
>
>    In other words, I would like to be able to set my APRS vechicle
> to 5 minute beacons and keep it on 24 hours a day.  Is this bad
> practice or acceptable?
>
>    Just trying to be a good APRS neighbor.
>
> ---------------
> Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B Globalstar/


--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                    *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733         *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W       *
* "Never ask what sort of computer a guy drives.               *
* If he's a Mac user, he'll tell you.                          *
* If not, why embarrass him?"    -- Tom Clancy                 *
****************************************************************
```

---

723. RE: [Fwd: [APRSSIG:5988] Motrakmotranmicormaxarmitrek?]

From: Jeff DePolo WN3A <depolo@intermediainc.com>
Date: Wed, 30 Oct 1996 11:16:30 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Cc: "'mark@y100.com'" <mark@y100.com>
Message-ID: <01BBC653.CD9B1AA0@jd.intermediainc.com>
Rendered body type: text/plain

```
>Anyone know of a web site that contains Motorola commercial-ham
>     conversion info?
>
>     Thanks!
>
>     Doug
>     KC7CO

There are a couple of Simtel archive sites that have ham radio mods, and a
few of the mods are for GE/Motorola equipment.  If you have any specific
questions I can probably answer them, especially for Micor, Maxar, Moxy,
```

Mitrek, Mastr II, and other radios of that era.

I'm not on this mailing list -- your message was forwarded to me by Mark
N2CHV, so please respond via email. Thanks.

--- Jeff

```
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
Jeff DePolo  WN3A
Net: depolo@intermediainc.com
Twisted Pair: H:610-337-7383 W:215-387-3059 x300
RF: 442.1 442.2 442.4 442.5 443.45 443.8 444.15 448.425 linked
```

724. Re: [APRSSIG:5988] Motrakmotranmicormaxarmitrek?

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 30 Oct 1996 08:45:47 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961030083842.92A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

On Wed, 30 Oct 1996 dougwe@ccintnet.wrq.com wrote:

```
>      Anyone know of a web site that contains Motorola commercial-ham
>      conversion info?
>
  Try www.Hams.com/perens/HamRadio/ModsAndManuals/Motorola. I love them
mitreks. I started out using them for 9600 packet and now use them for
everything. Yea I'am stuck on a few freqs but I NEVER get inter/cross mod!
The icom/kenwood/yeasu's seem like toys after using a motorola. Too bad
they go for featuritus rather than solid inband basic performace.
```

Bob - wd6dod

725. Re: [APRSSIG:5958] HF on 10m

From: Paul Christenson <paul@tech.cyclades.com>
Date: Wed, 30 Oct 1996 08:48:31 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961029215658.2755A-100000@tech.cyclades.com>
Rendered body type: text/plain

On Tue, 29 Oct 1996, Bob Bruninga wrote:

> PROBLEM: We need an HF TNC survey!

> Of everyone on 10.151 we need a comprehensive survey of who is using 1700
> HZ tones and who is using 2125 tones.

The problem is that the 30m users aren't necessarily an accurate sample of who would be on 10m. Aside from the licensing issue, there are a lot more of the 25w class 10m single band rigs out there.

As for my 28.APRS suggestion.. what I had in mind is that new users, with a standard 1200 baud (VHF-FM) TNC could tune to 28.2777 and be quite close to the signal.

de N3EOP/6

```
        +----------------------------------------------------+
        | Technical Support Engineer, Cyclades Corporation   |
        | 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
        | High Performance Multiport Serial Cards & Routers  |
        | Unsolicited mail ads subject to a $25 handling fee |
        +----------------------------------------------------+
```

726. Re: [APRSSIG:5989] Re: W3IWI-13 DGPS

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 30 Oct 1996 12:26:25 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961030172625.0088b508@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 09:28 10/30/96 -0600, Mark Humphrey <mark@y100.com> wrote:
[...]
>
>I am copying most of your DGPS beacons here in the Philadelphia area,
>via the WIDE digis N2CHV-3 and W3PHL-3.   I haven't used the
>corrections with my Garmin 45 yet, but hope to try this later in the

```
>week.  If I connect the RX data from the TNC (KPC-3) directly to the
>Garmin, will the Garmin automatically filter out non-DGPS data, or will
>this cause errors?
>

Well, I don't have the same rig, (I use a Motorola GPS & PACCOMM
Handipacket) but I do exactly what you're suggesting. It works for me.

>A question for WB4APR:  My "Heard" log shows less than ten packets per
>hour from W3IWI-13, although I am actually receiving over 100 per hour.
[...]

That's good news.  Shows that W3IWI's transmission interval is
about right since you're still getting about 2 corrections a minute
even with all those bounces through WIDE,WIDE which should be
enough to keep your GPS locked on differential, and the freq
still not clobbered.

Bob Kirk
N3OZB





>
>73, Mark N2CHV
>
>
```

727. Re: [APRSSIG:5991] Re: Beacon when mobile is stopped QUESTION

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Wed, 30 Oct 1996 11:53:23 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <m0vIepQ-00008kC@ernest.itg.ti.com>
Rendered body type: text/plain

```
> I have always wanted to to build a circuit to allow packets when the ignition
> is on and to drop to a timing mode when the ignition is off. I set the TNC to
> beacon a position every minute. When I park the timer kicks in. In 5 minutes
> the timer stops allowing transmissions for 30 minutes then allows them for 5
> minutes then stops allowing transmissions for 30 minutes. This sequence goes
> on until the car is turned on again. A switch could be added to over-ride the
> timer. The transmission interrupt could be cutting power to the transmitter or
> simply interrupting the PTT or Audio Out lines from the TNC. My original
> thought was just to cut power to the transmitter but since I started using
> older synthesized rigs that lose their memory when you cut the power I have
> decided the "open PTT" is the better method. Some day I will sit down and do
> it. Maybe if I wait long enough someone with less patience will design one
> first.

With the PK-12 you can ground one of the RS232 pins and that will
trigger a transmit.  At least I think you ground it; the manual
isn't in front of me.  So, check if your TNC can do that then interface
your circuit to that.


--
Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-972-575-6427                        6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

728. Re: [APRSSIG:5972] Re: 10 Meter Freq. ?

From: Paul Christenson <paul@tech.cyclades.com>
Date: Wed, 30 Oct 1996 10:07:47 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961030100617.6611A-100000@tech.cyclades.com>
Rendered body type: text/plain

```
On Tue, 29 Oct 1996, Richard H. wrote:

> Oh no Bob.   28.2-28.3 is sacred ground for beacons -- lets not tread
> on them.

I thought that the beacons were moved to below 28.1 around the time of
Novice Enhancement.
```

729. SUGGESTED APRS HF FREQS...

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Wed, 30 Oct 1996 11:45:40 -0800
To: aprssig@tapr.org
Message-ID: <199610301945.LAA23497@poseidon.coastside.net>
Rendered body type: text/plain

```
All APRS Siggers,
   Foll msg sent back in March, ref recient HF msg on sig.. For
consideration...Believe info still applies, except for the 20M
how about trying 14120 or 14125 away from current QRM from Mailbox
Beacon freq and other uses from 14093-14115 ????...(My 386/33 generates
hetrodynes, does urs ??)
          ---------------------------------------

APRS @ ALLUS                                       Filed: 032300GMT MAR 96
    Several messages concerning HF freqs for APRS have been seen on the sig
here and on Packet BBS's..
    Here are some suggestions by George/W8FWF and in Readme files, over a year
old:
-------------------------------------------------------------------------------
APRS HF FREQUENCIES OPERATIONS                          JAN 95
--------------------------------
HF FREQS: MFJ/KAM   AEA'S   Mode   NORMAL USAGE
          10.151    10.1515 LSB    Mostly East Coast so far (Calif late eves)
           7.085     7.0855 Lsb    Mostly West Coast. (Ocassionaly now )
          14.0963   14.0958 USB    Proposed new APRS DX Freq.


HERE ARE SOME OF THE APRS FREQUENCIES NOW IN USE ON THE LOW BANDS....
THE ENTRIES WITH (P) ARE NEWLY PRO0POSED FREQUENCIES STILL BEING TESTED..(By
who?)
--------------------------------------------------------------------------------
ACTUAL XMIT FREQ.    MFJ/KAM DIAL (1700HZ TONE)      AEA DIAL (2210HZ TONE)
--------------------------------------------------------------------------------
  3583.3 KHZ (P)      3,585   KHZ (LSB)                3585.51 KHZ (LSB)
  7083.3 KHZ          7,085   KHZ (LSB)                7085.51 KHZ (LSB)
10,149.3 KHZ         10,151   KHZ (LSB)              10,151.51 KHZ (LSB)
14,098   KHZ         14,096.3 KHZ (USB)              14,095.79 KHZ (USB)
18,098   KHZ (P)     18,096.3 KHZ (USB)              18,095.79 KHZ (USB)
21,098   KHZ (P)     21,006.3 KHZ (USB)              21,095.79 KHZ (USB)
24,928   KHZ (P)     24,926.3 KHZ (USB)              24,925.79 KHZ (USB)
28,098   KHZ (P)     28,096.3 KHZ (USB)              28,095.79 KHZ (USB)

  (Note: the 24Meg freq may be in error, someone correct me if so)
===========================================================================
The low bands will provide more activity and longer distances to the other
station. While a VHF TNC works at 1200 bauds, on the Low Bands, you will need
a TNC that will operate at a 300 baud rate. Several are available. Ideally,
you should opt for a TNC that will allow for simultaneous operation (GATEWAY)
on the low ands and also the VHF band. This allows you to link (GATE) the HF
data from the HF band, down to the VHF side. To see the newmerous HF out of
state APRS stations on your local VHF network band. (VHF 145.79/14501 & few
others.)
   Please read the HF.TXT file in the programs README.DIR. This will enlighten
many on the HF to VHF only use of GATEWAY stations and GATE paths.
   QSO among yourselves on testing the SUGGESTED frequencies, let the rest of
us know. Am willing to help, need date,time (GMT) and freq and will give it a
go OM..
    73's & Enjoy, Bill/WB6LPG SanFran Bay Area 30M reliable GATEWAY station,
on daily.. See Feb issue P45 of Cruising World for APRS for Yachting Hams.
Off mexico more S/V appearing, QSO and encourage the Yachting World about APRS.
NNNN


WBB/WB6LPG
```

730. w7lus-14

From: n9flx@indygate.kb9law.ampr.org
Date: Wed, 30 Oct 96 16:19:18 EST
To: aprssig@tapr.org
Message-ID: <4021@IndyGate.ampr.org>
Rendered body type: text/plain

I have copied W7LUS-14 APRS signals from almost every state in the Union,
via his, I assume, 18-wheeler.
Am very curious to know the type of radio equipment he is using that keep
him in contact with virtually the rest of the world in sometimes remote
parts of the country via HF packet.

```
I send this query to the SIG, as I see W7LUS working in the northeast today.
Thanks for reading:   Hal

SIGnature file:
                N9FLX.........      H.G. Hardy USMC/ret
                E-mail........      n9flx@indygate.ampr.org
                Home BBS......      N9FLX@WJ9U.#CENIN.IN.USA.NOAM
                IP ADDR.......      N9FLX   [44.48.70.173]
                IP ADDR.......      N9FLX-2 [44.48.70.174]
                QTH...........      Indianapolis,IN. 46208zip
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

---

731. [Fwd: new Mir Frequencies.. Comments?]

From: Doug Wetzel <dougwe@wrq.com>
Date: Wed, 30 Oct 1996 14:17:50 -0800
To: aprssig@tapr.org
Message-ID: <3277D40E.7933@wrq.com>
Rendered body type: text/plain

```
Just found this on the satellite newsgroup -

Time to check your deviation, everyone!

Doug
KC7CO
```

---

732. Re: 10 Meter Freq. ?

From: vodall@juno.com
Date: Wed, 30 Oct 1996 12:53:15 MST
To: aprssig@tapr.org
Message-ID: <19961030.125822.8247.3.vodall@juno.com>
Rendered body type: text/plain

```
On Tue, 29 Oct 1996 22:28:06 -0600 (CST) rhiii@mnsinc.com (Richard H.)
writes:
>Oh no Bob.   28.2-28.3 is sacred ground for beacons -- lets not tread
>on them.
>
>de Richard/n2jr

Or maybe it would be a good opportunity to show how well packet (both
APRS and
even a plain old heard list) works as an indicator of band openings...
Packet
certainly isn't a weak signal mode but it does had some nice
advantages...

Using up 25% of the Novice/Tech allocation for beacons might not be a
great idea when a couple packet channels (with CW id's) could provide
about the same
functionality and more.

73,
Bill - WA7NWP
```

---

733. Re: [APRSSIG:5933]

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 30 Oct 96 18:01:41 -0500
To: <aprssig@tapr.org>
Message-ID: <199610302257.RAA01610@bridge.net>
Rendered body type: text/plain

```
>o javAPRS: For the past two months, we have been working with
>Steve Dimse (K04HD) to identify some browser specific issues in his
>javAPRS work.  Steve has identified these issues and we are now ready
>to make our javAPRS site public. Running with a dedicated transceiver
>on 144.390MHz. (Canadian APRS frequency), we are providing real time
>javAPRS updates from 15 minutes to 24 hours of activity - automatically!
>
Nice work John...a couple of comments.

I don't know what connection you have with the internet, but the files
seem to come across pretty slowly, less than 500 bytes/sec, even early in
the morning. Probably nothing you can do abt it though.

How about adding a USA map to the maplist? I'd be nice to see if anything
is coming thru the local gate.
```

There is a feature that I don't think I had documented that might be of interest to you.

<param name="fileReload1" value="900"> would cause datafile1 to get reloaded every 900 seconds (15 minutes). The best way to use this is to reload the 15 minute file every 15 minutes, and then load the long duration file specific for the html file. They'll be dups received for the last 15 minutes, but the advantage would be continued updates.

Steve KO4HD

734. Re: [APRSSIG:5960] Beacon when mobile is stopped QUESTION

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:13:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030180838.8956B-100000@arctic>
Rendered body type: text/plain

On Tue, 29 Oct 1996, Richard Parry wrote:

> I understand that a mobile station transmits frequently (once every 1-5
> minutes) at least compared to a fixed station (once an hour). Is it
> expected practice that when a mobile APRS station (vehicle) "parks" for the
> night that it should turned itself off and stop beaconing?

APRSdos REPLY/COMMENT: An interesting problem. Hook a 555 timer to the IGNITION that drives some kind of circuit to only pass through the PTT once every now and then... when the ignition is off.?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

735. Re: Maps with county lines

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 30 Oct 96 18:07:13 EST
To: <aprssig@tapr.org>
Message-ID: <961030230712_71301.3106_FHJ20-1@CompuServe.COM>
Rendered body type: text/plain

I don't know if Jack has delved very deeply into the 100K "Boundaries" files, but I've been playing with them for a couple of months trying to get consistent results with MacDLG. In short, I can't. At least not yet.

It appears that the Boundaries dataset relies a lot on "area" datatypes rather than the "line" types we're using. Also, there are a number of line records that don't have any line type attributes that have political boundary significance. It's been somewhat frustrating because every time I think "I've got it!", something else breaks the scheme. If I just let all untyped line records result in vectors, the output contains a bunch of extraneous lines such as quadrant boundaries.

So... as far as the 100K data goes, that's a long way around to say "we're still working on it".

...mike/N0QBF

736. Re: [APRSSIG:5966] APRS Node symbol?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:17:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030181612.8956C-100000@arctic>
Rendered body type: text/plain

On Tue, 29 Oct 1996, Kevin Kelly wrote:

> Now that the N6QAB repeater has an APRS Node for the MIC encoder. I was
> wondering if anyone has a suggestion for a "Node" symbol?

APRSdos REPLY/COMMENT: I have made it and tested it and it will be in the next version. It is tiny letters MIC arranged vertically Kinda like a tower...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

737. Re: [APRSSIG:5969] 30m "hits" on the Left Coast

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:20:27 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030181803.8956D-100000@arctic>
Rendered body type: text/plain

```
On Tue, 29 Oct 1996, kb6lfm wrote:

> Had a very interesting morning. At 06:30 PST.  I had a total of 17
> states on screen on APRS. Thats the highest I've seen to date. Curious
> as to "who" is the Maritime Mobil "YP694"..? had a couple of solid hits
> directly on 30m.

APRSdos REPLY/COMMENT:  My fault.  It is a naval academy boat.  I was
giving a demo to some students and tuned in 10151.  Put my call in the
BText.  THen we walked over to an adjacent boat to get it up for some
keyboard chats aross the pier, and when I sent the students back to the
first boat IT WAS GONE!  It had gotten underway!

It gets back Friday...  We will beeing doing a full class demo to about 17
students at about 1430 EST on Friday..

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

738. Re: [APRSSIG:5970] Re: Map data from remote U2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:25:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030182216.8956E-100000@arctic>
Rendered body type: text/plain

```
On Tue, 29 Oct 1996, Geoff Peacock wrote:

> WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> WB4QEV-3>GPS:!!0000008802E003B1----03CE--------012E055200000000

How widely separated in time are these packets.  The first one is the WX
stationi BText shoing position only.  You will NOT see any WX data until
the next WX packet comes in.  At that point, the entry on the P-LIST
(positions screen) should include not only the position but should have
the WX data added on the end.

As sson as the next BText posit comes in, though, it overwrites the WX
data until it comes in again...
```

---

739. Re: [APRSSIG:5975] RE: Beacon when mobile is stopped QUESTION

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:32:36 -0500 (EST)
To: aprssig@tapr.org
Cc: gwyn@paccomm.com
Message-ID: <Pine.GSO.3.95.961030182707.8956G-100000@arctic>
Rendered body type: text/plain

```
On Tue, 29 Oct 1996, Larry Griffin wrote:

> It would be nice if TNCs had an input to select 1 of 2 posrates.  When
> parked beaconing once an hour might be plenty.  When mobile a faster rate
> could be switched manually or wired to the ignition.  How about it?

APRSdos REPLY/COMMENT: Gwyn, this would be atrivial software mod to your
TNC's.  WHen in GPS mode, use the DSR data set ready INPUT to the TNC to
toggle between HIGH rate and low.  If this option is selected in the TNC
menu, then when DSR is held high (by the ignition switch) then the rate is
normal.  When DSR goes low, then the rate is multiplied by 4...  Or
actually by N.   I would make the new TNC command be RATE N.  Where N=0
means the feature is disabled (default) and when N is non zero, then it
works!

Reply mail addr: wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

740. Re: [APRSSIG:5978] EGA Monitor: No color with APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:37:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030183613.8956J-100000@arctic>
Rendered body type: text/plain

```
On Wed, 30 Oct 1996, jud wrote:
```

```
> computer.  Several programs in the Laptop such as packet programs are
> working great in color but the APRS program only runs in Black and White
> with the EGA monitor.  My question is, will APRS work in color using an EGA
> system and if it does is there something in the APRS software that I am over
> looking.  Any help or comments will be greatly appreciated.

APRSdos REPLY/COMMENT:  You may have an EGA monitor, but that system must
be working in CGA mode.  APRS will work with EGA, but in CGA mode it
reverts to B/W since that is all that is available in HI-RES mode...  Your
laptop is clearly a CGA video system.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

741. Re: [APRSSIG:5981] Re: Beacon when mobile is stopped QUESTION

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:42:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030184020.8956L-100000@arctic>
Rendered body type: text/plain

```
On Wed, 30 Oct 1996, ap rs wrote:

> I have suggesed to both Paccomm and Kantronics that the GPS firmware have
> a selectable "speed up or slow down function" that will speed up the
> posrate if the fix appears to be changing (more thannormal SA) and will
> slow down when it seems stopped.
> I also asked Bob to look at something like this in the live APRS program,

APRSdos REPLY/COMMENT:  APRS has always had this feature.  If your GPS
position does not change, then APRS decays the posit.  But with the
effects of selective availablility making even a fixed station appear to
move, this doesnt help.  ALso it means you have to leave the LAPTOP on in
the carr all the time if you want APRS do do anything...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

742. Re: [APRSSIG:5989] Re: W3IWI-13 DGPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:46:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030184524.8956M-100000@arctic>
Rendered body type: text/plain

```
On Wed, 30 Oct 1996, Mark Humphrey wrote:

> A question for WB4APR:  My "Heard" log shows less than ten packets per
> hour from W3IWI-13, although I am actually receiving over 100 per hour.
> What happens in the log if the number received from a particular station
> exceeds 99?

APRSdos REPLY/COMMENT:  Unfortunately the DGPS packets are NOT counted by
APRS, only the W3IWI-13 BEACON texts...

If any station exceeds 99, it stays at 99

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

743. Football tracking 96

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 30 Oct 1996 18:55:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961030185337.8956O-100000@arctic>
Rendered body type: text/plain

```
>
>      Naval Academy Director of Athletics Jack Lengyel has announced today
> that the December 7 Army-Navy football game at Philadelphias Veterans
> Stadium is sold out.

APRSdos REPLY/COMMENT:  THere you have it.  The APRS footbal trcking
exercise will begin at noon on Friday the 6th and run all night to cease
at 7 AM on the 7th... in Philadelphia.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

744. Re: [APRSSIG:6000] [Fwd: new Mir Frequencies.. Comments?]

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 30 Oct 96 19:32:40 -0500
To: <aprssig@tapr.org>
Message-ID: <199610310028.TAA02220@bridge.net>
Rendered body type: text/plain

```
>I am not really to happy about them switching as I know there are a
>lot of APRS people at 145.79 and when doppler is compensated for there
>will be substantial interference. The 145.200 freq is also in use by
>various digital packet nodes in the region.. be sure to listen on your
>transmit frequency to be sure it is not in use before using.. These
>frequencies will definitly help out the european community where
>145.55 is a common simplex frequency but I am not sure how it will be
>taken here or in the rest of the world. It would seem to me that this
>push to change frequencies has been well resisted, but now the moment
>has come, and we shall all see how this european frequency change
>works..

I wouldn't sweat it too much. I doubt they will be able to tolerate it
for long, as it will QRM MIR far more than us. Imagine listening to all
the APRS LANs in the country at once, with doppler shift they will be
hearing us only 7khz away from their center freq as they approach each
lan. When listening for voice on 145.2 they will be hearing all those
unattended packet stations.

>From the perspective of the APRS user, the situation looks much better.
There will be 4 or 5 passes a day for most stations, 10 or 15 min each,
with "bad" doppler shifts for less than half of each pass. The station
will only be transmitting intermittantly during that time. Few of us will
ever notice anything.

My advice is just to ignore the problem, and it will probably go away.

Steve KO4HD
```

---

745. (no subject)

From: dougwe@ccintnet.wrq.com
Date: Wed, 30 Oct 96 16:26:39 PST
To: aprssig@tapr.org
Message-ID: <9609308467.AA846723349@ccintnet.wrq.com>
Rendered body type: text/plain

```
Can someone refresh my memory - what's the conversion factor from
     inches to millibars?

     Thanks
     Doug
     KC7CO
```

---

746. Re: [APRSSIG:6007] Re: Map data from remote U2000

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Wed, 30 Oct 1996 18:51:36 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961030184947.28411B-100000@ns1>
Rendered body type: text/plain

```
Both packets were within a few minutes of each other, the beacon coming
first and painting the blue dot.  The actual wx data never shows in the
position list. It is never appended to the beacon text.

Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
________________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                          (334) 405-4600

On Wed, 30 Oct 1996, Bob Bruninga wrote:

> On Tue, 29 Oct 1996, Geoff Peacock wrote:
>
> > WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> > WB4QEV-3>GPS:!!0000008802E003B1----03CE--------012E055200000000
>
> How widely separated in time are these packets.  The first one is the WX
> stationi BText shoing position only.  You will NOT see any WX data until
> the next WX packet comes in.  At that point, the entry on the P-LIST
> (positions screen) should include not only the position but should have
> the WX data added on the end.
>
```

```
> As sson as the next BText posit comes in, though, it overwrites the WX
> data until it comes in again...
>
>
```

---

747. Re: [APRSSIG:6006] Re: 30m "hits" on the Left Coast

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Wed, 30 Oct 1996 17:00:37 -0800
To: aprssig@tapr.org
Message-ID: <3277FA35.F89@ix.netcom.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Tue, 29 Oct 1996, kb6lfm wrote:
>
> > Had a very interesting morning. At 06:30 PST.  I had a total of 17
> > states on screen on APRS. Thats the highest I've seen to date. Curious
> > as to "who" is the Maritime Mobil "YP694"..? had a couple of solid hits
> > directly on 30m.
>

> APRSdos REPLY/COMMENT:  My fault.  It is a naval academy boat.  I was
> giving a demo to some students and tuned in 10151.  Put my call in the
> BText.  THen we walked over to an adjacent boat to get it up for some
> keyboard chats aross the pier, and when I sent the students back to the
> first boat IT WAS GONE!  It had gotten underway!
>
> It gets back Friday...  We will beeing doing a full class demo to about 17
> students at about 1430 EST on Friday..
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html


APRSdos REPLY/COMMENT: Believe "Missing Ships Movement" is still a
Courtmartial offence CMDR! Hi..!
I'll be looking for UR demo on Fri at 14:30 EST.

73 de Bill  KB6LFM
```

---

748. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
From: JOHN.LANGTRY@resonet.com
Received: by gw.resonet.com (5.65v3.2/DEC-Ultrix/4.3)
        id AA26881; Wed, 30 Oct 1996 20:54:27 -0500
X400-Received: by mta MTA-1 in /ADMD=TELECOM.CANADA/C=CA/;
        Relayed; 31 Oct 1996 01:54:26 +0000
X400-Received: by /ADMD=TELECOM.CANADA/C=CA/;
        converted (IA5-Text);
        Relayed; 31 Oct 1996 01:47:00 +0000
Date: 31 Oct 1996 01:47:00 +0000
X400-Originator: /PN=JOHN.LANGTRY/DD.ID=JOHN.LANGTRY/O=SCNM/ADMD=TELECOM.CANADA/C=CA/@resonet.com
X400-Mts-Identifier: [/ADMD=TELECOM.CANADA/C=CA/;SNGA-1385-3900]
To: aprssig@tapr.org
Subject: Peel.Com
Importance: normal
Autoforwarded: FALSE
Message-Id: <"SNGA-1385-3900*/O=ENVOY
 100/ADMD=TELECOM.CANADA/C=CA/"@MHS>
X400-Content-Type: P2-1984 (2)
Priority: normal


Folks :

John VE3SVE has taken one very large step forward for those of us
up here in the Great White North, and (pardon the pun) done a very
F.B. job of putting "these few acres of snow" on the map !

Take a deep bow, John, you certainly deserve it ! Fine job, well done.

For those of you that would like to see what we're up to, up here;
or indeed to see if you're being heard in Canada; try WWW.PEEL.COM
push the APRS button and go from there. (Bob, you can now see why
I don't really want the RMC string from the eyes of the law; hi,
```

now they don't even need to run APRS to nail me !)

John, when you read this, be kind, and remember, your Father's pension and my continued salery, pend on you not really disclosing how you get into the Internet. (Ahem) We are working on a box in my shop that will give you DS-1 (1.544 M/sec) over regular copper pairs ... this will only come to light if some of us continue to have our jobs ... so don't poke the parent company .... hi hi hi ! (You guessed it, folks, we're telephone people .... SVE does his thing with R.F. as I do mine with fiber.)

And to Steve KO4HD, also tremedous congratters; and I "kinda" agree that the U.S. map should be included in the list. (I gate the signals thru to the 2M network in our area.) However, (ahem) the addition of the U.S. map should not be at the loss of "important" maps ... cough, meaning, of course, the Georetown map !

As to why it was / may be slow during the day, is that numerous members of the telephone families have been playing with it, and having great fun ! ... Now, if we could only get the java applet to run over our very dumb fire wall router (made in 1929), we'd really be getting somewhere !

Till next time, my vy 73 de John VE3NEC

---

749. Re: [APRSSIG:6003] Re: Beacon when mobile is stopped QUESTIO

From: ttyamada@CCGATE.HAC.COM
Date: Wed, 30 Oct 96 16:27:31 PST
To: aprssig@tapr.org
Message-ID: <9609308467.AA846728803@CCGATE.HAC.COM>
Rendered body type: text/plain

Maybe this could be built into the MIC, or maybe this could
     be another PIC project?

     How about:
     1) Sense the distance traveled from the GPS string
     2) Define a *trigger* amount/distance larger than SA
     3) If the distance traveled is larger than *trigger*,
        Then post the data at rates according to amount of distance
        from last transmission point or velocity.
     4) Use the Ignition to run/halt the transmission by a
        sensing line or just killing power?

     Just some ideas.....
     73, Ted...

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:6003] Re: Beacon when mobile is stopped QUESTION
Author: aprssig@tapr.org at CCGATE
Date: 10/30/96 3:50 PM

On Tue, 29 Oct 1996, Richard Parry wrote:

> I understand that a mobile station transmits frequently (once every 1-5
> minutes) at least compared to a fixed station (once an hour). Is it
> expected practice that when a mobile APRS station (vehicle) "parks" for the
> night that it should turned itself off and stop beaconing?

---

750. Re: [APRSSIG:6013] Re: [Fwd: new Mir Frequencies.. Comments?]

From: Bob Lorenzini <hwm@netcom.com>
Date: Wed, 30 Oct 1996 18:38:38 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961030183813.126A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

Packet always wins over voice.

Bob - wd6dod

---

751. Freq Change date for Mir, Nov 1 (fwd)

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 30 Oct 1996 21:53:46 -0500 (EST)
To: APRS sig group <aprssig@tapr.org>
Message-ID: <Pine.BSF.3.91.961030215234.173B-100000@laraby.tiac.net>
Rendered body type: text/plain

I thought the following message would be of interest to all of us on 145.79

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

---------- Forwarded message ----------
Date: 30 Oct 96 12:45:25 EDT
From: Miles Mann/PicTel <Miles_Mann@smtpnotes.pictel.com>
To: Keith N Thews <kthews@iusb.edu>
Cc: amsat-bb <amsat-bb@amsat.org>
Subject: Freq Change date for Mir, Nov 1

```
29-Oct-96  09:58:39  R0MIR*>CQ (UI):
SINCE 11-01-96 NEW FREQ ON MIR:145.800 IN PAC, 145.800 Rx/145.200 Tx IN VOICE


29-Oct-96  09:59:53  CONNECTED to R0MIR-1
Logged on to R0MIR's Personal Message System
CMD(B/H/J/K/KM/L/M/R/S/SR/V/?)>
r 43Stat   : PR
Posted : 10/29/96 18:29
To     : ALL
>From   : R0MIR
@ BBS  :
xID    :
Subject: new Mir frequency

Since November 1 we'll have new frequency on Mir.
xPacket - 145.800
Voice   - 145.800 Rx/145.200 Tx.
These frequencies are recommended us by the International amateur
conference in region 1.
We'll open for contacts on new frequency.
73  Mir crew

CMD(B/H/J/K/KM/L/M/R/S/SR/V/?)>
b - Logged off
29-Oct-96  10:00:28  DISCONNECTED: R0MIR-1
```

Dear Amsat-bb Members:

In responce to Miles Mann's notification of the freq. change. I would like to ask when effective will the .55 to .8 change occur or if it has already occurred already. I did hear John talking last Sunday to a few hams on my scanner radio in Elkhart, IN. The time was in the early afternoon.

Going back to the freq. change: I will inform the newspapers in my area as to the change whenever it is about to occur or has occurred.

Sincerely,
Keith Thews
kthews@oit1.iusb.edu

752. RE: Maps with county lines only

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Thu, 31 Oct 96 01:12:40 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199610310112290380@msn.com>
Rendered body type: text/plain

de jack cavanagh, kb4xf
In response to an overwhelming number of requests (3), here is the hack to makmap.bas to get only political boundaries

In line 29 of the source code change

```
        finx%=1
to
        finx%=4
```

When the program asks for the maximum number of features your answer will be 4

I have tested this one time for Wisconsin for a 64 mile map center on 44N 89W

```
This will work FB for land-locked states.  For coastal or Great Lake states
like WI the shore line is needed. In this case change line 29 to read
        finx%=2
You will then get rivers and small lakes too, but mapfix can take them out.

gotchas
 1-You need the complier BASIC QuikBasic 4.5 (qb45.exe) to run makmap
        becasue of the large arrays

 2- qb45.exe must be invoked with large memory option with the commnad
        line:  qb45 /ah

RE 2M Formats:
   I have just learned that USGS has a new 2M CD.  The limited description
that I found on the internet suggest that data is current as on Dec 1994.
However, the format (one of the three on the CD) used for makmap is not on new
CD.  I have sent for data sheet from USGS.  If change is needed and APRS users
want it, I could have a new program out by end of year.

jack
cjcavanagh@msn.com
```

---

753. Re: [APRSSIG:6018] Re: Beacon when mobile is stopped QUESTIO

From: rbost@itexas.net (Roy Bost)
Date: Wed, 30 Oct 1996 21:07:58 -0600
To: <aprssig@tapr.org>
Message-ID: <19961031030759441.AAA151@rbost.itexas.net>
Rendered body type: text/plain

```
Lets see.......as I remember....almost all radios come with a current
interupter called
 an on\off switch! ;-)

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

---

754. Re: [APRSSIG:6013] Re: [Fwd: new Mir Frequencies.. Comments?]

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 30 Oct 1996 19:48:53 -0800
To: aprssig@tapr.org
Message-ID: <199610310348.TAA05926@m1.sprynet.com>
Rendered body type: text/plain

```
Gee......Maybe this would be an OPPORTUNITY for a REAL Space Digipeater!
No, I'm SERIOUS!!!

If they're going to be on 145.80 why not try to get permission to use the
digipeater on a restricted basis.  Perhaps on only certain orbits (such as
late night hours outside of the normal voice/digital operating periods)?

Here's the best opportunity we've had since SPRE!  How do we get this done?

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

755. Re: [APRSSIG:6014]

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 30 Oct 1996 19:53:32 -0800
To: aprssig@tapr.org
Message-ID: <199610310353.TAA07179@m1.sprynet.com>
Rendered body type: text/plain

```
At 18:57 10/30/96 -0600, you wrote:
>     Can someone refresh my memory - what's the conversion factor from
>     inches to millibars?
>
>     Thanks
>     Doug
>     KC7CO
>
1 millibar = 0.02953 inches of mercury (Hg)
```

```
1 inch of Hg = 33.865 millibars

You're welcome!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

756. Re: W3IWI-13 DGPS

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 30 Oct 1996 22:56:09 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961031035609.006ac480@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
>I believe WB4APR still has "hooks" in APRS (they were there eons ago) to
>pass the DGPS bits from the TNC into your GPS receiver. I haven't had the
>chance to test this with a recent APRS 7.x release. Can Bob or somebody
>report if it still works, and perhaps post a note on how to configure
>APRS to make it happen?
>
>73 de Tom, W3IWI
>

It works fine on the version I'm using, APRS77B. You just select
'dgps' under GPS modes. I'm using a laptop with a pcmcia second
comm port so I don't know if it works in the single port HSP
configuration. No reason to suspect it doesn't.

Unrelated but interesting: the two port APRS setup only seems
to work when I select the TNC to COMM2 (PCMCIA slot) and the
GPS in COMM1 (regular serial port). No idea why. Does anyone else
have this problem? Perhaps I made some goof in the initial setting
and it means nothing.

Bob Kirk
N3OZB
```

---

757. Re: [APRSSIG:6012] Football tracking 96

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 30 Oct 1996 22:59:15 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961031035915.006d6510@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 06:01 PM 30-10-96 -0600, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
[...]>
>APRSdos REPLY/COMMENT:  THere you have it.  The APRS footbal trcking
>exercise will begin at noon on Friday the 6th and run all night to cease
>at 7 AM on the 7th... in Philadelphia.
>
>

How come you don't get to go along and track the trip
to the Notre Dame game? :-)

Bob Kirk
N3OZB
```

---

758. Inches & Millibars

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 30 Oct 1996 23:04:07 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961031040407.006cc0dc@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 06:58 PM 30-10-96 -0600, dougwe@ccintnet.wrq.com wrote:
>     Can someone refresh my memory - what's the conversion factor from
>     inches to millibars?
>
>     Thanks
>     Doug
>     KC7CO
>

An easy way to remember, is to use the ratios of 'standard'
```

atmospheric pressures in both systems: 1013.2 (millibars)
divided by 29.92 (inches). It's 33 point something, but I
find it easier to remember the 2 components.

Bob Kirk
N3OZB

---

759. Re: [APRSSIG:6021] RE: Maps with county lines only

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 30 Oct 1996 20:14:59 -0800
To: aprssig@tapr.org
Message-ID: <199610310414.UAA12758@m1.sprynet.com>
Rendered body type: text/plain

```
>   I have just learned that USGS has a new 2M CD.  The limited description
>that I found on the internet suggest that data is current as on Dec 1994.
>However, the format (one of the three on the CD) used for makmap is not on new
>CD.  I have sent for data sheet from USGS.  If change is needed and APRS users
>want it, I could have a new program out by end of year.
>
>jack
>cjcavanagh@msn.com
>
```

Yes, DEFINITELY!!!!! please, PLEASE, PPppppppppppppppLLLEEEEEZZZZ! (a la
Roger Rabbit).

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

760. Re: [APRSSIG:5988] Motrakmotranmicormaxarmitrek?

From: aprs@juno.com (ap rs)
Date: Wed, 30 Oct 1996 22:36:51 EST
To: aprssig@tapr.org
Message-ID: <19961030.223951.8630.0.aprs@juno.com>
Rendered body type: text/plain

There's some link system out West that has conversions for Mitreks and
even plans for their "special: 440 beam on the web. do a search for
mitrek and I think you will find it. I will not be home for a week *and
that's where my bookmark file is)

Ralph

On Wed, 30 Oct 1996 09:14:07 -0600 (CST) dougwe@ccintnet.wrq.com writes:

```
>     Anyone know of a web site that contains Motorola commercial-ham
>     conversion info?
```

---

761. Re: [APRSSIG:6017] Peel.Com

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 30 Oct 96 23:43:09 -0500
To: <aprssig@tapr.org>
Message-ID: <199610310438.XAA06335@bridge.net>
Rendered body type: text/plain

```
>And to Steve KO4HD, also tremedous congratters; and I "kinda" agree
>that the U.S. map should be included in the list. ( I gate the signals
>thru to the 2M network in our area. ) However, (ahem) the addition of
>the U.S. map should not be at the loss of "important" maps ... cough,
>meaning, of course, the Georetown map !
>
```

I'm sorry...I had meant to send those comments direct to John, but I sent
it to the whole sig by mistake. There is no limit to the number of maps
javAPRS can handle...in fact poking around in the /maps directory I see
John already has a map list file with a couple dozen maps... maybe it's a
coming attraction!

```
>As to why it was / may be slow during the day, is that numerous members
>of the telephone families have been playing with it, and having great
>fun !  ... Now, if we could only get the java applet to run over our
>very dumb fire wall router (made in 1929), we'd really be getting
>somewhere !
>
```

Yea, that depression era computer equipment is real hard to work with!

Now, for those of you that can run javAPRS directly on your computer, I
have an HTML file that will put the Atlanta APRS server, a couple of
Bob's semi-live data files, and John's live data all on the same applet.
Pretty neat! (It won't run under Netscape because of security issues, but
stand-alone applet viewers like the Java Development Kit have the option
of turning the security off.

Steve KO4HD

762. Re: [APRSSIG:6012] Football tracking 96

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 31 Oct 96 00:04:40 -0500
To: <aprssig@tapr.org>
Message-ID: <199610310500.AAA09160@bridge.net>
Rendered body type: text/plain

>APRSdos REPLY/COMMENT: THere you have it. The APRS footbal trcking
>exercise will begin at noon on Friday the 6th and run all night to cease
>at 7 AM on the 7th... in Philadelphia.
>
Will your javAPRS site be able to follow this live?

Steve KO4HD

763. MIR/MAREX - more

From: w4wwq@juno.com (Peter J Lascell)
Date: Wed, 30 Oct 1996 21:59:06 PST
To: aprssig@tapr.org
Cc: k4abt@sedan.org
Message-ID: <19961030.215908.4543.1.W4WWQ@juno.com>
Rendered body type: text/plain

Here is a bit more edited info on the controversey from K4ABT.

Pete W4WWQ
w4wwq@juno.com

==

Please read, and PLEASE RESPOND to the authors of this mess any and
every way
you know how. Also let the APRS guys know that if/when a 30 kHz wide
signal goes on 145.800, we will all suffer...

Your help is solicited... call, write.. E-Mail.. If any of your have
addresses, or other information about the MAREX/MIR group, please pass it

along to others [and to] the SEDAN so they too can respond ...in kind!

____
Return-path: <wharrell@surfsouth.com>
Resent-From: wharrell@surfsouth.com
Resent-Message-Id: <199610292301.SAA13620@cindy.surfsouth.com>
Comments: Authenticated sender is <wharrell@surfsouth.com>
Resent-to: k4abt@sedan.org
Resent-date: Mon, 21 Oct 1996 15:28:49 +0000
Errors-To: owner-amsat-bb@amsat.org
Sender: owner-amsat-bb@amsat.org
Precedence: List
To: Amsat-Bb <Amsat-Bb@amsat.org>
From: Miles Mann/PicTel <Miles_Mann@smtpnotes.pictel.com>
Date: 29 Oct 96 8:37:39 EDT
Subject: Mir Frequency change

The Space Station Mir, may have a Frequency change soon.
The Radio Club IARU, decided to change the frequency for the space
Station Mir.
This IARU radio club does not have any equipment on Mir, yet they decided
to
change Mir's Frequency. The Mir Amateur Radio Experiment Working Group
North America (MAREX) is opposed to this frequency change because in
Region 2 (the USA), the QRM caused by adjacent channel interference
would make access to
Mir extremely difficult for expirenced stations with Oscar class
equipment.
And impossible for anyone with a lesser station.

FACT

1. Satellite FM requires a 30k Clear channel, on either side of the operating frequency!
2. 145.770 - 145.790 are packed with full time unattended uncorrdinated packet
repeaters and APRS beacons!
3. The ERP required to hit Mir will increase from 5 watts ERP to over 5000 kW
ERP
4. Ground Stations in the USA will not be able to hear Mir when there is any
local packet activity between 145.770 - 145.790

The MAREX Working Group of NA, recommend using the two Satellite subbands for
all future Manned space flight amateur Radio Activities.

Band 1, 144.300 - 144.500
Band 2, 145.800 - 146.000

In Band 1 we recommend for Mir and ISS, any frequency between
144.325-144.475
In Band 2 we recommend for Mir and ISS, any frequency between 145.820-145.830

An impact study was done to determine the impact on the SSB activity to Region
1 of having an
uplink only to Mir and ISS. It was determined the impact of having an FM
uplink to Mir and ISS on SSB activities in region 1 would be absolutely
Minimal and should not
be considered as a factor.

Sincerely

G. Miles Mann

MAREX Activities Coordinate North America

Hello MIR crew !
On behalf of Sergej Samburov (RV3DR) and the
SAFEX team, this needs to be done IMMEDIATELY:

1. Set up a message on 70 cm beacon (SAFEX QSO mode)
   saying

   To all hams around the world.
   SAFEX, SAREX, MAREX will be in a conference
   from 4th November through 5th November in
   Houston, Texas.
   This is an international conference for future
   space HAM goals.
   The participants wish ALL hams to work together.

2. IMMEDIATELY change the MIR's 2 mtr frequency for
   all modes (packet and voice) to 145.800 MHz

3. Send beacon on 2 mtr packet saying

   NEW MIR QRG 145.800 PACKET

---

764. Re: Beacon when mobile is stopped

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 31 Oct 1996 02:07:22 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961031020735.29571fb8@mailhost.primenet.com>
Rendered body type: text/plain

At 09:10 PM 10/30/96 -0600, Roy Bost wrote:
>Lets see.......as I remember....almost all radios come with a current
>interupter called
> an on\off switch! ;-)

>

Perhaps you didn't understand the original question or the concept. A variable rate beacon would be very advantageous in a mobile stand-alone tracker. Smart-aleck answers that aren't even funny do no good for a person asking a legitimate technical question.

The easiest solution would be a firmware upgrade from TNC makers, but my personal experience with most of them has been negative, when asking technical questions or trying to offer suggestions. I've found that calls to Kantronics result in finding out that I know more about their product than the people answering the phone. And they won't let me talk to any one in the design and engineering dept. AEA ditto. Varying beacons based on movement of the vehicle as parsed by GPS should account for SA. Often times my GPS will give ground speeds of 2 to 3 MPH when the car is sitting still.

So it's probably up to APRS users to find a solution. My first suggestion would be to tap power off a switched accessory terminal of a car's fusebox and connect it to a small relay to control the variable rate. I suppose this could be controlled in other various manners: A switch that is activated when the car is placed into gear, or even a seat-pressure switch.

This could be connected to a small timer circuit (555) that disables/enables either the PTT line to the TNC or in some other way inhibits the transmitter from TX'ing. Other design considerations should be proper isolation and some method of timer/tx feedback, so that the timer circuit doesn't shut off the the system when it is keyed up. I know this is a probably not a major concern, but with my luck my system would get into some kind of loop where it would time out and never send any packets.

Another consideration is how to get the timer to sync with the beacon. Say we set the normal beacon rate to every 5 minutes and want it to beacon every 20 minutes of so when the car is shut off. To make sure that the RX is enabled, we'd need the set the timer so that it allows packets to be transmitted for a period longer than the beacon rate. In the above example we'd need to have the timer disable TX for 15 minutes or so and then enable TX for 6 minutes or so (to make sure we cover a complete beacon cycle). Of course this may allow in rare cases for two packets to be sent in the low beacon rate. Perhaps some form of active feedback would be better, but probably a whole lot more complex. Of course, if one wanted to alter the beacon rate of the TNC it would be advantageous for the timer circuit to be programmable for "sleep time" and "enable time."

Perhaps someone has a design for just such a timer circuit.

73,

Mark KC7BXS

---

765. Re: [APRSSIG:5989] Re: W3IWI-13 DGPS

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 31 Oct 1996 06:18:27
To: aprssig@tapr.org
Message-ID: <199610311118.GAA19053@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Wed, 30 Oct 1996 Mark Humphrey wrote:

>What happens in the log if the number received from a partic-
>ular station exceeds 99?

This happened here in the Tri-state area not long ago when a station hastily started up APRS and left the office, inadvertently setting the beacon rate of his TNC (no computer) at 30 seconds using an effective path of RELAY,WIDE,WIDE (actually, I was the relay, WA2JNF-4 the first WIDE, then a generic WIDE.) Since I heard him directly as well as both of those WIDEs, my "H" list on him reached 99 within about three minutes!

Fortunately I knew which repeater this fellow hangs out on and told him about it. He hightailed it back to the office and changed it that evening. Nonetheless, his beacons were taking up better than 75% of the available bandwidth! Embarrasing! 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

766. Variable Position Reporting Rate

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 31 Oct 1996 06:57:09 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC6F8.BD0AA0C0@gwyn.paccomm.com>
Rendered body type: text/plain

Reference Ralph Fowler's suggestion about variable reporting rate and Bob's observation that he can control this, but obviously only if APRS is controlling the beacons. Bob (APR) has made this suggestion to us a number of times.

We have added Ralph's suggestion to our upgrade list. It will get added to the code, but I cannot promise any availability date yet. Will also look at a slow/fast rate toggle line which was suggested in another message.

From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent: Wednesday, October 30, 1996 12:48 PM
To: aprssig@tapr.org
Subject: [APRSSIG:6010] Re: Beacon when mobile is stopped QUESTION

On Wed, 30 Oct 1996, ap rs wrote:

> I have suggesed to both Paccomm and Kantronics that the GPS firmware have
> a selectable "speed up or slow down function" that will speed up the
> posrate if the fix appears to be changing (more thannormal SA) and will
> slow down when it seems stopped.
> I also asked Bob to look at something like this in the live APRS program,

APRSdos REPLY/COMMENT: APRS has always had this feature. If your GPS position does not change, then APRS decays the posit. But with the effects of selective availablility making even a fixed station appear to move, this doesnt help. ALso it means you have to leave the LAPTOP on in the carr all the time if you want APRS do do anything...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

767. Re: [APRSSIG:6014]

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Thu, 31 Oct 1996 06:51:12 -0800
To: aprssig@tapr.org
Message-ID: <3278BCE0.4651@worldnet.att.net>
Rendered body type: text/plain

dougwe@ccintnet.wrq.com wrote:
>
> Can someone refresh my memory - what's the conversion factor from
> inches to millibars?
>
> Thanks
> Doug
> KC7CO

in Hg x 33.86 = Mb

768. Re: [APRSSIG:6028] RE: Maps with county lines only

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 31 Oct 1996 06:25:08 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961031122508.006ae3fc@tbcnet.com>
Rendered body type: text/plain

The old format USGS/2M data for a few Midwest states can be found at:
ftp.tbcnet.com/pub/jleonard/2M_Maps
See the README.txt file.

In this directory are the old format USGS 2M maps for:
1. State and County lines (mw_poli.gra)
2. Water bodies (mwh2o.gra)
3. Major Roads and Interstates - may be dated (mw_roads.gra)

4.   Streams (mw_strea.gra)
5.   The conversion program for those maps, USGS2MAP.BAS, included in
        the APRS program

To make a map with county/state lines, use mw_poli.gra and also mwh2o.gra
for Lake Michigan and the Mississippi River, for example.

Just follow the instructions in the USGS2MAP program.

These maps cover the following states:
IL
IA
IN
MO
KY

Those are the only states that I have info on.

73
jbl

At 22:18 10/30/96 -0600, you wrote:
>>   I have just learned that USGS has a new 2M CD. The limited description
>>that I found on the internet suggest that data is current as on Dec 1994.
>>However, the format (one of the three on the CD) used for makmap is not on
new
>>CD. I have sent for data sheet from USGS. If change is needed and APRS
users
>>want it, I could have a new program out by end of year.
>>
>>jack
>>cjcavanagh@msn.com
>>
>
>Yes, DEFINITELY!!!!! please, PLEASE, PPpppppppppppppLLLEEEEEZZZZ! (a la
>Roger Rabbit).
>
>73 de Jim, KU0G
>Chairman/Coordinator
>Kansas City APRS Working Group
>EMail: ku0g@kcaprs.com
>EMail: ku0g@sprynet.com
>

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

---

769. Re: [APRSSIG:6035] Variable Position Reporting Rate

From: aprs@juno.com (ap rs)
Date: Thu, 31 Oct 1996 08:12:17 EST
To: aprssig@tapr.org
Message-ID: <19961031.092735.12318.0.aprs@juno.com>
Rendered body type: text/plain

On Thu, 31 Oct 1996 05:59:40 -0600 (CST) Gwyn Reedy <gwyn@paccomm.com>
writes:
>We have added Ralph's suggestion to our upgrade list. It will get
>added to
>the code, but I cannot promise any availability date yet.

Thanks, Gwyn. Always a joy when a manufacturer listens... and acts!

ralph
rwf@mindspring.com

---

770. RE: [APRSSIG:6033] Re: Beacon when mobile is stopped

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 31 Oct 1996 08:35:44 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC706.8309A840@gwyn.paccomm.com>
Rendered body type: text/plain

On Wednesday, October 30, 1996 10:11 PM, Mark
Fellhauer[SMTP:sparkfel@primenet.com] wrote:
>The easiest solution would be a firmware upgrade from TNC makers, but my
>personal experience with most of them has been negative, when asking
>technical questions or trying to offer suggestions. I've found that calls

>to Kantronics result in finding out that I know more about their product
>than the people answering the phone. And they won't let me talk to any
one
>in the design and engineering dept. AEA ditto.

Not all manufacturers are that way. Call me sometime!

We are already researching methods to provide this feature in our GPS
support functions.

>Varying beacons based on
>movement of the vehicle as parsed by GPS should account for SA. Often
times
>my GPS will give ground speeds of 2 to 3 MPH when the car is sitting
still.

That is correct. It may be rather software intensive to filter out all
non-real motion, but probably some 90 or 95% could realistically be
detected.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(BX-`0:0" `$```````!``$``0>0!@`(````Y 0``````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D``````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`-0```%).B!;05!24U-)1SHV,#,S72!293H@0F5A8V]]N
M('=H96X@;6]B:6QE(&ES('-T;W!P960`QA !!8 #``X```#,!PH``#,!PH`(`",`
M+ `$`%<!`2" `P`.````S <*`!\`!`0``0$`)@$`(`0``$0X-3DV
M0D%#.#4S,D0P,3$$X,$0T,# U,CE"0T0T0T0W(0`(('`0.0!@!(`$`0`$@`$`L`
M(P```````P`F```````+`"D```````,`-@```````0 `Y`$ BTVHPQ[L!'@!P
M``$````U````4D4Z(%M!4%)33$E'.C8P,S-=($)E86-O;B!W:&5N(&UO8FEL
M;V)I;&4@:7,@<W1O<'!E9 ```````7$``0````8!N\<P:LNL:UG9,H41
MT(#4`$ %*;S7```>`!X,`0````4```!33510``````!X`'PP!````%0```$&=W
M>6Y <&%C8V]]M;2YC;VT``````P`&$,;V_(<#`<04P,``!X`"!! !````90``
M`$].+5-$53$S9+$\$!I$S:S%24T"1V!"15,@4$$S3DV(3,#(M,#5)-E,F,,$$!
M54524TU44#I34$7%22T9%3$$!04DE-14Y$4$2%5$-9/S5=23U1%.E1(145!4TE%4U13
M3TQ55$E/3E=/54P``````@$)$ $```"P! ``K 0```X(``!,6D9U%LC!]?\`
M"@$/`A4"J 7K`H,`4 +R"0(`8V@*P'-E=#(W-@`"@P)Q`P)#0V$P`P<'@K$``
M=&5M`H,SMP+D!Q,"@S02S!3(-1+,V0?9C8#QA3(-Q$%%%Y^M$)0X$L<1=3 4
MMGT*@(L(SPG9.QZ?,C4U'[_P93$R. * "H$-L0M@8&YG,3 S%% +`VQX:3,V
M#?  +515B#  %CJ0! ($\#H%<)@&X'D!!D87DL)2!C=&\B8@20(#,P)? Q.40Y
M-B; ,#HQ)1!0"DTE\$T*P&L@1F4,;&P1@ I0<EM339!44#IS"K%K9B@@3D 3
M4 =Q)9!T+@6@;5A=('<#8!/0.@J$/G\+1A;R),,2L!-0*I$F("# 5&AE(&5A
M`) 'D,4%0',&\'5T:0(@*F 1"&!L9" F4"!A(&!F:7)M=PK +1!U>G )P&$-
ML"[@`V$LX$Y40R `P&L$D',E\&+;+> P@'D*A"0/,2L_+$G><##!`B '0"T@
M>#2Q")!,;F,M$ /P=&@P@&^Q+8%O9B V$!/@(!& EP0@)E )\" ED&=A+?!T
M=F4E\'<M``.@+4!K?0N 9S%_,H\SGS:P!9!H]0,`8S41<0I0$\ N`00@L06Q
M=')Y.,$VL&\V@4,I4 7 <W5G9SSU+G @($DG. `NX A@;I<N@#80-] @/)%L
M<SC_]SH/.Q\^`DL`<#V@`B \@/<$(!Z@/J!L!4 +@"[A0 `//=((8#P10$))
M(&MNOF\'X 1@+U$!H$8492\`\S2@`V!D=28@0-]![T+_[T B`Z VP32A;PM0
M+K$`@*YW!G$]XDPR: (@93]1DD% `V5Y+C%N)P5 [TR@,3$M$ &0;"?P/A$`
M</].H$W12)]])KTJ_15),(@VPW0"09SAQ0 $)\&<+@ G@STTC#; %,$X"14%4
M(#8`?R8P/U%0A@L9)(@*A J%3H\JD"[ *# P@6YU9@#0?G0(<##!+L O44 S
M+S!Y_3]00UFS+1 ML > +? '@/XA6*LE8%K#!T >H"_ 3J![1/$M,'(1<#W2
M7%%-P&3G!" ^$2QQ=FDOT380! `?+N M,%IB15((82!'4/,%\#Z@<' >02[@
M/_ F(+\_$PJ%5LLCOU&O4K]6"L#O/<,F4 #0/3)B+4 )@%!!_V2O6)5ESRQ)
M!& X`"G!-G;V(#@`7O!C3*($( JQ:*+^8DZ@8;--P"YB`- %H#_PTV)1!;%3
M03]13P& -W'_7') SV5/:Q\Q,F&C`_!9P?]5`#^A"< _XRD`">!?D3:1RQ'@
M/A$S!=!02#@T3"+_/) %P&"1`) "0#W2/0$H,/XN<6\`4"QU5M]I;P7 +/"_
M0%%@D06A'J F(#]023$QOR70+I(OL#;!/H$VD'0O,_\+@'!Q`) _H3X1+O!%
M,"9AYT826;)&T&XM7B%9T2J0?RX!,/0L<6B `F!.H%PR(,8Y'3 %L3DU)7U!
M+F+_@8($`"WP0()^,PVP+*()@#]C!88?"R@<(@'08:!W>0T#H%)UX27A5S%"
M1=I,"J-0`- (4&TP,(GQ^S"P!4!2+\ N`!.5$R *LH)H`D!P.B\O=XQPOBX*
ML&]1BD J$EC$?8W0`P`0$ `````#`!$0`````$ `!S#@O"S#+\>[`4 `"##@
=O"S#+\>[`1X`/0`!````!0```%)%.B ``````]_0`
`
end
```

771. Re: [APRSSIG:6033] Re: Beacon when mobile is stopped

From: Todd Erickson <z008876b@bcfreenet.seflin.lib.fl.us>
Date: Thu, 31 Oct 1996 09:39:18 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9610310950.B27719-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
What is the feasibility of handling this problem via the tnc?  Is it
possible to read the prom in the tnc and write a small routine that could
handle this and then burn a new prom?  This is provided there is a free
IO line that could be used for sensing the vehicle's status.

KA4RTK


Todd Erickson
z008876b@bcfreenet.seflin.lib.fl.us
```

---

772. Re: [APRSSIG:5986] Re: Beacon when mobile is stopped QUESTION

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 31 Oct 1996 08:45:46 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961031083922.24534A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I too have the Garmin 55 AVD GPS. I use the DOS version for two reasons.
One it is from the original author and is regularly updated and Two it
works well with my Agrelp DFjr Doppler DF.

Don't get me wrong, the Sproul Bros are doing an excelent job porting
over APRS to Mac and Win. But they are yet to be proven as DOS APRS. I'm
just one of the original DOS men I guess. .... nuff sayd....

For you info my setup is a 486 laptop, KPC-3, Garmin 55 AVD, DFjr ADF,
MFJ DataRadio, two turtle doves and a antenna in a tree!!!!



On Wed, 30 Oct 1996, Paul W. Burke wrote:

> > KB6LFM here.
> >
> > I've wired my APRS system so the GPS (Garmin-45) and TNC (KPC-3) are
> > "ON" at all times, and the "Rig" comes on and off with the Ignition.This seemed like a good place
top ask this:
>
> I am interested in APRS and have a Garnin 55 GPS that I utilize for flying.
> I have a KPC-3 that I use for mobile and updated the prom last year tro support GPS operation.
>
> My question is what software is reccomended. I downloaded several softwares last night including one
for dos
> and one for windows. My new laptop has win95.
>
> This SIG seems to be very active and that is great.
>
> If there is a setup FAQ for my configuration that would be great too.
>
> Thanks,
>
> Paul W. Burke
> KB8VAS
> pwburke@imperium.net
>
```

---

773. Re: [APRSSIG:6031] Re: Football tracking 96

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 31 Oct 1996 09:55:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961031095455.27889B-100000@arctic>
Rendered body type: text/plain

```
On Wed, 30 Oct 1996, Steve Dimse wrote:

> >APRSdos REPLY/COMMENT:  THere you have it.  The APRS footbal trcking
> >exercise will begin at noon on Friday the 6th and run all night to cease
> >at 7 AM on the 7th... in Philadelphia.
> >
> Will your javAPRS site be able to follow this live?

APRSdos REPLY/COMMENT:  Certainly should...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

774. Re: [APRSSIG:6018] Re: Beacon when mobile is stopped QUESTIO

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Thu, 31 Oct 1996 09:59:40 -0500
To: aprssig@tapr.org
Message-ID: <3278BEDC.1FC8@the-hermes.net>
Rendered body type: text/plain

```
ttyamada@CCGATE.HAC.COM wrote:
>
>
>      Maybe this could be built into the MIC, or maybe this could
>      be another PIC project?
>
>      How about:
>      1) Sense the distance traveled from the GPS string
>      2) Define a *trigger* amount/distance larger than SA
>      3) If the distance traveled is larger than *trigger*,
>         Then post the data at rates according to amount of distance
>         from last transmission point or velocity.
>      4) Use the Ignition to run/halt the transmission by a
>         sensing line or just killing power?
>
>      Just some ideas.....
>      73, Ted...

Fairly straightforward.  0.1 minute of latitude is 185 meters.
Similarly
for longitude near the equator.  If lat or lon changes by 0.1 min.,
posit
rate is maintained.  Otherwise it is slowed.  This approach does not
allow
one to set a "trigger", but would handle the problem as originally
mentioned.

Will, N3XLM


|================================================|
|  Dr. William I. Clement, President             |
|  Clement Engineering, Inc.                     |
|  1261 Dogwood Road, Arnold, MD  21012-2220     |
|  (office) 410.518.6591 / (sales) 410.268.6736  |
|  (FAX) 410.268.4612                            |
|  mailto:wclement@the-hermes.net                |
|  http://home.navisoft.com/agrelo/clement.htm   |
|================================================|
```

775. Re: w7lus-14 HF equip

From: n4ldg@juno.com (Louis A Cruz)
Date: Thu, 31 Oct 1996 09:41:11 PST
To: aprssig@tapr.org
Message-ID: <19961031.094327.14206.0.N4LDG@juno.com>
Rendered body type: text/plain

```
On Wed, 30 Oct 1996 15:38:22 -0600 (CST) n9flx@indygate.kb9law.ampr.org
writes:
>I have copied W7LUS-14 APRS signals from almost every state in the
>Union, via his, I assume, 18-wheeler.
>Am very curious to know the type of radio equipment he is using that
>keep him in contact with virtually the rest of the world in sometimes
>remote parts of the country via HF packet.

I can't speak for W7LUS, but he's probably using a Kenwood TS-50S, or
something as compact as the TS-50 HF rig.  I use the same rig in a
Cessna 337 Skymaster, with an AT-300 auto-antenna tuner.  The rig works
great, and  many lives have been saved using the TS-50 while flying SAR
over the Florida Straits.  The TS-50 is slightly larger in size than a 2
meter moble.  W7LUS's 18 wheeler... well I suppose you can use something
somewhat larger.
Take care Hal.

73 - Louis, N4LDG
```

```
n4ldg@juno.com  home
lacruz@bop.gov  work
n4ldg@kp4edl    Packet radio
```

---

776. Re: [APRSSIG:6041] Re: Beacon when mobile is stopped QUESTION

From: "Paul W. Burke" <pwburke@imperium.net>
Date: Thu, 31 Oct 1996 10:36:32 -0500
To: aprssig@tapr.org
Message-ID: <3278C780.2E1C@imperium.net>
Rendered body type: text/plain

```
J. Scott Ratchford wrote:
>
> I too have the Garmin 55 AVD GPS. I use the DOS version for two reasons.
> One it is from the original author and is regularly updated and Two it
> works well with my Agrelp DFjr Doppler DF.
>
> Don't get me wrong, the Sproul Bros are doing an excelent job porting
> over APRS to Mac and Win. But they are yet to be proven as DOS APRS. I'm
> just one of the original DOS men I guess. .... nuff sayd....
>
> For you info my setup is a 486 laptop, KPC-3, Garmin 55 AVD, DFjr ADF,
> MFJ DataRadio, two turtle doves and a antenna in a tree!!!!

What did you do for connections. I only have one serial port on my
laptop. Sounds like we have simailar configurations. Also what is the DF
device you mentioned.

Thanks again for your response.

Paul W. Burke
KB8VAS
pwburke@imperium.net
```

---

777. w7lus-14 HF equip

From: Derick Anness <np2ij@flinet.com>
Date: Thu, 31 Oct 1996 12:27:29 -0500
To: aprssig@tapr.org
Message-ID: <3278E181.3B6E@flinet.com>
Rendered body type: text/plain

```
What equipment does Peter(W7LUS) USE??
      Go to N2CZF's APRS page http://www.magg.net/~n2czf/aprs.html see
his pictures of the W7LUS-14 rig..73.
--
                  I think we're all Bozos on this bus!

Derick Anness,NP2IJ
Jupiter Farms,Fl.
np2ij@flinet.com
http://www.flinet.com/~np2ij
```

---

778. Re: [APRSSIG:6045] Re: Beacon when mobile is stopped QUESTION

From: Mark Sproul <sproul@ap.org>
Date: Thu, 31 Oct 1996 13:49:21 -0500
To: aprssig@tapr.org
Message-ID: <v0300780bae9ea2cad46d@[165.1.27.171]>
Rendered body type: text/plain

```
>J. Scott Ratchford wrote:
>>

>> Don't get me wrong, the Sproul Bros are doing an excelent job porting
>> over APRS to Mac and Win. But they are yet to be proven as DOS APRS. I'm
>> just one of the original DOS men I guess. .... nuff sayd....
>>

Please understand the following. WE ARE NOT AND HAVE NOT ported APRS to Mac
and Windows, we wrote our version ENTIRELY from scratch implementing the
APRS ideas and protocols.  The Windows version IS a port of our Mac version.

To the best of my knowledge, the only important feature that APRS has that
we do not yet have is alternate digi-paths.  HSP took much longer than I
planned but that is now fully working.


Mark Sproul
```

```
____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

779. Re: [APRSSIG:6045] Re: Beacon when mobile is stopped QUESTION

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 31 Oct 1996 15:08:14 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961031150321.30462A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
The DF device I mentioned is a Doppler Direction Finder sold by Agrelo
Engineering. Joe Agrelo is on this newgroup. Anyhoo, they also sell a
Multi Port Adapter. This little jewel combines all the components (TNC,
GPS, DFjr) into a single serial port. I too only have a single serial
port. I tell ya it works great! However, if you do not wish to purchase
the MPA or the DFjr, there is a switching adapter that you can build. It
is in the GPS.txt file in the Readme Directory (DOS version) I think.
There you will find the scematic for the device. I built one and it
worked right the first time. Your choice!

Have Fun!!!!



On Thu, 31 Oct 1996, Paul W. Burke wrote:

> J. Scott Ratchford wrote:
> >
> > I too have the Garmin 55 AVD GPS. I use the DOS version for two reasons.
> > One it is from the original author and is regularly updated and Two it
> > works well with my Agrelp DFjr Doppler DF.
> >
> > Don't get me wrong, the Sproul Bros are doing an excelent job porting
> > over APRS to Mac and Win. But they are yet to be proven as DOS APRS. I'm
> > just one of the original DOS men I guess. .... nuff sayd....
> >
> > For you info my setup is a 486 laptop, KPC-3, Garmin 55 AVD, DFjr ADF,
> > MFJ DataRadio, two turtle doves and a antenna in a tree!!!!
>
> What did you do for connections. I only have one serial port on my
> laptop. Sounds like we have simailar configurations. Also what is the DF
> device you mentioned.
>
> Thanks again for your response.
>
> Paul W. Burke
> KB8VAS
> pwburke@imperium.net
>
```

780. Re: [APRSSIG:6047] Re: Beacon when mobile is stopped QUESTION

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 31 Oct 1996 15:26:51 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961031152442.30462C-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
My mistake! I guess that was the wrong word to use, huh? Take out
"porting over APRS to" and insert "writting new versoins of APRS for".

73's



On Thu, 31 Oct 1996, Mark Sproul wrote:

> >J. Scott Ratchford wrote:
> >>
>
> >> Don't get me wrong, the Sproul Bros are doing an excelent job porting
> >> over APRS to Mac and Win. But they are yet to be proven as DOS APRS. I'm
> >> just one of the original DOS men I guess. .... nuff sayd....
> >>
>
> Please understand the following. WE ARE NOT AND HAVE NOT ported APRS to Mac
> and Windows, we wrote our version ENTIRELY from scratch implementing the
> APRS ideas and protocols.  The Windows version IS a port of our Mac version.
>
> To the best of my knowledge, the only important feature that APRS has that
> we do not yet have is alternate digi-paths.  HSP took much longer than I
> planned but that is now fully working.
>
>
> Mark Sproul
>
> _____________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
> _____________________________________________________________________________
>
>
```

---

781. Re: [APRSSIG:6006] Re: 30m "hits" on the Left Coast

From: "Don Murray" <james-m@ix.netcom.com>
Date: Thu, 31 Oct 1996 16:22:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199610312127.NAA12363@dfw-ix9.ix.netcom.com>
Rendered body type: text/plain

Well I have enjoyed seeing it show up on my map here in Savannah Georgia
for the last two nites. grin

```
----------
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6006] Re: 30m "hits" on the Left Coast
> Date: Wednesday, October 30, 1996 6:29 PM
>
> On Tue, 29 Oct 1996, kb6lfm wrote:
>
> > Had a very interesting morning. At 06:30 PST.  I had a total of 17
> > states on screen on APRS. Thats the highest I've seen to date. Curious
> > as to "who" is the Maritime Mobil "YP694"..? had a couple of solid hits
> > directly on 30m.
>
> APRSdos REPLY/COMMENT:  My fault.  It is a naval academy boat.  I was
> giving a demo to some students and tuned in 10151.  Put my call in the
> BText.  THen we walked over to an adjacent boat to get it up for some
> keyboard chats arross the pier, and when I sent the students back to the
> first boat IT WAS GONE!  It had gotten underway!
>
> It gets back Friday...  We will beeing doing a full class demo to about
17
> students at about 1430 EST on Friday..
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

---

782. Re: [APRSSIG:6032] MIR/MAREX - more

From: clark@tomcat.gsfc.nasa.gov
Date: Thu, 31 Oct 96 21:35:06 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2695@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

W4WWQ's reposting of Buck (K4ABT)'s message said "... APRS guys know that
if/when a 30 kHz >>WIDE<< (emphasis mine) goes on 145.800 ...".
It is not that the signal is 30 kHz WIDE! My understanding is that the

signal is "conventional FM practice" bandwidth. I'm sure that the original
posting included an allowance for Doppler shift + frequency errors + guard
bands.

Also note that the overall problem is an international one. Remember that in
MOST of the world, the 2M band is only 2 MHz wide (144-146); we in Region 2

have the "luxury" of a 4 MHz band and this "elbow room" has tended to make us less tolerant of frequency sharing.

I take some credit/blame for the choice/use of 145.79. When the 145.5 to 145.8 spectrum was "opened up" for digital use about 5 years ago, here in the MD/DC/VA area we chose to "allocate" 20 kHz spacing channels on the odd 10 kHz frequencies. I argued voiciferously that the "top" 145.79 channel would have future problems being immediately adjacent to the 145.8-146.0 international satellite allocation. In the local band-plan, I put 145.79 on the list as "experimental" "for the development of new techniques" "use it with caution" type of notes. The other 145.5 - 145.8 frequencies were gobbled up for PBBS, local chat, and DX Cluster applications. Bob (APR) was beginning the development of APRS as a "wouldn't this be really neat" experiment. I suggested that 145.79 would be a suitable "test bed" for him to use, while offering the comment that there may well be satellite QRM problems. In the subsequent years, 145.79/APRS lost their "experimental" virginity and spread like wildfire. So the "problem" is not a "new" one. Nobody should be surprised and nobody show do around decrying the fact that all of amateur radio relies on shared resources.

73 de Tom, W3IWI

---

783. Re: [APRSSIG:6014]

From: Paul Christenson <paul@tech.cyclades.com>
Date: Thu, 31 Oct 1996 14:05:15 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961031140347.7415B-100000@tech.cyclades.com>
Rendered body type: text/plain

On Wed, 30 Oct 1996 dougwe@ccintnet.wrq.com wrote:

> Can someone refresh my memory - what's the conversion factor from
> inches to millibars?

According to my HP48, 1 in Hg = 33.86E-3 bar (33.86 millibar).

```
+---------------------------------------------------+
| Technical Support Engineer, Cyclades Corporation   |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
| High Performance Multiport Serial Cards & Routers  |
| Unsolicited mail ads subject to a $25 handling fee |
+---------------------------------------------------+
```

---

784. Re: [APRSSIG:6014]

From: Tom Clarke <fclarke@erols.com>
Date: Thu, 31 Oct 1996 20:55:19 -0800
To: aprssig@tapr.org
Message-ID: <327982B7.9B7@erols.com>
Rendered body type: text/plain

dougwe@ccintnet.wrq.com wrote:
>
> Can someone refresh my memory - what's the conversion factor from
> inches to millibars?
>
> Thanks
> Doug
> KC7COSure, multiply inches times 33.86 for millibars (the politically correct
unit is now Micropascal!)
73 de Tom W4OKW, Herk driver

---

785. Re: [APRSSIG:6016] Re: 30m "hits" on the Left Coast

From: Tom Clarke <fclarke@erols.com>
Date: Thu, 31 Oct 1996 20:58:20 -0800
To: aprssig@tapr.org
Message-ID: <3279836C.3F0D@erols.com>
Rendered body type: text/plain

kb6lfm wrote:
>
> Bob Bruninga wrote:
> >
> > On Tue, 29 Oct 1996, kb6lfm wrote:
> >
> > > Had a very interesting morning. At 06:30 PST. I had a total of 17
> > > states on screen on APRS. Thats the highest I've seen to date. Curious
> > > as to "who" is the Maritime Mobil "YP694"..? had a couple of solid hits
> > > directly on 30m.

```
> >
> > APRSdos REPLY/COMMENT:  My fault.  It is a naval academy boat.  I was
> > giving a demo to some students and tuned in 10151.  Put my call in the
> > BText.  THen we walked over to an adjacent boat to get it up for some
> > keyboard chats aross the pier, and when I sent the students back to the
> > first boat IT WAS GONE!  It had gotten underway!
> >
> > It gets back Friday...  We will beeing doing a full class demo to about 17
> > students at about 1430 EST on Friday..
> >
> > Reply mail addr:  wb4apr@amsat.org
> > See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
> APRSdos REPLY/COMMENT: Believe "Missing Ships Movement" is still a
> Courtmartial offence CMDR! Hi..!
> I'll be looking for UR demo on Fri at 14:30 EST.
>
> 73 de Bill  KB6LFMHad me worried Bob, I relayed a couple of posits from the Yippies last
summer and thought they got caught in a time warp.  Beat ARMY!
73 de Tom W4OKW (USN ret)
```

---

786. Re: [APRSSIG:6014]

From: Tom Clarke <fclarke@erols.com>
Date: Thu, 31 Oct 1996 21:19:09 -0800
To: aprssig@tapr.org
Message-ID: <3279884D.CCF@erols.com>
Rendered body type: text/plain

```
dougwe@ccintnet.wrq.com wrote:
>
>      Can someone refresh my memory - what's the conversion factor from
>      inches to millibars?
>
>      Thanks
>      Doug
>      KC7COMultiply inches of mercury time 33.86 to obtain millibars.  Good
old gouge from flying in Europe and getting QNH in millibars. The
politically correct unit of measurement is now MicroPascals !! Blah!
Next thing you know our altimeters will read in Meters!!
Have fun
Tom, W4OKW
(Hercules, Convair 880, Orion and sometimes KingAir Pilot)
```

---

787. listserv@tapr.org

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Fri, 1 Nov 1996 00:58:34 PST
To: aprssig@tapr.org
Message-ID: <19961101.005845.5599.2.kf4xh@juno.com>
Rendered body type: text/plain

```
aprs sig
```

---

788. set aprssig mail digest

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Fri, 1 Nov 1996 01:21:11 PST
To: aprssig@tapr.org
Message-ID: <19961101.012127.5599.7.kf4xh@juno.com>
Rendered body type: text/plain

[Empty message body]

November 1996

Original source file: aprssig.9611
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-11/TAPR-APRS_1996-11.txt

1. Re: [APRSSIG:6055] Re:

```
From: Bob Sayers <EPU@wmfs.telme.com>
Date: Fri, 01 Nov 1996 09:10:52 GMT
To: aprssig@tapr.org
Message-ID: <221516@tmrelay.prod.phonelink.com>
Rendered body type: text/plain
```

```
>politically correct unit of measurement is now MicroPascals !! Blah!
>Next thing you know our altimeters will read in Meters!!


 ... or even Metres!

:-)          Bob, G8IYK
```

---

2. NYC Marathon

```
From: Knut Finnevolden <knutf@mail.idt.net>
Date: Fri, 01 Nov 1996 06:41:45 -0800
To: aprssig@tapr.org
Message-ID: <327A0C29.22DC@mail.idt.net>
Rendered body type: text/plain
```

```
Hi Arte,
I sent a msg to Stan WA1LOU about the aprs and NYC, but no reply.
When is the Marathon ??
Knut
```

---

3. RE: [APRSSIG:6003] Re: Beacon when mobile is stopped QUESTION

```
From: Larry Griffin <largriff@swta.com>
Date: Fri, 1 Nov 1996 06:42:33 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC7BF.DE00DCA0@red170.onramp.net>
Rendered body type: text/plain
```

```
On Tue, 29 Oct 1996, Richard Parry wrote:

>    I understand that a mobile station transmits frequently (once every
1-5
> minutes) at least compared to a fixed station (once an hour).  Is it
> expected practice that when a mobile APRS station (vehicle) "parks" for
the
> night that it should turned itself off and stop beaconing?

--------------

Another interesting solution would be for a standalone TNC to have the
smarts to reduce the beacon rate when the speed drops.  The TNC could have
two beacon rates and a speed threshold to dictate which rate to use.  For
instance BLT EVERY 1,60 could be used to set 1 minute and 60 minute rates
and SPDTHRSH 10 could set the TNC to use the second rate at speeds less
than 10 mph.

Hopefully the TNC manufacturers are still monitoring...;-)

Larry Griffin - AB5GE
```

---

4. RE: [APRSSIG:6035] Variable Position Reporting Rate

```
From: Larry Griffin <largriff@swta.com>
Date: Fri, 1 Nov 1996 07:59:26 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC7CA.9AE46080@red170.onramp.net>
Rendered body type: text/plain
```

```
Gwyn Reedy <gwyn@paccomm.com> wrote:
>Reference Ralph Fowler's suggestion about variable reporting rate and
Bob's
>observation that he can control this, but obviously only if APRS is
>controlling the beacons. Bob (APR) has made this suggestion to us a number
>of times.

>We have added Ralph's suggestion to our upgrade list.  It will get added
```

to
>the code, but I cannot promise any availability date yet. Will also look
at
>a slow/fast rate toggle line which was suggested in another message.

Now that's the kind of manufacturer response I like to see!

Now if we can work on getting Kantronics to do the same. There are a lot
of KPC-3s being used as standalone trackers. I don't think Kantronics
monitors this SIG, but their email address is support@kantronics.com so
lets all let them know about this, okay!

FWIW Gwen, I have PacComms AND Kantronics and I like to see all
manufacturers remain competitive. ;-)

Larry - AB5GE

---

5. Re: Beacon when mobile is stopped

From: joefoor@digitalexp.com (Foor, Joe)
Date: Fri, 1 Nov 1996 08:04:10 -0600
To: aprssig@tapr.org
Message-ID: <19961101140409036.AAA174@dial-12.marianna.fl.digitalexp.com>
Rendered body type: text/plain

Hi All;

Just for the heck of it, I did some number crunching.

If, as recommended for my truck, I leave the GPS-20 running all the time
and just turn the radio and TNC on and off with the ignition switch...

The GPS-20 draws 180 ma. That's 4.32 A/hrs per day. I start the truck up
twice a week and drive into town. That results in a drain of 17.28 A/hrs
from the battery when the truck sets for four days. Automotive batteries
are no longer marked for A/hr rating, but that size used to be
considered about 50 A/hrs. That means I am discharging my battery by
about 35%. Automotive batteries are shallow cycle batteries and cycling
them lower than 20% will significantly shorten the life expectancy...

I don't think I'll try this.

The motorcycle has a 19 A/hr battery, but I am willing to leave it on a
trickle charger when it is parked at home. Otherwise, it will only be
parked about 10 hrs. That would be about 10% discharged. That's
acceptable, plus the motorcycle has a kickstarter.

That brings up a question. The most effective location for my GPS
antenna is on the motorcycle's headlight shroud. Has anyone tried to
build a patch antenna that conformed to a curved surface? If so, how
does that affect the efficiency? The idea would be to replace the
aluminum shroud with a fiberglass (or plastic) one, and mount the
antenna under it, so it is hidden.

regards,
Joe kf4dys

---

6. HELP! PEET BROS U-2000 AND WINAPRS?

From: BordingK@aol.com
Date: Fri, 1 Nov 1996 09:17:56 -0500
To: aprssig@tapr.org
Cc: ksproul@hardees.Rutgers.EDU, aa0mm@cjnetworks.com
Message-ID: <961101091755_134901774@emout15.mail.aol.com>
Rendered body type: text/plain

1. Sorry to ask this again, but I'm still baffled in my attempts to get a
Peet Bros U-2000 to display and send Weather data via WinAPRS. The few
responses I've gotten in this six month quest have not been the break thru I
need. Keith Sproul said wait for WinAPRS 1.16. I have, but still no data
out!

2 Set-up is as follows: WinAPRS 116, PK-12 on COM1, Peet U-2000 on COM 2
(2400 buad), Peet Bros connector. APRS works great, no weather displayed on
Weather, Automatic Weather is selected under Automatic Input, Com2 (Peet) is
2400,8,1,None. Wx Report is set at 15 minutes (as per note on WinAPRS page),
Weather/RDF Settings are Peet U-2000 and .01 in Rain Gauge.

3. U-2000 puts out the following as view thru both Windows Terminal and
WinAPRS Windows/Terminal/Port Selection. Data is as follows:

```
!!005300E202C7030D27BE032703E8----01140587030C0032
!!005100EC02C7030D27BE032703E8----01140587030C0032
!!005100EC02C7030D27BE032703E8----01140587030C0032
!!005100EC02C7030D27BE032703E8----01140587030C0032
!!004500E102C7030D27BE032703E8----01140587030C0032
```

4. Peet Bros Tesh Support says that if I'm seeing the above data from within WinAPRS and still not getting WX packets transmitted, then there's a problem with WinAPRS. Peet Bros also said they have WinAPRS in their shop and have been unsuccessful in getting it to work outputting weather to other stations via APRS.

5. Any suggestions will be greatly appreciated. I'm going back to DOS APRS in frustration!!!!!

de KF4COH
Ken in Jax, FL

7. Re: MIR on 145.800!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Nov 1996 09:35:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961101092457.2339B-100000@arctic>
Rendered body type: text/plain

On Thu, 31 Oct 1996, Bill Jones wrote about the potential APRS/MIR interference...

> Well just as I hit the key to send the above, I noticed that MIR was
> approaching, sure enough, the switch to 145.800 has in fact been made,
> and as it turns out, MIR IS transmitting, and although I missed the first
> half of the pass,....

APRSdos REPLY/COMMENT: OK, guys, I've been warning you that this was comming. We must share the band. There are only two things we can do:

1) Run minimum TRANSMIT power from digipeaters. 5 watts should do fine if it is in a residential area.. More if it is FAR away from satellite operators.

2) Remind all satellite operators that they can set their radios to 145.805 for *monitoring* purposes since MIR always approaches with +3KHz of doppler. If the pass is active, then they can manually tune down through the pass. But monitoring on 145.805 will allow their receiver to not open squelch on all the packet activity on 145.79 most of the time..

3) Taking a "Holyier than thou" attitude and saying we were here first is ABSOLUTELY not going to benefit anyone. Please be nice, and lets see how it goes...

Too bad they dont like us to digipeat our beacons through MIR! Then we would all be happy, and I would invite them to move the MIR radio to 79!!!! I believe their uplink is on 145.20 I think Ill listen on the next few passes and see if I hear any APRS packets...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

8. U2000 to PK-12 Remote Wx Set-Up

From: BordingK@aol.com
Date: Fri, 1 Nov 1996 09:47:29 -0500
To: aprssig@tapr.org
Message-ID: <961101094729_1515922339@emout03.mail.aol.com>
Rendered body type: text/plain

Anyone have the setup instructions for hooking up a AEA PK-12 TNC to Peet Bros U-2000 for Remote Weather operation? Needed desperately. Thanks,

KF4COH
Ken in Jax

9. Attn: TNC Mfgs--Suggestion follows--->

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 1 Nov 1996 09:16:43 -0600
To: aprssig@tapr.org
Message-ID: <9611011516.AA15791@elwood.pionet.net>
Rendered body type: text/plain

At 08:00 AM 11/1/96 -0600, you wrote:
>Gwyn Reedy <gwyn@paccomm.com> wrote:

>>We have added Ralph's suggestion to our upgrade list.

OK guys, I also have a suggestion that I would like the TNC mfgs to look at.

I have been running airmobile a lot the past few weeks, and plan to in the future. In my aircraft I use a Motorola Encore to feed my KPC-3 but also have a GPS in the aircraft that puts out ARNAV data stream rather than $GPXXX. The ARNAV format is over 400 bytes long. Even though APRS can parse the ARNAV string (with special registration) you guys would kill me if I started sending that long data string from between 16,000 and 25,000 feet. What would it take to add a ARNAV mode to the firmware that would parse out the data required to build a $GPRMC and a $GPGGA sentence. This woul save me having to carry an extra GPS into the aircraft to find a unobtrusive location to put my hockey puck antenna. It is also one less electrical connection I have to worry about.

The other thing to look at is that all the CAP aircraft will be GPS equiped over the next fews years with Northstar M-3 Lorans. National is buying them in 100 lots and issuing them to aircraft as they can. This would be a big help in putting APRS in CAP aircraft without needing a second GPS in the aircraft and all the cables associated with this kind of removable gear.

In my Mojave I had the radio shop drop a DB9 connector from my King KLN-90B and have recorded data from flights lasting from 30 minutes to 2 hours in case you want to look at the data stream. Oh yes, I also the the key to reading the data stream!

Dave
WB0WNX-7 Mojave Airmobile
(712) 279-8083

---

10. RE: [APRSSIG:6061] RE: Variable Position Reporting Rate

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 1 Nov 1996 10:21:24 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC7DE.70A5C5C0@gwyn.paccomm.com>
Rendered body type: text/plain

On Friday, November 01, 1996 3:00 AM, Larry Griffin[SMTP:largriff@swta.com] wrote:
>Gwyn Reedy <gwyn@paccomm.com> wrote:
>>Reference Ralph Fowler's suggestion about variable reporting rate and
>Bob's
>>observation that he can control this, but obviously only if APRS is
>>controlling the beacons. Bob (APR) has made this suggestion to us a
number
>>of times.
>
>>We have added Ralph's suggestion to our upgrade list. It will get added
 to
>>the code, but I cannot promise any availability date yet. Will also look
 at
>>a slow/fast rate toggle line which was suggested in another message.
>
>Now that's the kind of manufacturer response I like to see!
>
>Now if we can work on getting Kantronics to do the same. There are a lot
>of KPC-3s being used as standalone trackers. I don't think Kantronics
>monitors this SIG, but their email address is support@kantronics.com so
>lets all let them know about this, okay!
>
>FWIW Gwen, I have PacComms AND Kantronics and I like to see all
>manufacturers remain competitive. ;-)
>
>Larry - AB5GE

Thanks, Larry. Of course our objectives are not identical. We enjoy being supportive (It is more pleasant to receive thanks than irate messages). However I want to win customers by being supportive and it doesn't bother me when our competitors aren't responsive! Anyway, we'll try to get this done sooner rather than later.

>
>
>

>

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(AL/`0:0" `$````````!``$``0>0!@`(````Y 0````````#H``$-@ 0`
M`@````(``@`!!) &``P!````!`````# ````,``# #`````"P`/#@``````"`?\/
M`0```#\``````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P```'@`", $`````%`````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G```````,`%0P!``````P#^
M#P8`````>``$P`0```!,`````G87!R<W-I9T!T87!R+F]R9R<```(!"S !`````
M%@```%--5% Z05!24U-)1T!405!2+D]21P`````,``#D``````"P! .@$`````"
M`?8/`0````0``````````#$RX!"( '`!@````!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`. ```%)%.B!;05!24U-)1SHV,#8Q72!213H@5F%R:6%B
M;&4@4&]S:71I;VX@4F5P;W)T:6YG(%)A=&4`^Q$!!8 #``X```#,!PL``0`*
M`!4`& `%`!L!`2" `P`.````S <+``$`"@`0`"H`!0`H`0$)@ $`(0```#DY
M.$4V1$(Q0S<S,T0P,$3X,$0T,T# T,# U,CE"0T0W``8'`0.0!@!@!P``$@``
M``L`(P```````P`F```````+`"D```````,`-@```````0 `Y``!GQU<(R+L!
M'@!P``$````X````4D4Z(%M!4%)34TE'.C8P-C%=(%)%.B!687)I86)L92!0
M;W-I=&EO;B!297!O<G1I;F<@4F%T90`"`7$``0```!8````!N\@(5[:Q;8Z:
M,\<1T(#4`$ %*;S7```>`!X,`0```4```!33510``````!X`'PP!``` !X``$``
M`&=W>6Y <&%C8V]]M;2YC;VT``````P`&$$?+=O<#``<0<00``!X`"! !````
M90```$].1E%.5D)S,#$R1#(.B)S1#Y-C-!L+3(Q,#(Q.#(S,64R-#(9$0!0
M24Y33510.DQ!4D4@4E5$=C4T413I'5UE.4D5%1%<%1%D\1U=93D!0
M04-#3TU0T]-5U)/5$4```````@$)$ $```#%!0``P04``-8,``!,6D9U2OV9
MPO\`"@$$/`A4"J 7K`H,`4 +R"0(`8V@*P'-E=#(W!@`&PP*#,@%/%`@!P<D)Q
M$>)S=&5M`H,SMP+D!Q,"@S02S!3(-1+,60_?9C82QQ%U,!2V?1<*@ C/"=D[
M&W\R-37A')]E,3(X`H *@0VQP0M@;F<Q,#,44 L#\&QI,S8-\ M5%6(,`5)C
M`$ @3P.@1@409$AA>2P'L&]V$^!B$020(# Q(J Q.3F@-B S.C :$4TBH$),
M"L!R>2!'!H%F@0N 6U--5% Z"V"V<@G )/% `^ !D"X%H+!M72!W`V 3T#H*
MA'X^"T86\B&C$K 34";Q8U$%0$=W>0.@4@G@9*DDL#QG*6% "K!C)H':;29R
M/B;+(.\Q)Y\HJ)H^*:!F!) )\&-E!_")!T!P:"(P;W=L!)!")P0@<W5G9P>0
M=+II`B @`: (8 5 =@K ;P<P`F O4!N <!LA"X!GC3'P81/0,0!N9" KG\,L
MKRV_($)O8C P,S_;-$\U7SXV@!&P<C%P,,/6=!& !4!H+U!C`Y$%H+\", -@
M`R ZP 0`(J!B,4'%-H!V,-!U<VPDL (@YST1!I 4L%!2!? $`#;/^S??..\^
M.X4@D#)Q.L O4"<C$ #0`B!S+C9B("CU/<$I.P!A!" `P VP._,Q,%IT;R \
M\#$`(&[^=2,#/C\_3T!?.? ]H## _0>!+D8O1S](3TG_2P],'[P^5R]0$8 B
MX#$`9 VPOS,0+W,P/$4Q"&%%4' )!4 #\/U!T" PD 5
M4.1-CR'P5.>_3S\%0$4P32]./U;//D(R5P6@#; \1$D[,FXF\"#]*-%M! `R
MTB2P4* +< M@<F(#$$&ET)+ B<#+!>=L1P$+@5U02!T!S14 ;$/QO:U3O5?\H
M?#*P6 ]9'YUAKSY%D#T`+^ O9D.P?P5 ,J-%,#" ,=%!X2]0=_\\$!%P)L!#
ML3!E41$+@#+ASR;P.Q %P >!<V$PD$GO_V/O9/]BWVMO;'\%0"+ !^#W.L(P
M,4(R:PN ,Q!)80.!OG5FD"D@"' C(1N <S(@[P" +U!<(""0:V<2,% )X/XA
M;9]NKV^_=(]UGW:O<,/U/9%W.R1W!;!?L##A5%'=,E-+`' [L0,`8W%A14"^
M9$5 0C)J$ > 4Z%4::'_,M%^PE]Q!4!WOWC/>=]R`N!+4$,M,P0@(Q R8O\\
M\%$1:&(!D#,`!T "($01/3*@8W/@$:!3HGVA;B?[5\$\$&Y?L'S9?Y^ KX&_
M'T/0?2%%,!&@1"1324?[/$1",6D%P!/@79%0TG,1RP0@1%-P,B) :WSG)G+_
M,%!%0(=/B%^);U-0$<!%<>]4(9)!0B*.L&M<< ?@,13_/ 1?H"* ='^0#Y$?
M=Z^5S\.6WP5 1E=)5RE!"?#W(J!<(%"34 #0"% JL 0@^$%.1'S*,O)SJY*#
ME_]_F0^:'W([!" ;@(QA.V)M-G 1P%X`:2+@4Z$[+?XIGS^@3Z%?I-^E[Z;_
M)&7"+12P0C5'1:@&"QGO(6@*A7Z0`'!K/#$D<U.A?D\]H 6@"'!=`5*B-H!J
M_RD1I$%%<7[!7'(B8 GP,,"=.T!L7L$O4 GP:F\DL/^#=(UEI$%%#,%/11%$$
M8'[!_PM00H!J$ (P12(;@"] LW(_.L&N@;6C/8 RHVGE<RGU0N!(+^!E(N %
MP%P@:%!_M-0#\#MA//!%, > BN%B_[*/,M1>`'VA!Y"%\@;@:97_9^$)\%*3
MH\:*TG[QA?)S%7VD02$4L%U :4)3BD7M@)_]4(3NP)+!%,5121#.%T7X!_U^0
M9\!R\3*P:*V(PM@$]#^<FI5PIH@/ZC/J=^GO\3/_\7?QN_'_\D/RA_++\P_
MS4O_P]^M3M+Z"S<9`@'0*4DBH.!7,4)%CG%6<0O=SX 5 +W!D,- 3E1,@
M"K*": ) <#HO+W?8\!8N*FG"M'W:4 ````,`$! ``````P`1$ ``````!`<P
J@.W#KP?(NP% `@P@.W#KP?(NP$>`#T``0````4```!213H@`````(Z*
`
end
```

---

11. Future releases of WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Fri, 1 Nov 1996 10:41:25 -0500
To: aprssig@tapr.org
Message-ID: <v03007803ae9fbea73395@[165.1.27.174]>
Rendered body type: text/plain

To all WinAPRS users both registered and un-registered

As many of you are aware, I have taken a little bit of a break from WinAPRS development over the summer and HSP took a bit longer than all of us had hoped to get finished. I had to back off a little or face total burn out. I had a good summer and am now ready to dive back into burning the midnight oil programming.

I am going to be doing lots more work enhancing WinAPRS and MacAPRS, we will also be working on X-APRS this winter.

Mac/WinAPRS has a great future, there are lots of major enhancments coming next year but many of the ideas are much to early to discuss. I am also working on my web server to serve you better with faster access to the files and documentation.

Some of the new features involve

Weather display, many new features and options
Civil Air Patrol - Search and Resque
More database integration
More display lists of data (can we say "Information Overload")

I have a couple of questions for all of you.

1) Do you like the current release rate, about one version a month, normally with several new features and bug fixes or would you like more releases. I prefer the former because it gives me more time to do testing but I want to hear what your preferences are.

2) What features do you want to see added. Please THINK about this one first realizing that I still have only managed to find 47 hours in a day and cannot do everything. Also, I do and have always kept ALL feature requests that anybody sends me, I keep them and go back over them fairly often. A feature that gets lots of requests gets done quicker than one that only gets one or two requests.

   Currently I am working on (not in any order)

   PRINTING
   FIND (data base search)
   ENHANCED WEATHER DISPLAY
   GRAPHS AND STATITICS, the graph windows that are in MacAPRS
   HSP DLL for Windows 3.1

Please give me your input on these and any other aspecsts of MacAPRS or WinAPRS

Mark Sproul

```
___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

12. APRS *.hst contents and format

From: gbaumgartner@mail.cybg.com
Date: Fri, 1 Nov 1996 16:14:32 +0000 (GMT)
To: aprssig@tapr.org
Message-ID: <9611011614.AA06387@mail.cybg.com>
Rendered body type: text/plain

I've been looking for some information on the format of the APRS history files to aid me in some post-flight analysis. I'm a member of the Illinois Wing CivilAir Patrol where we are using APRS extensively to track our resources on training search missions.

I've seen some "discrepancies" in the history logs and am trying to figure out if they're a configuration problem with the GPS, TNC or APRS. We're currently using the DOS version (a 7.? version but I'm not sure which). The TNCs are KPC-3s and the GPSs are "black-box" Motorola units (don't have a model #).

For example, in on log we have:

```
IL0031    221537 @221537/4113.90N/08435.60W1000/000/A=3D000
```

and in another for the same resource (although on a different day):

```
IL0031    071419 @071918z4150.74N/08959.51W1GGA/NUL/raw*/good GGA FIX/A=005542
```

On one of our resources which is transmiting both GGA and RMC sentences

```
IL1130-7  071451 @071950z4127.15N/09030.12W'125/1.1/raw*/good RMC Fix/A=000764
```

and occasionally in the middle of the flight we'll see

```
IL1132    071048 @071557z4155.06N/08816.23W2GGA/NUL/raw*/Last gps fix/A=001187
```

and finally a real bizare looking sequence of reports from the middle of a flight:

```
IL0032    241356 @241356/4139.03N/08812.27W2000/000/A=3D000
IL0032    241357 @241357/4136.82N/08812.05W2000/000/A=3D000
IL0032    241359 @241359/4136.22N/08813.89W2000/000/A=3D000
IL0032    241400 @241400/4137.23N/08814.26W2000/000/A=3D000
IL0032    241401 @241401/4136.96N/08813.99W2000/000/A=3D000
IL0032    241919 @241919/4136.56N/08815.55W2000/000/A=3D000
```

here the time jumps five hours, then on the next report, it's back to normal but the day has changed...

```
IL0032    251404 @251404/4136.51N/08817.14W2000/000/A=3D000
IL0032    251405 @251405/4136.09N/08815.99W2000/000/A=3D000
IL0032    251406 @251406/4135.28N/08814.27W2000/000/A=3D000
IL0032    251408 @251408/4137.01N/08815.26W2000/000/A=3D000
```

We're going to try to correlate raw data from the TNC to these reports in future missions but for the time being, can any one point a place I can look for explanations of the different fields and the values they might contain.
Some specific questions based on the above data:

why in some cases we see 000/000 for course and speed an in others GGA/NUL or NUL/NUL.

why we see floating point values in course and speed. (I'm guessing the NMEA sentence being parsed might not be what APRS is expecting). Yet "good RMC Fix" is reported.

why do we see "last gps fix" in the middle of a flight.

the altitude of 3D000 is interesting. :-)

what is /raw*/ supposed to indicate.

and any ideas about the time warp :-) would be appreciated.

Any help would be appreciated.

Gerry Baumgartner
Gerry.Baumgartner@mail.cybg.com

13. Re: [APRSSIG:6062] Re: Beacon when mobile is stopped

From: dougwe@ccintnet.wrq.com
Date: Fri, 01 Nov 96 08:31:31 PST
To: aprssig@tapr.org
Message-ID: <9610018468.AA846866018@ccintnet.wrq.com>
Rendered body type: text/plain

The GPS-20 draws 180 ma. That's 4.32 A/hrs per day. I start the truck up twice a week and drive into town. That results in a drain of 17.28 A/hrs from the battery when the truck sets for four days. Automotive batteries are no longer marked for A/hr rating, but that size used to be considered about 50 A/hrs. That means I am discharging my battery by about 35%. Automotive batteries are shallow cycle batteries and cycling them lower than 20% will significantly shorten the life expectancy...

I don't think I'll try this.

You could buy a small solar trickle charger and plug it into your cigarette lighter when the truck isn't used...of course, if you park your truck in a garage, there are some issues to this ;-)

Doug
KC7CO

14. RE: [APRSSIG:6068] Future releases of WinAPRS

From: Tony Schliesser <aschlies@citynet.net>
Date: Fri, 1 Nov 1996 11:30:55 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC7E9.DAB82830@ppp155d.citynet.net>
Rendered body type: text/plain

Mark,

I am going to propose to you something -- and maybe we can get some support for it.

I run TNOS PBBS. In the near future, this system will have an Internet gateway to other HAM systems. I personally would like to see APRS support in such bbs systems as they have a good backbone for forwarding info.

For example, I can netrom connect to system over 300 miles away. While that does not always work well, my idea is to join the two technologies for better APRS connectivity. (god I hope this has not been done already).

I believe for the most part APRS uses HF gateways to get the "big picture". Would it not be nice if all the BBS's out there recognize the aprs broadcast packet from fixed and mobile stations and forward it on to a gateway??

My idea would include batching compressed aprs broadcast headers every minutes and forward this "packet" to a gateway and let that gateway infuse that into the rest of the aprs network.

Does this sound like something that is of interest??

I just was doing a little day dreaming today and stumbled on this.

Also, do you know of any aprs software for Line(UNIX??).

73
Tony N8XJA

From: Mark Sproul
Sent: Friday, November 1, 1996 11:01 AM
To: aprssig@tapr.org
Subject: [APRSSIG:6068] Future releases of WinAPRS

To all WinAPRS users both registered and un-registered

As many of you are aware, I have taken a little bit of a break from WinAPRS development over the summer and HSP took a bit longer than all of us had hoped to get finished. I had to back off a little or face total burn out. I had a good summer and am now ready to dive back into burning the midnight oil programming.

I am going to be doing lots more work enhancing WinAPRS and MacAPRS, we will also be working on X-APRS this winter.

Mac/WinAPRS has a great future, there are lots of major enhancments coming next year but many of the ideas are much to early to discuss. I am also working on my web server to serve you better with faster access to the files and documentation.

Some of the new features involve

    Weather display, many new features and options
    Civil Air Patrol - Search and Resque
    More database integration
    More display lists of data (can we say "Information Overload")

I have a couple of questions for all of you.

1) Do you like the current release rate, about one version a month, normally with several new features and bug fixes or would you like more releases. I prefer the former because it gives me more time to do testing but I want to hear what your preferences are.

2) What features do you want to see added. Please THINK about this one first realizing that I still have only managed to find 47 hours in a day and cannot do everything. Also, I do and have always kept ALL feature requests that anybody sends me, I keep them and go back over them fairly often. A feature that gets lots of requests gets done quicker than one that only gets one or two requests.

    Currently I am working on (not in any order)

```
                PRINTING
                FIND (data base search)
                ENHANCED WEATHER DISPLAY
                GRAPHS AND STATITICS, the graph windows that are in MacAPRS
                HSP DLL for Windows 3.1

Please give me your input on these and any other aspecsts of MacAPRS or WinAPRS

Mark Sproul

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

15. APRS..What am I?

From: agibbons@gatepoly.co.ck (Arnold Gibbons)
Date: Fri, 01 Nov 1996 01:09:56 -1000
To: aprssig@tapr.org
Message-ID: <199611011107.BAA10741@gatepoly.co.ck>
Rendered body type: text/plain

```
Bob...I have just been introduced to APRS by KE4SVH Joe McCarthy from the
S/v Navi-Gator presently visiting Rarotonga on a Pacific Cruise. Since 1988
I have been involved with the MM fraternity in their radio nets and for the
last 6 years have been providing daily weather bulletins on 14318.2 KHz at
0400 UTC.
Utilising donations from the visiting cruisers I have also established over
last 2 years a HF AMTOR MBO which I have just upgraded to PACTOR using Winlink.
I am amazed that APRS has not been promulgated to the Pacific cruising
fraternity. I have been looking for something like this to take the drudgery
of daily manual reporting and recording of vessel positions. This concept
provides a very simple mobile operation which doesn't tie crews to specific
times of the day to stand in line of 20 vessel roll call system. The
pictorial weather information I can get from the APRS would be of great
value to myself and the local weather forecasting service. I also act as an
weather data gathering station with the data being provided by the cruising
yachts. My activities are wholly voluntary and the only income come by way
of donations from grateful yachties.
My question is..What class of station am I in the APRS framework? The text
information doesn't seem to cater for a remote HF station receiving and
'Digipeating' vessel position and report packets covering about 2000 miles
radius of the South Pacific region. I have no access to a VHF system except
possibly via satellite relay to USA home BBS's at some later date. Would you
please give me a typical Unproto and Myalias setting to get things started.
I have posted my registration ($US40) but as Joe and I are trying to get
familiarised, I wanted to set my station on 10150 in the manner in which it
will be used and which Joe will access for trials on his journey to NZ in
about 2 weeks time. I am alone here in the use of packet communications and
for your information, it is my intention to close the MBO and operate APRS
on 10150 KHz from 1000 to 1700 hrs UTC.

Any suggetions or advice would be greatly appreciated.

Best regards and thanks for a very useful piece of Amateur software.

de Arnold ZK1DB.
```

---

16. RE: [APRSSIG:6066] Attn: TNC Mfgs--Suggestion follows--->

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 1 Nov 1996 12:27:20 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC7F0.07C74940@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Friday, November 01, 1996 4:17 AM, Dave Kaplan[SMTP:dkaplan@pionet.net]
wrote:
>OK guys, I also have a suggestion that I would like the TNC mfgs to look
at.
>
>I have been running airmobile a lot the past few weeks, and plan to in the
>future.  In my aircraft I use a Motorola Encore to feed my KPC-3 but also
>have a GPS in the aircraft that puts out ARNAV data stream rather than
>$GPXXX.  The ARNAV format is over 400 bytes long.  Even though APRS can
>parse the ARNAV string (with special registration) you guys would kill me
```

if
>I started sending that long data string from between 16,000 and 25,000
feet.
>What would it take to add a ARNAV mode to the firmware that would parse
out
>the data required to build a $GPRMC and a $GPGGA sentence. This woul save
>me having to carry an extra GPS into the aircraft to find a unobtrusive
>location to put my hockey puck antenna. It is also one less electrical
>connection I have to worry about.
>
>The other thing to look at is that all the CAP aircraft will be GPS
equiped
>over the next fews years with Northstar M-3 Lorans. National is buying
them
>in 100 lots and issuing them to aircraft as they can. This would be a big
>help in putting APRS in CAP aircraft without needing a second GPS in the
>aircraft and all the cables associated with this kind of removable gear.
>
>In my Mojave I had the radio shop drop a DB9 connector from my King
KLN-90B
>and have recorded data from flights lasting from 30 minutes to 2 hours in
>case you want to look at the data stream. Oh yes, I also the the key to
>reading the data stream!
>
>Dave
>WB0WNX-7 Mojave Airmobile
>(712) 279-8083

A couple of suggestions:

1. The commercial version of APRS (and maybe APRS too - ask APR) can take in an ARNAV string and output the NMEA strings. If you have APRS running in your aircraft, that can handle the translation for you. This was developed for use in aeromedical helicopters at St. Joseph's Hospital in Tampa.

2. PacComm commercial TNC code has supported ARNAV format for 3-4 years now. Not a well publicized feature, but available. We had some good talks with CAP folk some time back on this matter but not recently. Our TNC code does not support the format translation you need however. I'd consider adding that if 100 people could make use of it, but since it would be a lot of work it is hard to justify for limited use.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(A81`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`.@```%)%.B!;05!24U-)1SHV,#8V72!!='1N.B!43D,@
M369G<RTM4W5G9V5S=&EO;B!F;VQL;W=S+2TM/@#>$0$%@ ,`#@```,P'"P`!
M``P`&P`4``4`'P$!(( #``X```#,!PL``0`,`!0`#0`%`!$!`0F `0`A````
M03$X139$0C%#-S,S1# Q,3@P1#0P,#0P,#4R.4)#1#<`!@<!`Y &`-0)```2
M````"P`C```````#`"8```````L`*0```````P`V``````! `#D`8&28[QG(
MNP$>`' ``0```#H```!213H@6T%04E-)1SHV,#8V72!!='1N.B!43D,@5$Y#($UF
M9W,M+5-U9V=E<W1I;VX@9F]L;&]W<RTM+3X````"`7$``0```!8````!N\@9
M[W^Q;8ZB,\<1T(#4`$ %*;S7```>`!X,`0````4```!33510`````!X`'PP!
M````$0```&=W>6Y <&%C8V]M;2YC;VT``````P`&$'.:K18#``<0@P<``!X`
M"! !````90```$].1E))1$%9+$Y/5D5-0D52,#$L,3DY-C0Z,3=!32Q$059%
M2T%03$$%.4TU44#I$2T%03$$%.0%!)3TY%5$Y%5%=/4DLN1]+1U594RQ)04Q3
M3TA!5D5!4U5'1T535$E/3E1(050``````@$)$ $````U" ``,0@``-(0``!,
M6D9U6K;B*O\`"@$/`A4"J 7K`H,`4 +R"0(`8V@*P'-E=#(W!@`&PP*#,@/%
M`@!P<D)Q$$>)S=&5M`H,SMP+D!Q,"@S02S!3(-1+,60_?9C82QQ%U,!2V?1<*
M@ C/"=D[&W\R-37A')]E,3(X`H *@0VQP0M@;F<Q,#,44#\&QI,S8-\ M5
M%6(,`5)C`$ @3P.@1@409$AA>2P'L&]V$^!B$$020(# Q(J Q.3E -B T.C$W
M%+!-B2*@1&$BX"!+80M1`&Y;4TU44#ID8FLDTT!P:0(@$< NL28Q72!W`V 3
MT#H*A'X^"T86\B&C$K 34";A8\$%0$]+(&=U$[ BH,1)( = <V\@$8 DD4!A
M('-U9V<'D'2Y)A$@=!& !4 IT'<(8.AL9" @D&LDH"M@)*" 5$Y#(&UF9P0@
M9G0J(!L0;VLIX"90(/8@"H0@[S$GCRB8+B\O/Q\P3RG!*D,C$ GP(')U3FX#
M`!_0*>!I<@1@8G\$#$"IR&Q %0"R""K 3P"#J9@?1=PG@:RFA`' L$/\DXBU"
M"X L<C%?,F\S/S=05'5T"'!E+?%)`Z!MMGDUP@4`80& *<%U$; ]*H%-)N %
```

```
ML ;P*I!%;C\%H2QA*B W8 F /2)+4/A#+3,T\#R *>,Y/SI/\SM?*C9'4 7P
M.-0]6"MC'G \@ 0@"& %0$%23KA!5B B< &0*J!T&X!\86TU0"N +) %P"MA
M;M=!#T(?0R\D1+!83 `M\?Y4+)%&U (0-? K@00`1H"3(N %P#0P&A!B>1/0
M[P0@&Q ?T"WQ12+@*T((8*1G:!2P4%(%\&-(C_])GTJO*1$*L3XA+()&U$>!
MW362* /P*V JH' %D <Q>35 96<$`$>0*X F$2G<('D(8"EC*\5K`Q #(/L'
M@#C 9E!/45]2;RG!$\#_"L 3T"P0$; X(#62*V-.DF]')S62`U(T\70WH0.@
M,?PV+$X`&A X$AVP7O,_H<\F4%A/65]:;R!7*W(KU)M5$"M082Q2*B!A9"P0
M7RJ01M0$8BU"+()F->%W_PK +&)CIU.$1I%@3V%?8F_G+'-',QN <74UX#_!
M+5'/0( #$&4"2]%232S@.!+Q;2-'1T%<$A/0/Q \PO],8$UQ*](JH"2!:#]I
M3VI?GU?B*D%<8RH@4!!R<CU!^0.@97A6(42E9?5%:#^!OPN 90(U8#801Y ^
M$&EO__]Q#W(?*1$;$% 0*Q0J($9!^STB3V!C+% ]0$9 ?% X`?ENL6YA/-)-
M4RGS)B$L('L'D 0@939 *1 %$% 0;/]WSWC?>>]0``(@)C I$"LB_S25+5$K
MT'1#!N \@"W_@%__@6\Q+X7/AM\I`DQB)N!()']SM2V%36(K8P= `R L@D/_
M3\ ]6 /P5\$C$$2C;!)58/YDB!^)+XH_390L@B8P=,#[-U($('E'L!&@CL%5
M(2+ W0`@:%NB!=! 44P%L !QO82Q3E9#5:%-<4" >5QD_Q/@D ^1'Y(O.,(?
M\!H0-I'_?=$X(00!;#"7E62C/78W(/\L<CU 4!%O"BP0CR$JD#8@OF>8#YD?
MFB\J,'[0<#C"_T9!*Q UH4_#.-&.#4]2!4#_)C )@#637!&"L2P1+B?[_^@
M_Z(/G3EMPHV54! "8 >1_S<@*A!5@5OB50.+\00@5Z#9."%O9E7!!&!VK$(I
M8/^4@6 _J*^IOX@/L&^Q?RN1^ST3/G!J)((TDFQQ+)$]H-M<4"H@<T]@HU!D
M`V"C4/$JD$1".8*F!;%>`S_R`3622TQ.+3DP0O^RG[.OM+\X`RI#&X %H0VP
MWRP01S->`Q^@G\!H1F$+8.LK`5W6,QH0;0N /( 'D?\M41'@3V&4H0N NH^[
MG[RO_U !/B%6LF:@`C",2FMW1X3]A+%/3Z"4<"FH+((L@GQB_RU0PE_#;\1_
M5<&W49>41RK^(<H?RR_,/\[?S^_0_R1C#](/TQ_4+V-P0C!73NQ8+200MC5!
M->;5C]:?&=>O*#<?`%:0,C<YX"TX,#@SVE8+&2%H[PJ$"H5N8 6@=0M09^&N
M4.TJN',G%0J%,82P3&(%H/YM!X ]@%623;$`D"LQKD'M3\,H.!(`P'F/(4_#
M+5#]*B MG<$ML$_!5I!0$614?Z=!`Y%4*S@21I%[PBR"3MQ-16YA5).644FN
M4%:R_RI#3\,U5J=!5K$%P#UF(J#W*V/G8DAQ9#9!R3.6(@M@_RL330%6HN-B
M;U*=T0VP(N#_&Q"/T>^3/A+G\@20`W"F$7]_0:,2?S"WP!/0E*$K@5.)A*%*
M;Q&P<&@G!""^2/00)@`!D)<!`Z!41\#7"K"O50J%,H2P4 #0"%#_X^#CNBS"
M!:!EP1& !" JL#QP<!LA/\%,J^^B,RWV-)1E=R!WA+ BP$"A-Y'/5\%&0 )@
M?S!I>O$R1[!_/)(BH$"#KK #$*Q"A+!7_W-B7 'R02E@+9!L<0= -]!_E,2.
M`@(0_V#^E"L05_%B__; +; K,TUQ33'S04!S=R"GS3)NX [@;'F$L$_LT?GW
MYV1O!Y$"HOBU9A1-%'_NZE:RI?)\(3>@3;'JT2?_+!""L>2@#;#LX63P7&=8
M(/^;8U5@M\ V0>$A+ 'YX"Q1_SX2Y/%5$/TDY*!NT60BGPG_-I+D\80!+;!D
M,4UQ$8%L<_9J/A K$&9 `/HB()#!`/];XCX1]:L@/R%+A-4G)-\'IQD"W]!$
MH'=Y\?!2/['!(I%7,4)%3."S]K;7]K$L4/MP4K=34RF0;K >;1EPX,*_P.F
M.B\OJG<8L"XG4&/CPB[CP07BI'T:$ ````,`$! ``````P`1$ ````! ``<P
JH/=S\1C(NP% ``@PH/=S\1C(NP$>`#T``0````4```!213H@`````(%^
`
end
```

---

17. Re: [APRSSIG:6062] Re: Beacon when mobile is stopped

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Fri, 01 Nov 96 17:24:27 UTC
To: aprssig@tapr.org
Message-ID: <2805@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

KF4DYS said (in part) concerning power consumption:

> The GPS-20 draws 180 ma. That's 4.32 A/hrs per day. I start the truck up
> twice a week and drive into town. That results in a drain of 17.28 A/hrs
> from the battery when the truck sets for four days. Automotive batteries

Here is a way to cut the number in half, doubling the battery lifetime.
A firm called Power Trends offers a small switching power regulator that
replaces a 7805 and provides ~85% power conversion efficiency. If you have
a DigiKey catalog handy, or check http://www.digikey.com or call them at
1-800-DIGIKEY you will find that the PT5101 or 78SR series regulators
will cost you in the $10-$15 range and require only the regulator plus
an external 100uf cap, plus an optional zener diode. From a 12v input,
counting the converter's efficiency, the power drain will be in the 90-100
ma range.

You can also see the info on the PT5101 at http://www.powertrends.com
FYI -- the Real! Soon! Now! TAPRized version of my "Totally Accurate Clock"
includes the PT5101 or 78SR series regulator as a power/heat saving option.
More on that soon.

73, Tom

---

18. Re: [APRSSIG:6068] Future releases of WinAPRS

From: "Kent Hufford" <khufford@erols.com>
Date: Fri, 1 Nov 1996 12:45:29 -0500
To: <aprssig@tapr.org>
Message-ID: <199611011740.MAA18594@smtp1.erols.com>
Rendered body type: text/plain

Well, since I'm at work, I cannot think of all the things that are not
implemented..

- SAVE

- When you do the settings block, in one of the default text strings that
is sent, it says MACAPRS in the WINDOWS version.

- How about the program remembering which map it was using and its
location? Like the dumb dos version does?

Kent

> From: Mark Sproul <sproul@ap.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6068] Future releases of WinAPRS
> Date: Friday, November 01, 1996 11:01 AM
>
> To all WinAPRS users both registered and un-registered
>
> As many of you are aware, I have taken a little bit of a break from
WinAPRS
> development over the summer and HSP took a bit longer than all of us had
> hoped to get finished. I had to back off a little or face total burn
out.
> I had a good summer and am now ready to dive back into burning the
midnight
> oil programming.
>
> I am going to be doing lots more work enhancing WinAPRS and MacAPRS, we
> will also be working on X-APRS this winter.
>
> Mac/WinAPRS has a great future, there are lots of major enhancments
coming
> next year but many of the ideas are much to early to discuss. I am also
> working on my web server to serve you better with faster access to the
> files and documentation.
>
> Some of the new features involve
>
>   Weather display, many new features and options
>   Civil Air Patrol - Search and Resque
>   More database integration
>   More display lists of data (can we say "Information Overload")
>
> I have a couple of questions for all of you.
>
> 1)   Do you like the current release rate, about one version a month,
>   normally with several new features and bug fixes or would you like
>   more releases. I prefer the former because it gives me more time to
>   do testing but I want to hear what your preferences are.
>
> 2)   What features do you want to see added. Please THINK about this one
>   first realizing that I still have only managed to find 47 hours in a
>   day and cannot do everything. Also, I do and have always kept ALL
>   feature requests that anybody sends me, I keep them and go back over
>   them fairly often. A feature that gets lots of requests gets done
>   quicker than one that only gets one or two requests.
>
>   Currently I am working on (not in any order)
>
>   PRINTING
>   FIND (data base search)
>   ENHANCED WEATHER DISPLAY
>   GRAPHS AND STATITICS, the graph windows that are in MacAPRS
>   HSP DLL for Windows 3.1
>
> Please give me your input on these and any other aspecsts of MacAPRS or
WinAPRS
>
> Mark Sproul
>
>
____
> Mark Sproul |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press |
> sproul@ap.org |Work: 609-860-7120
> North Brunswick, NJ |Fax: 609-860-7129
> http://msproul.rutgers.edu/
>

```
___________________________________________________________________________
>
>
```

19. Winaprs 1.16

From: ko6xs@ko6xs.ampr.org
Date: Fri, 01 Nov 96 10:31:33 PDT
To: aprssig@tapr.org
Message-ID: <7481@ko6xs.ampr.org>
Rendered body type: text/plain

```
GM all,
I'm having trouble updating my WinAPRS 114 using the downloaded W116updt.zip
I' tried using pkunzip ver 2.04. The program unpacks all the files OK until
WINAPRS.Exe. It gives me the error message that WINAPRS.EXE contains a CRC
sum error and that it can't unzip it. I tried downloading again and go the
same error message. What's happening here?? Thanks for any help.
73s de Jonathan
```

20. Re: [APRSSIG:6059] NYC Marathon

From: stanzepa@usa.nai.net (stan horzepa)
Date: Fri, 1 Nov 1996 13:12:06 -0500
To: aprssig@tapr.org
Message-ID: <v01540b01ae9febd1c782@[206.98.48.245]>
Rendered body type: text/plain

```
>Hi Arte,
>I sent a msg to Stan WA1LOU about the aprs and NYC, but no reply.
>When is the Marathon ??
>Knut

Missed your message, Knut. The marathon is Sunday.

Stan, WA1LOU
```

21. Re: Winaprs 1.16 ZIP file

From: Mark Sproul <sproul@ap.org>
Date: Fri, 1 Nov 1996 13:19:25 -0500
To: aprssig@tapr.org
Message-ID: <v03007802ae9fef68d932@[165.1.27.171]>
Rendered body type: text/plain

```
>GM all,
>I'm having trouble updating my WinAPRS 114 using the downloaded W116updt.zip
>I' tried using pkunzip ver 2.04. The program unpacks all the files OK until
>WINAPRS.Exe. It gives me the error message that WINAPRS.EXE contains a CRC
>sum error and that it can't unzip it. I tried downloading again and go the
>same error message. What's happening here?? Thanks for any help.
>73s de Jonathan

I have sent him via direct email another copy of  W116updt.zip, if anyone
else is having this problem, let me know ASAP


Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

22. Re: [APRSSIG:6064] Re: MIR on 145.800!

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@csee.usf.edu>
Date: Fri, 1 Nov 1996 13:50:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.95.961101134524.2437B-100000@babbage>
Rendered body type: text/plain

```
On Fri, 1 Nov 1996, Bob Bruninga wrote:

> next few passes and see if I hear any APRS packets...

Has anyone considered the fact that if the input is on 145.200 that the
hundreds of repeaters transmitting on 145.19 and 145.21 will cause
probably more problems and these stations run much more power than us APRS
```

folks. I run 2 watts myself into a J-Pole in the corner of my bedroom.

I hope there will be no problems, ad we can co-exist peacefully..

Paul

```
 Paul Knupke, Jr.                  /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /               Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

---

23. RE: [APRSSIG:6068] Future releases of WinAPRS

From: Tony Schliesser <aschlies@citynet.net>
Date: Fri, 1 Nov 1996 12:33:02 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC7FD.054398B0@ppp155d.citynet.net>
Rendered body type: text/plain

I must apologize, I was thinking out loud and mean to send this note to someone else. I don't want to start a stir or anything -- to the list, please disregard the note and accept my apologies.

Tony

From: Tony Schliesser
Sent: Friday, November 1, 1996 11:30 AM
To: 'aprssig@tapr.org'
Subject: RE: [APRSSIG:6068] Future releases of WinAPRS

Mark,

I am going to propose to you something -- and maybe we can get some support for it.

I run TNOS PBBS. In the near future, this system will have an Internet gateway to other HAM systems. I personally would like to see APRS support in such bbs systems as they have a good backbone for forwarding info.

For example, I can netrom connect to system over 300 miles away. While that does not always work well, my idea is to join the two technologies for better APRS connectivity. (god I hope this has not been done already).

I believe for the most part APRS uses HF gateways to get the "big picture". Would it not be nice if all the BBS's out there recognize the aprs broadcast packet from fixed and mobile stations and forward it on to a gateway??

My idea would include batching compressed aprs broadcast headers every minutes and forward this "packet" to a gateway and let that gateway infuse that into the rest of the aprs network.

Does this sound like something that is of interest??

I just was doing a little day dreaming today and stumbled on this.

Also, do you know of any aprs software for Line(UNIX??).

73
Tony N8XJA

From: Mark Sproul
Sent: Friday, November 1, 1996 11:01 AM
To: aprssig@tapr.org
Subject: [APRSSIG:6068] Future releases of WinAPRS

To all WinAPRS users both registered and un-registered

As many of you are aware, I have taken a little bit of a break from WinAPRS development over the summer and HSP took a bit longer than all of us had hoped to get finished. I had to back off a little or face total burn out. I had a good summer and am now ready to dive back into burning the midnight oil programming.

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Mac/WinAPRS has a great future, there are lots of major enhancments coming next year but many of the ideas are much to early to discuss. I am also working on my web server to serve you better with faster access to the files and documentation.

```
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        Weather display, many new features and options
        Civil Air Patrol - Search and Resque
        More database integration
        More display lists of data (can we say "Information Overload")

I have a couple of questions for all of you.

1)      Do you like the current release rate, about one version a month,
        normally with several new features and bug fixes or would you like
        more releases. I prefer the former because it gives me more time to
        do testing but I want to hear what your preferences are.

2)      What features do you want to see added.  Please THINK about this one
        first realizing that I still have only managed to find 47 hours in a
        day and cannot do everything. Also, I do and have always kept ALL
        feature requests that anybody sends me,  I keep them and go back over
        them fairly often.  A feature that gets lots of requests gets done
        quicker than one that only gets one or two requests.

        Currently I am working on (not in any order)

                PRINTING
                FIND (data base search)
                ENHANCED WEATHER DISPLAY
                GRAPHS AND STATITICS, the graph windows that are in MacAPRS
                HSP DLL for Windows 3.1

Please give me your input on these and any other aspecsts of MacAPRS or WinAPRS

Mark Sproul

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

24. Re: [APRSSIG:6068] Future releases of WinAPRS

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 1 Nov 1996 13:20:14 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961101131911.13291B-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I'd like to see some SkyWarn features added as well as a lightining
detection/plotting function.
```

---

25. Antenna for GPS45Xl

From: Dennis James <denniswj@aljan.com.au>
Date: Sat, 02 Nov 1996 06:40:45 +1100
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961101194045.0066d500@aljan.com.au>
Rendered body type: text/plain

```
Hello All

I might have missed some of the info on the sig about car mag mount antenna
and a suitable antenna for indoors that has more gain than the current
external antenna, I am looking to purchase from a mail order store in the
states.

Can anyone recommend a antenna and a source thats not going to charge like a
wounded bull.

Dennis
de vk2dor
denniswj@aljan.com.au
Dennis
Scone
The Horse Capital of Australia
denniswj@aljan.com.au
VK2DOR
Satellites UO-22 KO-23 KO-25
```

26. Re: [APRSSIG:6073] RE: Attn: TNC Mfgs--Suggestion follows--->

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 1 Nov 1996 13:45:05 -0600
To: aprssig@tapr.org
Message-ID: <9611011945.AA29136@elwood.pionet.net>
Rendered body type: text/plain

```
>
>A couple of suggestions:
>
>1. The commercial version of APRS (and maybe APRS too - ask APR) can take
>in an ARNAV string and output the NMEA strings. If you have APRS running in
>your aircraft, that can handle the translation for you. This was developed
>for use in aeromedical helicopters at St. Joseph's Hospital in Tampa.
>

Gwyn, It is true that APRS can output the NEMA string, but, we are trying to
build a stand alone tracker so there will be no computer involved.

>2. PacComm commercial TNC code has supported ARNAV format for 3-4 years
>now. Not a well publicized feature, but available. We had some good talks
>with CAP folk some time back on this matter but not recently. Our TNC code
>does not support the format translation you need however. I'd consider
>adding that if 100 people could make use of it, but since it would be a lot
>of work it is hard to justify for limited use.

I could use the ARNAV format now but, as I pointed out, the ARNAV data
string is over 400 bytes long.  With a high antenna this would add
significant QRM that I don't want to.

As far 100 people involved, anyone else on the SIG have any interest?

Dave

>
>
>Gwyn Reedy, W1BEL
>PacComm Packet Radio Systems
>http://www.paccomm.com
>
>begin 600 WINMAIL.DAT

By the way Gwyn, you putting out that Micro$oft stuff again!
```

---

27. Re: [APRSSIG:6079] Re: MIR on 145.800!

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Fri, 01 Nov 96 20:18:12 UTC
To: aprssig@tapr.org
Message-ID: <2823@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
KR4YL said, about the MIR situation:

> Has anyone considered the fact that if the input is on 145.200 that the
> hundreds of repeaters transmitting on 145.19 and 145.21 will cause
> probably more problems and these stations run much more power than us APRS

Reemeber that this is an INTERNATIONAL problem. The band plan in Europe is
VERY different from the US and there are not repeater inputs on 145.200.
And Japan has NO repeaters on 2M.

I am certain that if some wise sage can find a "universal" "perfect" frequency
that will solve the world-wide problem, they would be welcomed with open
arms!

73, Tom
```

---

28. Re: [APRSSIG:6066] Attn: TNC Mfgs--Suggestion follows--->

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Nov 1996 16:14:24 -0500 (EST)
To: aprssig@tapr.org
Cc: gywn@paccomm.com
Message-ID: <Pine.GSO.3.95.961101161220.1807A-100000@arctic>
Rendered body type: text/plain

```
On Fri, 1 Nov 1996, Dave Kaplan wrote:

> OK guys, I also have a suggestion that I would like the TNC mfgs to look at.
>
```

```
> future.  In my aircraft I use a Motorola Encore to feed my KPC-3 but also
> have a GPS in the aircraft that puts out ARNAV data stream rather than
> $GPXXX.  The ARNAV format is over 400 bytes long.....
> What would it take to add a ARNAV mode to the firmware that would parse out
> the data required to build a $GPRMC and a $GPGGA sentence?

APRSdos REPLY/COMMENT:  The simpler way is for PacComm to have an ARNAV
mode that only sends the first N bytes and then ignores the rest of the
400 bytes.  LAT,LONG,CSE and SPD are all in the first 20 bytes or so...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

29. Re: [APRSSIG:6072] APRS..What am I?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 1 Nov 1996 16:27:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961101162406.1807E-100000@arctic>
Rendered body type: text/plain

```
Welocme!!  Glad to hear from you.  Yes, PARS is perfect for you, but it
has been slow to catch on... I guess the cruisers are in their own world,
hi hi.  You never said where you ARE, except for a name starting with R
which I have never heard of, hi hi...

Your V# is 02547 and your GPS number is 857 and WX number is 650 if you
have a PEET or Davis WWX station.

Set your unproto to GATE,WIDE
and set your MYGATE call to GATE (but I think you said you have no VHF
APRS network, so it really doesnt matter....

Ive gotta run right now, but would be happy to chat more.  What is your
LAT/LONG, then I can plot you on my APRS map!  and in fact, I can let
everyone else see whre you are too!

 Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

30. RE: [APRSSIG:6059] NYC Marathon

From: Ted Wolf Jr <ted@usa.net>
Date: Fri, 1 Nov 1996 15:55:45 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC813.E5C5A610@ip51.ridgewood.nj.interramp.com>
Rendered body type: text/plain

```
The marathon is on Sunday Nov 3 starting approx. at 10:00am. APRS & Packet are not used in support just
voice.

Ted Wolf Jr.  kb2blx
Mile 20 Captain NYC Marathon

----------
From:   Knut Finnevolden
Sent:   Friday, November 01, 1996 6:43 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:6059] NYC Marathon

Hi Arte,
I sent a msg to Stan WA1LOU about the aprs and NYC, but no reply.
When is the Marathon ??
Knut
```

31. RE: [APRSSIG:6068] Future releases of WinAPRS

From: Ted Wolf Jr <ted@usa.net>
Date: Fri, 1 Nov 1996 16:43:58 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC813.EAB9F590@ip51.ridgewood.nj.interramp.com>
Rendered body type: text/plain

```
Mark,
        Do you think that you could add auto HTML page generation of the display(specifically the
weather stuff) so that we could post it directly on a web site?

Ted Wolf Jr.   kb2blx

----------
From:   Mark Sproul
```

Sent:	Friday, November 01, 1996 11:01 AM
To:	aprssig@tapr.org
Subject:	[APRSSIG:6068] Future releases of WinAPRS

To all WinAPRS users both registered and un-registered

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Weather display, many new features and options
Civil Air Patrol - Search and Resque
More database integration
More display lists of data (can we say "Information Overload")

I have a couple of questions for all of you.

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HSP DLL for Windows 3.1

Please give me your input on these and any other aspecsts of MacAPRS or WinAPRS

Mark Sproul

```
_________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

32. RE: [APRSSIG:6085] Re: Attn: TNC Mfgs--Suggestion follows--->

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 1 Nov 1996 17:18:24 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBC818.B0F77BC0@gwyn.paccomm.com>
Rendered body type: text/plain

On Friday, November 01, 1996 10:13 AM, Bob Bruninga[SMTP:bruninga@nadn.navy.mil] wrote:
>On Fri, 1 Nov 1996, Dave Kaplan wrote:
>
>> OK guys, I also have a suggestion that I would like the TNC mfgs to look at.
>>
>> future. In my aircraft I use a Motorola Encore to feed my KPC-3 but also
>> have a GPS in the aircraft that puts out ARNAV data stream rather than
>> $GPXXX. The ARNAV format is over 400 bytes long.....

>> What would it take to add a ARNAV mode to the firmware that would parse
out
>> the data required to build a $GPRMC and a $GPGGA sentence?
>
>APRSdos REPLY/COMMENT: The simpler way is for PacComm to have an ARNAV
>mode that only sends the first N bytes and then ignores the rest of the
>400 bytes. LAT,LONG,CSE and SPD are all in the first 20 bytes or so...
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

That sounds rather easy to do. Will check it out.

I know the darned MS WINMAIL.DAT is getting sent out with these messages.
I've never found a way to stop it, but will be changing mailers soon. I
know the work around for MS Exchange, but it takes time and I'm 418
messages behind (not junk mail - messages requiring answers) so I'm saving
time on this one.
>
>
>

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(AH6`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G`````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D````"P! .@$`````"
M`?8/`0````0````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`/@```%)%.B!;05!24U-)1SHV,#@U72!293H@071T;CH@
M5$Y#($UF9W,M+5-U9V=E<W1I;VX@9F]L;&]W<RTM+3X`\!(!!8 #``X```#,
M!PL``0`1`!(`& `%`!\!`2" `P`.````S <+``$`$0`0``4`!0`*`0$)@ $`
M(0```$,P.$4V1$(Q0S<S,T0P,3$X,$0T,# T,# U,CE"0T0W``<'`0.0!@#D
M!@``$@````L`(P```````P`F```````+`"D```````,`-@``````0 `Y`*"^
MT9A"R+L!'@!P``$````^````4D4Z(%M!4%)3)34TE'.C8P.#5=(%)E.B!!='1N
M.B!43D,@369G<RTM4W5G9V5S=&EO;B!F;VQL;W=S+2TM/@````(!<0`!````
M%@````&[R$*8P+%MCL$SQQ'0@-0`0 4IO-<``!X`'@P!````!0```%--5% `
M````'@`?# $````1````9W=Y;D!P86-C;VUM+F-O;0`````#``80Z?M\UP,`
M!Q#U`P``'@`($ $```!E````3TY&4DE$05DL3D]614U"15(P,2PQ.3DV,3 Z
M,3-!32Q"3T)"4E5.24Y'05--5% Z0E)53DE.1T% 3D%$3DY!5EE-24Q74D]4
M13I/3D9222PQ3D]6,3DY-BQ$059%2T%03$%.5P``````"`0D0`0```$,%```_
M!0``J H``$Q:1G4><GC7_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&
M``;#`H,R`\4"`'!R0G$1XG-T96T"@S.W`N0'$P*#-!+,%,@U$LQ9#]]F-A+'
M$74P%+9]%PJ ",\)V3L;?S(U->$<GV4Q,C@"@ J!#;1$T 8%P$%40"P=
M;&DS-@WP4"!4458@P!/0F"D!,(!9:!S9)2&I%#_&@`E9!U\@\('1N<&X2S
MV(5\B"I,%0&P5AF)\!EA!&D%X@0`(S$J(O,")U!,%FJE=?%GNN9%CQ=4)Y
M$;!<+2<*(0F0*`$0N(B1:5IK7EN=5M7Q8?2/:(NCZK_HR)3W`(33$2!<2(Y
M$1#@!`!2(U!S$!!&&&)S@D1WPB,IPWX38-D4!8I+4!N`%!4E3I,0*?PQ!0
M;(F(>-`-AXV/?`IDW+5VP=XY>)4S;04`CPH#KA)0B!$Y$R&?0HZ:'K/7/
M`.JTHP,1H4+!IQ!5"AB!#)^_$!J7_%YI<<)I&X@=<+,&;)F!J$5_9`!%.YFT
M`**A;]8@'X1Z1DP?S#B,1"JN("-&0;R+.5CZ,0D.Z'RMHK'P>`$.$E4ZVB
M$`3!$T!JHW0O&`$_!@W'(0!&$#+DB(R#1UD+5T)G`SR_R+4U#,07DB`>Q@?.
M'`*5F6;1S&S]\U@;(K:X<3Z6`2A1*/`J@@!3)V0HE=6A@P4P\P`;JOJE=_&%F
M@/=E))2&GR<`"4*6P$*)G`3V)S`-<(-#*-:>E+71(9:0AL($2]^*UFM<05
M)&@$C>/E+$UZIN?1G'&*6@=W:]`2:0$).D1@,PX(B)*B-OJ@`[\FP9'*XG
MF48OX$+L_1)(DCRA5LK_)PH`BZJJ<GZJ7&T,:O[`,@M>!PH4B]YI^/%1JH
MP49!T1$!$B)I$I0PQ%,.<12D'N@?I[F<D1VC.GN(MZTS5:E6/R;+]-!*;/B!
MB")0R(0>!2(PS,5CLMK<)]VQ14-WP>9+,_G$J0)UP4LJZ8E^\F8!5`@(M'5
MS4L-H%&&%A),#DH/M>=Q%-1'#1(]Z8$@R-E]QZL])F:Y@U(DS;J;B/:MZAZS
M$'T?T"Y0DDI/2U],;S)@5^LTLC44:4=Q8362,V F0+\U4#/02'0$8C:"-<)F
M/P#\;7<*P#6B5%<*L3^Q2#%_4.]1_U,/UPC3&X!Q_G4_`$%1%-&9E%*#"$\ ,0
M5;)-D1Q2338@`'!=Q4=$`/Q>!N5.O=3D5:$]8E:CYA1@^+?H$>K"P0
M9 )O!"!215!,62]#3TU-14Y4.B @5&AE('-I;7!L97(@=V%Y(&ES(&90
M;4EP-I'_,X0#H(B1$V2!IDQ!\3H_:/>X/?U@&G2Z4\E0/SMNH@$Z%YQN$Y
MP0.@:6=N[T#'RQQ:1CYKSP=Lw^H-S%,05L3(!/3D<L0U-7F/X
M4U!$$,R!R!T0='Q!I8@3)/0^4SU"\SPX\S!SC^'N@R1[1B4;D6R<R10>C&X
MP0/BFT^Z4XP,@`",K<(Q$$F28T&=Z'1V3@!"L'N:K<]1:*6C%0(.&*2T:ZF8@
M7!U$F3?U_U2NAU%ZYI:JT?Z&9=L-&%?RAV:<A.Y1$M\3)9P*R3%$+D[5NX;
M$4)1P25_#&DD-/$99X]2L)W5/'$7O-@Q!Z11RRPFN.JVP=#*ZT)V4SQJ=L
M$"F0*A7].[1#)NS6U)$@4=0%LBE)$"?P$=%R4CJE)I'I_,8Y9WE0Z<W=*L
MHO*A7].(#3!,$!X9A,9'1:Q)>6KD7W+F\`B5W#NW!#A'8^NT69[0EU?A>:
M>@4*A3,0\S4&DQNI.8M30#N5'<Z)#$E.A;Z)JW\%_-@*ZS"K52%@/0K`B#LA
MQ$BT9$6`.2#QH0DJ5'=,4$'3,8<WO@MM@/1*TA'1&8!>Q`6UP:*`CTQF6`
M08=+2`0'%0$5VPR@J3VRC8SL`1WA`TX]UDX[XSD=:X<F+I9BJ$UP_>W'_&
M>$V@M)F0%XG3`4CIX>M"'C0^KE3ND-!WT4-_!V=P8A0SFK-I\UZ\A7+"[
MH%RXE(!D:!@S/OE)S:E::PM?(')NJIM]&!D#/%LTEA!TW01\,$I!D!>@1QQ^I
M>)@#99<D5.4?-G$'<5YCE1!)<#0Q.)N49Y?!: N -5 @*'$0W05 :B3@-O"
MXRV=R%S$[Y+R`'&'H!&@*7FQG4.",/YVDO*<PS1S3S*14'H'(%__@[^$SWT?
MI3^F3Z=J&^I?W^JB:0BR^+V0LW&0)Y`4<\=WD#H(" "8 BD5<Q^$)%3 JC
M:39I,36O@&%_)D T8!.5$R *LH<VMA N;0JP8P6@:8 NMH&+Y'T!MW ``P`0
```

```
M$ `````#`!$0`````$ `!S# GW-&0LB[`4 `"## GW-&0LB[`1X`/0`!````
.!0```%)%.B `````>S$`
`
end
```

33. Re: [APRSSIG:6085] Re: Attn: TNC Mfgs--Suggestion follows--->

From: Dave Kaplan <dkaplan@pionet.net>
Date: Fri, 1 Nov 1996 16:28:26 -0600
To: aprssig@tapr.org
Message-ID: <9611012228.AA04000@elwood.pionet.net>
Rendered body type: text/plain

```
At 03:16 PM 11/1/96 -0600, you wrote:
>On Fri, 1 Nov 1996, Dave Kaplan wrote:
>
>> OK guys, I also have a suggestion that I would like the TNC mfgs to look
at.
>>
>> future.  In my aircraft I use a Motorola Encore to feed my KPC-3 but also
>> have a GPS in the aircraft that puts out ARNAV data stream rather than
>> $GPXXX.  The ARNAV format is over 400 bytes long.....
>> What would it take to add a ARNAV mode to the firmware that would parse out
>> the data required to build a $GPRMC and a $GPGGA sentence?
>
>APRSdos REPLY/COMMENT:  The simpler way is for PacComm to have an ARNAV
>mode that only sends the first N bytes and then ignores the rest of the
>400 bytes.  LAT,LONG,CSE and SPD are all in the first 20 bytes or so...


But if they are going to go to tht effort why not put it in a $GPRMC or
$GPGGA format?

Dave
```

34. GPS-20

From: dougwe@ccintnet.wrq.com
Date: Fri, 01 Nov 96 15:19:43 PST
To: aprssig@tapr.org
Message-ID: <9610018468.AA846890614@ccintnet.wrq.com>
Rendered body type: text/plain

```
Several months ago, there was a lengthy discussion regarding source
     for various connectors and adaptors for the MCX connector on the
     GPS-20.  Does anyone have that digest, or know if it's archived
     somewhere on ftp.tapr.org?  Or have copies of the best posts?

     Thanks!

     Doug
     KC7CO
```

35. Shirts

From: kd4emi@juno.com (Michael A. Kantor)
Date: Fri, 01 Nov 1996 19:03:20 EST
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <19961101.200518.5375.0.KD4EMI@juno.com>
Rendered body type: text/plain

```
All shirts went out today. There are no back orders.

I have all sizes now in stock should anyone want any.
Mike KD4EMI@juno com
```

36. RE: [APRSSIG:6072] APRS..What am I?

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 1 Nov 1996 19:21:35 -0500
To: "'agibbons@gatepoly.co.ck'" <agibbons@gatepoly.co.ck>
Cc: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BBC829.E6E67D60@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Friday, November 01, 1996 6:15 AM, Arnold
Gibbons[SMTP:agibbons@gatepoly.co.ck] wrote:
>Utilising donations from the visiting cruisers I have also established
over
>last 2 years a HF AMTOR MBO which I have just upgraded to PACTOR using
Winlink.
```

>I am amazed that APRS has not been promulgated to the Pacific cruising
>fraternity. I have been looking for something like this to take the
drudgery
>of daily manual reporting and recording of vessel positions. This concept
>provides a very simple mobile operation which doesn't tie crews to
specific
>times of the day to stand in line of 20 vessel roll call system. The
>pictorial weather information I can get from the APRS would be of great
>value to myself and the local weather forecasting service. I also act as
an
>weather data gathering station with the data being provided by the
cruising
>yachts. My activities are wholly voluntary and the only income come by way
>of donations from grateful yachties.
>My question is..What class of station am I in the APRS framework? The text
>information doesn't seem to cater for a remote HF station receiving and
>'Digipeating' vessel position and report packets covering about 2000 miles
>radius of the South Pacific region. I have no access to a VHF system
except
>possibly via satellite relay to USA home BBS's at some later date. Would
you
>please give me a typical Unproto and Myalias setting to get things
started.
>I have posted my registration ($US40) but as Joe and I are trying to get
>familiarised, I wanted to set my station on 10150 in the manner in which
it
>will be used and which Joe will access for trials on his journey to NZ in
>about 2 weeks time. I am alone here in the use of packet communications
and
>for your information, it is my intention to close the MBO and operate APRS
>on 10150 KHz from 1000 to 1700 hrs UTC.
>
>Any suggetions or advice would be greatly appreciated.
>
>Best regards and thanks for a very useful piece of Amateur software.
>
>de Arnold ZK1DB.

Arnold,

Here is some information which may be of interest to you.

PacComm has put together a low cost tracker for maritime use. It consists
of a GPS receiver integrated into a pactor modem. It will transmit the
vessel's location via FEC on a periodic basis over HF, thus greatly
extending the range of tracking possible.

If you wish more information, please let me know.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

37. Re: [APRSSIG:6083] RE: Attn: TNC Mfgs--Suggestion follows--->

From: carlt@icanect.net (CARL TAYLOR)
Date: Fri, 01 Nov 1996 19:25:56 -0500
To: aprssig@tapr.org
Message-ID: <199611020024.TAA15318@foo.icanect.net>
Rendered body type: text/plain

I>Gwyn, It is true that APRS can output the NEMA string, but, we are trying to
>build a stand alone tracker so there will be no computer involved.
>
>>2. PacComm commercial TNC code has supported ARNAV format for 3-4 years
>>now. Not a well publicized feature, but available. We had some good talks
>>with CAP folk some time back on this matter but not recently. Our TNC code
>>does not support the format translation you need however. I'd consider
>>adding that if 100 people could make use of it, but since it would be a lot
>>of work it is hard to justify for limited use.
>
>I could use the ARNAV format now but, as I pointed out, the ARNAV data
>string is over 400 bytes long. With a high antenna this would add
>significant QRM that I don't want to.
>
>As far 100 people involved, anyone else on the SIG have any interest?
>

I have a source of >>cheap<<<aircraft gps units which are great except the
strong is ARNAV.. If you look at the strig with a normal term program, you
will see all the needed info is in 4 strings marked A,B,C,D...the problem
seems to be there is no CR/LF to delineate the line...

If this problem could be solved, we can use all these cheapee Magellen Gps
units..

add me to the list of 100... 1 for the car and 1 for the plane..

Carl Tayor W9ZGU   ex KA4OPZ
carlt@icanect.net
--
Internet Communications of America, Inc.

38. SHIRTS

From: kd4emi@juno.com (Michael A. Kantor)
Date: Fri, 01 Nov 1996 19:25:46 EST
To: aprssig@tapr.org
Message-ID: <19961101.202802.5375.2.KD4EMI@juno.com>
Rendered body type: text/plain

Now that I got all the shirts done today..
Here are the stats

total orders 141 shirts
XL and larger 139
Smaller than XL 2

All shirts are in the mail..Enjoy and sorry for the delay..
Mike

39. Re: [APRSSIG:6058] Re:

From: Tom Clarke <fclarke@erols.com>
Date: Fri, 01 Nov 1996 21:30:58 -0800
To: aprssig@tapr.org
Message-ID: <327ADC92.3F59@erols.com>
Rendered body type: text/plain

Bob Sayers wrote:
>
> >politically correct unit of measurement is now MicroPascals !! Blah!
> >Next thing you know our altimeters will read in Meters!!
>
> ... or even Metres!
>
> :-)   Bob, G8IYKYep! You got me on that one, Bob!
73 de Tom, W4OKW

40. Re: [APRSSIG:6068] Future releases of WinAPRS

From: rbost@itexas.net (Roy Bost)
Date: Fri, 1 Nov 1996 19:52:23 -0600
To: <aprssig@tapr.org>
Message-ID: <19961102015214960.AAA103@rbost.itexas.net>
Rendered body type: text/plain

how about being able to selectively delete messages and stations from their
respective lists?

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

41. Re: [APRSSIG:6058] Re:

From: Dave Creek <dcreek@pixi.com>
Date: Fri, 1 Nov 1996 15:58:39 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.95.961101155646.7479A-100000@rodan29.pixi.com>
Rendered body type: text/plain

On Fri, 1 Nov 1996, Bob Sayers wrote:

> >politically correct unit of measurement is now MicroPascals !! Blah!
> >Next thing you know our altimeters will read in Meters!!
>

```
>
>  ... or even Metres!

I'm waiting for an IAS instrument in Furlongs per Fortnight

Dave, NH6BA
dcreek@pixi.com
```

---

42. Status of TAC GPS kit?

From: Jeremy Bishop <jeremyb@canb.auug.org.au>
Date: Sat, 2 Nov 1996 13:16:59 +1100 (EST)
To: aprssig@tapr.org
Message-ID: <199611020216.NAA06579@pcug.org.au>
Rendered body type: text/plain

```
Hi,

Can anyone give me an update on progress of the TAC kit that TAPR is
producing for interfacing with the Motorola Oncore and Garmin GPS-20
OEM GPS receivers? Any timeframe as to when it will be released and
approximate cost would be appreciated.

Regards,
Jeremy

--
Jeremy Bishop
jeremyb@canb.auug.org.au
Australian Unix User Group (AUUG) Canberra Chapter
```

---

43. WinAPRS

From: rbost@itexas.net (Roy Bost)
Date: Fri, 1 Nov 1996 21:11:41 -0600
To: "APRS SIG" <aprssig@tapr.org>
Message-ID: <19961102031132972.AAA156@rbost.itexas.net>
Rendered body type: text/plain

```
In the WinAPRS settings window, what do the "Track Delta" and "Alarm Delta"
settings do? What effect will changing the settings have? The values are in
seconds....are these seconds of time or position?  Thanks.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

---

44. Re: [APRSSIG:6052] Re:

From: dougwe@ccintnet.wrq.com
Date: Thu, 31 Oct 96 15:15:16 PST
To: aprssig@tapr.org
Message-ID: <9609318468.AA846803894@ccintnet.wrq.com>
Rendered body type: text/plain

```
Thanks to everyone who answered my in/mb conversion question.  I shall
     never again forget that 1" = 33.865 mb! (No more repsonses are
     necessary - thanks!)

     ;-)

     Doug
     KC7CO
```

---

45. Re: Attn: TNC Mfgs

From: n4ldg@juno.com (Louis A Cruz)
Date: Fri, 1 Nov 1996 21:19:54 PST
To: aprssig@tapr.org
Message-ID: <19961101.212552.9286.0.N4LDG@juno.com>
Rendered body type: text/plain

```
Hey Dave, what GPS do you have in your Mojave.  I use Garmin-100's to
feed data into a PicoPacket, a KCP-3 and a HandyPacket.  The GPS comes
set to send ARNAV data, but it could be changed in the configuration.

Let me know if I can help out.  I have three Cessna 337 Skymasters setup
with APRS, and a 320.

73 - Louis, N4LDG
```

46. RE: Track Delta and Alarm Delta in WinAPRS

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 1 Nov 96 22:57:52 EST
To: aprssig@tapr.org, rbost@itexas.net
Message-ID: <CMM-RU.1.5.846907072.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
>In the WinAPRS settings window, what do the "Track Delta" and "Alarm Delta"
>settings do? What effect will changing the settings have? The values are in
>seconds....are these seconds of time or position?  Thanks.


If you set a station to be TRACKED, it does not save data UNLESS the object
moves N seconds. This is to make it so that a car with a GPS setting in a
parking lot 'stationary' does not continously chew up memory since the GPS
error will have it wonder a few hundred feet..

The ALARM delta is a similar deal, that if the station moves MORE than N
seconds, it will alarm. (Alarm not activated in the Windows version quite
yet)

Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

47. Band Pass filters????

From: William Lefler <wo0e@sky.net>
Date: Fri, 1 Nov 1996 22:37:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611020437.WAA27365@sky.net>
Rendered body type: text/plain

```
Recently there was some discussion here about a certain manufacture's band
pass filters
for 144-148 Mhz. I thought I kept a copy of at least one of those messages,
but it
appears to have met some mishap. I no longer have the brand name.
        So, here is a question. What are you folks using to reduce out of band
interference on two meters? I would like to hear some opinions and/or
options from those using. I would even like FOF stories, as I am in the
beginning stages of investigation.
TIA es BCNU "Lef" (Bill Lefler/WO0E - KCAPRSWG)
```

---

48. Don't read if you're not in HOUSTON TX

From: aprs@juno.com (ap rs)
Date: Sat, 02 Nov 1996 02:05:03 EST
To: aprssig@tapr.org
Message-ID: <19961101.164828.8606.3.aprs@juno.com>
Rendered body type: text/plain

```
I'm in Houston until wednesday. Anyone in this area want to get together?

ralph n4neq
rwf@mindspring.com
```

---

49. Re: [APRSSIG:6104] Band Pass filters????

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sat, 02 Nov 1996 05:59:25 -0600
To: aprssig@tapr.org
Message-ID: <327B379D.3CC2@web-access.net>
Rendered body type: text/plain

```
William Lefler wrote:
>
> Recently there was some discussion here about a certain manufacture's band pass filters
> for 144-148 Mhz. I thought I kept a copy of at least one of those messages,
> but it
> appears to have met some mishap. I no longer have the brand name.
>         So, here is a question. What are you folks using to reduce out of band
> interference on two meters? I would like to hear some opinions and/or
> options from those using. I would even like FOF stories, as I am in the
> beginning stages of investigation.
> TIA es BCNU "Lef" (Bill Lefler/WO0E - KCAPRSWG)

I beleive the following is what you may have seen, Bill:
Hope this helps.
```

73 - Dale. KG5LT
dseaburg@web-access.net

```
 Subject: [APRSSIG:4707] Solution to Intermod Problem
    Date: Fri, 13 Sep 1996 18:29:23 -0500 (CDT)
    From: Mark Humphrey <mark@y100.com>
Reply-To: aprssig@tapr.org
      To: aprssig@tapr.org
```

I recall there was a thread going a few months ago about intermod problems, but haven't
heard much about this lately. I picked up a PAR Electronics model VHFDN152 2 meter
"Intermod Filter" last weekend at the FARfest in Gaithersburg, and want to report it
fixed my intermod problem, especially on the 145.79 APRS frequency.

My mobile rig is a Kenwood TM-733, which I chose due to dashboard space constraints.
Although I'm generally happy with its features, the intermod rejection on 2 meters is
poor. The "AIP" feature (which reduces the gain of the first RF stage) doesn't make
much improvement.

I use this rig frequently for mobile APRS, however I've had severe paging interference
on 145.79 (although many other amateur 2m frequencies were clean). Within a couple
miles of most of the local commercial tower sites, the interference was so bad it would
hold the DCD for several minutes and prevent my position packets from being sent.
Further investigation explained why 145.79 was being hit so hard...

Two of the "RC Paging" frequencies assigned to Radio Common Carriers in the Philadelphia
metro (and most other cities) are 152.24 and 158.70. When these frequencies mix in a
receiver's front end, one of the third order intermod products is 145.78, just 10 kHz
down from the APRS channel.

(2 X 152.24) - 158.7 = 145.78

Note that the deviation on the lower frequency is doubled, since its second harmonic is
what actually mixes with the higher frequency to generate the product. Assuming 5 kHz
peak deviation from each paging transmitter, the effective deviation of the product is
15 kHz, which easily spills over to 145.79. The "overdeviation" causes the modulation
of the product to sound distorted and obnoxious, not to mention that paging signals are
square waves to begin with.

According to the curves, the PAR filter provides a deep notch (nearly -55 dB) at 152.4
and appears to exceed 35 dB attenuation from 152.0 to 153.0 MHz.   That easily takes out
the lower paging frequency and eliminates the intermod. Below the notch at 145.79, the
insertion loss is less than 0.3 dB, and even at the "worst-case" amateur frequency,
148.0, a loss of only 0.6 dB is claimed, which is comparable to most bandpass filters.
The loss above the notch frequency is greater, about 4 dB at 160 MHz, but that still
lets me listen to NOAA WX, the Broadcast RPU channels, etc. Loss across the 440-450
band is about 0.2 dB, and it will handle 50 watts without melting down.

So if you're having paging intermod problems on 145.79, you might want to consider one
of these. I was skeptical until I tried it. The manufacturer is PAR

```
Electronics, 6869
Bayshore Drive, Lantana FL 33462.

        73, Mark Humphrey N2CHV
            WPLY-FM Philadelphia
```

50. Re: [APRSSIG:6104] Band Pass filters????

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sat, 02 Nov 1996 07:58:16 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961102135816.00a8a7dc@tbcnet.com>
Rendered body type: text/plain

```
Here's what they found several months ago when the bandpass filter I have
was checked out:

>
>
>I just got my DCI 146-4H bandpass filter back from the shop.  I wanted to
>have it swept to find out how good this $89 marvel was.
>
>Here's what the technician said:
>
>-3dB (half power) points:  Low 143.49, High 148.44
>Insertion Loss:  Negligible
>Ripple:  less than 3dB over passband

AES sells it.

jbl


At 22:39 11/1/96 -0600, you wrote:
>Recently there was some discussion here about a certain manufacture's band
>pass filters
>for 144-148 Mhz. I thought I kept a copy of at least one of those messages,
>but it
>appears to have met some mishap. I no longer have the brand name.
>        So, here is a question. What are you folks using to reduce out of band
>interference on two meters? I would like to hear some opinions and/or
>options from those using. I would even like FOF stories, as I am in the
>beginning stages of investigation.
>TIA es BCNU "Lef" (Bill Lefler/WO0E - KCAPRSWG)
>
>
-------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

51. Re: [APRSSIG:6097] Re: Future releases of WinAPRS

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Sat, 02 Nov 1996 15:43:17 +0000
To: aprssig@tapr.org
Message-ID: <327B6C15.1599@netins.net>
Rendered body type: text/plain

```
Roy Bost wrote:
>
> how about being able to selectively delete messages and stations from their
> respective lists?
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W

That capability is available now in MacAPRS so I imagine it is
either already in WinAPRS or soon will be.
--
Bill Hays  - w0omv email:billh@netins.net
```

52. KPC-3 Help

From: huey@juno.com (Huey M Fourquet)
Date: Sat, 2 Nov 1996 14:55:00 PST
To: aprssig@tapr.org
Message-ID: <19961102.145502.3494.0.huey@juno.com>
Rendered body type: text/plain

I have a KPC-3 with Ver 6 firmware. It intermittently locks up in the transmit mode. I'm using it with a Yaesu FT209 2M HT (5 Watts) and a mobile antenna. The cable connecting the TNC to the HT has worked well with a KAM and the HT for many years. I've also used the same cable with a KPC-4 with no problems. The KPC-3 locks up in transmit and will not go back to receive mode until after power is cycled off and back on. The position of the "ht" jupper in the KPC3 has no effect on the problem.

What do ya think?

Huey
kb1rh

---

53. APRS on Band Trip!!!

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 2 Nov 1996 12:20:16 -0800
To: aprssig@tapr.org
Cc: kcaprs@kcaprs.org
Message-ID: <199611022020.MAA15895@m1.sprynet.com>
Rendered body type: text/plain

Greetings, all! As many of you know I support all of this APRS and Ham Radio hobby by playing (it's not really work!) high school band director in Burlington Junction, Mo. (West Nodaway R-I).

The Rocket Pride Band will be traveling to Indianapolis, Indiana, next Saturday and Sunday (11/9 & 10) to attend Bands of America's Grand National Championship Finals (we're just audience members for now...).

The kids have all seen the radio/GPS/Computer/APRS setup in what has been nicknamed, affectionately, "The Batmobile" and asked if I was going to set up the computer on the bus. "Of course!", I replied, "you didn't think I could go anywhere without my laptop, did ya?"

To that end, watch for "WNHS_Band" on your screens starting 0600 CST, 11/9! Our route is, as follows:

```
        US 71 to St. Joseph, MO
        US 36/I-72 to Springfield, IL
        I-72 (I think!) to Indianapolis, IN (arriving +/- 1800 CST, depart
midnight)
        I-70 to St. Louis, MO (stopping at Gateway Arch and Union Station)
        I-70 to Kansas City, MO
        I-29 to St. Joseph, MO
        US 71 to Burlington Jct., MO (arriving +/- 1700 Sunday)
```

Karla is staying home (can't imagine why she wouldn't want to spend 36 fun-filled hours with 40 teenagers and their parents!) so we'd like her to be able to track us as much as possible! If you have HF gateway capability, please activate your GATE along our route for the weekend...(for which we thank you, in advance!)

We're looking forward to meeting any of the APRS people in Indianapolis and to any others out there who may be band parents, etc. traveling to this event! I know of at LEAST one on the SIG already (Marion Catholic HS out of Chicago, talk to me!!!)...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

54. hf

From: Tom Carpenter <wb8vji@tir.com>
Date: Sat, 02 Nov 1996 15:43:09 +0500
To: aprssig <aprssig@tapr.org>
Message-ID: <327B25BD.72BD@tir.com>
Rendered body type: text/plain

I am just getting started on hf use and am not sure if I am making it out on the air. I do not see my packets relayed and not sure if I should see them. But then I am not sure if I am setting my deviation right either. How do I know if I have the deviation set right?

I see alot of other stations on freq. but if I send a msg i never get an ack from them.

Tom Carpenter wb8vji@tir.com

55. Re: [APRSSIG:6110] APRS on Band Trip!!!

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sat, 2 Nov 1996 14:58:27 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961102145829.09179260@mailhost.primenet.com>
Rendered body type: text/plain

```
At 02:24 PM 11/2/96 -0600, Jim Duncan wrote:

>Greetings, all!  As many of you know I support all of this APRS and Ham
>Radio hobby by playing (it's not really work!) high school band director in
>Burlington Junction, Mo. (West Nodaway R-I).

  I wish my band director in high school held that opinion.

>Karla is staying home (can't imagine why she wouldn't want to spend 36
>fun-filled hours with 40 teenagers and their parents!) so we'd like her to
>be able to track us as much as possible!  If you have HF gateway capability,
>please activate your GATE along our route for the weekend...(for which we
>thank you, in advance!)

Just 40 band members?  That's not too many to handle.  When I was in High
School I had to wrangle 24 squads of istrumentalists (96 students), plus
flag corps, and majorettes.  Now that was a challenge.  Of course, band
parents are a bigger pain than the students.  But it was fun.  I really
enjoyed it.  I recommend any parents out there with young children to get
them into a school music program.  It really is a pleasant diversion and a

lot of fun for the kids.  Students in my marching band introduced me to ham
radio.  :)

73, and have fun at the Nationals.

Wish I could attend.

Mark - KC7BXS
Former Drum Major, Perrysburg Marching Commodores
```

56. PHG prefix clarification

From: Richard Parry <rparry@qualcomm.com>
Date: Sat, 2 Nov 1996 14:32:03 -0800
To: aprssig@tapr.org
Message-ID: <v03007800aea17a765352@[129.46.92.34]>
Rendered body type: text/plain

```
I need clarification on the correct format for a BEACON string.  In
looking at on the air APRS BEACONS I found the following 4 categories ...

           #PHG
           yPHG
           HPHG
           -PHG

   I have studied the documentation for the APRS protocol which is very
good, but could not find the differences in the above, although I did find
the first one which is a # that indicates a DIGIPEATER, I could not find
the significance of the other three ( y  H  -).  BTW, I know what PHG is.

   I am not saying it is not there somewhere in the documentaion, merely
that I could not find it.

   Bottom line, what is prefix before the PHG mean?  Are there more than 4?
     1)    y
     2)    H
     3)    -


TIA


---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link Software Engineer
Internal Web --> <http://qcwww/~rparry/>
External Web --> <http://www.qualcomm.com/~rparry>
---------------
```

57. Re: [APRSSIG:6095] SHIRTS

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 2 Nov 96 18:12:45 -0500
To: <aprssig@tapr.org>
Message-ID: <199611022308.SAA29237@bridge.net>
Rendered body type: text/plain

```
>XL and larger 139
>Smaller than XL 2
Who says Hams are fat????

Steve KO4HD
```

---

58. TAPR APRS SIG

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Sat, 02 Nov 1996 16:24:12 -0800
To: aprssig@tapr.org
Message-ID: <327BE62C.63B4@ix.netcom.com>
Rendered body type: text/plain

```
KB6LFM is QRT on the APRS SIG.
```

---

59. Re: [APRSSIG:5884] 6M Frequency Proposal

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 2 Nov 1996 20:29:06 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611022004.B27953-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Hi Rich,
My IC706 is out of the car for a while so I will put it on 51.68 FM and
aim my antenna North.  I will have to go adjust the SWR a bit before I do
that but should have it ready tomorrow (Sunday).  I will take down the HF
rig during this time.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us
```

---

60. Re: [APRSSIG:6104] Band Pass filters????

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 02 Nov 1996 21:00:47
To: aprssig@tapr.org
Message-ID: <199611030200.VAA05385@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi Lef,

On Fri, 1 Nov 1996 you asked about:

>Band Pass filters????
>
>What are you folks using to reduce out of band interference on
>two meters?

     Although they aren't the products discussed on the SIG a
few weeks ago, I've been EXTREMELY pleased with the filters by
Digital Communications, Inc.  They make relatively small multi-
bay cavity filters for two meters, one and a quarter meters and
seventy centimeters (either 430-440 or 440-450) and they work
GREAT!  They will also custom-tune a set for any band you want
by special order.  The seventy centimeter unit has N connectors
and the other two use SO-239's.

     How do I know how well they work?  Half a mile (as a crow
flies) stand the two tallest (and ugliest!) buildings in The
Bronx.  There are about forty-seven grillion high-power pager
repeaters on the thing and from my antennas I can see them vis-
ually.  No intervening foliage, buildings, anything.  Without
the filters listening becomes annoying, disappointing, madden-
ing, distracting, impossible, headache-producing (take your
choice of adjectives or select your own!)  Plug one of these
babies inline and ... silence.  No beeps.  No screeches. Just
everything that's supposed to be there and nothing more!

     As I have dual-band antennas and internal duplexers on my
rigs, I bought two 2M/70CM external duplexers to split and re-
combine the signals on either side of the filters.
```

```
     These suckers aren't particularly cheap.  The 144 and 220
versions are about $90 each, the 440 one is $110.  But they've
got less than .5 db insertion loss, do well what they were de-
signed to do and have very pretty polished brass faceplates to
boot.

     Their address is:

          Digital Communications, Inc.
          Post Office Box 293
          29 Hummingbird Bay
          White City, Saskatchewan
          S0G 5B0 Canada

(to our friends in the north, forgive me if I misspelled the
name of your lovely province, but have you tried to spell the
name of the state we abbreviate as CT lately?!)

     They used to advertize in QST, but I don't remember seeing
them lately.  There's also available (on order) from your local
Ham Radio dealer.  After having dealt with numerous VHF QSO
Contests without these jewels and getting splitting headaches
from the garbage from paging services, I can tell you these are
a g-dsend!  I recommend them without hesitation.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

---

61. Re: [APRSSIG:6113] PHG prefix clarification

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sat, 2 Nov 1996 20:49:40 -0600
To: aprssig@tapr.org
Message-ID: <19961103024939348.AAA148@dial-40.bonifay.fl.digitalexp.com>
Rendered body type: text/plain

```
>   I need clarification on the correct format for a BEACON string.  In
>looking at on the air APRS BEACONS I found the following 4 categories ...
>
>           #PHG
>           yPHG
>           HPHG
>           -PHG
>

Hi Richard;

That is the character which determines what symbol shows up on the map, for
that station. Check out symbols.txt

regards,
Joe kf4dys
```

---

62. Re: [APRSSIG:6111] hf

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 2 Nov 1996 22:00:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961102215424.3886B-100000@arctic>
Rendered body type: text/plain

```
On Sat, 2 Nov 1996, Tom Carpenter wrote:

> I am just getting started on hf use and am not sure if I am making it
> out on the air.  I do not see my packets relayed and not sure if I
> should see them.
*** CORRECT, you should not..  You should not digipeat on HF

> But then I am not sure if I am setting my deviation
> right either.  How do I know if I have the deviation set right?

*** Better go back to study your radio basics.  You should not be
"diviating" (transmitting FM)  on HF or you are violating the rules...
Unless you are talking about FSK, of course.  If you are talking about
AFSK via an SSB transmnitter, then back off on the xmt audio level until
you see your xmtr power go down.  then try it there...
```

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

63. Re: [APRSSIG:6109] KPC-3 Help

From: rwf <rwf@atl.mindspring.com>
Date: Sat, 02 Nov 1996 13:27:31 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961102131026.0069da50@atl.mindspring.com>
Rendered body type: text/plain

```
Huey-  Here are 2 things:

Were you in stand alone tracker mode by chance?  If so, we found out that
you need to set CMSG to disconnect so that your TNC will not start
streaming GPS data if someone connects to its call sign. This has happened
during several events, trashing the frequency for several minutes

Several KPC-3's I used this summer as trackers locked into transmit for no
reason I could see.  They started sending data of some sort, but it was not
copyable.  I had to recycle power to get them to stop!

Some folks think it is when the internal battery gets low, but on the ones
I used during the Summer I changed the battery every day

On a tracker I made using an Icom 02AT, the radio would go into transmit
mode if the TNC was turned off while the radio was still left on.


ralph n4neq
rwf@mindspring.com




At 02:03 PM 11/2/96 -0600, Huey wrote:
>I have a KPC-3 with Ver 6 firmware.  It intermittently locks up in the
>transmit mode.
```

---

64. Re: [APRSSIG:6113] PHG prefix clarification

From: rwf <rwf@atl.mindspring.com>
Date: Sat, 02 Nov 1996 13:27:34 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961102132252.00687cfc@atl.mindspring.com>
Rendered body type: text/plain

```
Richard Parry wrote:
>   Bottom line, what is prefix before the PHG mean?  Are there more than 4?
>     1)    y
>     2)    H
>     3)    -
>
>

As explained in the README files of Dos APRS.  The file called symbols.txt
shows H to be a lettered circle (if it were h, it would be a Hospital) , y
to be a Yagi QTH   and  -  to be a QTH.







>TIA
>
>
>---------------
>Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
>Globalstar/Gateway Reverse Link Software Engineer
>Internal Web --> <http://qcwww/~rparry/>
>External Web --> <http://www.qualcomm.com/~rparry>
>---------------
>
>
>
```

65. RICK/KN6KB-5 S/V SECOND WIND

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 2 Nov 1996 19:43:13 -0800
To: aprssig@tapr.org
Cc: wb4gqk@amsat.org
Message-ID: <199611030343.TAA18605@poseidon.coastside.net>
Rendered body type: text/plain

Attn APRS HF users, & Florida APRS'ers...

Rick/KN6KB-5 on S/V Second Wind, departed San Diago Oct. 28th
participating in the Baja Ha Ha race to Cabo San Lucas, Baja, Ca.
Sat. 11/2 departed Turtle Bay Baja, 2714.95N/11442.79W Crs 159/Spd
006 bound Magdalena Bay. Had QSO on HF 10151.03/LSB APRS @022130GMT
and skeds daily at that time. Cannot run GPS tracks continuously, HF
gets into autopilot, so 30M beacon position transmission couple times
a day.. Then would like Pactor QSO on 20M.
Any APRS HF station hearing him please uplink position on APRS maps
and QSO by APRS one liner messages if possible. Also uplink his positions
for HST tracking files.
He will continue down coast of Central America to Zihuatanejo, fly
home for Xmas in Melbourne, FL. Then resume trip through P-Canal and home
to Melbourne.
Would like to do Pactor to send traffic to his wife Marcia
(mmuething@juno.com). Any Florida station who runs Pactor BBS please
advise call and frequencies for PACTOR QSO's.. Anyone who can advise
frequencies used by W4DPH in Tampa area, please advise any info. Have
sent packet landline messages, but receive no replies or answers, from
W4DPH. Rick is aware of 40M MM voice nets and times by Jim/WB4GQK but
needs a PACTOR BBS station in Florida or South East US.
Again anyone copying KN6KB-5 or can help with communications or
Pactor QSO's, would be greatly appreciated. We are also trying to get
a complete APRS HST file of his voyage, would make a good Demo for
APRS demonstrations.
73's & Enjoy, Bill/WB6LPG@KE6WVQ.#NOCAL.CA.USA. and bbliss@juno.com

NNNN

WBB/WB6LPG

---

66. Re: [APRSSIG:5915] Re: 10 Meter Freq. ?

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 2 Nov 1996 22:49:08 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611022241.A13513-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Sorry for the late reply but I was away for a week. We can operate 1200
bps on 10 meters but it is usually sideband. Hard to have a net on SSB
packet at 1200 bps.
73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 28 Oct 1996, Bob Bruninga wrote:

> On Mon, 28 Oct 1996 kr4ol@juno.com wrote:
>
> >   Anybody know of, or currently using 10 Meters for APRS? If so,
> > What freq.? If not, is there a reason why we shouldn't use 10 meters for
> > APRS activity?.......Just asking........73! de Tom, KR4OL
>
> APRSdos REPLY/COMMENT: For reliable reporting of moving position reports
> back to home base, 10 meters is useless. BUT it would be a great band for
> DX where APRS QUICKLY plots band openings! I dont remember, but cant we
> operate at 1200 baud there?
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>

---

67. Re: [APRSSIG:6091] GPS-20

From: clark@tomcat.gsfc.nasa.gov
Date: Sun, 03 Nov 96 05:25:52 UTC

To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2965@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

The easiest/fastest source for MCX xconnectors is DigiKey. You can contact them at 1-800-DIGIKEY or at http://www.digikey.com

I recommend the J-536 connector listed for RG316. It fits RG174 fine. The right-angle connectors are much easier to install and there is no need to pay for the gold finish. Digikey's 1-9 price is $5.23, dropping to $4.59 at qyty=10. If you have therir July/August 96 catalog # 964, they are shown on page 73.

73, Tom

68. Re: [APRSSIG:6099] Status of TAC GPS kit?

From: clark@tomcat.gsfc.nasa.gov
Date: Sun, 03 Nov 96 05:53:27 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2976@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Jeremy asked about the TAC project. It is getting close to an announcement. We do plan to say something next weekend at the AMSAT meeting in Tucson. We did an "alpha" run of my TAC-2 PCB which sorted out some minor problems but which was 99% success. I have one running here right now with my SHOWTIME software on the same computer as I'm using to type this reply. In that "test" we decided to change the mechanical mounting for the GPS rcvrs and to incorporate support for the Trimble SK-8 also. We also made some minor layout changes to accommodate an alternate switching power supply. Within the last hour I shipped off copies of the drawings to the small TAC design team for their review of the latest design changes.

We plan that some of the TAPR TAC team will meet in Tucson as a "splinter" meeting during the AMSAT meeting to plot the next steps. Given that we are all volunteers, it is unlikely that the kit will be announced in 1996, but I hope for an early 1997 date.

We have also begun discussion on the next step in the project, adding another PCB that will stabilize a low-cost xtal oscillator to be a ~1:10e9 to 1:10e10 frequency standard, but work on that won't begin until we get the basic TAC-2 "on the road".

These comments are purely my own, and do not reflect an official TAPR position! I am not in a position to commit TAPR to a particular schedule. I'm just doing the design.

For those of you who don't know about the TAC project -- we have demonstrated that several off-the-shelf OEM GPS rcvrs can produce sub-microsecond timing -- including the Garmin GPS-20 TAPR has made available to the amateur community. One brand of receiver (the Motorola ONCORE) produces timing at the ~30 nsec level! This development has been of a lot of interest to several professional communities and I've produced about 50 of my original "Totally Accurate Clocks" for them already. A number of amateurs are also interested in having such quality available in the shack for a number of new things. KA9Q & I presented a paper last summer that proposed an innovative signal processing scheme that can "buy" ~20 dB in weak signal work, bringing EME capability to Oscar-class stations. We see several interesting spread-spectrum applications on the horizon, including a new scheme for spacecraft ranging.

In addition to the "clock" function, the TAC circuit board will be a universal and very flexible way of mounting your GPS receiver and interfacing it to your computer. The TAC-2 has one mounting option that makes it mount in a disk drive bay in your PC.

For those of you interested in learning more about the TAC project, take a look at the material posted on my ftp server at:

ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/

So, Jeremy -- be patient. We are working on it actively, and we will make a big "splash" when it is ready Real! Soon! Now!

73 de Tom, W3IWI

69. Re: [APRSSIG:6121] Re: PHG prefix clarification

From: BordingK@aol.com
Date: Sun, 3 Nov 1996 08:49:32 -0500
To: aprssig@tapr.org
Message-ID: <961103084931_221883271@emout04.mail.aol.com>
Rendered body type: text/plain

Aren't we really talking about the Power, Height, Gain codes that both WinDOS
and APRSDOS ask for in the station set-up!

de KF4COH
Ken in Jax

---

70. Re: [APRSSIG:6119] Re: hf

From: Tom Carpenter <wb8vji@tir.com>
Date: Sun, 03 Nov 1996 12:05:30 +0500
To: aprssig@tapr.org
Message-ID: <327C443A.2C6C@tir.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Sat, 2 Nov 1996, Tom Carpenter wrote:
>
> > I am just getting started on hf use and am not sure if I am making it
> > out on the air.  I do not see my packets relayed and not sure if I
> > should see them.
> *** CORRECT, you should not..  You should not digipeat on HF
>
> > But then I am not sure if I am setting my deviation
> > right either.  How do I know if I have the deviation set right?
>
> *** Better go back to study your radio basics.  You should not be
> "diviating" (transmitting FM)  on HF or you are violating the rules...
> Unless you are talking about FSK, of course.  If you are talking about
> AFSK via an SSB transmnitter, then back off on the xmt audio level until
> you see your xmtr power go down.  then try it there...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
Your right Bob,
```

I should not have said deviation (may just a deviat mind ha ha) or
feeble That is the way I have been setting it up. I turn down the power
crank up the mike gain until I get no more increase in power and then
set it back a bit and then set my power.

I run a weather station out of Mi. and when it is on hf I set my unproto
to gate wide. Is that OK?

73 Tom Carpenter

wb8vji@tir.com

---

71. Re: [APRSSIG:6126] Re: PHG prefix clarification

From: rwf <rwf@atl.mindspring.com>
Date: Sun, 03 Nov 1996 02:54:46 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961103024932.006d7660@atl.mindspring.com>
Rendered body type: text/plain

No. We are speaking of the symbol that is one character before the PHG
begins. This is the symbol that determines which icon is displayed on APRS
(all variants) screens. It is asked for in setup, but not in relation to
the PHG. It has nothing to do with PHG.

ralph n4neq
rwf@mindspring.com

Ken wrote:
>Aren't we really talking about the Power, Height, Gain codes that both
WinDOS and APRSDOS ask for in the station set-up!

---

72. AEA PK-12 powerup problems

From: fhickey@neosoft.com (Anthony Hickey)
Date: Sun, 3 Nov 1996 12:56:24 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611031856.MAA09692@mailbox.neosoft.com>
Rendered body type: text/plain

I reset my AEA PK-12 with the reset command inside the aprs terminal window.
something went wrong and I can't figure out what. When I turn it on 4 of
the LEDs light up and and I get garbage on the terminal in all the baud
rates that I tried. The problem is that this does not looks like the
autobaud routine. There is one string of garbage sent out and nothing else.
If this is the signon with different comm settings then the the 4 LEDs
should go off. If it is the autobaud routine then the TNC would be cycling
through the different baud rates. So can someone please tell me what's
going on or if there is a way to do a hard reset with jumpers or something
like in the KPC-3 ??

Thanks, Anthony AB5QR

---

73. Re: [APRSSIG:6129] AEA PK-12 powerup problems

From: "David W. McNeil" <ki5vm@flash.net>
Date: Sun, 03 Nov 1996 15:00:54 -0600
To: aprssig@tapr.org
Message-ID: <327D0806.1C09@flash.net>
Rendered body type: text/plain

Anthony Hickey wrote:
>
> I reset my AEA PK-12 with the reset command inside the aprs terminal window.
> something went wrong and I can't figure out what.

Anthony:
Here's the proceedure that works for me.
1. Disconnect power and cables from the tnc.
2. Momentarily short across the backup battery.-Approx. 1-2 secs.
(small needle-nosed pliers or tweezers will work fine.)
3.Reconnect the power and serial cables.
4.Turn Power back on.
Now to your computer:
1. Change to your pplite directory.(Program that came with PK-12)
2. Delete the PPLTDEF_.CFG file.
3. Delete the PPLTDEF_.DEF file.
4. Start PPLITE.EXE and let the program initialze the tnc.
5. When program comes up, change to the dumb terminal screen.
6. Set up the GPS operation commands as per page 85 of the PK-12 manual.

```
    ie:
        type MY <your call sign>-9  enter.
        type UN APRS via RELAY      enter.
        type GLOC 6 (or a number from 0(disabled) to 255 (10 second
increments)  enter.
        type GNMEA1 $GPRMC (or whatever NMEA sentence you use.) enter.
        type GPSA ON  enter.
        type TBAUD 4800 (to match PK-12 terminal baud rate to GPS
reciever.)    enter.
        NOW TURN THE TNC POWER SWITCH OFF.
```

6. Exit the pplite program. (it will show an error because the tnc
has   been turned off.)

Now turn the tnc back on and start APRS you should be back on line.

de Dave KI5VM

---

74. Re: [APRSSIG:6120] Re: KPC-3 Help

From: Paul Christenson <paul@tech.cyclades.com>
Date: Sun, 3 Nov 1996 13:29:40 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961103132509.20424B-100000@tech.cyclades.com>
Rendered body type: text/plain

On Sat, 2 Nov 1996, rwf wrote:

> Several KPC-3's I used this summer as trackers locked into transmit for no
> reason I could see. They started sending data of some sort, but it was not
> copyable. I had to recycle power to get them to stop!

Kantronics has had a history of their TNCs locking up in transmit mode.
The reason for this is to save a few cents for the onboard watchdog timer
that most (if not all) of the other TNCs use. With a watchdog timer, not
even a CPU failure would cause the TNC to lock in transmit, much less a
firmware crash.

I thought they learned their lesson the first time. I guess not.

de N3EOP/6

        +--+

```
| Technical Support Engineer, Cyclades Corporation   |
| 800/88-CYCLADES (882-9252) or (510)770-9727, x258  |
| High Performance Multiport Serial Cards & Routers  |
| Unsolicited mail ads subject to a $25 handling fee |
+----------------------------------------------------+
```

---

75. Mobile GPS Plots

From: mark.endicott@nashville.com
Date: Sun, 3 Nov 96 17:38:14
To: aprssig@tapr.org
Message-ID: <199611032342.RAA00824@tapr.org>
Rendered body type: text/plain

Bob (WB4APR)

```
          I have been playing with the GPS Plots screen and think
     that it a really "neat" feature.  Now for the, "wouldn't it
     be nice if".

          Since I am running a GPS-31 I have no display to look
     at. How about parsing the $GPGSV of a PREVIOUSLY DEFINED
     MOBILE CALL SIGN and routing the data to the Plots Screen?
     Maybe, it could be one of the options when stations are
     hooked.  I could then send both the RMC and GSV strings and
     check status of the birds at a remote location.

                                   Thanks...Mark WB0NOO




    If Found, Please Return To:
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

---

76. f8

From: scott miller <scottm@telis.org>
Date: Sun, 03 Nov 1996 18:20:25 -0700
To: aprssig <aprssig@tapr.org>
Cc: .@telis.org
Message-ID: <327D44D9.61CE@telis.org>
Rendered body type: text/plain

I've been unable to get f8 instant HSP\GPS fix to work in ver. 7.7d
I run a Pico. Also the ELOc comand dose not seem to work right.
Has anyone else noticed this?
Scott Miller KE6RKE in Tahoe City,Ca.

---

77. Re: [APRSSIG:6132] Mobile GPS Plots

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Nov 1996 20:49:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961103204812.19779C-100000@arctic>
Rendered body type: text/plain

On Sun, 3 Nov 1996 mark.endicott@nashville.com wrote:

```
>           at. How about parsing the $GPGSV of a PREVIOUSLY DEFINED
>           MOBILE CALL SIGN and routing the data to the Plots Screen?
```

APRSdos REPLY/COMMENT: I would bet that if you set GPS-PLOTS on and
someone sends a GPGSV sentence over the air, that it will plot it. Try it
and let me know...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

78. Re: [APRSSIG:5970] Re: Map data from remote U2000

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Nov 1996 21:22:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961103211857.20334A-100000@arctic>

Rendered body type: text/plain

On Tue, 29 Oct 1996, Geoff Peacock said his remote U-II never plots WX
data. Here are his packets:

```
> >  WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> >  WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
> >  WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046
>
```

APRSdos REPLY/COMMENT: Is anyone else having problems with remote U-II's?
I have heard of no other complaints, but if I type in the packet just as
he has, then he is right, it doesnt plot. Is this his problem or mine?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

79. MAPFIX

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 3 Nov 1996 21:26:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961103212329.20334B-100000@arctic>
Rendered body type: text/plain

Someone sent me several suggested fixs for MAPFIX, but now when I sat down
to do it, I scaned all my EMAIL for the subject MAPFIX and nothing came
up. WOuld that person identify himself so I can scan for his name?
Currently I have 2100 mesages in my to-do list and I cant find it...

PEOPLE PLEASE PUT THE REAL SUBJECT IN YOUR SUBJECT LINES!!! Not just
the same subject you are REPLYING to...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

80. Newbie FAQ

From: "Paul W. Burke" <pwburke@imperium.net>
Date: Sun, 03 Nov 1996 21:51:45 -0500
To: aprssig@tapr.org
Message-ID: <327D5A41.35FB@imperium.net>
Rendered body type: text/plain

Does anyonte know of an informational FAQ for APRS.

I would like to know things such as hardware compatability, software
availability, maps, etc.

Thanks you for your help.

Paul W. Burke
KB8VAS

81. MIR SWITCH IN XMIT/RECEIVE FREQUENCIES

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Mon, 4 Nov 96 00:27 EST
To: aprssig@tapr.org
Message-ID: <m0vKHZL-000QdvC@nevets.oau.org>
Rendered body type: text/plain

Here is the latest on the MIR communications frequencies.

```
                         Geoffrey Dick
                         Winter Park, FL
                         wa4ikq@nevets.oau.org
==================================================================
From: John Rothert <digital.net!rothertj>
Subject: fwd: John Blaha Frequency Change
Date: Sun, 3 Nov 1996 21:55:53 -0800
X-BeyondMail-Priority: 1
Conversation-Id: <2.2.32.19961103172859.0067fcd0@freeway.net>
In-Reply-To: <2.2.32.19961103172859.0067fcd0@freeway.net>
Reply-To: John Rothert <ucf-cs!digital.net!rothertj>
```

Geoff

FYI
This may make a big difference. There may of been some confussion on the
uplinks/downlinks.

John

```
From: Craig Stewart <cstew@freeway.net>, on 11/3/96 13:28:
To: Amsat-Bb@amsat.org
Cc: cscott@onramp.freeway.net

To all I just got off from my contact With John (KC5TZQ) on Mir and his
comment to me was that I was on the wrong TX freq to him, he said that MIR
was Transmitting on 145.200 and Receiving on 145.800, so Earth Stations must
Receive on 145.200 and transmit on 145.800. There was some confusion in
earlier posting but this was from the John Himself.

73's and good luck
KB8KPV Craig Stewart
Northern Michigan
```

---

82. Re: [APRSSIG:6137] Newbie FAQ

From: Steve Boyle <sboyle@netcom.com>
Date: Sun, 03 Nov 1996 23:47:17 -0800
To: aprssig@tapr.org
Message-ID: <327D9F85.19F4@netcom.com>
Rendered body type: text/plain

```
Paul W. Burke wrote:
>
> Does anyonte know of an informational FAQ for APRS.
>
> I would like to know things such as hardware compatability, software
> availability, maps, etc.
>
> Thanks you for your help.
>
> Paul W. Burke
> KB8VAS

There is an excellent FAQ and General document collection by the Kansas
City APRS Working Group at:

 http://home.sprynet.com/sprynet/ku0g/homepage.htm

This should get you started.

Steve
KD6WXD
```

---

83. Re: KPC-3 watchdog timer

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Mon, 4 Nov 1996 01:04:30 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961104010431.091f6d08@mailhost.primenet.com>
Rendered body type: text/plain

```
At 03:32 PM 11/3/96 -0600, Paul Christenson wrote:

>Kantronics has had a history of their TNCs locking up in transmit mode.
>The reason for this is to save a few cents for the onboard watchdog timer
>that most (if not all) of the other TNCs use.  With a watchdog timer, not
>even a CPU failure would cause the TNC to lock in transmit, much less a
>firmware crash.
>
>I thought they learned their lesson the first time.  I guess not.
>

Hmmm...  All Kantronics TNC's have a watchdog timer, including the KPC-3.

I suspect that the problem with the KPC-3 locking up is an improper cable
set-up.  I had this problem with my HT and the instructions included with
the KPC-3.  It would work fine for a while, but then lock in TX.  Wiring it
as per Yaesu cleared up the problem.  I've also noted that voltage
transients can lock many TNC's in transmit as when you wire the TNC onto the
same power cable/supply as the transmitter.

Kantronics does not have a corner on this problem.  I've seen it in many
PK-80's and 88's.

Stray RF can also cause problems.  Use shielded cables and connectors.

And finally static electricity can play havoc on your electronics.
Something we're all to accustomed to here in the desert southwest.  Low
moisture content in the air and soil can really mess up this hobby.
```

Mark
KC7BXS

84. Re: [APRSSIG:6135] Re: Map data from remote U2000

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Mon, 4 Nov 1996 07:09:04 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961104070817.24827A-100000@ns1>
Rendered body type: text/plain

Thats a problem I have with an Ultimeter 2000 not an Ultimeter II

```
Geoff Peacock                                                        '''
Mobile Area Free-Net, Inc.                                          (o o)
______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                       (334) 405-4600
```

On Sun, 3 Nov 1996, Bob Bruninga wrote:

> On Tue, 29 Oct 1996, Geoff Peacock said his remote U-II never plots WX
> data. Here are his packets:
>
> > > WB4QEV-3>APRS,K4ZM-1:!3031.31N/08807.31W_
> > > WB4QEV-3>GPS:!!00590084030903B1----03D7--------012C04ED04070050
> > > WB4QEV-3>GPS:!!00460093030903B1----03D7--------012C04EE04070046
> >
> APRSdos REPLY/COMMENT: Is anyone else having problems with remote U-II's?
> I have heard of no other complaints, but if I type in the packet just as
> he has, then he is right, it doesnt plot. Is this his problem or mine?
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>

85. Re: MAPFIX Updates

From: jack swift <jswift@up.net>
Date: Mon, 04 Nov 1996 08:22:11 -0500
To: aprssig@tapr.org
Message-ID: <9611041320.AA09133@btc1>
Rendered body type: text/plain

i think it was me... you might have saved the file i attached (bob.zip, i
think). i thought i saved it and might have it somewhere, but i seem to
think i deleted it just the other day in a fit of housecleaning -- drat!.....

At 08:28 PM EST 11/3/96 -0600, you wrote:
>Someone sent me several suggested fixes for MAPFIX, but now when I sat down
>to do it, I scaned all my EMAIL for the subject MAPFIX and nothing came
>up. WOuld that person identify himself so I can scan for his name?
>Currently I have 2100 mesages in my to-do list and I cant find it...
>
>PEOPLE PLEASE PUT THE REAL SUBJECT IN YOUR SUBJECT LINES!!! Not just
>the same subject you are REPLYING to...
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>
>

```
-------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

86. Problem with W116UPDT.ZIP

From: Mark Sproul <sproul@ap.org>
Date: Mon, 4 Nov 1996 09:51:06 -0500
To: aprssig@tapr.org
Message-ID: <v03007803aea3b2ec52ae@[165.1.27.173]>
Rendered body type: text/plain

To WinAPRS users trying to upgrade to 1.1.6

There have been many reports of the fact that the W116UPDT.ZIP file is corrupt. I will be recreating it. In the mean time, download the full version WAPRS116.ZIP, unzip it in a DIFFERENT directory and copy out just the .exe and .dll files.

Sorry for the headaches.

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

87. WinAPRS 116 update zip file

From: Mark Sproul <sproul@ap.org>
Date: Mon, 4 Nov 1996 11:06:40 -0500
To: aprssig@tapr.org
Message-ID: <v0300780faea3c4af7f26@[165.1.27.173]>
Rendered body type: text/plain

I have uploaded a new copy of the zip file that is not corrupted to both Rutgers and TAPR.

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

88. Re: [APRSSIG:6129] AEA PK-12 powerup problems

From: "BS" <steved@vianet.on.ca>
Date: Mon, 4 Nov 1996 12:58:47 -0500
To: <aprssig@tapr.org>
Message-ID: <199611041753.MAA06796@vianet.on.ca>
Rendered body type: text/plain

Anthony,
I had the same thing happen to my PK-12... Sounds like your computer and tnc are not on the same baud rate.. I had to change my computer program bck down to 1200 to start again or work your way up to see what baud the PK-12 is on.. Once I did that everything has worked fine since... Hope this helps..73

Steve Dubois VA3HOI
CANWARN SPOTTER(Environment Canada)
(S)huttle(A)mateur(R)adio(EX)periment STATION
APRS,WinAPRS,APRTRAK
E-mail:steved@vianet.on.ca

> From: Anthony Hickey <fhickey@neosoft.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6129] AEA PK-12 powerup problems
> Date: Sunday, November 03, 1996 14:01
>
> I reset my AEA PK-12 with the reset command inside the aprs terminal
window.
> something went wrong and I can't figure out what. When I turn it on 4 of
> the LEDs light up and and I get garbage on the terminal in all the baud
> rates that I tried. The problem is that this does not looks like the
> autobaud routine. There is one string of garbage sent out and nothing
else.
> If this is the signon with different comm settings then the the 4 LEDs
> should go off. If it is the autobaud routine then the TNC would be
cycling

> through the different baud rates. So can someone please tell me what's
> going on or if there is a way to do a hard reset with jumpers or
something
> like in the KPC-3 ??
>
>   Thanks, Anthony AB5QR
>

---

89. APRSSIG Digest

From: kr4ol@juno.com
Date: Mon, 4 Nov 1996 14:06:56 PST
To: aprssig@tapr.org
Message-ID: <19961104.141339.23479.0.KR4OL@juno.com>
Rendered body type: text/plain

Please Help! I am trying to help a friend get subscribed to the
APRSSIG and get him set up for the digest. I instructed him mostly by
memory, and wouldn't you know it.........I must be getting
old........my memory apprently lapsed. Please send me the proper
instructions for subscribing and registering for the digest. If you
could, instead of sending it to me, send it to my friend at
KF4XH@Juno.com. We would both appreciate it!

                                                Sincerely,
                                                Tom Rogers,
KR4OL@Juno.com

---

90. Re: [APRSSIG:6117] Re: Band Pass filters????

From: Gary Arnold <garnold@naples.net>
Date: Mon, 04 Nov 1996 18:22:03 -0800
To: aprssig@tapr.org
Message-ID: <327EA4CB.1723@naples.net>
Rendered body type: text/plain

Arte Booten wrote:
>
> Hi Lef,
>
> On Fri, 1 Nov 1996 you asked about:
>
> >Band Pass filters????
> >
> >What are you folks using to reduce out of band interference on
> >two meters?
>
>   Although they aren't the products discussed on the SIG a
> few weeks ago, I've been EXTREMELY pleased with the filters by
> Digital Communications, Inc. They make relatively small multi-
> bay cavity filters for two meters, one and a quarter meters and
> seventy centimeters (either 430-440 or 440-450) and they work
> GREAT! They will also custom-tune a set for any band you want
> by special order. The seventy centimeter unit has N connectors
> and the other two use SO-239's.
>
<snip>
>
>   Arte Booten <N2ZRC@gnn.com>
> (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
>   [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]
>
> .. Sensors say there is nothing at those coordinates ...

Often the problem on 2 meters and at the top end of 440, is paging
transmitters in the 152-153 portion of the spectrum. They tend to be
high power, and not so clean. We have recently installed a half dozen
notch filters by made by PAR Electronics, 6869 Bayshore Drive, Lantana
FL 33462 on receivers in a heavily populated site (our EOC), and have
seen a tremendous reduction in intermod and receiver desense. Typical
insertion loss is .3 db within the band, with the bottom of the notch at
-50 db! They're also available through Amateur Electronic
Supply...going
price is about $65.00. They'll handle 50 watts. Tiny too, completely
passive and symmetrical (either port can take the antenna or receiver).

Currently using them on our packet, APRS, a mobile rig, and 2 m SSB
rigs.
Will be adding one to our repeater too (BR/BR duplexers are NOT complete
isolators at these freqs). Manufacturers claim they also help on 440 by
rejecting third harmonic energy from the paging xmtrs. We're

happy with them here!

73,
Gary
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
          -- Steven Wright, perpipheral visionary

---

91. Re: [APRSSIG:6145] Re: AEA PK-12 powerup problems

From: "Lee Walden" <lwalden@ebmud.com>
Date: Mon, 4 Nov 1996 11:31:24 -0800
To: <aprssig@tapr.org>
Message-ID: <9611041927.AA13895@phantasm>
Rendered body type: text/plain

Just remove the battery backup for two minutes which will reset the TNC to
factory specs. It's JP6 in a PK-88.

> From: BS <steved@vianet.on.ca>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6145] Re: AEA PK-12 powerup problems
> Date: Monday, November 04, 1996 10:04 AM
>
> Anthony,
> I had the same thing happen to my PK-12... Sounds like your computer and
> tnc are not on the same baud rate.. I had to change my computer program
bck
> down to 1200 to start again or work your way up to see what baud the
PK-12
> is on.. Once I did that everything has worked fine since... Hope this
> helps..73
>
> Steve Dubois VA3HOI
> CANWARN SPOTTER(Environment Canada)
> (S)huttle(A)mateur(R)adio(EX)periment STATION
> APRS,WinAPRS,APRTRAK
> E-mail:steved@vianet.on.ca
>
>
> ----------
> > From: Anthony Hickey <fhickey@neosoft.com>
> > To: aprssig@tapr.org
> > Subject: [APRSSIG:6129] AEA PK-12 powerup problems
> > Date: Sunday, November 03, 1996 14:01
> >
> > I reset my AEA PK-12 with the reset command inside the aprs terminal
> window.
> > something went wrong and I can't figure out what. When I turn it on 4
of
> > the LEDs light up and and I get garbage on the terminal in all the
baud
> > rates that I tried. The problem is that this does not looks like the
> > autobaud routine. There is one string of garbage sent out and nothing
> else.
> > If this is the signon with different comm settings then the the 4 LEDs
> > should go off. If it is the autobaud routine then the TNC would be
> cycling
> > through the different baud rates. So can someone please tell me what's
> > going on or if there is a way to do a hard reset with jumpers or
> something
> > like in the KPC-3 ??
> >
> >   Thanks, Anthony AB5QR
> >
>

92. Re: [APRSSIG:6146] APRSSIG Digest

From: gbaumgartner@mail.cybg.com
Date: Mon, 4 Nov 1996 20:01:57 +0000 (GMT)
To: aprssig@tapr.org
Message-ID: <9611042001.AA19599@mail.cybg.com>
Rendered body type: text/plain

```
>       Please Help! I am trying to help a friend get subscribed to the
> APRSSIG and get him set up for the digest.  I instructed him mostly by
> memory, and wouldn't you know it..........I must be getting
> old........my memory apprently lapsed. Please send me the proper
> instructions for subscribing and registering for the digest. If you
> could, instead of sending it to me, send it to my friend at
> KF4XH@Juno.com. We would both appreciate it!

I'd be interested in knowing how to subscribe to the digest as well.  I didn't
find anything what listproc had to offer that indicated a digest was available.


--
--------------------------------------------------------------------------------
Gerry Baumgartner
Gerry.Baumgartner@mail.cybg.com
```

93. MESSAGE FLAG - WinAPRS

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Mon, 4 Nov 96 18:37 EST
To: aprssig@tapr.org
Message-ID: <m0vKYaW-000QdvC@nevets.oau.org>
Rendered body type: text/plain

```
I am a user of DosAPRS and have noticed that all WinAPRS users
are noticebly slow in initial response to messages sent to them.

Could it be that the WinAPRS does not flag the operator in a prominent
way that there is a message waiting to be read?

Does anyone else notice this as a major shortcoming of WinAPRS?


                          Geoffrey Dick
                          wa4ikq@nevets.oau.org
```

94. Software for GPS 20 NOW

From: TCox17892@aol.com
Date: Mon, 4 Nov 1996 22:35:09 -0500
To: aprssig@tapr.org
Message-ID: <961104223507_135842471@emout15.mail.aol.com>
Rendered body type: text/plain

```
Dr. Lawrence W. James has enhanced his MacGPS program to work with the GPS 20
receiver.  The program comes in a freeware version, and a "Pro" version which
is much more sophisticated, but still inexpensive.

You can read about both (and Garmin products for sale) at his Web site:

        http://www.sni.net/~lwjames/

Dr. James can also be reached by Email at

        lwjames@csn.net

I have participated in testing the GPS 20 features of the programs.  They

work very well.
```

95. Re: [APRSSIG:6146] APRSSIG Digest

From: rsellers@firecraker.com (Roger Sellers)
Date: Mon, 4 Nov 1996 21:58:03 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611050358.VAA10304@tapr.org>
Rendered body type: text/plain

```
>       Please Help! I am trying to help a friend get subscribed to the
>APRSSIG and get him set up for the digest.  I instructed him mostly by
>memory, and wouldn't you know it..........I must be getting
>old........my memory apprently lapsed. Please send me the proper
>instructions for subscribing and registering for the digest. If you
>could, instead of sending it to me, send it to my friend at
```

```
>KF4XH@Juno.com. We would both appreciate it!
>
>                                              Sincerely,
>                                              Tom Rogers,
>KR4OL@Juno.com

Hi Tom,
  The simplest way that I know is to go to TAPR's web page at
http://www.tapr.org and look for the APRS sig area. There is a way to
subscribe and unsubscribe right in there.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

96. Re: [APRSSIG:6150] MESSAGE FLAG - WinAPRS

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 4 Nov 1996 20:28:23 -0800
To: aprssig@tapr.org
Message-ID: <199611050428.UAA21411@m1.sprynet.com>
Rendered body type: text/plain

```
At 19:34 11/4/96 -0600, you wrote:
>I am a user of DosAPRS and have noticed that all WinAPRS users
>are noticebly slow in initial response to messages sent to them.
>
>Could it be that the WinAPRS does not flag the operator in a prominent
>way that there is a message waiting to be read?
>
>Does anyone else notice this as a major shortcoming of WinAPRS?
>
>
>                          Geoffrey Dick
>                          wa4ikq@nevets.oau.org
>
>
A little blue mailbox appears in the lower left corner of the active window
when a message is received.  Personally, I leave the message window open all
the time when I'm running WinAPRS...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

97. aprssig digest

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Mon, 4 Nov 1996 20:42:23 PST
To: aprssig@tapr.org
Message-ID: <19961104.212004.5599.2.kf4xh@juno.com>
Rendered body type: text/plain

```
I did get setup,etc.
tnx Andy
```

98. APRS SIG Sign-up

From: bbliss@juno.com (William B. Bliss)
Date: Tue, 05 Nov 1996 04:00:11 EST
To: KF4XH@juno.com
Cc: ktg5ol@juno.vom, gbaumgartner@mail.cybg.com, aprssig@tapr.org
Message-ID: <19961104.190748.2303.0.bbliss@juno.com>
Rendered body type: text/plain

```
HI, yours  on todays aprssig re signing on.. Send the foll:

To join the aprssig send the foll msg to:

     "  listserv@tapr.org"       with following  line in body of msg.

Subscribe list full name:

EX:  "subscribe aprssig Firstname, Last Name."

To get msgs in digest format (all at once about 20-30 a day)
```

```
also send a second message:
      listserv@tapr.org

      "set aprssig mail digest."  or you can send this as the
second line of subscribe message.

To download programs, maps, files, maplists got to foll URL.

  "http://tapr.org/tapr/SIG/aprssig/files/upload"  if this does'nt
go first time break it down by sections: http://tapr.org,    then
extendt addrs,  /tapr/ then /SIG/ , then aprssig/,  then /files/ then
upload. I have had to do it this way several times. Then click
of file u want.

       To quit the sig, send msg to listserv, and text of

    "unsubscribe  aprssig  First Name, Last Name.. "

Hope this gets you on and helps you out.

     73's & Enjoy, Bill/WB6LPG

NNNN
```

99. Re: [APRSSIG:6133] f8

From: Arte Booten <N2ZRC@gnn.com>
Date: Tue, 05 Nov 1996 06:30:33
To: aprssig@tapr.org
Message-ID: <199611051129.GAA15424@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Sun, 3 Nov 1996 Scott Miller wrote:

>I've been unable to get f8 instant HSP\GPS fix to work in ver.
>7.7d.  I run a Pico.

     In order for the F8 funcction to work with your configura-
tion, several things must exist:

     1) You must have a Validation number for APRS;
     2) You must also have a GPS Validation number for APRS;
     3) You must tell APRS you're using GPS and save a configu-
            ration file for it, and;
     4) You must tell the PicoPacket to use LGEtchar $05 to en-
            able the F8 function.

I hope this solves the problem.  Please note that the above ap-
plies to APRSDos.  I'm not sure if it's the same with The Bro's
Sprouls' product (well, IS it, guys?  I noticed the default in
WinAPRS 1.1.6 for the PicoPacket shows "LGE $00," which is the
factory default.)     73


                   Arte Booten  <N2ZRC@gnn.com>

---DON'T BEGIN WINMAIL.DAT!---
```

100. WinAPRS MAILBOX FLAG

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Tue, 5 Nov 96 06:41 EST
To: aprssig@tapr.org
Message-ID: <m0vKjsL-000QdvC@nevets.oau.org>
Rendered body type: text/plain

```
Jim, KU0G, Kansas City APRS Coordinator, has an excellent suggestion by
his example.   Several WinAPRS users in our Central Florida Area have
indicated to me that it is difficult to see the little blue mailbox in
the lower left corner of the screen at times, especially at a distance.
In applications similar to SKYWARN, where communications are time-sensitive,
this could be a major shortfall to not notice a message.

                           Geoffrey Dick
                           Winter Park, FL
                           wa4ikq@nevets.oau.org
===========================================================================
> From: Jim Duncan <ku0g@sprynet.com>
> Subject: [APRSSIG:6153] Re: MESSAGE FLAG - WinAPRS
>
> At 19:34 11/4/96 -0600, you wrote:
> >I am a user of DosAPRS and have noticed that all WinAPRS users
> >are noticebly slow in initial response to messages sent to them.
> >
> >Could it be that the WinAPRS does not flag the operator in a prominent
> >way that there is a message waiting to be read?
> >
> >Does anyone else notice this as a major shortcoming of WinAPRS?
> >
> >
> >                          Geoffrey Dick
> >                          wa4ikq@nevets.oau.org
> >
> >
> A little blue mailbox appears in the lower left corner of the active window
> when a message is received.  Personally, I leave the message window open all
> the time when I'm running WinAPRS...
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail:  ku0g@kcaprs.com
> EMail:  ku0g@sprynet.com
>
```

---

101. Re: [APRSSIG:6157] WinAPRS MAILBOX FLAG

From: rbost@itexas.net (Roy Bost)
Date: Tue, 5 Nov 1996 07:22:57 -0600
To: <aprssig@tapr.org>
Message-ID: <19961105132332970.AAA138@rbost.itexas.net>
Rendered body type: text/plain

```
If you have sounds turned on in Windows then you will also get the default
chime or whatever when you receive mail also.  At least my system does

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

---

102. Re: [APRSSIG:6156] Re: f8

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Tue, 05 Nov 1996 08:54:13 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961105135413.006b44b8@mail.cyberstreet.com>
Rendered body type: text/plain

```
At 05:35 AM 11/5/96 -0600, you wrote:
>Hi All,
>
>On Sun, 3 Nov 1996 Scott Miller wrote:
>
>>I've been unable to get f8 instant HSP\GPS fix to work in ver.
>>7.7d.  I run a Pico.
>
>     In order for the F8 funccction to work with your configura-
>tion, several things must exist:
>
>     1) You must have a Validation number for APRS;
>     2) You must also have a GPS Validation number for APRS;

Hold On there partner: are you telling me the reason I can't get gps to work
on my APRS program is because I have to have a GPS Validation number in
addition to my APRS validation number? Please straighten me out on this very
important point. ronald@cyberstreet.com


>     3) You must tell APRS you're using GPS and save a configu-
>            ration file for it, and;
>     4) You must tell the PicoPacket to use LGEtchar $05 to en-
>            able the F8 function.
>
>I hope this solves the problem.  Please note that the above ap-
>plies to APRSDos.  I'm not sure if it's the same with The Bro's
>Sprouls' product (well, IS it, guys?  I noticed the default in
>WinAPRS 1.1.6 for the PicoPacket shows "LGE $00," which is the
>factory default.)     73
```

```
>
>
>                   Arte Booten  <N2ZRC@gnn.com>
>
>---DON'T BEGIN WINMAIL.DAT!---
>
>
73 cu Ron"KD4AMS"
```

103. Re: [APRSSIG:6157] WinAPRS MAILBOX FLAG

From: "John R. Moore" <w5huq@pobox.com>
Date: Tue, 05 Nov 1996 14:25:38 -0500
To: aprssig@tapr.org
Message-ID: <327F94B2.7938@pobox.com>
Rendered body type: text/plain

```
I have had a number of people ask me "Why dont You answer
Your messages?" I didnt see the little blue box or I had the
program minimized.  I wonder if Mark could add an audio
alert to the Mail alert.  I dont watch the screen all the time
so have a good chance of missing an important message.
So Mark if possible an Audio Alert.
John W5HUQ
--
ARRL 1997 National Convention Information
http://www.pobox.com/~w5huq/hamfests.html

Orange Park Amateur Radio Club Information
http://www.pobox.com/~w5huq
```

104. Davis Monitor II Feeding two computers?

From: Gary Arnold <garnold@naples.net>
Date: Tue, 05 Nov 1996 14:49:52 -0800
To: APRS SIG <aprssig@tapr.org>
Cc: APRS FL Sig <aprs-fl@tapr.org>
Message-ID: <327FC490.3335@naples.net>
Rendered body type: text/plain

```
Does anyone know if there is a way to retrieve data from a Davis Monitor
II to BOTH WinAPRS and Davis' PCLink software?  Have split the data, and
it appears to work, until WinAPRS polls the Monitor II...then PCLink
crashes back to it's menu screen.

Since the equipment and s/w were purchased by our department for EM use,
with APRS secondary, I need a way to make it work on both.  Tried a
diode matrix on the polling line with no success:

To Davis Mon. II <-----+----|<|-------------------> APRS
                       |
                       |----|<|-------------------> PClink

Does WinAPRS require the ability to poll the Monitor, or can it just
wait for and receive the data as it streams, polled by PCLink?  (PCLink
MUST be able to poll, to download highs/lows, and to archive.)

Any suggestions would be appreciated.
73,
Gary

--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I went to a restaurant that serves 'breakfast at any time'.  I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary
```

105. Re: [APRSSIG:6159] Re: f8

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 5 Nov 1996 07:02:39 -0800

To: aprssig@tapr.org
Message-ID: <199611051502.HAA03893@m1.sprynet.com>
Rendered body type: text/plain

```
At 07:59 11/5/96 -0600, you wrote:
>Hold On there partner: are you telling me the reason I can't get gps to work
>on my APRS program is because I have to have a GPS Validation number in
>addition to my APRS validation number? Please straighten me out on this very
>important point. ronald@cyberstreet.com

Yes, you do.  It's an additional $9.00 for GPS Validation!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

106. Re: MESSAGE FLAG - WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Tue, 5 Nov 1996 10:01:40 -0500
To: aprssig@tapr.org
Cc: wa4ikq@nevets.oau.org
Message-ID: <v03007804aea4ff85de74@[165.1.27.175]>
Rendered body type: text/plain

```
>I am a user of DosAPRS and have noticed that all WinAPRS users
>are noticebly slow in initial response to messages sent to them.
>
>Could it be that the WinAPRS does not flag the operator in a prominent
>way that there is a message waiting to be read?
>
>Does anyone else notice this as a major shortcoming of WinAPRS?
>
>
>                          Geoffrey Dick
>                          wa4ikq@nevets.oau.org



I do NOT consider this a "shortcoming" but a feature, it is my
interpretation of APRS that maps are the KEY ingrediant not "keyboarding",
therefore, messages are secondary.  On the Mac it will speak the messages
to you if you set up the voice options.  If you do not have this on, it
behaves EXACTLY the same as Windows.  Windows does BEEP at you and DOES
place a mailbox ICON in the lower left of the frontmost window IF AND ONLY
IF the front most window is a MAP window.

If users would like WinAPRS to be more obnoxious about incoming messages,
then POLITELY ask for that feature, just last week I explicitly asked for
feature requests, but DO NOT call it a "major shortcoming".


I can easily do the following:

        When a message comes in to YOU
        Automatically open the MESSAGE LIST WINDOW
        Scroll down to that message so that it is displayed on the screen.

If you would like this implemented, please let me know by PRIVATE EMAIL,
dont flood the sig. If I only get a few responses that I will assume that
it is not important.  If I get a least 10 response saying they would like
it to behave in this manor then it will be in the next release.

PLEASE PRIVATE REPONSES TO sproul@ap.org

Mark Sproul

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

107. watching propagation

From: "DAVID MICHAEL GAYTKO   ***@***   FM15mm" <cn2859@coastalnet.com>
Date: Tue, 05 Nov 1996 10:48:19 -0500

To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961105154819.0067b6bc@abaco.coastalnet.com>
Rendered body type: text/plain

am a casual user of aprs....would like to watch propagation on hf and vhf.

what would be the ideal settings for the aprs program to obtain the most position reports, and not see any relays. i would like to be able to query also. right now am seeing a lot of stations at the screen bottom, but they all dont show up on the map.

i also would wish that everyone put their grid square in their posits....!

tks . ... 73's

david

```
 :::       :::  :::::::::       :::      :::    :::  :::::::::   :::::::::
 :+:       :+:  :+:    :+:     :+:       :+:   :+:   :+:    :+:  :+:    :+:
 +:+       +:+  +:+    +:+    +:+ +:+    +:+  +:+    +:+    +:+  +:+    +:+
 +#+  +:+  +#+  +#+    +:+   +#+  +:+    +#++:++     +#++:++#+   +#+    +:+
 +#+ +#+#+ +#+  +#+    +#+  +#+#+#+#+#+  +#+  +#+    +#+         +#+    +#+
  #+#+# #+#+#   #+#    #+#        #+#    #+#   #+#   #+#         #+#    #+#
   ###   ###    #########         ###    ###    ###  ###         #########
```

---

108. Re: [APRSSIG:6161] Davis Monitor II Feeding two computers?

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Tue, 05 Nov 1996 09:22:08 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961105162208.00675600@mailhost.primenet.com>
Rendered body type: text/plain

The simple answer is NO. I have talked to Davis and the WeatherLink program can talk to only one "system" at a time. Sorry.

Hope that this helps....73, Alan

At 08:55 AM 11/5/96 -0600, you wrote:

```
>Does anyone know if there is a way to retrieve data from a Davis Monitor
>II to BOTH WinAPRS and Davis' PCLink software?  Have split the data, and
>it appears to work, until WinAPRS polls the Monitor II...then PCLink
>crashes back to it's menu screen.
>
>Since the equipment and s/w were purchased by our department for EM use,
>with APRS secondary, I need a way to make it work on both.  Tried a
>diode matrix on the polling line with no success:
>
>To Davis Mon. II <-----+----|<|-------------------> APRS
>                       |
>                       |----|<|-------------------> PClink
>
>Does WinAPRS require the ability to poll the Monitor, or can it just
>wait for and receive the data as it streams, polled by PCLink?  (PCLink
>MUST be able to poll, to download highs/lows, and to archive.)
>
>Any suggestions would be appreciated.
>73,
>Gary
>
>--
>
>Gary Arnold CEM
>Coordinator, Collier County (FL) Emergency Management
>garnold@naples.net
>76656.2753@compuserve.com
>[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam
>
>EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
>Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"
>
>
>"I went to a restaurant that serves 'breakfast at any time'.  I ordered
>French Toast during the Renaissance."
>           -- Steven Wright, perpipheral visionary
>
>
```

Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

109. Re: MESSAGE FLAG - WinAPRS

From: joefoor@digitalexp.com (Foor, Joe)
Date: Tue, 5 Nov 1996 11:21:31 -0600
To: aprssig@tapr.org
Message-ID: <19961105172126346.AAC187@dial-20.marianna.fl.digitalexp.com>
Rendered body type: text/plain

In a message dated Tue, 5 Nov 1996 09:10:37 -0600, Mark wrote;

>therefore, messages are secondary. On the Mac it will speak the messages
>to you if you set up the voice options.

Since the 'Ding' of the message announcement comes through the sound board, I expect I could get this to do that on my system too. After all, Windows is merely playing a sound file, on command from the WinAPRS program. It should be just a matter of reassigning which sound file is played.

You want your machine to shout at you? How about the AOL sound file that says "You've got mail." Turn the volume way up before leaving the room and shutting the monitor off.

regards,
Joe kf4dys

---

110. Re: [APRSSIG:6164] watching propagation

From: stanzepa@usa.nai.net (stan horzepa)
Date: Tue, 5 Nov 1996 12:35:23 -0500
To: aprssig@tapr.org
Message-ID: <v01540b03aea52a4a9117@[206.98.48.195]>
Rendered body type: text/plain

```
>am a casual user of aprs....would like to watch propagation on hf and vhf.
>
>what would be the ideal settings for the aprs program to obtain the most
>position reports, and not see any relays.  i would like to be able to query
>also.  right now am seeing a lot of stations at the screen bottom, but they
>all dont show up on the map.
>
>i also would wish that everyone put their grid square in their posits....!
>
>tks . ... 73's
>
>david
> :::       :::  :::::::::       :::      :::    :::  :::::::::   :::::::::
> :+:       :+:  :+:    :+:     :+:       :+:   :+:   :+:    :+:  :+:    :+:
> +:+       +:+  +:+    +:+    +:+ +:+    +:+  +:+    +:+    +:+  +:+    +:+
> +#+  +:+  +#+  +#+    +:+   +#+  +:+    +#++:++     +#++:++#+   +#+    +:+
> +#+ +#+#+ +#+  +#+    +#+  +#+#+#+#+#+  +#+  +#+    +#+         +#+    +#+
>  #+#+# #+#+#   #+#    #+#        #+#    #+#   #+#   #+#         #+#    #+#
>   ###   ###    #########         ###    ###    ###  ###         #########
>
>
```

Hello David,

If you are using the DOS version of APRS, enter C-F-D (Controls-Filters-Direct) and APRS will only display stations you are receiving directly. See October 1996 QST, page 86 for an article about using APRS as a propagation tool.

73,

Stan, WA1LOU

---

111. Software for GPS 20 NOW

From: TCox17892@aol.com
Date: Tue, 5 Nov 1996 12:37:33 -0500
To: aprssig@tapr.org
Message-ID: <961105123732_1215224915@emout12.mail.aol.com>
Rendered body type: text/plain

In my original posting on this subject, I said that the GPS 20 is now supported by both the freeware and Pro versions of MacGPS.

I overstated the case: Dr. Lawrence, the author of the programs, has pointed out that the Pro version now works with the GPS 20, but the free version does not.

112. Re: [APRSSIG:6168] Software for GPS 20 NOW

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Tue, 05 Nov 96 17:59:29 UTC
To: aprssig@tapr.org
Message-ID: <3278@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
TCox attributed the MAC GPS software to "Dr Lawrence". I believe the
author is Dr. Larry James, who shows up in the callbook:

> Call-Sign: KG0GB                    Class: ADVANCED
> Previously: N0BRA                   Class: SAME CLASS
> Real Name: LAWRENCE W JAMES         Birthday: MAR 17, 1942
> Mailing Address: 7329 MEADOW CT, BOULDER, CO  80301
> Valid From: MAY 25, 1993            To: MAY 25, 2003

FYI -- Larry is probably the most reptuable Garmin dealer (operating out
of his home). If you need any Garmin widgets, call him at 303-530-9014.

73, Tom
```

---

113. KPC-3 Tx problem

From: Bill Northup <northup@sw.stratus.com>
Date: Tue, 5 Nov 1996 14:18:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611051918.OAA03834@blackdog.sw.stratus.com>
Rendered body type: text/plain

```
About a year ago I ran across the problem with the KPC-3 where it would start
transmitting and seemed as if it wasn't going to stop. After talking to a
number of people here on this mail list I concluded that at 0000Z it would
send some data over and over again for 1 minute and would then stop. The
problem is that there is a bug in the 6.0 firmware that supported GPS. If you
press Kantronics they can supply a new EPROM to fix the problem.

So everyone that is seeing this probem no check the rev of the EPROM and call
Kantronics service about it.

--

    Bill Northup, N1QPR         EMAIL n1qpr@amsat.org
                                QRP-NE #307
                                NorCal #1027
                                QRP-L  #356
```

---

114. WinAPRS MAILBOX SOUND

From: Arte Booten <N2ZRC@gnn.com>
Date: Tue, 05 Nov 1996 19:26:16
To: aprssig@tapr.org
Message-ID: <199611060024.TAA19636@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Tue, 5 Nov 1996 John R. Moore wrote:

>... I wonder if Mark could add an audio alert to the Mail  a-
>lert ...

       There IS an audible alert for incoming messages specifi-
cally to you, and it's different from all the other sounds
WinAPRS makes.  In fact, once you get used to it, it'll wake
you up in the middle of the night to look at 'em! (Shades of
the hound dogs in the night syndrome discussed on the SIG a few
months ago!)  73


                   Arte Booten  <N2ZRC@gnn.com>

---DON'T BEGIN WINMAIL.DAT!---
```

---

115. Re: [APRSSIG:6162] Re: f8

From: rwf <rwf@atl.mindspring.com>
Date: Tue, 05 Nov 1996 18:19:31 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961105153006.006e237c@atl.mindspring.com>
Rendered body type: text/plain

```
At 09:03 AM 11/5/96 -0600, KU0G wrote:
>Yes, you do.  It's an additional $9.00 for GPS Validation!

No.  $14.00


>
```

---

116. RE: [APRSSIG:6143] Problem with W116UPDT.ZIP

From: Jerry Rector <jerryr49@magg.net>
Date: Tue, 5 Nov 1996 21:18:25 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBCB5E.E56841C0@wpb-153.magg.net>
Rendered body type: text/plain

```
Mark:
         Downloaded 116 following your initial posting...
         The update file unzipped here just fine, and is
         up and running for at least a week now.
      73 de Jerry, KB4OAM
----------
From:   Mark Sproul[SMTP:sproul@ap.org]
Sent:   Monday, November 04, 1996 4:25 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:6143] Problem with W116UPDT.ZIP

To WinAPRS users trying to upgrade to 1.1.6


There have been many reports of the fact that the W116UPDT.ZIP file is
corrupt.  I will be recreating it.  In the mean time, download the full
version WAPRS116.ZIP, unzip it in a DIFFERENT directory and copy out just
the .exe and .dll files.

Sorry for the headaches.


Mark

________________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
________________________________________________________________________________
```

---

117. Re: f8

From: n9ybk@juno.com (Matthew S Medlen Sr)
Date: Tue, 5 Nov 1996 15:50:04 PST
To: aprssig@tapr.org
Message-ID: <19961105.155030.7054.0.n9ybk@juno.com>
Rendered body type: text/plain

```
sumbody tell me how to get off this mailing list.
```

---

118. unsubscribing from mail lists

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 05 Nov 1996 22:21:03 -0500
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <3280041E.7223@cyberenet.net>
Rendered body type: text/plain

```
To easily unsubscribe,

You need to S-A-V-E the confirmation messages you receive from various
list servers. You know, the one that you received AFTER you subscribed.
The one that has your default password in it. The one that tells you HOW
TO UNSUBSCRIBE.

Just make yourself a folder in your mailer and save these type messages
in there. Then when you need to refer to them they are handy. If you
don't/can't/won't do this then print out these MSG's to paper and hang
on to them.



unsubscribe <list>
```

```
signoff <list>
------------------
Two ways of removing yourself from the specified list.

[the list IS NOT aprssig, its listproc@tapr.org]

YOU MUST DO THIS FROM THE MALBOX/USER ID THAT YOU USED TO SUBSCRIBE,
else it won't work!

73...Bob
```

---

119. Re: [APRSSIG:6104] Band Pass filters???? (Summary)

From: Bill Lefler <wo0e@sky.net>
Date: Tue, 5 Nov 1996 21:57:09 -0600 (CST)
To: Phil Keys <philkeys@olympus.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.93.961105214724.27350B-100000@sky.net>
Rendered body type: text/plain

```
Thanks to all who replied to my request for information. I appreciate all
the assistance and advise.
        To summarize the posts and private messages I have received;
If you are looking to filter out commericial services from a variety of
sources, the Band Pass filter by DCI is the way to go. I have heard *NO*
bad things about the filter nor the company. (By the way, I ordered one
today, to be installed this weekend [I hope]). I was very impressed with
the Technical assistance I received from the DCI staff. I was asking about
6 & 8 pole filters, and the company rep told me that while he would be
delited to sel lme the more expensive filter, he felt my situation would
be well suited to the less expensive 4 pole filter. I like honesty.

If you are trying to notch a signal from a specific source (I.E. a known
frequency) then PAR Electronics sells a notch filter that received many
glowing reports. (I didn't look in to this option as we are trying to
prevent mixing of several frequencies in the front end of our repeater).

        Once again I wish to thank all those of you who have taken the
time to respond, and those of you who tolerated my use of the bandwidth.
BCNU "Lef"
*********************************************
wo0e@sky.net  - Bill Lefler - Kansas City KS
Amateur Radio -  WO0E  (Dub-Yo-Zeree)
"There is no milk without some manure."
*********************************************
```

---

120. Re: NWS-ILX online 11/04/96

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 5 Nov 1996 23:03:52 -0500 (EST)
To: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961105225702.6348I-100000@arctic>
Rendered body type: text/plain

```
On Tue, 5 Nov 1996, Larry Keeran wrote:

> Last night National Weather Service office designator ILX (Lincoln Illinois)
> is online with dosAPRS.
> We see the 4 place barometer reading of 30.45 as 304.5 on the screen.

*** Wrong.  Baro is to be entered as 4 digits.  These are the rightmost 4
digits of the Barometric pressure in MILLIBARS in TENTHS..  So 1013.4
would be entered as 0134.   998.6 would be entered as 9986

> Also, the M F A shows Features Off = A L R W    when W D B is set.
> The question is:  Which has priority over the other?

*** I dont have a clue.  Try it and see, hi hi

> Also, the W E dir/vel/etc etc was set for their reading of 14.5 MPH wind
> velocity and the transmitted report showed 4.5 mph.

*** APRS only supports a 3 character wind speed.  14.5 is 4 characters
and so the rightmost 3 are used.  So you can enter 9.9 MPH but you cannot
enter 10.9.  Best to raise that to 11...  In otherwords must be integers
above 9.9 MPH>

> Question: Does the C X command inhibit manual xmit commands such as X A?

*** No, Manual trasnmit commands will alsways transmit
```

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

121. (no subject)

From: dougwe@ccintnet.wrq.com
Date: Tue, 05 Nov 96 20:12:33 PST
To: aprssig@tapr.org
Message-ID: <9610058472.AA847253653@ccintnet.wrq.com>
Rendered body type: text/plain

At long last, vanity!

KC7CO is now K7IP

73 all,
Doug

122. Re: Garmin GPS-31?

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 06 Nov 96 02:03:55 EST
To: <aprssig@tapr.org>
Message-ID: <961106070354_71301.3106_FHJ58-1@CompuServe.COM>
Rendered body type: text/plain

Does anyone have first-hand experience with the Garmin GPS-31 "TrakPak"? This
is a integrated receiver/antenna that's designed to be used with a PC (no
display). It appears to be about the size of the Garmin mag-mount external
antenna, which makes it very small indeed (about 1.5"x3"x.5").

I've seen this thing advertised on the http://www.navtechgps.com page, but have
not seen it discussed here. Not taking away from all of TAPR's efforts on our
behalf with the GPS-20, but it has to be noted that the $229 price of this
combination receiver/antenna with serial output makes it awfully attractive for
APRS application. The integrated configuration seems like it would solve
several problems simultaneously - especially the antenna issue (not to mention
that *&%# MCX connector <g!>).

Any thoughts?

...mike/N0QBF

123. Hello ?

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Wed, 6 Nov 1996 07:06:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961106070602.21539B-100000@ns1>
Rendered body type: text/plain

is the sig dead.....or just resting. Or maybe I have been bounced from
the list.

```
Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
________________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                         (334) 405-4600
```

124. GPS-31 Reply

From: mark.endicott@nashville.com
Date: Wed, 6 Nov 96 07:31:09
To: aprssig@tapr.org
Message-ID: <199611061342.HAA05094@tapr.org>
Rendered body type: text/plain

Mike/N0QBF wrote:

>Does anyone have first-hand experience with the Garmin GPS-31 "TrakPak"?
This
>is a integrated receiver/antenna that's designed to be used with a PC (no
>display). It appears to be about the size of the Garmin mag-mount external
>antenna, which makes it very small indeed (about 1.5"x3"x.5").

Mike:

I have had one on the dash of my Jeep for about six months. Works great!
It also has two serial data output lines which will allows you to output
to your TNC and to a PC or J. Harper's display kit.

Mark WB0NOO

```
  _______________________________
 |                               \
 |         Mark Endicott          \
 |        P.O. Box 148242          \
 |   Nashville, Tennessee 37214     >
 |            WB0NOO               /
 |  mark.endicott@nashville.com   /
 |_______________________________/
```

---

125. Albany, NY

From: Knut Finnevolden <knutf@mail.idt.net>
Date: Wed, 06 Nov 1996 08:49:46 -0800
To: aprssig@tapr.org
Message-ID: <3280C1AA.6D28@mail.idt.net>
Rendered body type: text/plain

I'm commuting from Connecticut to Albany, NY several times a week. Tried
APRS Mobile last night. Didn't see any stations in the Albany area.
Any activities there ??, or was it my setup ??

Knut

---

126. Re: [APRSSIG:6179] Re: Garmin GPS-31?

From: "Dr. William I. Clement" <wclement@hermesnet.net>
Date: Wed, 06 Nov 1996 09:20:06 -0500
To: aprssig@tapr.org
Message-ID: <32809E96.7951@the-hermes.net>
Rendered body type: text/plain

Mike Musick wrote:

> Does anyone have first-hand experience with the Garmin GPS-31 "TrakPak"? This
> is a integrated receiver/antenna that's designed to be used with a PC (no
> display). It appears to be about the size of the Garmin mag-mount external
> antenna, which makes it very small indeed (about 1.5"x3"x.5").
>
> I've seen this thing advertised on the http://www.navtechgps.com page, but have
> not seen it discussed here. Not taking away from all of TAPR's efforts on our
> behalf with the GPS-20, but it has to be noted that the $229 price of this
> combination receiver/antenna with serial output makes it awfully attractive for
> APRS application. The integrated configuration seems like it would solve
> several problems simultaneously - especially the antenna issue (not to mention
> that *&%# MCX connector <g!>).
>
> Any thoughts?
>
>   ...mike/N0QBF

I have first-hand experience with Garmin's GPS-30 which is also a
combined
GPS receiver and antenna in a waterproof housing shaped much like a
computer
"mouse". It has about 12 feet of cable attached and, for APRS use you
need
to use only 3: Power, Ground, Data out. Perhaps the GPS-31 is a
fancier
version of the GPS-30.

Regards,
  Will, N3XLM

```
|================================================|
|  Dr. William I. Clement, President             |
|  Clement Engineering, Inc.                     |
|  1261 Dogwood Road, Arnold, MD  21012-2220     |
|  (office) 410.518.6591 / (sales) 410.268.6736  |
|  (FAX) 410.268.4612                            |
|  mailto:wclement@the-hermes.net                |
|  http://home.navisoft.com/agrelo/clement.htm   |
|================================================|
```

---

127. Re: [APRSSIG:6179] Re: Garmin GPS-31?

From: rwf <rwf@atl.mindspring.com>
Date: Wed, 06 Nov 1996 08:01:17 -0500

To: aprssig@tapr.org
Message-ID: <3.0.32.19961106075938.0069fa94@atl.mindspring.com>
Rendered body type: text/plain

```
I have (and use) trackpack 35 units (the 12 channel  parallel tracking
version that looks like a computer mouse).  Mine feeds right into the 2nd
port on a Picopacket. They work fine, even in an airplane or helicopter and
even in an L1011 at 35000 ft and 400+ MPH.

They use at least one on the Brothers To The Rescue Flights.

The performance makes the cheap marine 1 or 2 channel sequencing Garmins
look like a cheap toy.

Beware that the Trackpacks with a 9 pin PC serial connector DO NOT bring
out the DGPS input.

Not sure exactly what engine the the 31 uses, probably a Trackpack version
of the gps-20 (or even less).   Mine is the Trackpack version of the GPS-25.

Ralph N4NEQ



A person wrote:
>Does anyone have first-hand experience with the Garmin GPS-31 "TrakPak"?
```

---

128. Re: Davis Monitor II Feeding two computers?

From: Mark Sproul <sproul@ap.org>
Date: Wed, 6 Nov 1996 08:56:31 -0500
To: aprssig@tapr.org
Message-ID: <v03007803aea64934f025@[165.1.27.175]>
Rendered body type: text/plain

```
>Does anyone know if there is a way to retrieve data from a Davis Monitor
>II to BOTH WinAPRS and Davis' PCLink software?  Have split the data, and
>it appears to work, until WinAPRS polls the Monitor II...then PCLink
>crashes back to it's menu screen.
>
>Since the equipment and s/w were purchased by our department for EM use,
>with APRS secondary, I need a way to make it work on both.  Tried a
>diode matrix on the polling line with no success:
>
>To Davis Mon. II <-----+----|<|-------------------> APRS
>                       |
>                       |----|<|-------------------> PClink
>
>Does WinAPRS require the ability to poll the Monitor, or can it just
>wait for and receive the data as it streams, polled by PCLink?  (PCLink
>MUST be able to poll, to download highs/lows, and to archive.)
>
>Any suggestions would be appreciated.


This should work, you need the TRANSMIT data from the davis to go to the
PCLink port, NOT to WinAPRS, WinAPRS really doesnt care if the Davis hears
what it has to say, it is only telling it to output data, I am sure the
PCLink software is doing the same and when the data comes in, WinAPRS
should deal with it just fine.  NOTE: I have not tried this so I am not
making any promises.


Mark

_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

---

129. The "I"s have it, WinAPRS message window

From: Mark Sproul <sproul@ap.org>
Date: Wed, 6 Nov 1996 09:21:31 -0500
To: aprssig@tapr.org
Message-ID: <v03007806aea64d11d8a0@[165.1.27.175]>
Rendered body type: text/plain

The response to my suggestion for the new method to handle incoming
messages was VERY good. I have it implemented and working just fine. I
also fixed the bug that caused reply to go to the wrong address if anything
but ALL MESSAGES was selected. The next release, version 1.1.7 will be on
Thursday of next week (the 14th). There are some MAJOR weather display
improvements plus several minor bug fixes etc.

I also have the "FIRST" step, but not finished, for proto path selection,
this is a window that displays the path that each station has. Its by no
means really implemented and at present its just a window that you can look
at, it doesnt do anything other than show you the path for each station.

So far the response to my request for input on features has been going
well. Most of the requests have been quite resonable, there have been one
or two out in left field and there was one that was very good and very well
thought out but would require my working full time on it.

The response to this message window has also been very good and everyone
has responded directly as not to flood the sig.

Mark

```
___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

130. Re: [APRSSIG:6182] Albany, NY

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 06 Nov 1996 10:07:35 -0500
To: aprssig@tapr.org
Message-ID: <3280A9B7.50A@global2000.net>
Rendered body type: text/plain

Knut Finnevolden wrote:
>
> I'm commuting from Connecticut to Albany, NY several times a week. Tried
> APRS Mobile last night. Didn't see any stations in the Albany area.
> Any activities there ??, or was it my setup ??
>
> Knut

Hi Knut

Anything in the Albany is usually on 145.090mhz. Not a ton of activity
but a few are on.

73

John N2OJY

131. Mobile position reports

From: jkozak@erols.com (John W. Kozak)
Date: Wed, 6 Nov 1996 10:17:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611061517.KAA27269@smtp2.erols.com>
Rendered body type: text/plain

I've got my laptop and GPS in the van acting as a moving map (no TNC
installed yet for Txmitting). I would like the screen to display my most
current position report ONLY, deleting all old reports, but have only been
successful so far in doing this manually with the space bar . I have been
reading the text files but this step has eluded me so far. I have both 7.6
and 7.7 and both APRS and GPS validations. Is it possible to configure the
program to do this?

N3AGG
JWK

132. Guiding hand

From: "Matthew Kolade" <kolade@algonet.se>
Date: Wed, 6 Nov 1996 16:20:26 -0800

To: <aprssig@tapr.org>
Message-ID: <199611061522.QAA18672@ratatosk.algonet.se>
Rendered body type: text/plain

Pease Help! I am new on this level, and I am willing to learn. My fist
machine is GPS-20, which I know more or less about. Please can someone
give me a guiding hand? I am going to appreciate it

thanks

Matthew Kolade
Victory Int'l Reklam
Fyrklöversgatan 22, 417 21 Göteborg,
Sweden
E-MAIL: kolade@algonet.se

133. Re: [APRSSIG:6175] unsubscribing from mail lists

From: dpage@cvp.ti.com (Doug Page)
Date: Wed, 6 Nov 96 09:27:07 CST
To: aprssig@tapr.org
Message-ID: <9611061527.AA02107@cvpsun174.cvp.ti.com>
Rendered body type: text/plain

> From aprssig@tapr.org Tue Nov 5 22:18:44 1996
> Posted-Date: Tue, 5 Nov 1996 21:31:10 -0600 (CST)
> Received-Date: Tue, 5 Nov 96 22:18:44 CST
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> From: Bob Derderian <n2iph@cyberenet.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6175] unsubscribing from mail lists
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
> Content-Transfer-Encoding: 7bit
> Content-Type> : > text/plain> ; > charset=us-ascii>
> Mime-Version: 1.0
> X-Mailer: Mozilla 3.0Gold (Win95; I)
> Content-Length: 743
>
> To easily unsubscribe,
>
> You need to S-A-V-E the confirmation messages you receive from various
> list servers. You know, the one that you received AFTER you subscribed.
> The one that has your default password in it. The one that tells you HOW
> TO UNSUBSCRIBE.
>
> Just make yourself a folder in your mailer and save these type messages
> in there. Then when you need to refer to them they are handy. If you
> don't/can't/won't do this then print out these MSG's to paper and hang
> on to them.
>
>
>
> unsubscribe <list>
> signoff <list>
> ------------------
> Two ways of removing yourself from the specified list.
>
> [the list IS NOT aprssig, its listproc@tapr.org]
>
> YOU MUST DO THIS FROM THE MALBOX/USER ID THAT YOU USED TO SUBSCRIBE,
> else it won't work!

This is a key condition. Those of us who have been moved to a different DNS
are stuck on this list because `unsubscribe' and `signoff' do not recognize the
new DNS portion of our e-mail address. Those of us behind firewalls can have
a problem as well since our return e-mail address may or may not match the
`MAILBOX/USER' in the very message that we used to subscribe.

Good Luck!

73,

de Doug Page, KC5RRZ

>
> 73...Bob
>
>

*** The opinions expressed are mine (maybe) and do not necessarily represent ***
*** those of my employer -- or any other sane person, for that matter. ***

---

134. TAWG FALL APRS CONFERENCE 1996 SUMMARY

From: AH7E@aol.com
Date: Wed, 6 Nov 1996 14:19:12 -0500
To: aprssig@tapr.org
Message-ID: <961106141911_1417206328@emout11.mail.aol.com>
Rendered body type: text/plain

TAWG FALL APRS CONFERENCE 1996 SUMMARY

On 26 OCT 96, the Tri-State APRS Working Group (TAWG) sponsored the Fall APRS Conference. Approximately 25 people attended.

After an explanation of the TAWG organization by Sid, AH7E, Mike, KB8SSH, gave a demo of APRS and WinAPRS. Discussion about the proper use of the path settings helped some of the folks new to APRS. Many other questions were answered in reference to general APRS operations.

Joe, W8RIK, showed an informative video about GPS.

Joe also moderated a discussion about APRS□s use with the National Weather Service and ARES. Tom, KA8ZNY explained some of the newest improvements in the Cinci-Dayton-Columbus 19.2 k network. Tom explained how the different Skywarn groups will be linked to the NWS in Wilmington, Ohio. Tom explained how the 19.2 network was working on passing RCM data through the network. APRS is expected to be the next project for the 19.2 network guys. If the 19.2 k network plan work, changes may have to be made to our paths for the APRS weather stations. More information soon.

Doug, KB8GVQ, explained a project he has been working on over the past few months. Called the Standalone Tracker Interface (STI), Doug□s device may interest those of you that go APRS/GPS mobile. Among many of the bells and whistles, the STI has a speed controlled beacon. Doug observed a problem with all the packets flying around from parked vehicles sending out too many packets. Doug□s device controls the beacons with information from your GPS. The STI is set up via a computer port. The STI works with any TNC. Doug also has some 30 watt radios on 145.79 MHz for sale. These radios have been taken out of commercial service and put on 145.79 MHz for APRS use. Doug can be reached at baded@nacs.net.

In an open forum, the group discussed many items:

The need for a better interface between TAWG and the NWS/Skywarn folks was discussed. The need to inform/educate these people about the benefits and abilities of APRS and the APRS weather stations were points brought up by the group. Mike, KB8SSH, and Tom, KA8ZNY volunteered be the committee to start on a plan for working with the NWS and Skywarn groups.

Ryan, N8YHV volunteered to be the TAWG "WEBMASTER". Ideas about a web page, Digi/gate database and other Internet related projects were discussed.

The group also decided there was a need for a Network committee. Interested parties should contact Sid, AH7E, about helping with the committee to improve our TAWG network.

Eric, N8FYD gave a presentation and demo of his new project, the Electronic Routing Information Companion (ERIC). Eric has come up with a product that attaches to your Garmin 45 GPS and gives voice announcements for the waypoints you set in the Garmin 45. Vacation trips can be input and ERIC gives proper warning of interchanges. One of the more interesting spin-offs from Eric□s work on ERIC, is he has come up with a way for APRS stations to be plotted on his Garmin 45 screen without a computer. Eric hopes to have his product available in kit form soon. Contact Eric at jfrancis@magnus.acs.ohio-state.edu for more information.

Thanks go out to the following people for their help with the TAWG Fall Meeting:

Joe	W8RIK
Mary	N8TBO
Mike	KB8SSH

Respectfully submitted,

Sid

AH7E

For more information about the TAWG Fall APRS Conference or about TAWG,
please send e-mail to:

AH7E@aol.com

---

135. Re: [APRSSIG:6191] TAWG FALL APRS CONFERENCE 1996 SUMMARY

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Wed, 06 Nov 1996 13:39:51 -0800
To: aprssig@tapr.org
Message-ID: <328105A7.167E@wired.jpl.nasa.gov>
Rendered body type: text/plain

AH7E@aol.com wrote:
> Eric, N8FYD gave a presentation and demo of his new project,
> the Electronic Routing Information Companion (ERIC). Eric has
> come up with a product that attaches to your Garmin 45 GPS and
> gives voice announcements for the waypoints you set in the
> Garmin 45. Vacation trips can be input and ERIC gives proper
> warning of interchanges. One of the more interesting spin-offs
> from Eric□s work on ERIC, is he has come up with a way for APRS
> stations to be plotted on his Garmin 45 screen without a computer.
> Eric hopes to have his product available in kit form soon. Contact
> Eric mailto:jfrancis@magnus.acs.ohio-state.edu for more information.

Sounds cool. I'd thought about doing a similar thing, taking posit
reports and send them to the Garmin 45 as waypoints. It's nice that the
Garmin allows 6 charaters for a waypoint name, just the right size for a
callsign, though no SSIDs are possible.

```
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

---

136. APRS Activity in area?

From: kb8qir@westco.net (Jacob W. Tennant)
Date: Wed, 6 Nov 1996 15:22:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611062122.PAA24988@tapr.org>
Rendered body type: text/plain

Hello,

I am located in Morgantown,WV (3939.0N 07959.40W) and I am looking for any
active aprs operations in the
area since a search of the local groups have found that there is a couple
people interested but nothing
really going on.

Also, any advice on getting started in APRS would be greatly appreciated and
used constructively.

73's Jake, KB8QIR

---

137. Re: [APRSSIG:6185] Re: Davis Monitor II Feeding two computers?

From: Gary Arnold <garnold@naples.net>
Date: Wed, 06 Nov 1996 18:38:05 -0800
To: aprssig@tapr.org
Cc: sprould@ap.org
Message-ID: <32814B8D.1F3F@naples.net>
Rendered body type: text/plain

Gary Arnold wrote:

> >Does anyone know if there is a way to retrieve data from a Davis Monitor
> >II to BOTH WinAPRS and Davis' PCLink software? Have split the data, and
> >it appears to work, until WinAPRS polls the Monitor II...then PCLink
> >crashes back to it's menu screen.
> >
> >Since the equipment and s/w were purchased by our department for EM use,
> >with APRS secondary, I need a way to make it work on both.
> >Does WinAPRS require the ability to poll the Monitor, or can it just
> >wait for and receive the data as it streams, polled by PCLink? (PCLink
> >MUST be able to poll, to download highs/lows, and to archive.)

> >
> >Any suggestions would be appreciated.

Mark of the Bros. Sproul wrote me back:
>
> This should work, you need the TRANSMIT data from the davis to go to the
> PCLink port, NOT to WinAPRS, WinAPRS really doesnt care if the Davis hears
> what it has to say, it is only telling it to output data, I am sure the
> PCLink software is doing the same and when the data comes in, WinAPRS
> should deal with it just fine. NOTE: I have not tried this so I am not
> making any promises.
>
> Mark
>
> ____

Mark's right! It does work as we thought. Takes some tinkering, and a logical startup, but it appears to work. Here's how:

1: Be sure that there is NO CONNECTION between pin 2 of the RS-232 (25 pin) of the WinAPRS computer and the Davis equipment. We use an RS-232 breakout box, all pins jumpered from one side to the other. CUT THE TRACE ON PIN 2, at the WINAPRS side of the breakout box. Verify that the trace is cut with an ohmmeter.

2: Connect a three wire shielded cable to the break out box circuit board, so that Pin 2 goes to Pin 2 of the 25 pin RS-232 connector on the serial port of the PCLink computer, and Pin 3 goes to Pin 3 of same. Use no diodes or anything, just a straight connection. Connect Pin 7 on the breakout box pc board to Pin 7 of the PCLink computer (this is SIGNAL ground). Solder the shield to pin 1, ON ONE END ONLY (to avoid ground loops). Pin 1 is FRAME ground.

3: Start PCLink, and verify the serial port is working, with (S)etup, Seria(L), and (T)est. If so, go back to the menu and start the display with (B)ulletin, (Y)es. The s/w should download highs and lows, and start the display. (**You may want to (D)ownload the archive and save it before starting the display.)

If the serial link is NOT working, double check your work, and try again.

4: Start WinAPRS, setting the ports, and opening them as usual. Open the Weather Display, and sit back. Within a couple of minutes (no more than 3-5) the display should be updating nicely.

PCLink polls the station regularly, causing data dumps. WinAPRS eavesdrops and grabs the data as it goes by. Incorrect frames are tossed away...correct ones update the system!

We also use short haul modems, or line drivers, to carry the data from the 8th floor of our building to the first floor EOC. The short hauls are powered by the computer on the lower end (Pin 2 provides the power!). Upstairs, the Davis equipment does NOT provide power (at least the Monitor II...Davis tech support says the newer monitors do provide power through the serial port.) and the short hauls do NOT work without power on both ends. Simple solution.

Take another breakout box (we used Radio Shack 276-1403, page 168 in teh '97 catalog for both), again jumper all 25 lines from one end to the other (they aren't all needed, but it's easier to just go ahead and use them all).

Connect a clean source of 12 volts to the PC board...positive to pin 5, and negative to pin 1. Secure it, plug it into the line, have a ball!

The usual caveats apply...if you're not comfortable with a soldering iron (don't even THINK about using a gun!), and you're queasy at the thought of messing with your computer's innards through the outards, find someone who's fearless to do the work for you!

It works here...and should work there too, and SHOULD work with the Bob's DOS version! Thanks for the clarification on how (little) WinAPRS must manipulate the data Mark!

Sorry this is a bit long, but figured it might save several hundred dollars for those who need both displays, but don't want two full systems!

73,
Gary WB2WPA

--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
-- Steven Wright, perpipheral visionary

138. Re: [APRSSIG:6192] Re: TAWG FALL APRS CONFERENCE 1996 SUMMARY

From: "Dr. William I. Clement" <wclement@hermesnet.net>
Date: Wed, 06 Nov 1996 17:30:05 -0500
To: aprssig@tapr.org
Message-ID: <3281116D.754B@the-hermes.net>
Rendered body type: text/plain

Randy Hammock wrote:
>
> AH7E@aol.com wrote:
> > Eric, N8FYD gave a presentation and demo of his new project,
> > the Electronic Routing Information Companion (ERIC). Eric has
> > come up with a product that attaches to your Garmin 45 GPS and
> > gives voice announcements for the waypoints you set in the
> > Garmin 45. Vacation trips can be input and ERIC gives proper
> > warning of interchanges. One of the more interesting spin-offs
> > from Eric□s work on ERIC, is he has come up with a way for APRS
> > stations to be plotted on his Garmin 45 screen without a computer.
> > Eric hopes to have his product available in kit form soon. Contact
> > Eric mailto:jfrancis@magnus.acs.ohio-state.edu for more information.
>
> Sounds cool. I'd thought about doing a similar thing, taking posit
> reports and send them to the Garmin 45 as waypoints. It's nice that the
> Garmin allows 6 charaters for a waypoint name, just the right size for a
> callsign, though no SSIDs are possible.

I too had been thinking about this. Question: Is it possible to send
a serial command to the GPS-45 to REMOVE a waypoint when it is no
longer needed?

Regards,
Will, N3XLM

```
|================================================|
|  Dr. William I. Clement, President             |
|  Clement Engineering, Inc.                     |
|  1261 Dogwood Road, Arnold, MD  21012-2220     |
|  (office) 410.518.6591 / (sales) 410.268.6736  |
|  (FAX) 410.268.4612                            |
|  mailto:wclement@the-hermes.net                |
|  http://home.navisoft.com/agrelo/clement.htm   |
|================================================|
```

139. Re: Registered User, New Call Sign

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 6 Nov 1996 20:17:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961106201304.12965E-100000@arctic>
Rendered body type: text/plain

On Wed, 6 Nov 1996, someone wrote:

> Hi Bob! I am a registered APRS user (Wxxx). New Vanity Call Sign is
> YYYY. What do I need to do or, what do you need from me to received and
> new registration number to validate and save APRS setups?

APRSdos REPLY/COMMENT: Having received 4 of these TODAY, it is going to
be a significant burden. If you will look in the REGISTER.txt file, I
believe in recent versions of APRS, that the suggestred procedure is to

send I think it was $7 to my clerks (kids) and they will generate the new
numbers and the postcard...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

140. Re: [APRSSIG:6189] Guiding hand

From: rgervenack@juno.com (Robert W Gervenack)
Date: Wed, 6 Nov 1996 16:15:37 pst
To: aprssig@tapr.org
Message-ID: <19961106.161540.6567.0.rgervenack@juno.com>
Rendered body type: text/plain

Howdy
I am new at this also.
Someone will surely come forth to help you.
Good luck, 73, Gervie.

On Wed, 6 Nov 1996 09:25:48 -0600 (CST) "Matthew Kolade"
<kolade@algonet.se> writes:
>Pease Help! I am new on this level, and I am willing to learn. My
>fist
>machine is GPS-20, which I know more or less about. Please can
>someone
>give me a guiding hand? I am going to appreciate it
>
>thanks   =20
>
>Matthew Kolade
>Victory Int'l Reklam
>Fyrkl=F6versgatan 22, 417 21 G=F6teborg,
>Sweden
>E-MAIL: kolade@algonet.se
>
>
>

---

141. nodes

From: "DAVID MICHAEL GAYTKO   ***@***   FM15mm" <cn2859@coastalnet.com>
Date: Thu, 07 Nov 1996 08:56:37 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961107135637.0066a570@abaco.coastalnet.com>
Rendered body type: text/plain

am interested in monitoring aprs on vhf for propagation study, would like to
see a list of any digis say within
250 miles of Washington, NC. grid fm15mm.

also would like to know what setting would be necessary in the aprs program,
and what settings would be optimum
in my tnc to glean max info. (mfj 1278b) would also like to monitor
propagation on the hf bands.

also, anyone like to do some ms on 6/2/10m using aprs?

tks . ... 73's

david

```
 :::       :::  :::::::::       :::      :::    :::  :::::::::   :::::::::
 :+:       :+:  :+:    :+:     :+:       :+:   :+:  :+:    :+:  :+:    :+:
 +:+       +:+  +:+    +:+    +:+ +:+    +:+  +:+   +:+    +:+  +:+    +:+
 +#+  +:+  +#+  +#+    +:+   +#+  +:+    +#++:++     +#++:++#+   +#+    +:+
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  #+#+# #+#+#   #+#    #+#        #+#    #+#   #+#   #+#         #+#    #+#
   ###   ###    #########         ###    ###    ###  ###         #########
```

---

142. Re: GPS Antennas for the Garmin GPS-40

From: Jon Albers <74024.2000@CompuServe.COM>
Date: 07 Nov 96 10:18:21 EST
To: "INTERNET:aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <961107151820_74024.2000_BHT163-3@CompuServe.COM>
Rendered body type: text/plain

Has anyone had any experience with external antennas and the Garmin GPS-40?
It's a nice unit, but around my area, it's very hard to use inside a vehicle.

--Jon Albers, KA3OVK

143. Re: [APRSSIG:6199] Re: GPS Antennas for the Garmin GPS

From: schiers@ames.net
Date: Thu, 07 Nov 96 11:55:29 -0500
To: aprssig@tapr.org
Message-ID: <199611071758.LAA15879@tapr.org>
Rendered body type: text/plain

```
In <874751@bbs.ames.net>, on 11/07/96 at 09:13 AM,
   aprssig@tapr.org said:

>Has anyone had any experience with external antennas and the Garmin
>GPS-40? It's a nice unit, but around my area, it's very hard to use
>inside a vehicle.

>--Jon Albers, KA3OVK

The paccomm active antenna for about 50 bucks (really a Trimble), is a
steal. It peforms perfectly with the 40. You do have to put on your own
bnc...it comes with an SMB or SMA (can't keep them straight). Lots of
people I know are using it and Gwynn is providing them to the amateur
community at a significant discount. It is a tiny magmount antenna, like a
very small hockey puck. Must be mounted on a metal surface or it won't
perform. 73, hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

144. Re: [APRSSIG:6200] Re: GPS Antennas for the Garmin GPS

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Thu, 07 Nov 1996 11:32:27 -0800
To: aprssig@tapr.org
Message-ID: <3282394B.1CFB@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
schiers@ames.net wrote:
> The paccomm active antenna for about 50 bucks (really a Trimble), is a
> steal. It peforms perfectly with the 40. You do have to put on your own
> bnc...it comes with an SMB or SMA (can't keep them straight). Lots of
> people I know are using it and Gwynn is providing them to the amateur
> community at a significant discount. It is a tiny magmount antenna, like a
> very small hockey puck. Must be mounted on a metal surface or it won't
> perform. 73, hasan schiers, N0AN--

Not so! I tape mine to the top of my riding helmet when trail riding and
it performs just fine.  By the way, the price is now $65 + s/h. The $50
was an introductory price.

--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

145. Re: [APRSSIG:6201] Re: GPS Antennas for the Garmin GPS

From: schiers@ames.net
Date: Thu, 07 Nov 96 12:52:49 -0500
To: aprssig@tapr.org
Message-ID: <199611071854.MAA18400@tapr.org>
Rendered body type: text/plain

```
In <875142@bbs.ames.net>, on 11/07/96 at 12:37 PM,
   aprssig@tapr.org said:

>Not so! I tape mine to the top of my riding helmet when trail riding and
>it performs just fine.  By the way, the price is now $65 + s/h. The $50
>was an introductory price.

You must be one of those guys with an old war injury and have a metal
plate in your head...that would 'splain it. (my sorry attempt at sick
humor)

Or maybe a distant cousin of Craig "IronHead" Heyward (NFL)?

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

146. Re: [APRSSIG:6200] Re: GPS Antennas for the Garmin GPS

From: Michael Malloy <mmjjmm@post.its.mcw.edu>
Date: Thu, 7 Nov 1996 13:01:46 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.ULT.3.90.961107130028.7826B-100000@post.its.mcw.edu>
Rendered body type: text/plain

```
Can you tell me where I can reach Gwynn regarding this antenna. The 40
does not use a bnc. Would it require a new connector?


Michael J. Malloy                          Amateur Radio: N9WJV
Medical College of Wisconsin               Voice: 414-384-2000 Ext.2129
Milwaukee, Wisconsin                       Email: mmjjmm@post.its.mcw.edu
```

---

147. Re: [APRSSIG:6201] Re: GPS Antennas for the Garmin GPS

From: Michael Malloy <mmjjmm@post.its.mcw.edu>
Date: Thu, 7 Nov 1996 13:06:46 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.ULT.3.90.961107130559.7826D-100000@post.its.mcw.edu>
Rendered body type: text/plain

```
Did you have to install a special connector to make it work on the Garmin
40. Where is Gwynn. I would like to give them a call.


Michael J. Malloy                          Amateur Radio: N9WJV
Medical College of Wisconsin               Voice: 414-384-2000 Ext.2129
Milwaukee, Wisconsin                       Email: mmjjmm@post.its.mcw.edu
```

---

148. Re: [APRSSIG:6200] Re: GPS Antennas for the Garmin GPS

From: "Paul W. Burke" <pwburke@imperium.net>
Date: Thu, 07 Nov 1996 14:09:48 -0500
To: aprssig@tapr.org
Message-ID: <328233FC.4EBF@imperium.net>
Rendered body type: text/plain

```
schiers@ames.net wrote:
>
> In <874751@bbs.ames.net>, on 11/07/96 at 09:13 AM,
>    aprssig@tapr.org said:
>
> >Has anyone had any experience with external antennas and the Garmin
> >GPS-40? It's a nice unit, but around my area, it's very hard to use
> >inside a vehicle.
>
> >--Jon Albers, KA3OVK
>
> The paccomm active antenna for about 50 bucks (really a Trimble), is a
> steal. It peforms perfectly with the 40. You do have to put on your own
> bnc...it comes with an SMB or SMA (can't keep them straight). Lots of
> people I know are using it and Gwynn is providing them to the amateur
> community at a significant discount. It is a tiny magmount antenna, like a
> very small hockey puck. Must be mounted on a metal surface or it won't
> perform. 73, hasan schiers, N0AN--
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------Where do I order it from?
Telephone number would be nice.

Thanks,

Paul
KB8VAS
```

---

149. Re: [APRSSIG:6205] Re: GPS Antennas for the Garmin GPS

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Thu, 07 Nov 1996 20:55:36 GMT
To: aprssig@tapr.org
Message-ID: <32824c77.16358587@mail.mergetel.com>
Rendered body type: text/plain

```
this should answer your questions de ron VE3MX..


On Thu, 7 Nov 1996 13:14:58 -0600 (CST), you wrote:


>> -----------------------------------------------------------Where do I order it from?
```

>Telephone number would be nice.
>
>Thanks,
>
>Paul
>KB8VAS
From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 10 Oct 1996 09:13:00 -0500 (CDT)

800-486-7388 or sales@paccomm.com or fax 813-872-8696.

Note: Introductory price of $50 no longer in effect. Price now $65
plus
shipping, but it is still one of the best antennas and best deals
around.

From: John W. Kozak[SMTP:jkozak@erols.com]
Sent: Thursday, October 10, 1996 3:47 AM
To: aprssig@tapr.org
Subject: [APRSSIG:5511] Re: Trimble GPS antenna

73 de Ron   Best Regard
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

150. Re: [APRSSIG:6203] Re: GPS Antennas for the Garmin GPS

From: jkozak@erols.com (John W. Kozak)
Date: Thu, 7 Nov 1996 15:12:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611072012.PAA10381@smtp2.erols.com>
Rendered body type: text/plain

Garman's external antenna, model GA 27, made for the GPS40 has a MCX
connector, whatever that is. You may want to consider that antenna because
of the connector. Check out www.navtechgps.com. They have it. It's more
money than the trimble but does have the proper connector. I have the
trimble antenna from Paccom on my Garmin GPS 90 and it works great. I used
an Amphenol 31-315-RFX crimp-on BNC for RG-174 that works fine with it.

JWK

>Can you tell me where I can reach Gwynn regarding this antenna. The 40
>does not use a bnc. Would it require a new connector?
>
>
>Michael J. Malloy   Amateur Radio: N9WJV
>Medical College of Wisconsin   Voice: 414-384-2000 Ext.2129
>Milwaukee, Wisconsin   Email: mmjjmm@post.its.mcw.edu
>
>
>
>
>

151. Re: [APRSSIG:6205] Re: GPS Antennas for the Garmin GPS

From: Joe Agrelo <jagrelo@cris.com>
Date: Thu, 07 Nov 1996 15:18:53 -0800
To: aprssig@tapr.org
Message-ID: <32826E5D.72C6@cris.com>
Rendered body type: text/plain

Paul W. Burke wrote:

> > The paccomm active antenna for about 50 bucks (really a Trimble),
> Telephone number would be nice.
>
> Thanks,
>
> Paul
> KB8VAS

Try PacComm's web site at http://www.paccomm.com

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President

```
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

152. Re: [APRSSIG:6205] Re: GPS Antennas for the Garmin GPS

From: jkozak@erols.com (John W. Kozak)
Date: Thu, 7 Nov 1996 15:19:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611072019.PAA11274@smtp2.erols.com>
Rendered body type: text/plain

```
>Has anyone had any experience with external antennas and the Garmin
>> >GPS-40? It's a nice unit, but around my area, it's very hard to use
>> >inside a vehicle.
>>
>> >--Jon Albers, KA3OVK
>>
>> The paccomm active antenna for about 50 bucks (really a Trimble), is a
>> steal. It peforms perfectly with the 40. You do have to put on your own
>> bnc...it comes with an SMB or SMA (can't keep them straight). Lots of

snip


Try www.paccomm.com I don't know their phone # offhand.


-----------------------------------------------------------Where do I order
it from?
>Telephone number would be nice.
>
>Thanks,
>
>Paul
>KB8VAS
>
>
>
```

---

153. Re: [APRSSIG:5683] Re: Hercules Monitor & APRS

From: tcweeden@execpc.com (Tom Weeden)
Date: Thu, 07 Nov 1996 14:21:01 -0500
To: aprssig@tapr.org
Message-ID: <199611072021.OAA10264@mail.execpc.com>
Rendered body type: text/plain

```
>I went through about 10 CGA emulators and finally found one called
>"COLOR.COM"
>that works with aprs and hercules -If you cannot find this I have it here
>someplace
>73 de Dale kg5qd
>
========================================================================
Hi Dale,

  Could you either e-mail me the COLOR.COM emulator program or post it on
the TAPR FTP site?  Thanks!!

-73- Tom WJ9H
--Tom Weeden, WJ9H
  South-Central Wisconsin SKYWARN Net Manager

  APRS: !4301.38N/08929.95W
```

---

154. Army/Navy football tracking

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 7 Nov 1996 16:37:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961107162846.15167A-100000@arctic>
Rendered body type: text/plain

```
If you have access to an FM receiver or downconverter that will permit you
to tune a weak signal in the 250 to 260 MHz range please let me know.
WIth it, you may be able to track our two GPS chase vehicles on the
evening of 6 December during the annual running of the Army Navy game ball
between Annapolis and Philadelphia (128) miles.  You dont have to be on
the East Coast to participate.
```

---

155. Re: [APRSSIG:6211] Army/Navy football tracking

From: TCox17892@aol.com
Date: Thu, 7 Nov 1996 17:16:09 -0500
To: aprssig@tapr.org
Message-ID: <961107171607_1714420372@emout13.mail.aol.com>
Rendered body type: text/plain

```
In a future year, perhaps you will be able to track the ball during the game.
```

---

156. APRS Pacific Station

From: bbliss@juno.com (William B. Bliss)
Date: Thu, 07 Nov 1996 18:10:13 EST
To: agibbons@gatepoly.co.ck
Cc: aprssig@tapr.org
Message-ID: <19961107.142754.2303.0.bbliss@juno.com>
Rendered body type: text/plain

```
Hi Arnold/ZK1DB
   Copied yours off aprssig 11/1/96..

Am a west coast APRS HF gateway station on air daily,
located 2 blocks from Pacific Ocean 3727.39N/12226.29W
Half Moon Bay, Ca. just south of San Francisco. Run only
100w Knwd TS440at, with Kam Plus+, into an Inverted V, cut to
30M about 25' high at center. If the solar sun and propagation
allow you might hear me occasionally up on APRS. Usually from
1500Z thru 0400Z (7AM to 9PM PST). I could get on air about
12-1300Z (early AM) if you think it would help.

We had some Hawaii stations up on APRS (0200-0300Z)
WH6YC/DAVE but he is in Washington state now, and don't know
if any other Hawaii's that are on now.

I sent an APRS Disk to Jim/KE6RK S/V Heart of Gold, back in
Aug/95 and some packet messages about APRS. They were in
Naiviivi Bay, Qamea, Fiji at the time. Never did get an
acknowledgment of receiving the disk, nor any more packet
info msgs from them via Pactor station W7DCR. They mentioned
your amtor MBO and call in one msg. This all last year when
the WX FAX broadcasts were going off air. Their back now.

We do have one APRS MAP "PACSOUTH.MAP" within MAPLIST.HI centered
posit 19.27S/142.45W, which includes Cook Isl., Societies,
Tuamotu, Australes, Marquesas, so look for that map of your
area. Map made by Ken/W7KKE and am sure he would make some
specific smaller local area maps, if we can get some charts of
area you mite want if on his USGS CD-ROM disk. Or we could get
some maritime charts.

Send me the Pactor frequencies you operate on, and specific
times can try and QSO with you. Also FYI, KG6DV on 14065 has
a MBX set up for Maritime Mobiles, and you may be able to QSO
with that station, am told has good coverage throughout the
Pacific, many MM2's drop their traffic their. Also listen for
Bill/KB6LFM (here in SFran area) on 14065 quite often after
1900Z..They are not on APRS however.

Do you have access to the tapr.org to download APRS files,
versions and maps. Can help you out and mail you disks if
necessary, send me your mailing address. Any other type of
help, let me know.
    73's & Enjoy, Bill/WB6LPG@KE6WVQ.#NOCAL.CA.USA., or
bbliss@juno.net or wbliss@coastside.net


NNNN
```

---

157. GPS-20 HELP !!

From: Robert Krasowski <kb2pnm@escape.com>
Date: Thu, 7 Nov 1996 20:53:25 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.BSI.3.91.961107203425.5611A-100000@escape.com>
Rendered body type: text/plain

```
I have just bought GPS-20 from TAPR, and Trimble antenna. After
connecting both units together I am getting everything out exept my
position. I have tried  power on for about 3 hours and nothing. My $GPGGA
sentens is giving me only time and space for position but no position
yet. I checked my antenna it's taking about 20mA from the GPS but why
I am not getting any position? Off course I had a problem with the
connector and still this is not solved. Does anybody know what is wrong
with my GPS? Where can I buy connector for GPS and Trimble antenna. I
will appreciate any advise or suggestion.  Thanks, Robert KB2PNM.
```

```
J
^c
^g

J ^j ^J q q q q ^Q NO CARRIER
```

---

158. Re: [APRSSIG:6214] GPS-20 HELP !!

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 7 Nov 1996 20:09:49 -0600
To: aprssig@tapr.org
Message-ID: <v03007803aea84597cc7b@[199.1.11.155]>
Rendered body type: text/plain

```
>       I have just bought GPS-20 from TAPR, and Trimble antenna. After
>connecting both units together I am getting everything out exept my
>position. I have tried  power on for about 3 hours and nothing. My $GPGGA
>sentens is giving me only time and space for position but no position

You may need to power on and off a few times.
SEE several old postings about this.

1. what power supply are you using ?

2. Test with a version of APRS or the sigplot basic program if
   you are a dossie ( I am a MACcie :-) I am a WINnie also
   but not because of a computer platform.

3. You have got to do #2 so you can tell us the sig level you see.

4. If you watch the APRS sky map "all will be make clear".


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

159. Re: [APRSSIG:6191] TAWG FALL APRS CONFERENCE 1996 SUMMARY

From: Doug Bade <baded@nacs.net>
Date: Thu, 07 Nov 1996 22:20:37 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961107221951.006a282c@nacs.net>
Rendered body type: text/plain

```
I am leaving in am for AMSAT conference, so I cannot answer all the email's
I have received directly.. I will when I get back.
        I have 25 GE CENTURY II xtal controlled 30 w 144-174 capable radio's. they
are one piece 12v dc. radio's. I can provide as is on 158 mhz, as-is with
xtals
and/or tuned on freq. 10-15 working days for xtals. I am a tech, but they
are mine personally. I will sell at 75.00, 100.00 and 125.00 in the above
conditions. 1200 baud, and seem to even be able to do 9600 with tweaking.
They are not for plug and play, off the shelf type's.. they are commercial
```

with commercial narrowband specs.
 good imunity to IMD etc. but were not delivered for ham packet radio.
Connectors
need to be crimped, molex type inline connectors. Docs available, manuals
may be copied for those who need . They are not cuurent, and I do not
beleive factory info is still avail. Very serviceable by local ge shops,
they were simple radio's to use,and maintain. I may be able to provide
radio to tnc cables for addt'l charge for those who need.
        PLEASE private email if you need further info, Sorry for using the
bandwidth. These are a personal project of mine for APRS, and packet, I
hope they will be helpful at this price..
        As for My Stand Alone Tracker Interface, more details when I get back next
week. basically it is a stamp II project that intercepts gps data to tnc
and modifies beacon timing in 5 steps from 30 sec's to 20 mins based on
speed 0-100 mph. It has tactical callsign, APRS symbology support, set able
unproto, and Legal ID call sign/free form id.. Parts available for advanced
builders now, kit in future for others... stamp in raw form prog. 65.00 +
shipping., kits will be more.
hope to do my own ax25, and remove need of tnc for radio interface. I have
operational prototypes at this time.. Hope to make easy flash type code
upgrade
available in future. BTW they are user programmable with above options ...

>TAWG FALL APRS CONFERENCE 1996 SUMMARY
>
>On 26 OCT 96, the Tri-State APRS Working Group (TAWG) sponsored the Fall APRS
>Conference. Approximately 25 people attended.
>
>Doug, KB8GVQ, explained a project he has been working on over the past few
>months. Called the Standalone Tracker Interface (STI), Doug□s device may
>interest those of you that go APRS/GPS mobile. Among many of the bells and
>whistles, the STI has a speed controlled beacon. Doug observed a problem
>with all the packets flying around from parked vehicles sending out too many
>packets. Doug□s device controls the beacons with information from your GPS.
> The STI is set up via a computer port. The STI works with any TNC. Doug
>also has some 30 watt radios on 145.79 MHz for sale. These radios have been
>taken out of commercial service and put on 145.79 MHz for APRS use. Doug can
>be reached at baded@nacs.net.
>
>Respectfully submitted,
>Sid
>AH7E
>For more information about the TAWG Fall APRS Conference or about TAWG,
>please send e-mail to:
>AH7E@aol.com

Doug Bade VP, Operations
Cleveland Communications Inc.
baded@nacs.net
216-398-6500 daytime, 216-741-4329 Fax
Packet at   KB8GVQ @ KB8GVQ.#NEOH.OH.USA.NOAM

---

160. Re: [APRSSIG:6211] Army/Navy football tracking

From: Jim Conrad <jjc@infi.net>
Date: Thu, 7 Nov 1996 23:38:33 -0500 (EST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19961107233855.40671af6@mailhost.infi.net>
Rendered body type: text/plain

At 03:37 PM 11/7/96 -0600, Bob Bruninga wrote:
>If you have access to an FM receiver or downconverter that will permit you
>to tune a weak signal in the 250 to 260 MHz range please let me know.
>WIth it, you may be able to track our two GPS chase vehicles on the
>evening of 6 December during the annual running of the Army Navy game ball
>between Annapolis and Philadelphia (128) miles. You dont have to be on
>the East Coast to participate.

Bob,

What freqs are you going to be using and what bird ?

```
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

---

161. John Dent Haynes

From: Ronald Oblinger <ronald@cyberstreet.com>
Date: Thu, 07 Nov 1996 23:46:20 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961108044620.006997b4@mail.cyberstreet.com>
Rendered body type: text/plain

John I sent a small check to cover the cost of the APRS disc and the postage but it was returned by a John Dent RR 4 7331, Hilliard. He said there are about 300 Haynes in the area but he was not the fellow I was looking for. If you can anwer me with a new address I will be happy to try again. Thank you for you courtesy John. It was much appreciated.

kd4ams/ron
ronald@cyberstreet.com
73 cu Ron"KD4AMS"

---

162. registration

From: ke6nyt@fishnet.net (Dan Dicke)
Date: Thu, 7 Nov 1996 22:56:19 -0800
To: aprssig@tapr.org
Message-ID: <199611080656.WAA05178@big.fishnet.net>
Rendered body type: text/plain

A couple of weeks ago, someone asked if he could register on the net with a credit card and I never saw an answer. I am the packet Coordinator for Ventura County Ca. ARES/RACES and I am trying to get started in APRS so that we can use it for our events. I want to register the software and for the GPS side also. I have 77d or whatever, so I don't need the files. I am going to Vandenburg Air Force base 16 and 17 November for a search and rescue symposium and we are going to discuss and use APRS for the drills that we will do on Sunday.

Thanks for your time.

73
Dan Dicke
KE6NYT@FISHNET.NET
(805) 983-1401

PS. When I run APRS, I see stuff in San Diego and a WIDE in Pasadena, but I keep getting packet not acknowledgeed or seen or what ever the error is.
Any IDEAS?????

---

163. Picopacket

From: Bob Sayers <EPU@wmfs.telme.com>
Date: Fri, 08 Nov 1996 09:32:29 GMT
To: aprssig@tapr.org
Message-ID: <225187@tmrelay.prod.phonelink.com>
Rendered body type: text/plain

Even this length of time after it's introduction, I'm still having great difficulty (read "impossibility") in obtaining a PicoPacket in the UK to the specification which I want (dual port, with battery pack). I'm particularly keen to use a Pico since it needs to fit into the space in a portable APRS / Ultimeter / GPS45 / TNC / radio unit which was formerly occupied by a Handipacket - any other TNC is going to need a fairly major redesign, and may not allow space for all the items.

Is there anyone on the SIG who might have a Pico to this spec which they might want to sell, or even anyone who might be visiting the UK in the next couple of months who might be interested in bringing one over - think how you'd be helping spread the APRS message in the UK and Europe!

I'd also be very interested to hear any comments from anyone using this spec of Pico, particularly anyone who is also using it with external modem for 9600. Replies to epu@wmfs.telme.com   please, not via the SIG.

Thanks!

Bob, G8IYK

---

164. Re: [APRSSIG:6218] John Dent Haynes

From: wa4mej@juno.com (john w dent)
Date: Fri, 8 Nov 1996 07:29:14 PST
To: aprssig@tapr.org
Message-ID: <19961108.072935.11631.0.wa4mej@juno.com>
Rendered body type: text/plain

hi ron
i did not know what the check was for and the name was not correct .. hi
hi..
i do thank you for the effort .
i do or have sent out a lot of disk's (APRS) .. so it does help ..

the correct name and add. is

JOHN W. DENT
RR 4 BOX 7331
HILLIARD,FL 32046-9806

THE OLD WAS RT 1 BOX 169-F
HILLIARD, FL 32046

the post office changed all of the address   just getting too many people
out here in the woode hi hi.
73
john/wa4mej

---

165. (no subject)

From: Leroy.Lawhorn@275-17.usbbs.com Fri Nov 08 06:34:12 1996
Date: Fri, 8 Nov 1996 07:34:08 -0500 (EST)
Message-ID: <199611081234.HAA22319@bsd6.usbbs.com>
Rendered body type: text/plain

>From 275-17!leroy.lawhorn 08 Nov 96 07:04:16 -0500 remote from usbbs
Received: by usbbs.com (0.99.960714)
  id AA01094; 08 Nov 96 07:04:16 -0500
From: Leroy.Lawhorn@275-17.usbbs.com (Leroy Lawhorn)
Date: 07 Nov 96 23:10:00 -0500
Subject: NEW FILES
Message-ID: <984_9611080704@usbbs.com>
Organization: WoodyWare Software, Inc.
To: aprssig@tapr.org

I have APRS77D.ZIP and WAPRS112.ZIP on my bbs. It is W4VIW's BBS located in
Greenville, SC @ 864-299-6185

Thanks for reading this post.

73 LeRoy SySop & UFOlogist

--- WILDMAIL!/WC v4.12
 # Origin: W4VIW's BBS 864-299-6185 Greenville, SC USA (73:1320/1.0)
--
|Internet: Leroy.Lawhorn@275-17.usbbs.com
|
| E-Mail Services - www.usbbs.com

---

166. local 32 mile radius map

From: ke6nyt@fishnet.net (Dan Dicke)
Date: Fri, 8 Nov 1996 07:53:43 -0800
To: aprssig@tapr.org
Message-ID: <199611081553.HAA13668@big.fishnet.net>
Rendered body type: text/plain

Bob,
  On the registration form, there is a Local 32 mile radius map similar to
the quality of a state highway map. I take that as it will show the
highways through the area and not all the streets/roads? We are trying to
get Ventura County, Ca up and running in APRS. I am the ARES/RACES packet
coordinator for the county and I am trying to get things rolling. We have a
lot of mountains and hiking areas in the county, and I wanted to know how
detailed the map was, to we=hether or not we should get one for the laptop
in our emergency communications trailer or not.

I mailed my reg and GPS reg today. I hope that I can get my validation
number soon. We are having a search and rescue symposium on the 16 and 17
of Nov at Vandenburg Air Force base that was a lot of fun last year. We are
going to have a class/presentation on APRS on Saturday, and then try to use
it on Sunday during the field exercise. Any input is much appreciated.

73
Dan Dicke
KE6NYT

167. Re: [APRSSIG:6219] registration

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 8 Nov 1996 10:41:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961108104014.11698K-100000@arctic>
Rendered body type: text/plain
```

```
On Thu, 7 Nov 1996, Dan Dicke wrote:


> A couple of weeks ago, someone asked if he could register on the net with a
> credit card and I never saw an answer.

APRSdos REPLY/COMMENT:    Nope, just send a check to the address shown on
the title page or F1-V screen for APRSdos, or follow instructions as
needed in Win and MacAPRS docs..

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

168. Re: [APRSSIG:6223] local 32 mile radius map

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 8 Nov 1996 10:53:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961108105038.11698M-100000@arctic>
Rendered body type: text/plain
```

```
On Fri, 8 Nov 1996, Dan Dicke wrote:

>   On the registration form, there is a Local 32 mile radius map similar to
> the quality of a state highway map.  I take that as it will show the
> highways through the area and not all the streets/roads?  We are trying to
> get Ventura County, Ca up and running in APRS.  I am the ARES/RACES packet

APRSdos REPLY/COMMENT:  I make those maps from the 2,000,000 scale CD ROM
and most current APRS distiributions already have maps to that scale.  So
you wouldnt gain anything.  Contact your Calif APRS map coordinator to see
if better maps exist for your area.  He is W7KKE in Foster CIty, CA.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

169. Re: [APRSSIG:6211] Army/Navy football tracking

```
From: "Paul Gilmore" <pgilmore@beachnet.org>
Date: Fri, 8 Nov 1996 11:08:53 -0500
To: <aprssig@tapr.org>
Message-ID: <m0vLtVe-0000B7C@beachnet.org>
Rendered body type: text/plain
```

```
Hi Bob:
I am able to tune the 250-260 MHz range. Is being in Toronto any help to
you.
Probably to far away from your area, anyway let me know....
Yours Paul/VA3PRG

 Paul Gilmore 416-447-7964(voice) 416-447-8868(fax)
 AX25 VA3PRG@VA3BBS.#SCON.ON.CA.NA
 EMAIL  pgilmore@beachnet.org
```

---

170. Re: [APRSSIG:6217] Re: Army/Navy football tracking

```
From: Bob Sayers <EPU@wmfs.telme.com>
Date: Fri, 08 Nov 1996 16:34:30 GMT
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <225623@tmrelay.prod.phonelink.com>
Rendered body type: text/plain
```

```
>At 03:37 PM 11/7/96 -0600, Bob Bruninga wrote:
>>If you have access to an FM receiver or downconverter that will permit you
>>to tune a weak signal in the 250 to 260 MHz range please let me know.
>>WIth it, you may be able to track our two GPS chase vehicles on the
>>evening of 6 December during the annual running of the Army Navy game ball
>>between Annapolis and Philadelphia (128) miles.  You dont have to be on
>>the East Coast to participate.
>
>Bob,
>
>What freqs are you going to be using and what bird ?
>
```

Presumably the footprint only covers North America?

Bob, G8IYK

---

171. When I press "S"

From: David McCarthy <davidmc@goodnet.com>
Date: Fri, 08 Nov 1996 13:31:04 -0700
To: aprssig@tapr.org
Message-ID: <32839884.6565@goodnet.com>
Rendered body type: text/plain

```
I am running DosAPRS.  Most of the time it is on a 286 portable at
home.  When I go portable, I use a Pentium Win95 laptop.  For some
reason, it runs different in Win95.  When I press "S" to send a message
or F2 to reply, a dialog/help box keeps appearing and replaces the map.
The info was helpful the first time, but I don't need it everytime.  I
like the way it works in Dos with just the line at the bottom of the
map.  Anybody got an idea why this is happening?
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

---

172. Re: [APRSSIG:6219] registration

From: Barbara Fehner <fehner@cts.com>
Date: Fri, 08 Nov 1996 13:27:16 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961108212716.006ebab0@mail.cts.com>
Rendered body type: text/plain

```
Dan, what path are you using and which wide is stronger at your QTH; the
San Diego wide KI6MP-10 or the Pasadena wide NW6H-10?

Barbara  KK6IB
E-Mail: fehner@cts.com    Oceanside, Ca.

____________________________________________________________________________
At 11:51 PM 11/7/96 -0600, you wrote:
>A couple of weeks ago, someone asked if he could register on the net with a
>credit card and I never saw an answer.  I am the packet Coordinator for
>Ventura County Ca. ARES/RACES and I am trying to get started in APRS so that
>we can use it for our events.  I want to register the software and for the
>GPS side also.  I have 77d or whatever, so I don't need the files.  I am
>going to Vandenburg Air Force base 16 and 17 November for a search and
>rescue symposium and we are going to discuss and use APRS for the drills
>that we will do on Sunday.
>
>  Thanks for your time.
>
>73
>Dan Dicke
>KE6NYT@FISHNET.NET
>(805) 983-1401
>
>PS.  When I run APRS, I see stuff in San Diego and a WIDE in Pasadena, but I
>keep getting packet not acknowledgeed or seen or what ever the error is.
>Any IDEAS?????
>
>
>
```

---

173. TNC's

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 08 Nov 1996 16:20:15 -0800
To: aprssig@tapr.org
Message-ID: <3283CE3F.1952@concentric.net>
Rendered body type: text/plain

```
Since packet as a whole is dead in Madison county of North Alabama, and
i'm no longer running APRS I have several TNC's for sale or trade, the
list is as follows:

(2) KPC-3's with GPS, I believe the latest rom's
(1) PacComm Handi Packet, Also the latest rom's i believe, battery in
    good shape.
(1) PacComm Tiny-2 MK-2 Also with the latest rom i believe.
(1) DRSI DPK-2 Does not have the GPS function.
```

```
The Handi Packet can come with a ready made cable for a Alinco DR-1200.
The KPC3 can come with a ready made cable for a Alinco DR-130.

If interested, make an offer. Please e-mail private and not to the sig.

--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

174. RE: [APRSSIG:6223] local 32 mile radius map

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Fri, 8 Nov 96 23:45:08 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199611082345550354@msn.com>
Rendered body type: text/plain

```
For Dave Dike:
   Suggest you contact Jon Kaplan, KO6XS in Malibu.  He was beta tester of my
mk100k mapping program than makes street level maps.  He was making
them in support of local ARES efforts
e-mail was JKaplan6@aol.com

73 Jack, KB4XF
cjcavanagh@msn.com
```

175. Garmin 31

From: Clarke_Tom%PAX6@mr.nawcad.navy.mil
Date: Fri, 08 Nov 1996 14:56:00 -0400 (EDT)
To: APRSSIG@tapr.org
Message-ID: <PAX6/A0004875/P04/PAXMB1*@MHS>
Rendered body type: text/plain

```
Does anyone know if the 31 has that pesky 99 knot inhibit function?  I would
like to occasionally use one in an aircraft that routinely exceeds 99 knots
while still on the takeoff roll!

Tom Clarke W4OKW  (fclarke@erols.com) or clarke_tom%pax6@mr.nawcad.navy.mil
```

176. Re: [APRSSIG:6225] Re: local 32 mile radius map

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 08 Nov 1996 19:56:23
To: aprssig@tapr.org
Message-ID: <199611090057.TAA29033@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Fri, 8 Nov 1996 Bob Bruninga replied to Dan Dicke's posting:

>>On the registration form, there is a Local 32 mile radius map
>>similar to the quality of a state highway map.  I take that
>>as it will show the highways through the area and not all the
>>streets/roads?
> We are trying to
>
>APRSdos REPLY/COMMENT:  I make those maps from the 2,000,000
>scale CD ROM ... Contact your Calif APRS map coordinator to
>see if better maps exist ...

     And if you look at the TAPR FTP upload area you'll find a
series of maps called (I think) calif06.zip and nocal.zip.  All
there for the uploading.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

177. Re: [APRSSIG:6230] TNC's

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 08 Nov 1996 19:57:12
To: aprssig@tapr.org

Message-ID: <199611090057.TAA07911@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Fri, 8 Nov 1996 William Nolle wrote:

>Since packet as a whole is dead in Madison county of North
>Alabama, and i'm no longer running APRS ...

Aw, c'mon Bill. We all know you've got thicker skin than that. Just because somebody (I'm sure) temporarily locked you out is no reason to throw in the towel and give up! Be bigger than that and stick around. Your input here and as a knowledgeable APRS operator in your local area has been informative, even though it's occasionally somewhat less than totally courteous at all times ;-{)

There are plenty of people that would be glad to see you pack your bags and crawl into your little shell but I'm thinking of all the hundreds of maps you made for people, all those who wanted to subscribe (or unsubscribe) to the SIG whose hand you held and led in the right direction. And what about reams of valuable advice and information passed right here on this SIG, not to mention the many people who've found APRS help via your web and mentors' pages? You may not be universally appreciated but I, at least, count your participation here and on the air as a valuable asset to APRS ... one which we all would be worse off without, despite the ribbing, flamewars and arguments. Without conflict we do not grow as humans and this is the nature of the human condition.

So go and sell your TNC's. Resign from the SIG. Remove your callsign from the digital domains of the airwaves. While you're at it, donate your H-T's to a local ARES/RACES group. Pick up a few bucks for the HF rig and, just for good measure, take the good VHF/UHF multi-mode, kilobuck rig and take an axe to it. Yeah. That'll make you feel REAL good!

Fer cripes sake, stop wallowing in what is obviously self-pity and rejoin us here. You have value to most of us and your self-imposed exile will do nobody any good, especially YOU!

And to all those who'd say to Bill "Good bye, and good riddance," try to look between the flames to see some of the gems Bill has bestowed on us in the past. His Web page has given us many new operators. His Mentors' page have given THEM someplace to get a good start with APRS.

I remember an old saying: "If you have nothing nice to say, don't say anything!" This goes for Bill's naysayers as well as for Bill! This is supposed to be a forum for the advancement of APRS knowledge, theory and ideas, not someplace for some of us to throw rotten tomatoes at each other. If you insist on engaging in flame wars then, by all means, WRITE the flame. Then re-read it the next day. When doing so, put yourself in the other guy's shoes. Some other guy with real thin skin. See how YOU'D feel if you were the recipient of that message. If you still feel the same way, send it via PRIVATE e-mail. Don't air your dirty laundry in public. None of us want to waste our time reading such trash, as that's not why we're here.

We're on the verge of losing a valuable asset to the SIG based on a few individuals' pettiness. Shall we sink to the level of the usenets? Or shall we be grownups about it?

Okay, I've got my asbestos breeches on. Ready for any takers. I'm usually a little more genteel than this here on the SIG, but feel strongly about this. I'm the first to agree that Bill sometimes grates on the nerves, but he serves us as best he can. How's about it? 73

Arte Booten <N2ZRC@gnn.com>

---DON'T BEGIN WINMAIL.DAT!---

---

178. Re: [APRSSIG:6230] APRSSIG digest 760

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 8 Nov 1996 19:55:53 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aea990e7fff9@[208.134.134.42]>
Rendered body type: text/plain

>Date: Thu, 7 Nov 1996 20:09:49 -0600
>From: Robert Winingham <kc5ejk@onramp.net>
>To: aprssig@tapr.org
>Subject: Re: GPS-20 HELP !!
>Message-ID: <v03007803aea84597cc7b@[199.1.11.155]>
>
>>   I have just bought GPS-20 from TAPR, and Trimble antenna. After
>>connecting both units together I am getting everything out exept my
>>position. I have tried power on for about 3 hours and nothing. My $GPGGA
>>sentens is giving me only time and space for position but no position
>
>You may need to power on and off a few times.
>SEE several old postings about this.
>
>1. what power supply are you using ?
>

To followup on this -- we just generated a new page in the TAPR GPS area
that discusses building three different power supplies for the GPS-20.

We are discussing doing a simple board now that takes either the 7805 or
the powertrends module to have available for those that want a simple to
build solution. If you havn't looked at it, the Power Trends allows you to
run off batterys. Very nice solution.

The web page is:
http://www.tapr.org/gps/pwrsup.html

Cheers - Greg, WD5IVD

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

179. Re: [APRSSIG:6215] Re: GPS-20 HELP !!

From: Robert Krasowski <kb2pnm@escape.com>
Date: Fri, 8 Nov 1996 21:54:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.91.961108214947.2547A-100000@escape.com>
Rendered body type: text/plain

Thanks Robert for your suggestions, I will try to do few on-off tricks. I
am using ICI 7805 that is giving me 5V from 5-30V (I am planing to use
my GPS as a Tracker from the car).
Thanks again and I will let you know if those tricks work in my GPS. 73
Robert
On Thu, 7 Nov 1996, Robert Winingham wrote:

> >   I have just bought GPS-20 from TAPR, and Trimble antenna. After
> >connecting both units together I am getting everything out exept my
> >position. I have tried power on for about 3 hours and nothing. My $GPGGA
> >sentens is giving me only time and space for position but no position
>
> You may need to power on and off a few times.
> SEE several old postings about this.
>
> 1. what power supply are you using ?
>
> 2. Test with a version of APRS or the sigplot basic program if
>   you are a dossie (I am a MACcie :-) I am a WINnie also
>   but not because of a computer platform.
>
> 3. You have got to do #2 so you can tell us the sig level you see.
>
> 4. If you watch the APRS sky map "all will be make clear".
>
>
> 73
>
> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
>

```
>
>
```

180. Gnarly Nolle

From: "Peter Markham" <pmarkham@up.net>
Date: Fri, 8 Nov 1996 23:33:23 -0400
To: aprssig@tapr.org
Message-ID: <9611090431.AA18562@btc1>
Rendered body type: text/plain

```
William,
                As one of the first to give you serious gas, your
presence will be missed by me. You have contributed much
that is constructive, to APRS and this sig, much more than
many others with better bedside manners  ;-)

   I wish you well.

                                 Pete/wa4hei


  The meek will not inherit the Earth.
```

181. Vacation Auto-Reply for APRS

From: rwf@mindspring.com
Date: Sat, 09 Nov 1996 07:23:20 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961109071454.006e6de4@mindspring.com>
Rendered body type: text/plain

```
Bob-

I just returned from another road trip. (met some nice Houston-Clear Lake
area APRSers too). I leave the computer on while I am gone, because I send
U-II info into the local APRS network.

I had a screen full of messages from other users who thought I had been
home. No telling how many people had gotten REJ messages as well.  One user
was apprehensive because he thought I was ignoring him as well.

What about a phrase we can enter that is automatically sent back in
response to a MSG (not a BLN).  It would be like the Vacation Message that
Internet providers let you set.  If I received a message, it could log the
msg in the log and then send the prepared phrase.  I would have used  "Will
not be at terminal until 11/6. Pls try then" or something like that.

This way folks know you are not ignoring them, you just can't see them
right now.

Thanks

Ralph Fowler
Atlanta
rwf@mindspring.com
```

182. PicoPacket w/Trimble S-vee Six, $GPRMC & $GPVTG

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 09 Nov 1996 08:37:06
To: aprssig@tapr.org
Message-ID: <199611091337.IAA21855@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

     PaccComm has done it again.  As many of you know, they are
one of the few manufacturers that are responsive to our needs &
requests (quirky as they sometimes are) than some of the larger
companies out there.  We wanted small TNC's, they gave us one.
We wanted one with a second serial port for our GPS, we got it.
We asked for one with a built-in GPS unit and they responded.
Their products seem excellently made and do well that which
they were designed to do.

     I own a PicoPacket with the built-in Trimble S-vee Six GPS
receiver, which was only programmed to give APRS $GPGGA strings
(which makes mobile use a bit less handy.)  I had to send it in
for a minor part replacement (the voltage regulator) and was in
touch with Gwynn Reedy, who monitors this SIG.  She said they
```

```
were about to start a retro-programming of existing units to
let them output $GPRMC and $GPVTG strings, this giving us the
course and speed information.  This is being done at a break-
even cost of (she estimated ... don't hold her to this!) about
ten smackers plus postage.

     Well, I got it back the other day and am pleased to report
to you that there's this little box below the cursor box in the
upper left hand corner of the APRSDos screen that, even as I
write this, am seeing that my QTH is supposedly moving 4MPH on
a course of 206 degrees, which I attribute to SA.

     Now if only somebody in the New York City/Tri-state area
would start giving us DGPS strings like WB3V in the DC area...


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

---

183. Re: [APRSSIG:6238] Vacation Auto-Reply for APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Nov 1996 09:34:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961109093450.4037E-100000@arctic>
Rendered body type: text/plain

```
Good idea!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

184. Re: [APRSSIG:6238] Vacation Auto-Reply for APRS

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Sat, 09 Nov 1996 15:49:01 +0000
To: aprssig@tapr.org
Message-ID: <3284A7ED.57DA@netins.net>
Rendered body type: text/plain

```
That sounds like a good idea at first, but I am a little uneasy about
advertising the fact that no one is home for a few days while I am
on vacation/out of town on business for several days, etc.

+++++++++++++++++++++++
rwf@mindspring.com wrote:
>
> Bob-
>
> I just returned from another road trip. (met some nice Houston-Clear Lake
> area APRSers too). I leave the computer on while I am gone, because I send
> U-II info into the local APRS network.
>
> I had a screen full of messages from other users who thought I had been
> home. No telling how many people had gotten REJ messages as well.  One user
> was apprehensive because he thought I was ignoring him as well.
>
> What about a phrase we can enter that is automatically sent back in
> response to a MSG (not a BLN).  It would be like the Vacation Message that
> Internet providers let you set.  If I received a message, it could log the
> msg in the log and then send the prepared phrase.  I would have used  "Will
> not be at terminal until 11/6. Pls try then" or something like that.
>
> This way folks know you are not ignoring them, you just can't see them
> right now.
>
> Thanks
>
> Ralph Fowler
> Atlanta
> rwf@mindspring.com


--
Bill Hays  - w0omv email:billh@netins.net
++++++++++++++++++++++++++++++++++++++
"'1935 will go down in history. For the first time, a civilized nation
has
full gun registration. Our streets will be safer, our police more
```

efficient,
and the world will follow our lead into the future.' - Adolf Hitler"

185. Re: [APRSSIG:6211] Army/Navy football tracking

From: ROBERT MARLEY <MARLEY@LU.LINCOLN.EDU>
Date: Sat, 09 Nov 1996 12:40:21 -0500
To: aprssig@tapr.org
Message-ID: <3284C205.4BA4@LU.LINCOLN.EDU>
Rendered body type: text/plain

HI BOB, I HAVE A SCANNER THAT WILL TUNE THAT AREA. DO YOU WANT THIS
INFO FROM THE TRACKERS LINKED TO APRS ? MY QTH IS ABOUT CENTRALLY
LOCATED AND MIGHT BE ABLE TO FILL IN ANY GAPS. KEEP ME INFORMED.

73 de N3OBQ   ROBERT MARLEY

186. Apology

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 09 Nov 1996 16:11:27
To: aprssig@tapr.org
Message-ID: <199611092112.QAA24417@mail-e2b.gnn.com>
Rendered body type: text/plain

On Sat, 9 Nov 1996 David S. Dobbins/WH6YC pointed out that:

>Gwyn's a guy ... Standby for spamming.

Honest, folks, if I'd have known this I wouldn't have
stuck my foot in my mouth! Sorry Gwyn & Linda, it was an honest mistake! 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

187. Re: [APRSSIG:6241] Re: Vacation Auto-Reply for APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 9 Nov 1996 16:29:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961109162746.9876B-100000@arctic>
Rendered body type: text/plain

On Sat, 9 Nov 1996, John W.(Bill) Hays - w0omv wrote:

> That sounds like a good idea at first, but I am a little uneasy about
> advertising the fact that no one is home for a few days while I am
> on vacation/out of town on business for several days, etc.

APRSdos REPLY/COMMENT: Then dont use it. Its done. If your 1st message
is to REPLY, then it will go back to any incomming messages. This will be
in 77e...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

188. Re: [APRSSIG:6241] Re: Vacation Auto-Reply for APRS

From: rwf@mindspring.com
Date: Sat, 09 Nov 1996 15:47:21 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961109153642.006a4390@mindspring.com>
Rendered body type: text/plain

I thought of that, too, but I'd rather do that than broadcast it in my
beacon. It wouldn't be what everyone needs, but I could sure use it!

Ralph

At 09:48 AM 11/9/96 -0600, you wrote:
>That sounds like a good idea at first, but I am a little uneasy about
>advertising the fact that no one is home for a few days while I am
>on vacation/out of town on business for several days, etc.
>
>++++++++++++++++++++++++
>rwf@mindspring.com wrote:

```
>>
>> Bob-
>>
>> I just returned from another road trip. (met some nice Houston-Clear Lake
>> area APRSers too). I leave the computer on while I am gone, because I send
>> U-II info into the local APRS network.
>>
>> I had a screen full of messages from other users who thought I had been
>> home. No telling how many people had gotten REJ messages as well.  One user
>> was apprehensive because he thought I was ignoring him as well.
>>
>> What about a phrase we can enter that is automatically sent back in
>> response to a MSG (not a BLN).  It would be like the Vacation Message that
>> Internet providers let you set.  If I received a message, it could log the
>> msg in the log and then send the prepared phrase.  I would have used  "Will
>> not be at terminal until 11/6. Pls try then" or something like that.
>>
>> This way folks know you are not ignoring them, you just can't see them
>> right now.
>>
>> Thanks
>>
>> Ralph Fowler
>> Atlanta
>> rwf@mindspring.com
>
>--
>Bill Hays  - w0omv email:billh@netins.net
>++++++++++++++++++++++++++++++++++++++
>"'1935 will go down in history. For the first time, a civilized nation
>has
>full gun registration. Our streets will be safer, our police more
>efficient,
>and the world will follow our lead into the future.' - Adolf Hitler"
>
>
```

189. Re: [APRSSIG:6239] PicoPacket w/Trimble S-vee Six, $GPRMC & $GPVTG

From: rwf@mindspring.com
Date: Sat, 09 Nov 1996 15:47:23 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961109154113.0068dd8c@mindspring.com>
Rendered body type: text/plain

```
At 07:43 AM 11/9/96 -0600, Arte wrote:
>Hi All,
>
>     PaccComm has done it again.  As many of you know, they are
>one of the few manufacturers that are responsive to our needs &
>requests (quirky as they sometimes are) than some of the larger
>companies out there.

Amen-

I just got my response back for the suggestion to Kantronics about having
the posit rate of a tracker slow down if it was not moving.  They said (and
I paraphrase)

The TNC doesn't process the string
It just stores and then beacons it
It will not do what we want.
and they did not say they were interested in changing it.

I guess maybe a TNC Co. who specializes in Vehicle Tracking would have a
more positive answer   ;-)

Kudos to Gwyn, Linda, and the rest for putting up with us!


Ralph
```

190. Re: [APRSSIG:6241] Re: Vacation Auto-Reply for APRS

From: Paul Christenson <paul@tech.cyclades.com>
Date: Sat, 9 Nov 1996 15:05:06 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961109150111.24730C-100000@tech.cyclades.com>
Rendered body type: text/plain

On Sat, 9 Nov 1996, John W.(Bill) Hays - w0omv wrote:

> That sounds like a good idea at first, but I am a little uneasy about
> advertising the fact that no one is home for a few days while I am
> on vacation/out of town on business for several days, etc.

Agreed. However, if the text is supplied by the user, you could simply
make it report "I am away from the terminal" and let it go at that.

Also, an op that's away does not mean the house is empty..

191. Disappearing Objects??

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Sat, 09 Nov 1996 19:09:58 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961110000958.00672568@bluenet.net>
Rendered body type: text/plain

When I place an object on the map with the I A command it only beacons for a
couple hours then "poof" it's gone, WHY??

tnx,
Jamie R. Dean - KE4HTM
http://www.bluenet.net/ke4htm

192. Shirts

From: reeves <reeves@christenson.com>
Date: Sat, 09 Nov 1996 19:01:50 -0800
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961110030150.00679504@hevanet.com>
Rendered body type: text/plain

Has anyone seen the APRS shirts? I still have not received the 4 I ordered,
do they really exist??

Ron
N7QXO
reeves@christenson.com

193. auto xmit

From: foga@foothill.net (DAN FOGARD)
Date: Sat, 9 Nov 1996 22:22:00 -0800
To: aprssig@tapr.org
Message-ID: <199611100622.WAA14473@ns1.foothill.net>
Rendered body type: text/plain

HAS ANYONE HAD APRS XMIT AFTER SHUTTING DOWN WITH C-X......MINE HAS
A MIND OF ITS OWN .

DAN W6PRL GRASS VALLEY

194. Re: [APRSSIG:6241] Re: Vacation Auto-Reply for APRS

From: Rusty Haddock <rusty@fe2o3.lonestar.org>
Date: Sat, 9 Nov 1996 11:06:22 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611091706.LAA26667@fe2o3.lonestar.org>
Rendered body type: text/plain

John W. wrote:

>
> That sounds like a good idea at first, but I am a little uneasy about
> advertising the fact that no one is home for a few days while I am
> on vacation/out of town on business for several days, etc.

Well, don't go advertising that fact then. Just like an answering
machine... you simply say that you're unable to answer their message
right now as you're away from the keyboard. No need to say HOW FAR
FROM the keyboard you are, right?

If you really feel compelled to give an excuse say you're "enjoying the
privledges of marriage at the moment. One of us will get back to you
after we're DONE. That may be some time from now..." :-)

-Rusty-

--

```
   _____        Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
|\/   o \   o
|   (  -<  O o  I planted my antenna farm and what popped up was aluminum
|/\__V__/       and copper tubing.  Strange thing is... I used steel seeds!
```

195. Re: [APRSSIG:6250] auto xmit

From: Miami Network <0004818186@mcimail.com>
Date: Sun, 10 Nov 96 05:32 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <14961110103241/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

Check your RESTORE.TNC file and see if the Beacon Every Command
is reset to a value > 0.

Perhaps what you are seeing is the TNC's keying the radio via
the internal software command set?

73, Seymour, KC4NMY
Miaminet@mcimail.com

196. Re: [APRSSIG:6248] Disappearing Objects??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Nov 1996 09:12:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961110091111.18608C-100000@arctic>
Rendered body type: text/plain

On Sat, 9 Nov 1996, Jamie R. Dean wrote:

> When I place an object on the map with the I A command it only beacons for a
> couple hours then "poof" it's gone, WHY??

APRSdos REPLY/COMMENT: Because in your area, you pick up another 96
stations and they bump your off the bottom of the list! Maybe.

If you put a "TRACK" on an object, then it will NOT bump off the list. Im
not sure if that would work for an object, but you might try...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

197. Re: [APRSSIG:6250] auto xmit

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Nov 1996 09:24:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961110092419.18608I-100000@arctic>
Rendered body type: text/plain

On Sun, 10 Nov 1996, DAN FOGARD wrote:

>   HAS ANYONE HAD APRS XMIT AFTER SHUTTING DOWN WITH C-X......MINE HAS
> A MIND OF ITS OWN .

APRSdos REPLY/COMMENT: APRSdos will still ACK incoming messages and
respond to Queries...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

198. 3-D Maps

From: Chris Dapples <ccdapple@wtp.net>
Date: Sun, 10 Nov 1996 09:11:19 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <9611101611.AA10343@wtpprod1.wtp.net>
Rendered body type: text/plain

Greetings from Montana,
Now that forest fire season is mostly over, I have been thinking
about
how APRS might be used to help fire crews during a fire. So this
brings up a number
of questions.
First, Would it be possible to generate 3-D maps for use by APRS.
In
mountainous country verticle distance is just as important as
horizontal distance.

If 3-D maps could be generated and displayed in APRS one could track
fire crews
and the fire line, as well as weather info., in a very meaningful
way.

        Second, I did see some discussion of miniturized gps/tnc/HT setups
earlier this year, but was too busy to keep track of them. So, I
was wondering if
a small package could be assembled that could be bundled with an HT
that
some of the firefighters could carry. This would allow the fire
boss to know where
his crews were at any time. Similarly he could track his heavy
equipment too.

        My GPS is an Megellan Meridian XL. It outputs either RMC or GGA
NMEA data, but not both at the same time. I notice most folks on
the APRSSIG
are using the Garmin brand GPS. Would this be a better choice?
        My TNC is an AEA PK-12 and seems to function adequately for APRS
but I gather Paccomm makes a miniture TNC which might be a better
choice.

        Comments and suggestions would be greatly appreciated. I would
like to get something packaged up before the 1997 fire season starts.

Chris Dapples, KF7KN
ccdapple@wtp.net

---

199. Summary of (static scrambled the Digi)

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sun, 10 Nov 1996 11:56:16 -0600
To: aprssig@tapr.org, aprs-fl@tapr.org
Message-ID: <19961110175615528.AAA75@dial-16.marianna.fl.digitalexp.com>
Rendered body type: text/plain

Hi All;

I received quite a few private replies to my letter of Oct 26.

To summarize, two people wrote me about noise problems interferring with
the operation of the KPC-3. In both of the situations, the transmitted
packet was being corrupted by noise. Also, I received no letters at all,
addressing the scrambled serial port protocol.

In my case, the TNC was not able to read most of the received packets,
but when it did read one, then the transmitted packet was just fine.

Since the KPC-3 is widely used in the APRS community, the lack of
reports leads me to believe my problem was relatively rare, if not
unique.

To those who sent me suggestions, I tried to reply privately to all of
the letters, but in case I missed any, Thank you.

Regards,
Joe kf4dys

---

200. aprs order

From: "Lew M. Hill" <71613.1462@CompuServe.COM>
Date: 10 Nov 96 18:21:39 EST
To: Bob Bruninga <aprssig@tapr.org>
Message-ID: <961110232138_71613.1462_GHB59-1@CompuServe.COM>
Rendered body type: text/plain

Hi Bob;   11/10/96

Nice package you put together. I'm having fun and some success with the
shareware
version of APRS. I just ordered the full package and some features. After I
mailed the
order I spotted the interface option to the DeLorme and other map packages. If
the price
is close to the $34 mentioned in the help text and you are willing to take the
risk. Please
include it and bill me. If not please forward the information to order it.

Lew M. Hill

N3WTW

---

201. Re: [APRSSIG:6189] Guiding hand

From: "Robert E. Martinson" <remartin@tiac.net>
Date: Sun, 10 Nov 1996 19:12:19 -0500
To: kolade@algonet.se
Cc: aprssig@tapr.org
Message-ID: <2.2.32.19961111001219.006d2a5c@pop.tiac.net>
Rendered body type: text/plain

```
At 09:25 AM 11/6/96 -0600, you wrote:
>Pease Help!  I am new on this level, and I am willing to learn. My fist
>machine is GPS-20, which I know more or less about.  Please can someone
>give me a guiding hand? I am going to appreciate it
>
>thanks
>
>Matthew Kolade


The TAPR.ORG site has lots of information as you've probably allready noted.
The other good site to look at is Tom Clark's ftp site:

"ftp://aleph.gfsc.nasa.gov/GPS/totally.accurate.clock"

His "Showtime" program works very well!

Garmin will have a Web site in the next few days (or so they promise).

I have a GPS-20 up & running with the Trimble antenna.  If you have any
questions I will try to help (but I'm new at this also).

Regards,
Bob, N1VQR
n1vqr@amsat.org
```

---

202. Done in by a vanity callsign??

From: "ir003432@worldnet.att.net" <ir003432@worldnet.att.net>
Date: Sun, 10 Nov 1996 20:10:43 -0400
To: aprssig@tapr.org
Message-ID: <32866F03.65C1@worldnet.att.net>
Rendered body type: text/plain

```
I have just received my new vanity call and am attempting to update my
APRS.  I started APRS and it came up with my old call.  I did I(nput)
M(y) and entered new call, position, etc., as prompted.  Told it to
ATL-S, S(ave) and entered my validation number.

APRS will not save my new configuration. When I start APRS, it comes up
just as though I am a new user.

Is there something on the distro disk I got from Bob Bruninga that
associates my call sign with my validation number?  That is, it thinks
that V#xxxxxx belongs to K4FPT, my old call, and it will not save
because that V# is not associated with W4HH, my new call???

Thanks for any assist.

Pse reply to my e-mail:

        ir003432@worldnet.att.net
```

---

203. Confused and/or missing something

From: Dayglo <dayglo@radix.net>
Date: Sun, 10 Nov 1996 20:36:34 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961111013634.006dbabc@pop.radix.net>
Rendered body type: text/plain

```
I just recently purchased a Garmin GPS 40 and am having loads of fun with
it.  I am interested in getting started with APRS.  I have monitored this
SIG for several days and have searched the net and am a little confused.
Here is what I want to do:  I want to take my spare radio (HTX-202) and a
GPS receiver (Probbably the TAPR GPS 20) and place it in my car. I do not
have a spare computer or TNC for this so I was wondering if this possible
without a computer/TNC?  My confusion lies within the fact that I see
everyone talking about software but I cannot believe that in order to run
APRS you need a computer in your vehicle. I wanted to use as little space as
possible mebbe even sealing the whole thing up.  Any help would be
```

```
appreciated for this newbie in the world of APRS.
```

---

204. L Log list

```
From: w4wwq@juno.com (Peter J Lascell)
Date: Sun, 10 Nov 1996 20:38:13 EST
To: aprssig@tapr.org
Message-ID: <19961110.203559.12183.3.W4WWQ@juno.com>
Rendered body type: text/plain
```

```
How does one erase all the stations logged into the Last Heard List ( L
)?
 I know how to erase one at a time and its a pain for 5 or 6 pages.

Peter Lascell
Forest, VA
w4wwq@juno.com
```

---

205. Version 7.7C Stops in error

```
From: w4wwq@juno.com (Peter J Lascell)
Date: Sun, 10 Nov 1996 20:38:13 EST
To: aprssig@tapr.org
Message-ID: <19961110.203559.12183.4.W4WWQ@juno.com>
Rendered body type: text/plain
```

```
Using many versions, and now 7.7C, my computer locks up with a RED band
across the screen with parts of a packet showing.  The remaining
information is related to digi/WX station in Northern VA.  I don't know
if the data sent by that station is the cause, or the packet just before
it.  It usually shows ERROR 6, and sometimes ERROR 5 has been seen.  It
happened 3 times in 15 minutes Sat.( 9 Nov) in the morning, while
watching the screen.  Most of the other activity was DX thru a GATE
someplace.

Any ideas what is wrong?  Using a 286 with co-processor and 1 meg RAM.
The computer runs 24 hours a day and the logs/lists (L) screens are
always full at the limit as a registered user.

By the way, anyone know how to pinpoint who the GATE station is?  I see
the packets via GATE, WIDE*.  I am in range of four WIDES, some more than
75 miles away.  I don't seem to be able to connect to the GATE via WIDE.


The REAL path a packet takes when aliases are used makes it as
transparent  as this internet stuff.  It goes in one end and comes out
the other, but it might have gone the wrong way once or twice in the
process.

Peter Lascell
Forest, VA
w4wwq@juno.com
```

---

206. Re: [APRSSIG:6260] Confused and/or missing something

```
From: rwf@mindspring.com
Date: Sun, 10 Nov 1996 21:16:26 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961110211620.007378a8@mindspring.com>
Rendered body type: text/plain
```

```
Hi "Newbie"-

By the way,  what is your name and call and where do ya hail from?
All we see is Dayglo

A stand alone tracker (which is a GPS, TNC, and Radio)  is really meant to
use a TNC.  The TNC can tell when the channel is in use and hold off from
transmitting.  There is a device called a MIM which is the transmit part of
a TNC plus timing and ID stuff.  It is tiny and can be put with your GPS
and radio to do what you want.

It does not listen, but you can (and should) feed in a "busy" line from the
radio to prevent the MIM from transmitting.

If you download the APRS program, there is a readme on the MIM  and the
designer (William Clements) is on this SIG and will probably answer you
with a much more informative answer than mine.

The Paccomm Pico-Packet is a TNC that is really tiny and is much more
usable for APRS if you *ever* plan to hook up a computer.  It functions as
```

```
a regular, manned, APRS TNC when the computer is present and running, then
reverts to a nifty stand alone tracker when the computer is not there.
That is what I use.

There is a MIM-like device called a Mic-Encoder that allows you to hook
your GPS to your voice radio and run APRS on a repeater.  This requires the
repeater Guru to add some equipment on his repeater, but is an option.

The APRS software is very powerful and makes a nice addition to any
vehicle, but sometimes "ya gotta use a tracker"

73

Ralph  n4neq
rwf@mindspring.com
APRS Web Page at   http://www.mindspring.com/~rwf



At 07:38 PM 11/10/96 -0600, you wrote:

>I just recently purchased a Garmin GPS 40 and am having loads of fun with
>it.  I am interested in getting started with APRS.  I have monitored this
>SIG for several days and have searched the net and am a little confused.
>Here is what I want to do:  I want to take my spare radio (HTX-202) and a
>GPS receiver (Probbably the TAPR GPS 20) and place it in my car. I do not
>have a spare computer or TNC for this so I was wondering if this possible
>without a computer/TNC?  My confusion lies within the fact that I see
>everyone talking about software but I cannot believe that in order to run
>APRS you need a computer in your vehicle. I wanted to use as little space as
>possible mebbe even sealing the whole thing up.  Any help would be
>appreciated for this newbie in the world of APRS.
>
>
```

---

207. Re: [APRSSIG:6259] Done in by a vanity callsign??

From: "Jerry" <jerdptro@xnet.com>
Date: Sun, 10 Nov 1996 20:48:12 +0000
To: aprssig@tapr.org
Message-ID: <199611110249.UAA21773@mail.xnet.com>
Rendered body type: text/plain

```
ya need to get new registrations for any call sign changes on any
aprs program.  There was some mention by Bob that 6bux gets you
callsign reg. change and latest version on disk.. check with him
Jerry Di Pietro
K9GD
Streamwood, IL
jerdptro@xnet.com
```

---

208. PLOTS SCREEN TESTED

From: mark.endicott@nashville.com
Date: Sun, 10 Nov 96 21:30:06
To: aprssig@tapr.org
Message-ID: <199611110341.VAA20130@tapr.org>
Rendered body type: text/plain

```
On Sun, 3 Nov 1996 mark.endicott@nashville.com wrote:

>           How about parsing the $GPGSV of a PREVIOUSLY DEFINED
>           MOBILE CALL SIGN and routing the data to the Plots Screen?

APRSdos REPLY/COMMENT:  I would bet that if you set GPS-PLOTS on and
someone sends a GPGSV sentence over the air, that it will plot it.  Try it
and let me know...

Bob: (APR)

    I tried it and it doesn't work when I send the GPGSV sring, sorry.
    I know that you will figure it out. :)

                                            73....Mark (WB0NOO)


   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
|            WB0NOO               /
|  mark.endicott@nashville.com   /
|______________________________/
```

---

209. Re: [APRSSIG:6260] Confused and/or missing something

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Sun, 10 Nov 1996 23:14:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961110231243.26955A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 10 Nov 1996, Dayglo wrote:

> Here is what I want to do:  I want to take my spare radio (HTX-202) and a
> GPS receiver (Probbably the TAPR GPS 20) and place it in my car. I do not
> have a spare computer or TNC for this so I was wondering if this possible
> without a computer/TNC?  My confusion lies within the fact that I see
> everyone talking about software but I cannot believe that in order to run
> APRS you need a computer in your vehicle. I wanted to use as little space as
> possible mebbe even sealing the whole thing up.  Any help would be
> appreciated for this newbie in the world of APRS.

You don't need a computer in your car, but you DO need a TNC. You cannot
run with just a radio and a GPS.


Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

210. Re: [APRSSIG:6254] Re: auto xmit

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Nov 1996 23:46:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961110234513.27953A-100000@arctic>
Rendered body type: text/plain

```
> On Sun, 10 Nov 1996, DAN  FOGARD wrote:
>
> >         HAS ANYONE HAD APRS XMIT AFTER SHUTTING DOWN WITH C-X......MINE HAS
> > A MIND OF ITS OWN .
>
> APRSdos REPLY/COMMENT:  APRSdos will still ACK incoming messages and
> respond to Queries...... PLUS your TNC will still digipeat any idiots
> using RELAY improperly...
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
>

APRSdos REPLY/COMMENT:

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

211. Re: [APRSSIG:6257] aprs order

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Nov 1996 23:54:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961110235402.27953D-100000@arctic>
Rendered body type: text/plain

```
U understand that the delorem interface requires two computers... APRS
running as a front end processor and sending over posits one at a time to
delorem?

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

212. Re: [APRSSIG:6261] L Log list

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 10 Nov 1996 23:59:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961110235748.27953E-100000@arctic>
Rendered body type: text/plain

```
On Sun, 10 Nov 1996, Peter J Lascell wrote:
```

```
> How does one erase all the stations logged into the Last Heard List ( L
> )? I know how to erase one at a time and its a pain for 5 or 6 pages.

APRSdos REPLY/COMMENT:  If you are talking about APRSdos, then its the
"LATEST STATUS" page, hi hi,  If you do a FILES-ZERO, then you will erase
everything on both the P-LIST and L-LIST...  A clean slate so to speak...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

213. My Trip to Indianapolis...

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 10 Nov 1996 20:59:53 -0800
To: aprssig@tapr.org
Message-ID: <199611110459.UAA27999@m1.sprynet.com>
Rendered body type: text/plain

```
Well, NEVER (and I reiterate NEVER) try to operate with a 1/4 wave magnount
INSIDE a charter bus!  Never once did I get a single, solitary posit the
entire trip!.  Coming through St. Louis this morning I DID find N9PPJ in the
TNC's heard list but NOTHING in APRS!!!

The GPS wasn't even performing up to par with the antenna stuck on the
inside of a 4' x 8' windshield!!!

Did ANYBODY see me at all?  Henry VB:  Sorry we missed you and sorry Marion
Catholic didn't make the top three.  We all really liked their show, too!
I've always been a Lake Park fan, though....Glad to see Ken Schnoek back in
the money again!  All of our group really liked the second place band best
(myself included)...What an AWESOME Color Guard!!!

Any tracks that anybody had on me, I'd appreciate hearing about them!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

214. RE: [APRSSIG:6255] 3-D Maps

From: Steve Childress <stevech@pacbell.net>
Date: Sun, 10 Nov 1996 22:36:28 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BBCF57.9D74C300@ppp-206-170-120-139.sndg02.pacbell.net>
Rendered body type: text/plain

```
"3D" maps ... the USGS provides elevation data for the US "DEM" data. In the GIS industry, use of
elevation data derived from surveys or stereoscopic satellite images, or, more recently, from processed
synthetic aperature imaging radars and/or "IFSARs"  are the means to obtain elevation data bases. There
are several public domain and lots of commercial packages which display elevation data. And, for the
SARs, the data can include man-made features (structures).

stevech@pacbell.net
```

---

215. RE: [APRSSIG:6263] Re: Confused and/or missing something

From: Steve Childress <stevech@pacbell.net>
Date: Sun, 10 Nov 1996 22:41:53 -0800
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBCF58.5F8F0220@ppp-206-170-120-139.sndg02.pacbell.net>
Rendered body type: text/plain

```
Can you point me to info or vendor for "mic-encoder"?

stevech@pacbell.net
```

---

216. Re: [APRSSIG:6266] Re: Confused and/or missing something

From: Robert Winingham <kc5ejk@onramp.net>
Date: Mon, 11 Nov 1996 01:53:34 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aeac7c1b6185@[199.1.11.129]>
Rendered body type: text/plain

```
>You don't need a computer in your car, but you DO need a TNC. You cannot
>run with just a radio and a GPS.

Well, You CAN with a good pair of shoes, I sometimes RUN with both :-)

CQ,CQ de Bob at the lake I just RAN 4 miles , I am at LON/LAT,
someone come and carry me home.  :-)


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

217. Re: Vacation Auto-Reply for APRS

From: Mark Sproul <sproul@ap.org>
Date: Mon, 11 Nov 1996 08:07:43 -0500
To: aprssig@tapr.org
Message-ID: <v03007804aeacd50524ac@[165.1.27.169]>
Rendered body type: text/plain

```
>That sounds like a good idea at first, but I am a little uneasy about
>advertising the fact that no one is home for a few days while I am
>on vacation/out of town on business for several days, etc.
>


I agree, I would not like to advertise the fact that I was not home

Mac/WinAPRS never rejects messages, they always are entered into the
buffer.  When the buffer fills up, the first have are deleted EXCEPT any
messages to you, those are NEVER deleted, so even if you were gone for a
month, all of the messages to YOU would still be there, the rest of the
traffic would be gone but you could read yours, date/time for each message
is saved etc.


Mark

____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

218. Re: [APRSSIG:6260] Confused and/or missing something

From: David McCarthy <davidmc@goodnet.com>
Date: Mon, 11 Nov 1996 06:42:46 -0700
To: aprssig@tapr.org
Message-ID: <32872D54.3D4D@goodnet.com>
Rendered body type: text/plain

```
Dayglo wrote:

> I want to take my spare radio (HTX-202) and a
> GPS receiver (Probbably the TAPR GPS 20) and place it in my car. I do not
> have a spare computer or TNC for this so I was wondering if this possible
> without a computer/TNC?

You have to have a TNC to packetize your data.  You can then set it up
with your computer/software, then disconnect for a stand alone tracker.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

219. Re: [APRSSIG:6259] Done in by a vanity callsign??

From: David McCarthy <davidmc@goodnet.com>
Date: Mon, 11 Nov 1996 06:43:34 -0700
To: aprssig@tapr.org
Message-ID: <32872D84.1E13@goodnet.com>
Rendered body type: text/plain

```
>
> Is there something on the distro disk I got from Bob Bruninga that
> associates my call sign with my validation number?  That is, it thinks
> that V#xxxxxx belongs to K4FPT, my old call, and it will not save
> because that V# is not associated with W4HH, my new call???
>
> Thanks for any assist.
>
> Pse reply to my e-mail:
>
>         ir003432@worldnet.att.net
```

YES
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord." Jos 24:15

---

220. Re: [APRSSIG:6260] Confused and/or missing something

From: ddobbins@juno.com (David S Dobbins)
Date: Sun, 10 Nov 1996 19:59:05 PST
To: aprssig@tapr.org
Message-ID: <19961111.065221.4495.4.ddobbins@juno.com>
Rendered body type: text/plain

For Dayglo and the SIG, in response to your query. You can operate w/o laptop in car, but you will need a TNC, in addition to the HTX-202 and Garmin GPS you mentioned. PacComm makes a couple nice small units similar in size to 202 w/o the battery pack. Kantronics KPC-3 is a little larger, as is AEA PK-12. You will not need the optional Y-cable, unless you intend to run mobile w/laptop. In that case, you must also validate APRS and GPS with Bob. Good luck.

Dayglo, eh?

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com

---

221. Re: [APRSSIG:6271] RE: 3-D Maps

From: Ken McGuire <kenm@sibyl.saic.com>
Date: Mon, 11 Nov 96 07:00:05 PST
To: aprssig@tapr.org
Message-ID: <9611111500.AA13740@sibyl.saic.com>
Rendered body type: text/plain

I have several CDs and many many megabytes of DEM data for my Vistapro landscape visulazation program. ER-Mapper can also use DEM data I believe. DLG data is also avaiable on CD and via Internet. I have some street level maps made from DLG data and a program with which to view/plot GPS posit's on them.
 The problem I've found with 3D maps is the inability of most programs to provide a "calibrated" output.

At 12:39 AM 11/11/96 -0600, you wrote:
>"3D" maps ... the USGS provides elevation data for the US "DEM" data. In the GIS industry, use of elevation data derived from surveys or stereoscopic satellite images, or, more recently, from processed synthetic aperature imaging radars and/or "IFSARs" are the means to obtain elevation data bases. There are several public domain and lots of commercial packages which display elevation data. And, for the SARs, the data can include man-made features (structures).
>
>stevech@pacbell.net
>
>
>
>
>
>
          ...ken...

---

222. DLG Based Packet Location System

From: Jim Olsen <JIM_OLSEN@novell.com>
Date: Mon, 11 Nov 1996 09:29:39 -0700
To: aprssig@tapr.org
Message-ID: <s286f22c.005@novell.com>
Rendered body type: text/plain

Hi everyone,

        I wanted to gather some opinions on required features for a generic packet location system that I am working on. Let me preface this with the intent of what I am doing for some context setting.
        First, I do not want to support all of the features of the APRS

style software. I am going for a VERY detailed map package, with
support for packet location. In this way I can have a tracking system
that is useable in the wilderness terrain of my area (Utah). I need topo
line support to tell where anyone actually is, and the APRS system does
not support this adequately in the map format/drawing methodology. I
am not as interested in supporting all of the different 'base station' kind
of operations that APRS does. I recognize these are useful in a larger
case, but again, not for my applications (mobile search and rescue,
hiker tracking, etc.), which often preclude the use of more than one
mobile computer, due to weight/realistic constraints.
        What I have so far is a package which is Windows 95 based,
and has several capabilities which are listed here:

        Reads and displays USGS 1:100,000 standard format DLG
                maps.
        Displays ALL layers (hydrography, topo lines, roads, etc.)
        Allows filtering of any layer (display / don't display)
        Full zoom (through vectors, so no degradation of data)
        Real time scrolling of map
        Multiple map windows allowed on screen simultaneously
        One or more packet receive windows for multi TNC support
                (packet receive is for positional info only)
        GPS Receive window (one or more)
        Station list displaying call, lat/long, course and speed
        Station list editing of Icon plus all of above
        Add station through point and click on map
        Lat/Long tracking on cursor movement over window
        History file record/playback

What I ended up with is something which provides me the basic
functionality of tracking multiple stations, on USGS quad level quality
maps. I am in the process of doing some basic testing at this point, and
it seems to work pretty well. Eventually, I would like to release it in an
alpha form to interested parties, but before I do this, I would like to get
people's opinions on what other functionality is a MUST HAVE for the
kinds of applications I am concerned with. Note that I am not looking to
replicate APRS. They have done an excellent job on this stuff for a
broader range of applications. I want to focus around the kinds of
things I need it for. I originally had developed this for myself, but a
bunch of people have expressed interest in it after seeing it, so I would
like it to be able to hit a broader audience.

Thanks for the thoughts in advance,

Jim Olsen
KC7GGQ
jim_olsen@novell.com

---

223. APRS and the NWS

From: John M Domblewski <wendysue@global2000.net>
Date: Mon, 11 Nov 1996 11:52:06 -0500
To: aprssig@tapr.org
Message-ID: <328759B6.58CD@global2000.net>
Rendered body type: text/plain

Hi All

We here in Albany NY are in the planning and discussion stage of
improving our packet capabilities as they relate to the National Weather
Service .

We are currently using a "traditional" packet network and are discussing
the differences between it and APRS. I would be interested in ANY input
from those of you who have had "traditional" packet and switched to or
added APRS as a means of digital communications with NWS. I'm very
interested in what are the benifits of one system vs. the other to the
NWS.

I'm looking to be sold on both systems so as to help us make an informed
decision as to which we should choose. We are of course open to using
both systems if that suits the NWS best.

Thank you in advance and here's hoping to start a CONSTRUCTIVE
conversation.

John M Domblewski N2OJY

---

224. Re: Questions about APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Nov 1996 12:28:24 -0500 (EST)
To: David McCarthy <davidmc@goodnet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961111122625.7977D-100000@arctic>
Rendered body type: text/plain

On Mon, 11 Nov 1996, David McCarthy wrote:
>
> 1. When you set the POSrate through alt-s/p, is that supposed to be the
> time of duration between POSITS and BEACONS? I have set it to 3600(60
> min.). But it appears that the POSITS are being transmited every 20

*** APRS maxes out at 20 mins unless you change the MAXPOS Rate with an
editor in the CONFIG file. I have not idea about the Windows problem with
S or F2.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

225. nodes

From: "DAVID MICHAEL GAYTKO   ***@***   FM15mm" <cn2859@coastalnet.com>
Date: Mon, 11 Nov 1996 12:45:21 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961111174521.0066ec20@abaco.coastalnet.com>
Rendered body type: text/plain

am interested in monitoring aprs on vhf for propagation study, would like to
see a list of any digis say within
250 miles of Washington, NC. grid fm15mm.

also would like to know what setting would be necessary in the aprs program,
and what settings would be optimum
in my tnc to glean max info. (mfj 1278b) would also like to monitor
propagation on the hf bands.

also, anyone like to do some ms on 6/2/10m using aprs?

tks . ... 73's

david
```
 :::       :::  :::::::::       :::      :::    :::  :::::::::   :::::::::
 :+:       :+:  :+:    :+:     :+:       :+:   :+:   :+:    :+:  :+:    :+:
 +:+       +:+  +:+    +:+    +:+ +:+    +:+  +:+    +:+    +:+  +:+    +:+
 +#+  +:+  +#+  +#+    +:+   +#+  +:+    +#++:++     +#++:++#+   +#+    +:+
 +#+ +#+#+ +#+  +#+    +#+  +#+#+#+#+#+  +#+  +#+    +#+         +#+    +#+
  #+#+# #+#+#   #+#    #+#         #+#   #+#   #+#   #+#         #+#    #+#
   ###   ###    #########          ###   ###    ###  ###         #########
```

---

226. aprs77d prob.

From: pete ouellette <pho@crocker.com>
Date: Wed, 02 Oct 1996 13:08:17 -0500
To: aprssig@tapr.org
Message-ID: <199611111812.NAA08608@rmc1.crocker.com>
Rendered body type: text/plain

After running APRS77D for a few minutes, a box pops up in the middle of the
screen with the words " Zoom .1 .2 .3 " etc. I can't seem to erase it.
Anybody know how or why its there?

Peter, N1AGV

---

227. Re: [APRSSIG:6279] DLG Based Packet Location System

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 11 Nov 1996 13:03:14 -0800
To: aprssig@tapr.org
Message-ID: <32879492.3A00@concentric.net>
Rendered body type: text/plain

Jim Olsen wrote:
>
> Hi everyone,
>
>
>
> Thanks for the thoughts in advance,
>
> Jim Olsen

> KC7GGQ
> jim_olsen@novell.com

Great idea Jim, but to only have a Windows 95 platform makes it rather
limited i think, how many avarage people have a laptop of that sort. Also I
think the map display if the number one priority (Scanned maps maybe). The
USGS maps available or old and outdated.

Just a tought 73.

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

228. Re: [APRSSIG:6284] Re: DLG Based Packet Location System

From: wa4dsy@wa4dsy.radio.org (Dale Heatherington)
Date: Mon, 11 Nov 96 15:01:30 est
To: aprssig@tapr.org
Message-ID: <m0vN2Y1-0001L4C@wa4mei.radio.org>
Rendered body type: text/plain

On Mon, 11 Nov 1996 13:09:02 -0600 (CST) you wrote:

>Jim Olsen wrote:
>>
>> Hi everyone,
>>
>>
>>
>> Thanks for the thoughts in advance,
>>
>> Jim Olsen
>> KC7GGQ
>> jim_olsen@novell.com
>
>Great idea Jim, but to only have a Windows 95 platform makes it rather
>limited i think, how many avarage people have a laptop of that sort. Also I
>think the map display if the number one priority (Scanned maps maybe). The
>USGS maps available or old and outdated.

I agree about the win95 only stratagy. Doing straight Windows 3.1
(no win32s!) will allow it to run on the maximum number of platforms
including WIN-OS/2, Win95, WinNT?, Win3.1, Mac windows emulators, etc...

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp v4

229. [APRSSIG:6285] Re: DLG Based Packet Location System -Reply

From: Jim Olsen <JIM_OLSEN@novell.com>
Date: Mon, 11 Nov 1996 13:56:08 -0700
To: aprssig@tapr.org
Message-ID: <s28730a4.036@novell.com>
Rendered body type: text/plain

>>> Dale Heatherington <wa4dsy@wa4dsy.radio.org> 11/11/96
01:04pm >>>
On Mon, 11 Nov 1996 13:09:02 -0600 (CST) you wrote:

>>
>>Great idea Jim, but to only have a Windows 95 platform makes it
rather
>>limited i think, how many avarage people have a laptop of that sort.
Also I
>>think the map display if the number one priority (Scanned maps
maybe). The
>>USGS maps available or old and outdated.

>I agree about the win95 only stratagy. Doing straight Windows 3.1
>(no win32s!) will allow it to run on the maximum number of platforms
>including WIN-OS/2, Win95, WinNT?, Win3.1, Mac windows emulators,
> etc...
>
>Dale Heatherington, WA4DSY

I am not committing nor un-committing to any specific platforms at this time. My initial development environment is Win95 (since that is what I am running), so that is my alpha environment too. I am actually writing in Borland C++ 5.0, utilizing OWL, so it should move pretty painlessly to Win 3.1, with a little modification in how the serial communications are being done (which I fairly well isolated since I knew this would be coming eventually).

On the USGS thing, I agree many of the maps are out of date, but many counties keep up to the minute versions in their GIS programs, which will all output standard format DLG. I know our county does. If nothing else, the rivers/topo/major roads don't change too much, so it is a great starting place for covering most of the country right out of the chute.

Thanks for the many comments, they are helping me to gel my coding directions!

Jim Olsen
KC7GGQ
jim_olsen@novell.com

---

230. Re: [APRSSIG:6283] aprs77d prob.

From: wa4mej@juno.com (john w dent)
Date: Mon, 11 Nov 1996 14:19:46 PST
To: aprssig@tapr.org
Message-ID: <19961111.142339.4535.1.wa4mej@juno.com>
Rendered body type: text/plain

YOU PUSHED THE WRONG KEY

---

231. help

From: b.urban@ix.netcom.com (Barbara A. Urban)
Date: Mon, 11 Nov 1996 13:37:37 -0800
To: aprssig@tapr.org
Message-ID: <199611112137.NAA25395@dfw-ix4.ix.netcom.com>
Rendered body type: text/plain

Can anyone give me any hints or sugestions.Can't seem to see any other stations on the map screen.Everything else appears to be working ok.Have KPC-3 Kantronics TNC,486 computer,aprs77d program.Thanks.
Rich

---

232. Re: [APRSSIG:6274] Re: Vacation Auto-Reply for APRS

From: rwf@mindspring.com
Date: Mon, 11 Nov 1996 18:04:01 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961111173219.006eea50@mindspring.com>
Rendered body type: text/plain

Mark- please don't miss the point.

The request was a "vacation" message sort of like an email "rule". The message is processed, but a return message says something LIKE "I'm away from the terminal" OR "I am eating- get back to you later". No one in their right mind would say "Just call me stupid... I'm away for 6 months. Come rob me".

One of the reasons I suggested it is that I was away for a few days, leaving the system on for the WX data it sends and several persons messaged me, filling up my screen and getting no response. They then thought I was ignoring them and contiued asking "are you there... are you ignoring me?" until they filled the line buffer DosAPRS provides.

It is fine to archive the messages (I wish DosAPRS held more), but I think an "away" message is useful. It is up to us to decide what to say in it.

At 07:45 AM 11/11/96 -0600, Mark said:

>Mac/WinAPRS never rejects messages, they always are entered into the

>buffer. When the buffer fills up, the first have are deleted EXCEPT any
>messages to you, those are NEVER deleted, so even if you were gone for a
>month, all of the messages to YOU would still be there, the rest of the
>traffic would be gone but you could read yours, date/time for each message
>is saved etc.

233. Re: [APRSSIG:6287] Re: aprs77d prob.

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 11 Nov 1996 17:09:15 -0800
To: aprssig@tapr.org
Message-ID: <3287CE3B.403@concentric.net>
Rendered body type: text/plain

john w dent wrote:
>
> YOU PUSHED THE WRONG KEY

YES I'M NOW AWARE OF THAT.
--
```
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

234. Re: [APRSSIG:6279] DLG Based Packet Location System

From: Chris Dapples <ccdapple@wtp.net>
Date: Mon, 11 Nov 1996 16:56:20 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <9611112356.AA21973@wtpprod1.wtp.net>
Rendered body type: text/plain

This might be just the kind of thing I am looking for (see the

previous messages
about using 3-D maps). I would be very interested in trying it out.

Chris Dapples, KF7KN
ccdapple@wtp.net

>   From: JIM_OLSEN@novell.com
>   Date: 11/11/96 10:37:47AM
>   To: aprssig
>   Subject: [APRSSIG:6279] DLG Based Packet Location System
>
>   Hi everyone,
>
>   I wanted to gather some opinions on required features for a
>   generic packet location system that I am working on. Let me
>   preface
>   this with the intent of what I am doing for some context
>   setting.
>   First, I do not want to support all of the features of the
>   APRS
>   style software. I am going for a VERY detailed map package,
>   with
>   support for packet location. In this way I can have a
>   tracking system
>   that is useable in the wilderness terrain of my area (Utah).
>   I need topo
>   line support to tell where anyone actually is, and the APRS
>   system does
>   not support this adequately in the map format/drawing
>   methodology. I
>   am not as interested in supporting all of the different 'base
>   station' kind
>   of operations that APRS does. I recognize these are useful in
>   a larger
>   case, but again, not for my applications (mobile search and
>   rescue,
>   hiker tracking, etc.), which often preclude the use of more
>   than one
>   mobile computer, due to weight/realistic constraints.
>   What I have so far is a package which is Windows 95 based,
>   and has several capabilities which are listed here:
>
>   Reads and displays USGS 1:100,000 standard format DLG
>   maps.

>   Displays ALL layers (hydrography, topo lines, roads, etc.)
>   Allows filtering of any layer (display / don't display)
>   Full zoom (through vectors, so no degradation of data)
>   Real time scrolling of map
>   Multiple map windows allowed on screen simultaneously
>   One or more packet receive windows for multi TNC support
>   (packet receive is for positional info only)
>   GPS Receive window (one or more)
>   Station list displaying call, lat/long, course and speed
>   Station list editing of Icon plus all of above
>   Add station through point and click on map
>   Lat/Long tracking on cursor movement over window
>   History file record/playback
>
>   What I ended up with is something which provides me the basic
>   functionality of tracking multiple stations, on USGS quad
>   level quality
>   maps. I am in the process of doing some basic testing at this
>   point, and
>   it seems to work pretty well. Eventually, I would like to
>   release it in an
>   alpha form to interested parties, but before I do this, I
>   would like to get
>   people's opinions on what other functionality is a MUST HAVE
>   for the
>   kinds of applications I am concerned with. Note that I am not
>   looking to
>   replicate APRS. They have done an excellent job on this stuff
>   for a
>   broader range of applications. I want to focus around the
>   kinds of
>   things I need it for. I originally had developed this for
>   myself, but a
>   bunch of people have expressed interest in it after seeing it,
>   so I would
>   like it to be able to hit a broader audience.
>
>   Thanks for the thoughts in advance,
>
>   Jim Olsen
>   KC7GGQ
>   jim_olsen@novell.com
>
>
>
>
>

---

235. Re: [APRSSIG:6282] nodes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Nov 1996 20:44:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961111204211.19251A-100000@arctic>
Rendered body type: text/plain

On Mon, 11 Nov 1996, DAVID MICHAEL GAYTKO   ***@***   FM15mm wrote:

> am interested in monitoring aprs on vhf for propagation study, would like to
> see a list of any digis say within 250 miles of Washington, NC.

*** In APRSdos do a FILE-REPLAY-DIGI-E and again for -SE

> also would like to know what setting would be necessary in the aprs program,

*** Standard APRS settings. Just look at the DIGI page to see what path
they used. If you ONLY want to see signals direct, then use
CONTORLS-FILTERS-DIRECT...

---

236. Re: [APRSSIG:6283] aprs77d prob.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Nov 1996 20:45:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961111204439.19251B-100000@arctic>
Rendered body type: text/plain

On Mon, 11 Nov 1996, pete ouellette wrote:

> After running APRS77D for a few minutes, a box pops up in the middle of the
> screen with the words " Zoom .1 .2 .3 " etc. I can't seem to erase it.

```
> Anybody know how or why its there?
>

APRSdos REPLY/COMMENT:  Thats the MOUSE ZOOM menu.   just use ur mouse to
click on a zoom factor...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

237. Re: [APRSSIG:6288] help

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 11 Nov 1996 21:14:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961111211355.19251G-100000@arctic>
Rendered body type: text/plain

```
On Mon, 11 Nov 1996, Barbara A. Urban wrote:

> Can anyone give me any hints or sugestions.Can't seem to see any other
> stations on the map screen.Everything else appears to be working
> ok.Have KPC-3 Kantronics TNC,486 computer,aprs77d program.Thanks.

APRSdos REPLY/COMMENT:  DId you put TNC in terminal mode with the INTFACE
TERMINAL command?  YOu must do that first before APRS can set it up...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

238. Re: [APRSSIG:6283] aprs77d prob.

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 11 Nov 1996 21:17:59 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961111211558.11093B-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 11 Nov 1996, pete ouellette wrote:

> After running APRS77D for a few minutes, a box pops up in the middle of the
> screen with the words " Zoom .1 .2 .3 " etc. I can't seem to erase it.
> Anybody know how or why its there?

Sounds like you clicked your mouse! (now tell me you don't have a mouse!)
Once that box shows, you choose the maginfacation rate and click again.


Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

239. Re: [APRSSIG:6289] Re: Vacation Auto-Reply for APRS

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 11 Nov 1996 21:33:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961111212755.11093C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Mon, 11 Nov 1996 rwf@mindspring.com wrote:

> Mark- please don't miss the point.
>
> The request was a "vacation" message sort of like an email "rule". The
> message is processed, but a return message says something LIKE "I'm away
> from the terminal"  OR  "I am eating- get back to you later".  No one in
> their right mind would say "Just call me stupid... I'm away for 6 months.
> Come rob me".
>
> One of the reasons I suggested it is that I was away for a few days,
> leaving the system on for the WX data it sends and several persons messaged
> me, filling up my screen and getting no response.  They then thought I was
> ignoring them and contiued asking "are you there... are you ignoring me?"
> until they filled the line buffer DosAPRS provides.


Sounds like "operator error" Not you, all those other folks.

They send you a msg. They received an "ack". You didn't reply. Most folks
(at least most folks around these parts) will say "He's not at his
computer" and leave it at that.
```

```
Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

240. Thanx for all the info

From: Dayglo <dayglo@radix.net>
Date: Mon, 11 Nov 1996 21:53:03 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961112025303.006e1a40@pop.radix.net>
Rendered body type: text/plain

Hi everyone,

Thank you very much for all the info that everyone provided. It was quite helpful. I will probbably be in contact with Patcomm just as soon as I raise some $$$ from all the stuff that I am selling on the net. Hopefully before the end of the year you will be seeing me on the air doing APRS. I just have one further question: Would you recommend purchacing the GPS 20 from TAPR? I figure that this may be the one most ppl are using and there will be a lot of projects built around it. It just seems such a waste to tuck my GPS 40 away in my car especially when it has such a nice display.

BTW since several ppl asked:

Name: Bob
Call: KF4FOK

---

241. RE: [APRSSIG:6278] RE: 3-D Maps

From: Steve Childress <stevech@pacbell.net>
Date: Mon, 11 Nov 1996 21:58:51 -0800
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBD01B.E5CAFB00@ppp-206-170-120-184.sndg02.pacbell.net>
Rendered body type: text/plain

OK Ken - This time I noticed your name on the e-mail.
Do you know of a public domain program which will display
ETAK's ".map" files?

steve

---

242. Re: [APRSSIG:6280] APRS and the NWS

From: Doug Wittich <dwittich@concentric.net>
Date: Tue, 12 Nov 1996 07:57:39 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961112125739.006c51e8@pop3.concentric.net>
Rendered body type: text/plain

At 10:58 AM 11/11/96 -0600, John M Domblewski N2OJY wrote:

>the differences between it and APRS. I would be interested in ANY input
>from those of you who have had "traditional" packet and switched to or
>added APRS as a means of digital communications with NWS. I'm very
>interested in what are the benifits of one system vs. the other to the
>NWS.

I came away from our quarterly Skywarn meeting with much the same assignment. Please count me as an interested party in this discussion.

Doug

---

243. Re: Win95 vs Win3.1 development

From: Mark Sproul <sproul@ap.org>
Date: Tue, 12 Nov 1996 08:42:29 -0500
To: aprssig@tapr.org
Message-ID: <v03007801aeae2c978f51@[165.1.27.20]>
Rendered body type: text/plain

>Great idea Jim, but to only have a Windows 95 platform makes it rather
>limited i think, how many avarage people have a laptop of that sort.

There have been several comments about Win95 and Win3.1, people that are not developers dont realize the significant difference between the model for 3.1 and for 95.

On 3.1, the memory model is segmented and has limitations, there are libraries that implement this for you and and make it a lot easier, but...

dealing with LARGE amounts of data under 3.1 is not NEAR as easy as on 95.
Windows 95 and Windows NT has a flat memory model, this means memory starts
at 0 and keeps going until you run out. it is NOT segmented (paged) like
on Win3.1.

The Win32S DLL set allows programs written for Windows 95 /NT to run under
Windows 3.1. There are a few things, specifically serial I/O, that cannot
be done in the Win95 maner while running under Win32S. If a programer pays
attention to these few minor things that cant be done, then ONE program
works seamlessly for both platforms.

Mark

```
___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

244. Thanks to Bob, Barbara, Arte, and Jack

From: ke6nyt@fishnet.net (Dan Dicke)
Date: Tue, 12 Nov 1996 07:43:50 -0800
To: aprssig@tapr.org
Message-ID: <199611121543.HAA14927@big.fishnet.net>
Rendered body type: text/plain

Thanks all for your input. Thank you Bob for your incredible response to my
strange needs of the validation so rapidly. I have the Ca maps already. I
will check witht he other folks about local maps. Niether San Diego or
Pasedena WIDEs are within in my reach, although I see them. Recently I
haven't seen any activity. Dificult to get going when you are all alone out
here.

Thanks again,
Dan
KE6NYT

---

245. registration info

From: BRETSKI <bap@storm.atms.purdue.edu>
Date: Tue, 12 Nov 1996 10:06:37 -0500 (EST)
To: APRS <aprssig@tapr.org>
Message-ID: <Pine.A32.3.93.961112100057.32731A-100000@storm.atms.purdue.edu>
Rendered body type: text/plain

Hello.
I really like the APRS software!
The other day I got about 15 hits -- even one from Puerto Rico!

I registered the software with you folk awhile back but I lost the
registration number you sent me along with the sheet about how to
enter the number in the program.

Could you please send it again?

Sorry.

:-(

```
BRET A. PENNINGTON /  COMPUTER TECHNICIAN   /EARTH AND ATMOSPHERIC SCIENCES
CIVL 4252 317-494-0678 / PURDUE UNIVERSITY  / WEST LAFAYETTE, INDIANA 47907
bap@storm.atms.purdue.edu                   /     speaking only for myself.
/\/\/\/\/\/ __... /\/\/\/\/\/\/\/\ N9ZFF /\/\/\/\/\/ ...__ /\/\/\/\/\/\/\/\
```

---

246. Re: [APRSSIG:6296] Re: Vacation Auto-Reply for APRS

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 12 Nov 1996 09:14:27 -0600
To: aprssig@tapr.org
Message-ID: <v03007805aeadef5d5f75@[138.87.2.109]>
Rendered body type: text/plain

```
>> until they filled the line buffer DosAPRS provides.

I wonder if our unattended NWS office dosAPRS will fail because no one
answers messages sent to them?  The operators are told how to scroll around
and zoom in and out but not how to read or clear messages.


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

247. HF/VHF Gateway and DSP-2232

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 12 Nov 1996 10:33:48 -0600
To: APRS-SIG <aprssig@tapr.org>
Message-ID: <3288A6ED.7C90@amsat.org>
Rendered body type: text/plain

```
I am considering implementing an HF/VHF Gateway using my AEA DSP-2232.
The manual talks about crossband CONNECTIONS but does not discuss
crossband digipeating.

Has anyone set up such a configuration? How did you set the parameters?
--
Ron W5RKN

also:
rparsons@bga.com
```

---

248. Re: [APRSSIG:6302] registration info

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Tue, 12 Nov 1996 09:44:44 -0800
To: aprssig@tapr.org
Message-ID: <3288B78C.167E@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
BRETSKI wrote:
> I registered the software with you folk awhile back but I lost the
> registration number you sent me along with the sheet about how to
> enter the number in the program.

I keep seeing this problem appearing.  Why not make a backup disk of the
APRS software and write the registration numbers on the diskettes.  I do
this for my commercial software, just incase the documentation gets
sepparated from the disks. For CD-ROMs, use a magic marker to write the
number on the disk.

--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

---

249. Re: [APRSSIG:6299] Re: APRS and the NWS

From: "Sam Nabkey, WJ8T/P" <snabkey@wingsbbs.com>
Date: Tue, 12 Nov 1996 11:42:28 -0400
To: aprssig@tapr.org
Message-ID: <199611121642.KAA03666@tapr.org>
Rendered body type: text/plain

```
On 12 Nov 96 at 7:01, Doug Wittich wrote:

> At 10:58 AM 11/11/96 -0600, John M Domblewski N2OJY wrote:
>
> >the differences between it and APRS. I would be interested in ANY
> >input from those of you who have had "traditional" packet and
> >switched to or added APRS as a means of digital communications with
> >NWS. I'm very interested in what are the benifits of one system vs.
> >the other to the NWS.
>
> I came away from our quarterly Skywarn meeting with much the same
> assignment.   Please count me as an interested party in this
> discussion.
>
>
> Doug
>
```

```
Me too!  We will be using the same approach here in Grand Rapids Mi.
soon.  I think the Vacation Mode would be perfect for that
application.



_____________________________________

Sam Nabkey - K8SN/P  (Using the Laptop)
Internet: snabkey@wingsbbs.com
amprnet: k8sn@w8dc.ampr.org
WWW: http://www.k8sn.org
AX.25: WJ8T@W8DC.#SWMI.MI.USA.NOAM
Java APRS: http://www.k8sn.org/javAPRS
```

250. (no subject)

From: Tony Sammartino <tony@pepperwhite.com>
Date: Tue, 12 Nov 1996 12:09:38 -0500
To: aprssig@tapr.org
Message-ID: <3288AF52.3C78@pepperwhite.com>
Rendered body type: text/plain

```
subscribe
```

251. Re: [APRSSIG:6303] Re: Vacation Auto-Reply for APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Nov 1996 12:40:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961112123743.14565C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 12 Nov 1996, Larry Keeran wrote:

> I wonder if our unattended NWS office dosAPRS will fail because no one
> answers messages sent to them?  The operators are told how to scroll around
> and zoom in and out but not how to read or clear messages.

APRSdos REPLY/COMMENT: Nope, APRSdos will just stop accepting messages
after 23.  From then on it will send out REJects instead of ACKS.  This
is to alert the sender that that stations apparently has no human operator
and it is useless to keep sending him messages until he begins reading
some of them.  Remember, APRS is for real-time tactical communications not
necessarily the long term 24 hour a day we are using it for practice....

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

252. Re: [APRSSIG:6305] Re: registration info

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Nov 1996 12:46:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961112124512.14565H-100000@arctic>
Rendered body type: text/plain

```
On Tue, 12 Nov 1996, Randy Hammock wrote:

> BRETSKI wrote:
> > I registered the software with you folk awhile back but I lost the
> > registration number...
>
> I keep seeing this problem appearing.  Why not make a backup disk of the
> APRS software and write the registration numbers on the diskettes.

APRSdos REPLY/COMMENT:  WRITE IT ON THE WALL! hi hi   You can't lose the
wall.  Try your forhead too, but write it backwards so you can read it in
a mirror.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

253. Re: [APRSSIG:6308] Re: Vacation Auto-Reply for APRS

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 12 Nov 1996 12:46:56 -0600
To: aprssig@tapr.org
Message-ID: <v0300780eaeae1ecd829a@[138.87.2.109]>
Rendered body type: text/plain

```
>On Tue, 12 Nov 1996, Bob Bruninga said:

>APRSdos REPLY/COMMENT: Nope, APRSdos will just stop accepting messages
>after 23.  From then on it will send out REJects instead of ACKS.

I am getting BUSY from the site now (with O C T).  Is BUSY what connect
requests that are NAKed look like at my end? It doesn't answer a O Q
callsign or a ping from APRS either. I can connect to the NODE callsign ok.

Guess I have to do the 100 mile round trip to un busy it.  Let me think...
I would have to (at the KPC-9612 TNC) do [is it?] CONOK = OFF to prevent
connects from locking it up?

Too much remote diagnosing... Too many possibilities... I will have to see
what I find and report back.  Unless, someone has additional suggestions on
what to try from "here".

Send suggestions to: k9orp@amsat.org



/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

254. Re: [APRSSIG:6309] Re: registration info

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 12 Nov 1996 12:54:44 -0600
To: aprssig@tapr.org
Message-ID: <v0300780faeae22c671ac@[138.87.2.109]>
Rendered body type: text/plain

```
>> BRETSKI wrote:
>> > I registered the software with you folk awhile back but I lost the
>> > registration number...

Wouldn't looking at the file on the root directory APRSxxx.apr with a text
editor or "typing it" be a way to see it? (If you had once installed it and
haven't changed computers since.)

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

255. Re: [APRSSIG:6299] Re: APRS and the NWS

From: David & Roxanne McCarthy <davidmc@goodnet.com>
Date: Tue, 12 Nov 1996 12:15:39 -0700
To: aprssig@tapr.org
Message-ID: <3288CCA4.148B@goodnet.com>
Rendered body type: text/plain

```
Doug Wittich wrote:
>
> At 10:58 AM 11/11/96 -0600, John M Domblewski N2OJY wrote:
>
> >the differences between it and APRS. I would be interested in ANY input
> >from those of you who have had "traditional" packet and switched to or
> >added APRS as a means of digital communications with NWS. I'm very
> >interested in what are the benifits of one system vs. the other to the
> >NWS.
>
> I came away from our quarterly Skywarn meeting with much the same
> assignment.   Please count me as an interested party in this discussion.
>
> Doug

Please include me also.  MARCA has mae the effort to further the use of
APRS in Phoenix.  Several of our members are Skywarn spotters and I am a
Net Control Op.  Would like to help us move from or supliment the voice
net.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

256. Re: APRtrak Keps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Nov 1996 14:49:32 -0500 (EST)
To: "Nicholas R. Smith" <wa4gkm@juno.com>
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961112144412.19061C-100000@arctic>
Rendered body type: text/plain

On Mon, 11 Nov 1996, Nicholas R. Smith wrote:

> How do you update the KEPS in APRtrak? I assume that one just down
> loads these from a source and puts them in the orb file?

APRSdos REPLY/COMMENT: Select FILES-KEPS command and then you can update
from either a NASA 2-line or AMSAT file. If you want to change which
satelites are in your APR.ORB file, then you will need to use a text
editor to change the OBJECT NUMBERS.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

257. APRS and the NWS message #2

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 12 Nov 1996 14:59:15 -0500
To: aprssig@tapr.org
Message-ID: <3288D713.CD5@global2000.net>
Rendered body type: text/plain

HAY YOU GUYS WHO ARE USING APRS WITH THE NWS PLEASE TELL THE REST OF US
HOW AND WHY!!!!!!!!!!!!!!!

I hope I didn't hurt anyones ears but there seems to be a CROWD of
people with inquireing minds.:-)
We need the specifics.
Please get us moving as we are begging for some ELMERS!!!

John

---

258. Re: [APRSSIG:6280] APRS and the NWS

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 12 Nov 1996 15:05:28 -0500
To: Steve Dimse <sdimse@bridge.net>
Cc: aprssig@tapr.org
Message-ID: <3288D888.1BAD@global2000.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >We here in Albany NY are in the planning and discussion stage of
> >improving our packet capabilities as they relate to the National Weather
> >Service .
> >
> >We are currently using a "traditional" packet network and are discussing
> >the differences between it and APRS. I would be interested in ANY input
> >from those of you who have had "traditional" packet and switched to or
> >added APRS as a means of digital communications with NWS. I'm very
> >interested in what are the benifits of one system vs. the other to the
> >NWS.
> >
> >I'm looking to be sold on both systems so as to help us make an informed
> >decision as to which we should choose. We are of course open to using
> >both systems if that suits the NWS best.
> >
> Depends on what you want to do. For point to point communications,
> regular packet is best. For disseminating cand collecting data to/from a
> number of stations over a large area, APRS wins.
>
> APRS has many built in features very useful to the NWS, most especially
> the provision for automatic weather reporting. The National Hurricane
> Center uses it for reports from the Florida Keys; we have set up a series
> of 6 stations down the Keys, and were very useful to the NHC when Lili
> brushed us last month.
>
> The first step in choosing a system is to decide exactly how you want to
> use the system. Then it should be obvious one or the other is best. Let
> me know if you have any specific questions.
>
> Steve K4HG

Hi Steve

Thanks for the reply!

I'm not sure of the capabilities. I think perhaps you are making the
assumption that I know more than I do. If you could go one level lower
you'd probably be on my level.

John M Domblewski N2OJY

259. Re: [APRSSIG:6310] Re: Vacation Auto-Reply for APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Nov 1996 15:22:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961112151925.19061E-100000@arctic>
Rendered body type: text/plain

On Tue, 12 Nov 1996, Larry Keeran wrote:

> >APRSdos REPLY/COMMENT: Nope, APRSdos will just stop accepting messages
> >after 23. From then on it will send out REJects instead of ACKS.
>
> I am getting BUSY from the site now (with O C T). Is BUSY what connect
> requests that are NAKed look like at my end? It doesn't answer a O Q
> callsign or a ping from APRS either. I can connect to the NODE callsign ok.

APRSdos REPLY/COMMENT: APRS has nothing to do with CONNECTS. BUSY means
the TNC is connected to someone. APRS will autmoatically force the TNC to
disconnect every time it sends its STATUS BEACON. (at least once every 20
minutes, so just wait.)   If someone connects to an APRS station it will
go to blue screen (OCT) for 3 minutes, then it will also try to
disconnect.

APRS should not affect how the PBBS works however.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

260. Re: [APRSSIG:6312] Re: APRS and the NWS

From: Tom Fleming N9SZF <n9szf@skywarn.cs.wisc.edu>
Date: Tue, 12 Nov 1996 14:21:53 -0600 (CST)
To: David & Roxanne McCarthy <davidmc@goodnet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961112141742.14954A-100000@skywarn.cs.wisc.edu>
Rendered body type: text/plain

On Tue, 12 Nov 1996, David & Roxanne McCarthy wrote:
Count me in. We have APRS set up in our NWS and have the equipment ready
for our county EOC. And we are tring to get more weather stations set up.

Tom Fleming - N9SZF
South Central Wisconsin NCS
Dane County ARES

261. Re: [APRSSIG:6314] APRS and the NWS message #2

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 12 Nov 1996 15:17:51 -0600
To: aprssig@tapr.org
Message-ID: <v03007813aeae3932b5f9@[138.87.2.109]>
Rendered body type: text/plain

On Tue, 12 Nov 1996 13:59 John M Domblewski said:

>HAY YOU GUYS WHO ARE USING APRS WITH THE NWS PLEASE TELL THE REST OF US
>HOW AND WHY!!!!!!!!!!!!!!!

Can't speak for everyone because each area is unique and our operation is
less than one year old. Our NWS office has a responsibility area of 37
counties. They are severely undermanned and any electronic assistance that
doesn't interfere with their normal operation is welcome. The non-verbal
visual assistance of Amateur Radio reports coming in on a map that they can
compare to the reports they send out is welcome. Our NWS office does have
a 2 meter FM net control position that is manned during watches.

The local, county-wide in our ARES case, emergency communication is supplemented by an APRS operator, on 145.79, (one per voice net) entering reports that come in. Those are sent on a 445 MHz APRS 9600 baud backbone to the NWS office. In non-weather cases, the reports go to the ESDA office for dispersion to the affected agency. They would pass reports to Red Cross in the case of disaster surveys or Police in case of accidents or position of response vehicles. We have an elaborate SOP that is too lengthy to describe in the answer to this question. You are welcome to e-mail me directly (k9orp@amsat.org) for further discussions.

The value of APRS is the non-verbal aspect as well as time stamping and logging of reports. Non-verbal is important because an emergency is doing many things at once and most of the time two or more audio reports come in inadvertantly and are reported. The APRS acts like a situation board for all to see.

The comparison between packet APRS position reports and packet BBS reports are best described as brief versus lengthy. If you need the brevity, use APRS on APRS frequencies. If the traffic is a command, NTS or welfare related, use BBS type messages on regular packet channels. DO NOT USE THE SAME FREQUENCY!!!

If everyone (that wants to answer the APRS NWS question) briefly told what their area does, ONCE, then the rest of the WX and APRS chat can take place by direct E-Mail. I think it would make the rest of the APRSSIG happy.
:-)

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

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262. two digi's on one antenna

From: Bill Northup <northup@sw.stratus.com>
Date: Tue, 12 Nov 1996 16:44:15 -0500 (EST)
To: aprssig@tapr.org (APRS)
Cc: n1cpe@amsat.org, aps@ieee.org, bruce@testware.com, aardvark@krl.com,
eparish@netcom.com, eric@waaf.com, jorvedahl@aol.com,
koisj@ziplink.net, jgarrett@world.std.com,
neil%starfleet.bbn.com@bbn.com, phil@temples.com,
amirault@laraby.tiac.net, n1kxj@juno.com
Message-ID: <199611122144.QAA01986@blackdog.sw.stratus.com>
Rendered body type: text/plain

A few weeks ago someone wrote up how they put two digi's on the air using an existing antenna. At that time some of us here in the Boston area were planning how we could add an APRS digi to a site where we already had a packet digi on 145.030. We decided to take a different approach and now that we have it up and working I figured I would tell everyone what we did.

The group that was working on this were all members of the Minute Man Repeater Association and most of them are on the technical committee that sets up and supports the clubs 11 repeates (i'm the one that is not on the technical committee). A couple of the 2 meter repeaters had been replaced in the last few years and we found that we had 12 cans (filters) sitting around not being used. The normal 2 meter repeater split is 600khz and the split between the two digi was more (760Khz) than that so we figured we would use these filters thathad worked well with repeaters to isloate the two digi systems.

We took 6 band pass filters and tuned 3 of them to pass 145.030 and tuned the other 3 for for 145.79. With this we found that we had more than 100db of isolation between the two systems. We hooked up the transmitters and they are both working well. On the APRS side it is working better than it was was prior to this (on a lower antenna) just because the pass filter was filtering out lots of noise that had been getting to the receivers front end. The results is a digi in Marlboro Ma. that can now hear stations in Rhode Island, Northern Ct, mid NH, and into central Ma.

I would also like feedback from those in New England to get a feel for how wide the coverage really is. So if you see N1QPR-2 let me know. Tomorrow (Wed Nov 13) we will make this the WIDE for the Boston area and change another local digi, N1CPE-2 to RELAY.

just another idea

Bill

--

```
    Bill Northup, N1QPR         EMAIL n1qpr@amsat.org
                                QRP-NE #307
                                NorCal #1027
                                QRP-L  #356
```

263. APRS, DPGS, etc.

```
From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Tue, 12 Nov 1996 15:09:26 -0800
To: APRSSIG <aprssig@tapr.org>
Message-ID: <328903A6.59E2@wired.jpl.nasa.gov>
Rendered body type: text/plain
```

```
I have been thinking of getting the JPL Amateur Radio Club to do
something similar to what Tom Clark W3IWI is doing, providing DGPS
signals in th Los Angeles area. Our club trustee thinks it is a great
idea; however, he has expressed concerns over how this fits in under the
Part 97 rules.  He feels that it should go somewhere in the beacon band
as it is an automatically generated signal, has no control operator and
expects no connections. I said that it was a packet signal and could go
anywhere packet is allowed.

Any comments?
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  4800 Oak Grove Drive
Voice: +1-818-393-1214             |  M/S: 264-580
Pager: +1-818-423-2062             |  PASADENA CA 91109
```

264. Re: [APRSSIG:6319] two digi's on one antenna

```
From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 12 Nov 1996 16:41:15 -0600
To: aprssig@tapr.org
Message-ID: <v03007819aeae55cc6e32@[138.87.2.109]>
Rendered body type: text/plain
```

```
On Tuesday, 12 Nov 1996 15:51 Bill Northup said:
>We took 6 band pass filters and tuned 3 of them to pass 145.030 and tuned the
>other 3 for for 145.79. With this we found that we had more than 100db of

Also, using the UHF/VHF diplexor/splitter ($60 dollar things) at the
transmitter end of a feedline to a non-grounded 2 meter vertical, we use
445.925 APRS and 145.79 APRS on the same 2 meter antenna.   I might add...
at the second site we tried this, we had a DB products folded dipole 2
meter antenna on the tower.  IT DID NOT WORK.  Antenna must be the coax
vertical, gain type, non-grounded (probably non-gamma matched).

Now, if you get picky and want range comparisons, I can't help you because
this is the only Amateur antenna on the tower.  I can tell you that with
same power on each band.  The signal fades out at the same point on a dual
band mobile.

Bottom line is "It is better than nothing."




/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

265. Re: [APRSSIG:6318] Re: APRS and the NWS message #2

```
From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 12 Nov 1996 17:55:17 -0500
To: aprssig@tapr.org
Message-ID: <32890055.70A0@global2000.net>
Rendered body type: text/plain
```

```
Larry Keeran wrote:
>
>
> If everyone (that wants to answer the APRS NWS question) briefly told what
> their area does, ONCE, then the rest of the WX and APRS chat can take place
> by direct E-Mail.  I think it would make the rest of the APRSSIG happy.
> :-)
>
>
```

Hi Larry

Based on the private responses I've received this would make many people happy. I don't agree that the discussion should go private though. This is the stuff the sig is for or at least I thought it was (moderator?).

John N2OJY

---

266. Re: [APRSSIG:6315] Re: APRS and the NWS

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 12 Nov 96 17:58:57 -0500
To: <aprssig@tapr.org>
Message-ID: <199611122254.RAA11157@bridge.net>
Rendered body type: text/plain

>Hi Steve
>
>Thanks for the reply!
>
>I'm not sure of the capabilities. I think perhaps you are making the
>assumption that I know more than I do. If you could go one level lower
>you'd probably be on my level.
>
>John M Domblewski N2OJY
>

Ok, let me try again. What exactly do you want to accomplish with the installation. Something like this should start with a set of goals.

Do you want to support a network of automated weather stations, maybe mobile Skywarn spotters or tornado chasers? This is an application where APRS shines.

Do you want to diseminate forecasts and other weather products to a number of widely dispersed, pre-arranged sites such as emergency op centers or emergency shelters? Then regular packet is better.

Do you want to collect damage reports, casulty lists etc and forward them to an EOC? Regular packet.

Get the idea? Tell me what you want to do and I can help you pick. If you just pick a system, throw it up, and then see if you can put it to use you will be disappointed!

Steve K4HG

---

267. file transfer question

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 12 Nov 1996 18:25:46 -0500
To: aprssig@tapr.org
Message-ID: <3289077A.231C@global2000.net>
Rendered body type: text/plain

To The Authors'

Can you guys tell me about the file transfer capabilities of the various versions of APRS. Not only do we have a relationship with NWS but we have, after many years of trying, finally developed a relationship with our new county emergency manager and the local hospitals. They all express an interest in our digital capabilities but their interest seems to be in the transfer of things like lists of thinks.

TNX

John N2OJY

---

268. Re: [APRSSIG:6322] Re: APRS and the NWS message #2

From: "Thom Proehl" <tmproehl@nwlink.com>
Date: Tue, 12 Nov 1996 15:49:50 -0800
To: <aprssig@tapr.org>
Message-ID: <199611122349.PAA04788@montana.nwlink.com>
Rendered body type: text/plain

I Agree with John N2OJY - PLEASE do not take the discussion private, this is the type of thing we need to hear so we all do not have to reinvent the wheel.

Thanks,

Thom kc7fzo

> From: John M Domblewski <wendysue@global2000.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6322] Re: APRS and the NWS message #2
> Date: Tuesday, November 12, 1996 2:57 PM
>
> Larry Keeran wrote:
> >
> >
> > If everyone (that wants to answer the APRS NWS question) briefly told
what
> > their area does, ONCE, then the rest of the WX and APRS chat can take
place
> > by direct E-Mail. I think it would make the rest of the APRSSIG happy.
> > :-)
> >
> >
>
> Hi Larry
>
> Based on the private responses I've received this would make many people
> happy. I don't agree that the discussion should go private though. This
> is the stuff the sig is for or at least I thought it was (moderator?).
>
> John N2OJY
>

---

269. Re: [APRSSIG:6319] two digi's on one antenna

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Nov 1996 19:38:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961112193646.26496A-100000@arctic>
Rendered body type: text/plain

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 12 Nov 1996, Bill Northup wrote:

> I would also like feedback from those in New England to get a feel for how
> wide the coverage really is. So if you see N1QPR-2 let me know. Tomorrow
> we will make this the WIDE for the Boston area and change another
> local digi, N1CPE-2 to RELAY.

APRSdos REPLY/COMMENT: Bravo! Glad to see someone understands the
difference between WIDE's and RELAY's. Thanks! Good work!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

270. Re: APRS, DPGS, etc.

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Tue, 12 Nov 1996 19:39:47 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961113003947.006b2e2c@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

At 04:06 PM 12-11-96 -0600, Randy Hammock <hammock@wired.jpl.nasa.gov> wrote:
>I have been thinking of getting the JPL Amateur Radio Club to do
>something similar to what Tom Clark W3IWI is doing, providing DGPS
>signals in th Los Angeles area. Our club trustee thinks it is a great
>idea; however, he has expressed concerns over how this fits in under the
>Part 97 rules. He feels that it should go somewhere in the beacon band
>as it is an automatically generated signal, has no control operator and
>expects no connections. I said that it was a packet signal and could go
>anywhere packet is allowed.
>
>Any comments?
>--

It's important for APRS that the dgps be broadcast on the
same freq as APRS - 145.79 here in the DC area. That way you can
do regular APRS tracking and have differential at the same time:
one radio, one tnc, one computer. The chief disadvantage of the
USCG dgps broadcasts, besides the antique LF band, is that it
requires a separate radio.

Results here show that a 20 second dgps packet is sufficient to

keep your GPS locked on differential, and still doesn't clobber
the APRS traffic.

I believe the same logic that lets you bcst APRS beacons holds
for a dgps packet, too, so there's no administrative difficulty.

Cheers,
Bob Kirk
N3OZB

271. Re: [APRSSIG:6320] APRS, DPGS, etc.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 12 Nov 1996 19:58:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961112194056.26496B-100000@arctic>
Rendered body type: text/plain

On Tue, 12 Nov 1996, Randy Hammock wrote:

> I have been thinking of getting the JPL Amateur Radio Club to do
> something similar to what Tom Clark W3IWI is doing, providing DGPS
> signals in th Los Angeles area. Our club trustee thinks it is a great
> idea; however, he has expressed concerns over how this fits in under the
> Part 97 rules. He feels that it should go somewhere in the beacon band

APRSdos REPLY/COMMENT: Many people would probably agree that permanent
such installations would raise some eyebrows. Certainly in the long run
if this were perceived as a "service".

But what Tom is doing is certainly experimental and we are lucky to have
Tom here testing DGPS on Amateur radio in our area.

But APRS does not need the DGPS accurracy for its intended purpose, which
is tactical-real time communications and tracking moving vehicles. Even
if you are WALKING at just 3 MPH and your reporting rate is once a minute
(high by APRS standards) then you have moved almost 300 feet or more than
the average error of SA anyway. Why bother.

If you want a good fixed location, then DGPS helps, but leaving your GPS
in one spot and averaging positions over a length of time will also give
you excellent accurracy. We get consistent results to less than a foot
this way over a few days of averaging...

So why cut your APRS channel throughput in half by adding a DGPS if you
dont really need it. Again, Tom's DGPS here is not causing us any
problems, the net can handle it. But you might think about what you are
really trying to do before going to all the effort. If you have
mountains, then you might consider placing it on a big one, and on a
different FREQ so that it is available for others, but does not clog the
APRS channel.

THis is not to say that there aren't valid AMATEUR applications for
DGPS and better GPS accuracy, but from my perspective, APRS is not one of
them. hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

272. Re: [APRSSIG:6322] Re: APRS and the NWS message #2

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Tue, 12 Nov 1996 20:19:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611130119.UAA10587@itchy.mosquito.com>
Rendered body type: text/plain

At 16:57 11/12/96 -0600, you wrote:
>Larry Keeran wrote:
>>
>>
>> If everyone (that wants to answer the APRS NWS question) briefly told what
>> their area does, ONCE, then the rest of the WX and APRS chat can take place
>> by direct E-Mail. I think it would make the rest of the APRSSIG happy.
>> :-)
>>
>>
>
>Hi Larry
>

>Based on the private responses I've received this would make many people
>happy. I don't agree that the discussion should go private though. This
>is the stuff the sig is for or at least I thought it was (moderator?).
>
>John N2OJY

I would be interested in hearing how various NWS groups around the country
solve their individual stumbling blocks so that I could advise the group
here in SNJ how it's being done. There's more than one way to skin a cat.
Keep it on the SIG! That's how we learn... from each other.

Have fun es 73 de Boyd
w2hob@mosquito.com

---

273. Re: [APRSSIG:6324] file transfer question

From: John M Domblewski <wendysue@global2000.net>
Date: Tue, 12 Nov 1996 20:18:40 -0500
To: Steve Dimse <sdimse@bridge.net>
Cc: aprssig@tapr.org
Message-ID: <328921F0.575F@global2000.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >To The Authors'
> >
> >Can you guys tell me about the file transfer capabilities of the various
> >versions of APRS. Not only do we have a relationship with NWS but we
> >have, after many years of trying, finally developed a relationship with
> >our new county emergency manager and the local hospitals. They all
> >express an interest in our digital capabilities but their interest seems
> >to be in the transfer of things like lists of thinks.
> >
> APRS has no file transfer capability, messages are limited to single
> lines, and APRS is not efficient in the way it handles messages. If this
> is what you want, then regular packet would fit your needs better.
>
> Steve K4HG

It seems as though I want it all and perhaps the lights will come on
soon for me!:-)

when we do certain aspects of public service we would want to transfer a
list of names or something like that. Other times we would want to make
announcements. My problem is that I'm not sure what we want exactlly. I
think thats why I'm interested in the experiences of some of the members
of the group as to what works and what doesn't. I think that info will
help me to decide what we NEED to do. I'm not trying to be difficult.
We of course what to provide a means for the various emergency
organizations to gather and distribute information via amateur radio
digital modes.

John

---

274. Re: [APRSSIG:6312] Re: APRS and the NWS

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Tue, 12 Nov 1996 19:57:05 -0800
To: aprssig@tapr.org
Message-ID: <32894711.6E5F@n-link.com>
Rendered body type: text/plain

Does anyone have the complete setting for a KPC3+GPS for mobile.
I need to see if the perms are set correctly on my Mobile unit.
I have the GPS and KPC3 running in the auto but I see the data being
sent out but the $GPGGA always shows the same data and is not updating.
Help
Tommy KC5UJH

---

275. Southeast Digi's

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Tue, 12 Nov 1996 21:40:04 PST
To: aprssig@tapr.org
Message-ID: <19961112.220318.5599.9.kf4xh@juno.com>
Rendered body type: text/plain

Trying to compile list of permanent DIGI's located in Southeastern states

Anyone willing to contribute info-Please reply with call & location as you know it or that
you catch on your map as a digi to: kf4xh@juno.com

Thanks in advance

 Andy KF4XH
Byron, Peach Co. Ga

---

276. Got the Shirts

From: reeves <reeves@christenson.com>
Date: Tue, 12 Nov 1996 18:42:23 -0800
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961113024223.006821a8@hevanet.com>
Rendered body type: text/plain

Well, I finally got the 4 shirts I ordered. They look good.

Thanks Mike.

Ron Reeves
N7QXO
reeves@christenson.com

---

277. Re: [APRSSIG:6316] Re: Vacation Auto-Reply for APRS

From: David & Roxanne McCarthy <davidmc@goodnet.com>
Date: Tue, 12 Nov 1996 20:24:51 -0700
To: aprssig@tapr.org
Message-ID: <32893F70.4D04@goodnet.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Tue, 12 Nov 1996, Larry Keeran wrote:
>
> > >APRSdos REPLY/COMMENT: Nope, APRSdos will just stop accepting messages
> > >after 23.  From then on it will send out REJects instead of ACKS.
> >
> > I am getting BUSY from the site now (with O C T).  Is BUSY what connect
> > requests that are NAKed look like at my end? It doesn't answer a O Q
> > callsign or a ping from APRS either. I can connect to the NODE callsign ok.
>
> APRSdos REPLY/COMMENT:  APRS has nothing to do with CONNECTS.  BUSY means
> the TNC is connected to someone.  APRS will autmoatically force the TNC to
> disconnect every time it sends its STATUS BEACON. (at least once every 20
> minutes, so just wait.)   If someone connects to an APRS station it will
> go to blue screen (OCT) for 3 minutes, then it will also try to
> disconnect.
>
> APRS should not affect how the PBBS works however.
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html

I have a KPC-3.  The CMSG is set to PBBS.  With CT telling anybody
trying to connect they will be automatically forwarded to mt -1
mailbox.  They cannot connect to mycall this way so as not to interfere
with APRS.  You have to set USERS to 2 also.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

---

278. Re: [APRSSIG:6331] Re: APRS and the NWS

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 12 Nov 1996 19:27:10 -0800
To: aprssig@tapr.org
Message-ID: <199611130327.TAA08555@m1.sprynet.com>
Rendered body type: text/plain

```
At 19:58 11/12/96 -0600, you wrote:
>Does anyone have the complete setting for a KPC3+GPS for mobile.
>I need to see if the perms are set correctly on my Mobile unit.
>I have the GPS and KPC3 running in the auto but I see the data being
>sent out but the $GPGGA always shows the same data and is not updating.
>Help
>Tommy KC5UJH
>
```

If your $GPGGA string always shows the same data, then the most likely culprit is the GPS! If you are using a Garmin unit the most likely cause is not having a TRUE negative ELECTRICAL ground on the black wire. If you connect the black wire from the GPS to the -12 VDC (NEGATIVE) line then data will flow, otherwise nada....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

279. Re: APRS and the NWS message #2

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Wed, 13 Nov 1996 04:37:32 +0000
To: aprssig@tapr.org
Message-ID: <3289508C.5AA1@netins.net>
Rendered body type: text/plain

Thom Proehl wrote:
>
> I Agree with John N2OJY - PLEASE do not take the discussion private, this
> is the type of thing we need to hear so we all do not have to reinvent the
> wheel.
>
> Thanks,
> Thom kc7fzo
> ----------
I too, concur.
Bill W0OMV

---

280. Cse and Speed

From: rbost@itexas.net (Roy Bost)
Date: Tue, 12 Nov 1996 22:34:40 -0600
To: "APRS SIG" <aprssig@tapr.org>
Message-ID: <19961113043457168.AAA120@rbost.itexas.net>
Rendered body type: text/plain

I cannot get my Garmin-45 to send course and speed information to my KPC-3. $gprmc works fine except no course and speed and $gpvtg does not send course and speed. I'm using WinAPRS and have seen other stations with the red line for cse and speed so I dont't think it's the program. Does the Garmin-45 not send this data or is mine broke?

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N 97 48' 59"W

---

281. Re: [APRSSIG:6337] Cse and Speed

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 12 Nov 1996 21:49:39 -0800
To: aprssig@tapr.org
Message-ID: <199611130549.VAA13393@m1.sprynet.com>
Rendered body type: text/plain

At 22:39 11/12/96 -0600, you wrote:
>I cannot get my Garmin-45 to send course and speed information to my KPC-3.
>$gprmc works fine except no course and speed and $gpvtg does not send
>course and speed. I'm using WinAPRS and have seen other stations with the
>red line for cse and speed so I dont't think it's the program. Does the
>Garmin-45 not send this data or is mine broke?
>
>Roy Bost, N5TAM
>Granbury, Tx.
>rbost@itexas.net
>32 25' 33"N 97 48' 59"W
>

Do you have the black wire from the I/O port connected to ELECTRICAL ground? Do you have the I/O Setup set to NMEA/NMEA? Do you have NMEA-0183 v2.0 selected?

Those are the most likely problems...

Good luck!

73 de Jim, KU0G

Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

282. Re: [APRSSIG:6337] Cse and Speed

From: Robert Winingham <kc5ejk@onramp.net>
Date: Tue, 12 Nov 1996 23:51:47 -0600
To: aprssig@tapr.org
Cc: rbost@itexas.net
Message-ID: <v03007800aeaf0c6747a3@[199.1.11.119]>
Rendered body type: text/plain

>I cannot get my Garmin-45 to send course and speed information to my KPC-3.
>$gprmc works fine except no course and speed and $gpvtg does not send
>course and speed. I'm using WinAPRS and have seen other stations with the
>red line for cse and speed so I dont't think it's the program. Does the
>Garmin-45 not send this data or is mine broke?
>

I send RMC and GGA data as
that gives Course , speed and alt.
Check that you are using NMEA 0183 2.0 in the Garmin-45 I/O setup.

The latest version of MACAPRS has a bug that causes course and speed
vectors not to be displayed. I just use an older version. SO WinAPRS
may have the same problem but Mark fixes things fast so check the
latest version.

Here is what is in RMC and GGA

```
####################################################################

$GPRMC,123519,A,4807.038,N,01131.324,E,000.0,276.9,150895,000.5,E*73
       HHMMSS,V,DDMM.MMM,N,DDDMM.MMM,E,SPEED,TRACK,DATE  ,DEVIA,E*CS

HHM..:time UTC
V:      validity flag (V=invalid, A=valid)
DDM..:degree value of latitude
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
SPEED:speed over ground, measured in knots
TRACK:course over ground or track
DATE:   current date
DEVIA:magnetic deviation
E:      east/west (E/W)

####################################################################
$GPGGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42
       HHMMSS,DDMM.MMM,N,DDDMM.MMM,E,Q,NS,DOP,ALTI ,U,FF.F,U,?,?*CS

HHM..:time UTC
DDM..:degree value of latitude
N:      north/south (N/S)
DDD..:degree value of longitude
E:      east/west (E/W)
Q:      quality of fix(?)
ALTI:   integer value of height above sealevel
U:      units (M=meter)
?:      unknown
CS:     checksum

####################################################################
```

The latest version of MACAPRS has a bug that causes course and speed
not to be displayed. I just use an older version. SO WinAPRS may
have the same problem but Mark fixes things fast so check the latest
version.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

283. Re: [APRSSIG:6337] Cse and Speed

From: rsellers@rockford.com (Roger Sellers)
Date: Tue, 12 Nov 1996 23:54:36 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611130554.XAA11594@tapr.org>

Rendered body type: text/plain

```
>
>I cannot get my Garmin-45 to send course and speed information to my KPC-3.
>$gprmc works fine except no course and speed and $gpvtg does not send
>course and speed.  I'm using WinAPRS and have seen other stations with the
>red line for cse and speed so I dont't think it's the program.  Does the
>Garmin-45 not send this  data or is mine broke?
>
>Roy Bost, N5TAM
>Granbury, Tx.
>rbost@itexas.net
>32 25' 33"N   97 48' 59"W
>
>
Hello Roy,
  I have the I/O setup on mine reading:
NMEA/NMEA
NMEA 0183  1.5
4800 BAUD

  And it works fine. Check these settings out.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

284. The NMEA FAQ

From: Steve Boyle <sboyle@netcom.com>
Date: Tue, 12 Nov 1996 23:30:49 -0800
To: aprssig@tapr.org
Message-ID: <32897929.4F80@netcom.com>
Rendered body type: text/plain

```
Hello,

  I happened to find my copy of the NMEA FAQ.  I do not know when the
last time was it made the rounds (I have not been a member for very
long) or if there is a newer version.  Anyway, here it is:

Steve
KD6WXD


                      -------- Cut Here --------


                               The NMEA FAQ
                        Version 2.0  Jan. 1, 1996

Additions, corrections, and comments should be emailed to the author,
Peter Bennett  bennett@triumf.ca

Contents:

1.      What is NMEA?
  1.1     What is an NMEA Standard
  1.2     NMEA Address

2.      Electrical Interface

3.      NMEA-0180 and NMEA-0182
  3.1     Simple Format
  3.2     Complex Format

4.      NMEA-0183

  4.1     General Sentence Format
  4.2     Sentences sent by specific equipment
  4.3     Sample Sentences Dissected
    4.3.1   Standard Sentences
    4.3.2   Garmin Proprietary Sentences

5.      RS-232 connections

6.      About the author
  6.1    Acknowledgements
```

1. What is NMEA?

The National Marine Electronics Association is dedicated to the education and advancement of the marine electronics industry and the market which it serves.

It is a non-profit association composed of manufacturers, distributors, dealers, educational institutions, and others interested in peripheral marine electronics occupations
(quoted from a promo in "NMEA News")

1.1 What is an NMEA standard?

For the purposes of this article, an NMEA standard defines an electrical interface and data protocol for communications between marine instrumentation. (They may also have standards for other things.)

1.2 NMEA Address

P.O. Box 3435
New Bern NC, 28564-3435
U.S.A.
Phone: 919-638-2626
Fax: 919-638-4885
http://www.coastalnet.com/business/electronics/nmea/nmeawww.html

2. Electrical Interface

These standards allow a single "talker", and several "listeners" on one circuit. The recommended interconnect wiring is a shielded twisted pair, with the shield grounded only at the talker. The standards do not specify the use of any particular connector.

The NMEA-0180 and 0182 standards say that the talker output may be RS-232, or from a TTL buffer, capable of delivering 10 mA at 4 V. A sample circuit shows an open collector TTL buffer with a 680 ohm resistor to +12 V, and a diode to prevent the output voltage from rising above +5.7 V.

NMEA-0183 accepts this, but recommends that the talker output comply with EIA-422. This is a differential system, having two signal lines, A and B. The voltages on the "A" line correspond to those on the older TTL single wire, while the "B" voltages are reversed (while "A" is at +5, "B" is at ground, and vice versa)

In either case, the recommended receive circuit uses an opto-isolator with suitable protection circuitry. The input should be isolated from the receiver's ground.

In practice, the single wire, or the EIA-422 "A" wire may be directly connected to a computer's RS-232 input.

3. NMEA-0180 and NMEA 0182

NMEA-0180 and 0182 are very limited, and just deal with communcations from a Loran-C (or other navigation receiver, although the standards specifically mention Loran), and an autopilot.

From the information I have, it appears that 0180 and 0182 are identical. I suspect that equipment claiming to use NMEA-0180 will use the "simple" format described below, while those using NMEA-0182 will use the "complex" format. (but this is really just a guess... corrections??)

3.1 "Simple" data format

The simple format consists of a single data byte transmitted at intervals of 0.8 to 5 seconds, at 1200 baud with odd parity. Bits 5 - 0 give the cross-track error in units of 0.1 uS or 0.01

nautical mile. The error is given in offset binary, with a count of 1 representing full scale right error, 32 (hex 20) for on course, and 63 (hex 3f) full scale left error. Bit 6 is a 1 if the data is valid, and bit 7 is 0 to indicate the simple data format.

3.2 "Complex" data format

The complex format consists of a data block of 37 bytes of (mostly) readable ASCII text giving cross-track error, bearing to waypoint, present Lat/Long, and a binary status byte. The data block shall be sent at intervals of 2 to 8 sec. All bytes in the complex format have bit 7 = 1 to distinguish them from the simple format. It is permissible for a sending device to send both simple and complex data, and even to send a "simple" data byte in the middle of a "complex" data block.

Byte	Data	
1	$	
2	M	device
3	P	address
4	K = kilometres N = nautical miles U = microseconds	cross track error units
5 - 8	0 - 9 or .	cross track error value
9	L or R	cross track error position
10	T or M	True or Magnetic bearing
11 - 13	0 - 9	bearing to next waypoint
14 - 23	12D34'56"N or 12D34.56'N	present latitude
24 - 34	123D45'56"W or 123D45.67"W	present longitude
35	non-ASCII status byte bit 0 = 1 for manual cycle lock 1 = 1 low SNR 2 = 1 cycle jump 3 = 1 blink 4 = 1 arrival alarm 5 = 1 discontinuity of TDs 6 = 1 always	
36	"NUL" character (hex 80)(reserved status byte)	
37	"ETX" character (hex 83)	

Any unavailable data is filled with "NUL" bytes.

4. NMEA-0183

4.1 General Sentence Format

Under the NMEA-0183 standard, all characters used are printable ASCII text (plus carriage return and line feed).

The data is transmitted in the form of "sentences". Each sentence starts with a "$", a two letter "talker ID", a three letter "sentence ID", followed by a number of data fields separated by commas, and terminated by an optional checksum, and a carriage return/line feed. A sentence may contain up to 82 characters including the "$" and CR/LF.

If data for a field is not available, the field is simply omitted, but the commas that would delimit it are still sent, with no space between them.

Since some fields are variable width, or may be omitted as above, the receiver should locate desired data fields by counting commas, rather than by character position within the sentence.

The optional checksum field consists of a "*" and two hex digits representing the exclusive OR of all characters between, but not including, the "$" and "*". A checksum is required on some sentences.

The standard allows individual manufacturers to define proprietary sentence formats. These sentences start with "$P", then a 3 letter manufacturer ID, followed by whatever data the manufacturer wishes, following the general format of the standard sentences.

Some common talker IDs are:

GP	Global Positioning System receiver
LC	Loran-C receiver
OM	Omega Navigation receiver
II	Integrated Instrumentation (eg. AutoHelm Seatalk system)

4.2 Sentences sent by specific equipment

This section lists the sentence types used by various equipment. The format and data included in each sentence type is given in section 4.3.

Eagle AccuNav
    Standard: RMB, RMC, GLL, APB
    Proprietary: PSLIB
    It also pretends it's a Loran, sending LCGLL, as well as GPGLL

Garmin GPS-45 (and probably GPS-40 and GPS-90)
    Standard: BOD, GLL, RTE, RMB, RMC, GGA, GSA, GSV
    Proprietary: PGRME, PGRMM, PGRMZ

Garmin GPS-65 (and probably GPS-75)
    Standard: BWC, GLL, RMB, RMC, R00, WPL, XTE, VTG
    Proprietary: PGRMM, PGRMZ, PSLIB

Magellan Trailblazer
    Standard: APB, BWC, GGA, GLL, RMB, RMC, VTG
Trimble Ensign XL
    Standard: APA, BWC, BWR, GGA, GLL, RMB

Trimble Flightmate Pro and Scoutmaster
    Standard: APA, APB, BWC, GGA, GLL, GSA, GSV, RMB, RMC, VTG, WCV, XTE, ZTG

Autohelm Seatalk

Autohelm Seatalk is a proprietary bus for communications between various intruments. Some of the instruments can act as NMEA-0183 talkers or listeners. Data received from an external NMEA-0183 device will, if Seatalk understands the sentence, be re-transmitted, but not necessarily in the same sentence type.

The specific sentences sent will depend on the data available on the Seatalk bus (i.e. sentences containing wind speed and direction will only be sent if the system includes a wind instrument)

Seatalk output:
Standard: APB, BPI, BWC, VWR, VHW, DBT, GLL, HDM, HDT, HCS, MTW, VTG

Seatalk input:
Standard: APA, APB, RMB, XTE, XTR, BPI, BWR, BWC, BER, BEC,WDR, WDC, BOD, WCV, VHW, VWR, DBT

4.3 Sample Sentences Dissected

4.3.1 Standard Sentences

A talker typically sends a group of sentences at intervals determined by the unit's update rate, but generally not more often than once per second.

Characters following the "*" are a checksum. Checksums are optional for most sentences, according to the standard.

APB - Autopilot format B
APB,A,A,0.10,R,N,V,V,011,M,DEST,011,M,011,M

A	Loran-C blink/SNR warning
A	Loran-C cycle warning
0.10	cross-track error distance
R	steer Right to correct (or L for Left)

```
           N            cross-track error units - nautical miles
           V            arrival alarm - circle
           V            arrival alarm - perpendicular
           011,M        magnetic bearing, origin to destination
           DEST         destination waypoint ID
           011,M        magnetic bearing, present position to
destination
           011,M        magnetic heading to steer
                        (bearings could be given in True as 033,T)
           (note: some pilots, Roberston in particular, misinterpret
"bearing
           from origin to destination" as "bearing from present position
to
           destination".  This apparently results in poor performance if
the
           boat is sufficiently off-course that the two bearings are
           different.)

        BOD - Bearing - origin to destination waypoint
        BOD,045.,T,023.,M,DEST,START
           045.,T       bearing 045 True from "START" to "DEST"
           023.,M       breaing 023 Magnetic from "START" to "DEST"
           DEST         destination waypoint ID
           START        origin waypoint ID

        BWC - Bearing and distance to waypoint - great circle
        BWC,225444,4917.24,N,12309.57,W,051.9,T,031.6,M,001.3,N,004*29
           225444       UTC time of fix 22:54:44
           4917.24,N    Latitude of waypoint
           12309.57,W   Longitude of waypoint
           051.9,T      Bearing to waypoint, degrees true
           031.6,M      Bearing to waypoint, degrees magnetic
           001.3,N      Distance to waypoint, Nautical miles
           004          Waypoint ID

        BWR - Bearing and distance to waypoint - rhumb line
                (format same as BWC)

        DBT - Depth below transducer
        DBT,0017.6,f,0005.4,M
           0017.6,f     17.6 feet
           0005.4,M     5.4 Metres

        GGA - Global Positioning System Fix Data
        GGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42
           123519       Fix taken at 12:35:19 UTC
           4807.038,N   Latitude 48 deg 07.038' N
           01131.324,E  Longitude 11 deg 31.324' E
           1            Fix quality: 0 = invalid
                                     1 = GPS fix
                                     2 = DGPS fix
           08           Number of satellites being tracked
           0.9          Horizontal dilution of position
           545.4,M      Altitude, Metres, above mean sea level
           46.9,M       Height of means sea level above WGS84 geoid
           (empty field) time in seconds since last DGPS update
           (empty field) DGPS station ID number

        GLL - Geographic position, Latitude and Longitude
        GLL,4916.45,N,12311.12,W,225444,A
           4916.46,N    Latitude 49 deg. 16.45 min. North
           12311.12,W   Longitude 123 deg. 11.12 min. West
           225444       Fix taken at 22:54:44 UTC
           A            Data valid
             (Garmin 65 does not include time and status)

        GSV - Satellites in view

GSV,2,1,08,01,40,083,46,02,17,308,41,12,07,344,39,14,22,228,45*75
           2            Number of sentences for full data
           1            sentence 1 of 2
           08           Number of satellites in view
           01           Satellite PRN number
           40           Elevation, degrees
           083          Azimuth, degrees
           46           Signal strength - higher is better
           <repeat for up to 4 satellites per sentence>
                There my be up to three GSV sentences in a data packet
        HDM - Heading, Magnetic
        HDM,235.,M
           HDM          Heading, Magnetic
           235.,M       Heading 235 deg. Magnetic
            (HDG, which includes deviation and variation, is recommended
            instead)

        HSC - Command heading to steer
        HSC,258.,T,236.,M
           258.,T       258 deg. True
           236.,M       136 deg. Magnetic

        MTW - Water temperature, Celcius
        MTW,11.,C
           11.,C        11 deg. C

        R00 - List of waypoint IDs in currently active route

R00,MINST,CHATN,CHAT1,CHATW,CHATM,CHATE,003,004,005,006,007,,,*05
           (This sentence is produced by a Garmin 65, but is not listed
           in Version 2.0 of the standard.  The standard lists RTE for
           this purpose.)

        RMB - Recommended minimum navigation information (sent by nav.
                receiver when a destination waypoint is active)
        RMB,A,0.66,L,003,004,4917.24,N,12309.57,W,001.3,052.5,000.5,V*0B
           A            Data status A = OK, V = warning
           0.66,L       Cross-track error (miles), steer Left to correct
           003          Origin waypoint ID
           004          Destination waypoint ID
           4917.24,N    Destination waypoint latitude 49 deg. 17.24 min.
N
           12309.57,W   Destination waypoint longitude 123 deg. 09.57
min. W
           001.3        Range to destination, nautical miles
           052.5        True bearing to destination
           000.5        Velocity towards destination, knots
           V            Arrival alarm  A = arrived, V = not arrived
           *0B          mamdatory checksum

        RMC - Recommended minimum specific GPS/Transit data
        RMC,225446,A,4916.45,N,12311.12,W,000.5,054.7,191194,020.3,E*68
           225446       Time of fix 22:54:46 UTC
           A            Navigation receiver warning A = OK, V = warning
           4916.45,N    Latitude 49 deg. 16.45 min North
           12311.12,W   Longitude 123 deg. 11.12 min West
           000.5        Speed over ground, Knots
           054.7        Course Made Good, True
           191194       Date of fix  19 November 1994
           020.3,E      Magnetic variation 20.3 deg East
           *68          mandatory checksum

        RTE - Waypoints in active route

RTE,2,1,c,0,W3IWI,DRIVWY,32CEDR,32-29,32BKLD,32-I95,32-US1,BW-32,BW-198*69
           2            two sentences for full data
           1            this is sentence 1 of 2
           c            c = complete list of waypoints in this route
                        w = first listed waypoint is start of current
leg
           0            Route identifier
           W3IWI...     Waypoint identifiers

        VHW - Water speed and heading
        VHW,259.,T,237.,M,05.00,N,09.26,K
           259.,T       Heading 259 deg. True
           237.,M       Heading 237 deg. Magnetic
           05.00,N      Speed 5 knots through the water
           09.26,K      Speed 9.26 KPH

        VWR - Relative wind direction and speed
        VWR,148.,L,02.4,N,01.2,M,04.4,K
           148.,L       Wind from 148 deg Left of bow
           02.4,N       Speed 2.4 Knots
           01.2,M       1.2 Metres/Sec
           04.4,K       Speed 4.4 Kilometers/Hr

        VTG - Track made good and ground speed
        VTG,054.7,T,034.4,M,005.5,N,010.2,K
```

```
   054.7,T      True track made good
   034.4,M      Magnetic track made good
   005.5,N      Ground speed, knots
   010.2,K      Ground speed, Kilometers per hour
```

WCV - Waypoint Closure Velocity
WDC - Distance to Waypoint
WDR - Waypoint Distance, Rhumb Line

WPL - waypoint location

```
WPL,4917.16,N,12310.64,W,003*65
   4917.16,N    Latitude of waypoint
   12310.64,W   Longitude of waypoint
   003          Waypoint ID
```

When a route is active, this sentence is sent once for each waypoint in the route, in sequence. When all waypoints have been reported, GPR00 is sent in the next data set. In any group of sentences, only one WPL sentence, or an R00 sentence, will be sent.

XTE - Cross track error, measured

```
XTE,A,A,0.67,L,N
   A            General warning flag V = warning
                        (Loran-C Blink or SNR warning)
   A            Not used for GPS (Loran-C cycle lock flag)
   0.67         cross track error distance
   L            Steer left to correct error (or R for right)
   N            Distance units - Nautical miles
```

XTR - Cross-Track Error - Dead Reckoning

```
XTR,0.67,L,N
   0.67         cross track error distance
   L            Steer left to correct error (or R for right)
   N            Distance units - Nautical miles
```

4.3.2 Proprietary Sentences

The following are Garmin proprietary sentences. "P" denotes proprietary, "GRM" is Garmin's manufacturer code, and "M" or "Z" indicates the specific sentence type.

```
$PGRMZ,93,f,3*21
   93,f         Altitude in feet
   3            Position fix dimensions 2 = user altitude
                                        3 = GPS altitude
```

This sentence shows in feet, regardless of units shown on the display.

```
$PGRMM,NAD27 Canada*2F
   Currently active horizontal datum
```

Proprietary sentences to control a Starlink differential beacon receiver. (I assume Garmin's DBR is made by Starlink)

```
$PSLIB,,,J*22
$PSLIB,,,K*23
```

These two sentences are normally sent together in each group of sentences from the GPS.

The three fields are: Frequency, bit Rate, Request Type. The value in the third field may be:

J = status request
K = configuration request
blank = tuning message

When the GPS receiver is set to change the DBR frequency or baud rate, the "J" sentence is replaced (just once) by (for example): $PSLIB,320.0,200*59 to set the DBR to 320 KHz, 200 baud.

5. RS-232 connections

Although this is not really related to NMEA, many people want to connect a GPS to a computer, so need to know about the RS-232 serial ports on a computer.

The RS-232 standard defines two classes of devices that may communicate using RS-232 serial data - Data Terminal Equipment (DTE), and Data Communication Equipment (DCE). Computers and terminals are considered DTE, while modems are DCE. The standard defines pinouts for DTE and DCE such that a "straight through" cable (pin 2 to pin 2, 3 to 3, etc) can be used between a DTE and DCE. To connect two DTEs together, you need a "null modem" cable, that swaps pins between the two ends (eg. pin 2 to 3, 3 to 2). Unfortunately, there is sometimes disagreement whether a certain device is DTE or DCE, hence my standard RS-232 disclaimer:

if it doesn't work, swap pins 2 and 3!

The standard RS-232 connector is a 25 conductor DB-25, although many PCs (and some other equipment) now use a 9 pin DE-9 (often incorrectly called DB-9)

Serial Port Connections

Computer (DTE)				Modem
DB-25	DE-9	Signal	Direction	DB-25
2	3	Tx Data	->	2
3	2	Rx Data	<-	3
4	7	Request to send	->	4
5	8	Clear to send	<-	5
6	6	Data Set Ready	<-	6
7	5	signal ground		7
8	1	Data CarrierDetect	<-	8
20	4	Data Terminal Ready	->	20
22	9	Ring Indicator	<-	22

For NMEA-0183 interfacing, we are only concerned with Rx Data, signal ground (and possibly Tx Data, if we want the computer to talk to the GPS)

6. About the author

This FAQ was written by:
Peter Bennett
bennett@triumf.ca

I have an FTP site containing this file, a GPS FAQ, and other NMEA information files and PC programs for capturing and displaying NMEA data, and related things:

ftp://sundae.triumf.ca/pub/peter/index.html

6.1 Acknowlegments

I would like to thank the following for their contributions or corrections to this document:
Tom Clark, clark@tomcat.gsfc.nasa.gov
Bob Shearer, t.shearer@unixa.nerc-wallingford.ac.uk
David Steckler, davidst@nobeltec.com
Karl Olmstead, olmstead@ridgecrest.ca.us

```
Peter Bennett VE7CEI                | Vessels shall be deemed to be in
sight
Internet: bennett@triumf.ca         | of one another only when one can
be
Packet: ve7cei@ve7kit.#vanc.bc.ca   | observed visually from the other
TRIUMF, Vancouver, B.C., Canada     |                          ColRegs
3(k)
GPS and NMEA info and programs:
ftp://sundae.triumf.ca/pub/peter/index.html
```

---

285. Fw: GPS-20

From: "Matthew Kolade" <kolade@algonet.se>
Date: Wed, 13 Nov 1996 09:47:10 -0800
To: <aprssig@tapr.org>
Message-ID: <199611130849.JAA01993@ratatosk.algonet.se>
Rendered body type: text/plain

> From: Matthew Kolade <kolade@algonet.se>
> To: k1trs@msn.com
> Subject: GPS-20
> Date: den 8 november 1996 21:02
>
> Thanks Bill for your response.
> I have to be frank with you. I will say I don't know anything about

```
radio
> communication, but I am willing to learn. First I had a little
instruction
> to install the interface cable between serial port and GPS-20. Please I
> will like a diagram and little explanation of it.
> And I would like to know which of the software I can use  with GPS-20..
My
> aim is to communicate with satellite.
>
> Matthew Kolade
> Victory Int'l Reklam
> Fyrklöversgatan 22, 417 21 Göteborg,
> Sweden
> E-MAIL: kolade@algonet.se
>
```

---

286. Fw: GPS20

From: "Matthew Kolade" <kolade@algonet.se>
Date: Wed, 13 Nov 1996 09:47:18 -0800
To: <aprssig@tapr.org>
Message-ID: <199611130849.JAA02002@ratatosk.algonet.se>
Rendered body type: text/plain

```
----------
> From: Matthew Kolade <kolade@algonet.se>
> To: scott miller <scottm@telis.org>
> Subject: Re: GPS20
> Date:  den 8 november 1996 21:56
>
> Hello Scott
>    Thanks for your response. You sound like I cannot use GPS-20 alone
> without installing it with any other radio communication. If so, I must
> have to get one TNC. My problem is I know nothing about radio
communication
> but I am willing to learn.
> Please I would like to have a brief  diagram and instructions on how to
> install the cable interface between serial port and GPS-20.  I would also
> like to know which   software  to use with GPS-20.  My aim is to
> communicate with satellite.
> Thanks
>
> Matthew.
> ----------
> > From: scott miller <scottm@telis.org>
> > To: matthew <kolade@algonet.se>
> > Subject: GPS20
> > Date:  den 6 november 1996 19:40
> >
> > Matthew I have two GPS20's. I've installed one in ma TNC and the other
> > I am mounting in a box with a MIM module.but the first thing I did
> > was hook them to the laptop and do GPS-plots from aprs and that other
> > GPS Qbasic program that coimes with APRS .
> > What would u like to do with your GPS20?
> > Are you running APRS over there? And what kind of TNC do you have?
> > I'll try to help if I can . 73 Scott Miller KE6RKE from
> > Lake Tahoe,Ca.USA
> >
```

---

287. Re: [APRSSIG:6330] Re: file transfer question

From: Mark Sproul <sproul@ap.org>
Date: Wed, 13 Nov 1996 08:31:29 -0500
To: aprssig@tapr.org
Message-ID: <v03007801aeaf7dd4f8c5@[165.1.27.20]>
Rendered body type: text/plain

```
>when we do certain aspects of public service we would want to transfer a
>list of names or something like that. Other times we would want to make
>announcements. My problem is that I'm not sure what we want exactlly. I
>think thats why I'm interested in the experiences of some of the members
>of the group as to what works and what doesn't. I think that info will
>help me to decide what we NEED to do. I'm not trying to be difficult.
>We of course what to provide a means for the various emergency
>organizations to gather and distribute information via amateur radio
>digital modes.
>
>John

Keith and I working on some ideas for file transfer in Mac/WinAPRS, we dont
have them finalized yet and before we implement anything we have to discuss
```

```
it with Bob, but we have been working on ideas for this.  I have several
ideas in mind that will be of significant benifit to people working with
weather.


Mark

___________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

288. Re: [APRSSIG:6332] Southeast Digi's

From: Gary Arnold <garnold@naples.net>
Date: Wed, 13 Nov 1996 13:43:30 -0800
To: aprssig@tapr.org
Message-ID: <328A4102.4317@naples.net>
Rendered body type: text/plain

```
Andrew C. Middlebrooks wrote:
>
> Trying to compile list of permanent DIGI's located in Southeastern states
>
> Anyone willing to contribute info-Please reply with call & location as you know it or that
> you catch on your map as a digi to:     kf4xh@juno.com
>
> Thanks in advance
>
>  Andy  KF4XH
> Byron, Peach Co. Ga

Naples, FL: WB2WPA-3 26-07-23  81-45-58  100 watt ERP @ 160 feet
     (WIDE-RELAY-WX)
Ochopee, FL: KG5QD-3 25-53-44  81-16-52  100 watt ERP @ 100 feet
     (WIDE-RELAY)

73,
Gary WB2WPA
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"


"I went to a restaurant that serves 'breakfast at any time'.  I ordered
French Toast during the Renaissance."
           -- Steven Wright, perpipheral visionary
```

---

289. Re: [APRSSIG:6332] Southeast Digi's

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 13 Nov 1996 09:34:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961113093037.1972A-100000@arctic>
Rendered body type: text/plain

```
On Tue, 12 Nov 1996, Andrew C. Middlebrooks wrote:

> I'm Trying to compile a list of permanent DIGI's in the Southeast

APRSdos REPLY/COMMENT: I hope you have loooked, and replayed DIGI-SE.bk.
When you get your data, plese send it to me so I can update DIGI-SE.bk for
everyone else...  These files DIGI-E, SE and W should be the single and
best source of such info, but getting people to send me the info is like
pulling teeth, hi hi..

SEND ME ONLY CHANGES, however, I dont have time to search and compare
lists...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

290. Re: [APRSSIG:6286] Re: DLG Based Packet Location System -Reply

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 13 Nov 1996 08:43:32 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611131443.IAA14769@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Jim Olsen sez:
>
> On the USGS thing, I agree many of the maps are out of date, but many
> counties keep up to the minute versions in their GIS programs, which
> will all output standard format DLG.  I know our county does.  If nothing
> else, the rivers/topo/major roads don't change too much, so it is a great
> starting place for covering most of the country right out of the chute.

Arc and Intergraph will (fairly) painlessly export to OPTIONAL format DLG, but
at lease ARC 7.0 won't give us STANDARD format DLG.  I've not looked to export
much from Intergraph MGE but I'll look today, since I've gotta finish a GIS
for the meeting in Denver (where I'll be talking about APRS to the GIS
community...)

Jim,  I'll be re-visiting your original post and developing e-mail comments
after the meeting.

73, gerry
n5jxs@tamu.edu
```

---

291. Re: [APRSSIG:6326] Re: two digi's on one antenna

From: stanzepa@usa.nai.net (stan horzepa)
Date: Wed, 13 Nov 1996 09:56:35 -0500
To: aprssig@tapr.org
Message-ID: <v01540b02aeaf82fd61fc@[206.98.48.234]>
Rendered body type: text/plain

```
On Tue, 12 Nov 1996, Bill Northup wrote:

> I would also like feedback from those in New England to get a feel for how
> wide the coverage really is. So if you see N1QPR-2 let me know. Tomorrow
> we will make this the WIDE for the Boston area and change another
> local digi, N1CPE-2 to RELAY.

N1QPR-2 is on my map this morning. I'm hearing it via one WIDE. No sign of
N1CPE-2.

Stan, WA1LOU
```

---

292. Re: [APRSSIG:6344] Re: file transfer question

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 13 Nov 1996 10:01:04 -0500
To: aprssig@tapr.org
Message-ID: <3289E2B0.718E@global2000.net>
Rendered body type: text/plain

```
Mark Sproul wrote:
>
> >when we do certain aspects of public service we would want to transfer a
> >list of names or something like that. Other times we would want to make
> >announcements. My problem is that I'm not sure what we want exactlly. I
> >think thats why I'm interested in the experiences of some of the members
> >of the group as to what works and what doesn't. I think that info will
> >help me to decide what we NEED to do. I'm not trying to be difficult.
> >We of course what to provide a means for the various emergency
> >organizations to gather and distribute information via amateur radio
> >digital modes.
> >
> >John
>
> Keith and I working on some ideas for file transfer in Mac/WinAPRS, we dont
> have them finalized yet and before we implement anything we have to discuss
> it with Bob, but we have been working on ideas for this.  I have several
> ideas in mind that will be of significant benifit to people working with
> weather.
>
> Mark
>
> ___________________________________________________________________________
> Mark Sproul                        |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
> ______________________________________________________________________________
Thanks Mark! I don't think it's said enough but guys like you and your
brother and Bob are doing a fine thing for the rest of us and I for one
appreciate all of your hard work and dedication.

Keep up the good work guys!

73

John N2OJY
```

---

293. Re: [APRSSIG:6320] APRS, DPGS, etc.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 13 Nov 1996 09:18:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611131518.JAA15768@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Randy,

My take on it is, it's packet, it's a service to local amateurs (eg., QST).
Therefore, with appropriate ID'ing it could go whereever the APRS activity is.

I'll be putting up a DPGS beacon here in College Station, Texas, but it'll be
on commercial freq's... because that's where the folks paying for it are doing
AVL work. Still and all, I'll be publishing the frequency and possibly
splitting off the feed to a 145.79 transmitter sometime in the future.

73, gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
******************************************************************************
```

---

294. Re: [APRSSIG:6304] HF/VHF Gateway and DSP-2232

From: nickart@midtenn.net (Nicholas R. Smith)
Date: Wed, 13 Nov 1996 11:24:51 GMT
To: aprssig@tapr.org
Message-ID: <199611131124.LAA19748@sneezy.midtenn.net>
Rendered body type: text/plain

```
>I am considering implementing an HF/VHF Gateway using my AEA DSP-2232.
>The manual talks about crossband CONNECTIONS but does not discuss
>crossband digipeating.
>
>Has anyone set up such a configuration? How did you set the parameters?
>--
>Ron W5RKN
>
>also:
>rparsons@bga.com
>
>
Dear Ron:

I am using a DSP 2232 on gateway and it works fine.  Just follow the
instructions on setting the gate way under unproto.  Use the "U" command and
set to Bob's instructions.  Set the MYGATE to GATE and it will gateway HF to
VHF.  Works well and if you have any more questions let me know.

Thanks
Nick Smith WA4GKM

Editor - "Amateur Radio Trader"
Chief Pilot - Consultant - "Trade-A-Plane"

e-mail wa4gkm@amsat.org
800-774-2623 voice
800-423-9030 fax
```

---

295. GPS 20 - ???

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 13 Nov 1996 09:23:44 -0700
To: aprssig@tapr.org

Message-ID: <2.2.32.19961113162344.0068c8b8@mailhost.primenet.com>
Rendered body type: text/plain

I was with a friend, WB7ULN, over the weekend and he was really taken with GPS. I told him about TAPR's GPS 20 purchase and he is quite interested. I would appreciate the particulars.....how much, where to order, etc.

In advance. THANKS,

Alan

Alan K. Unangst, WC7R
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

296. Re: [APRSSIG:6324] file transfer question

From: dougwe@ccintnet.wrq.com
Date: Wed, 13 Nov 96 08:22:44 PST
To: aprssig@tapr.org
Message-ID: <9610138479.AA847902291@ccintnet.wrq.com>
Rendered body type: text/plain

John, you probably want to set up tcp/ip on a separate frequency for that. IP is an outstanding choice for file transfers - you can request multiple files at once with the mget command, and the link will auto recover without a whole lot of operator intervention.

I strongly suggest you do it at 9600 or above, though. 1200 does work, but it's painfully slow.

73,
Doug
K7IP

To The Authors'

Can you guys tell me about the file transfer capabilities of the various versions of APRS. Not only do we have a relationship with NWS but we have, after many years of trying, finally developed a relationship with our new county emergency manager and the local hospitals. They all express an interest in our digital capabilities but their interest seems to be in the transfer of things like lists of thinks.

TNX

John N2OJY

---

297. Re: [APRSSIG:6344] Re: file transfer question

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Wed, 13 Nov 1996 17:50:55 GMT
To: aprssig@tapr.org
Message-ID: <328a0998.2458058@mail.mergetel.com>
Rendered body type: text/plain

On Wed, 13 Nov 1996 07:56:52 -0600 (CST), you wrote:

```
>
>>when we do certain aspects of public service we would want to transfer a
>>list of names or something like that. Other times we would want to make
>>announcements. My problem is that I'm not sure what we want exactlly. I
>>think thats why I'm interested in the experiences of some of the members
>>of the group as to what works and what doesn't. I think that info will
>>help me to decide what we NEED to do. I'm not trying to be difficult.
>>We of course what to provide a means for the various emergency
>>organizations to gather and distribute information via amateur radio
>>digital modes.
>>
>>John
>
>Keith and I working on some ideas for file transfer in Mac/WinAPRS, we dont
>have them finalized yet and before we implement anything we have to discuss
>it with Bob, but we have been working on ideas for this.  I have several
>ideas in mind that will be of significant benifit to people working with
>weather.
>
>
>Mark
>
```

```
>__________________________________________________________________________
>Mark Sproul                      |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |
>sproul@ap.org                    |Work: 609-860-7120
>North Brunswick, NJ              |Fax:  609-860-7129
>http://msproul.rutgers.edu/
>__________________________________________________________________________
>
Am I missing the point of APRS,  position reporting of mobiles, bases
and wx reports and one line emegency traffic.

Will not File transfers kill the aprs frequency altogeather, I think
that this type of transfers should be left to regular packet
frequencies using regular bbs's etc not on APRS, its starting to get
more than 100% in this area all the time now.

I guess I better put my flame suit on...
Just my opinion

73 de Ron                                     Best Regard
Email:  rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

---

298. [Q] KPC-3

From: "Benjamin K. Derry" <derryb@galesburg.net>
Date: Wed, 13 Nov 1996 11:07:11 -0600
To: aprssig@tapr.org
Message-ID: <199611131707.LAA30493@dialup1.galesburg.net>
Rendered body type: text/plain

```
Hi I have a KPC-3 and wanted to know what is the newest ROM version. I have
5.1 and it doesn't seem to have the APRS mode.

Thanks,
Ben
```

---

299. Re: APRS, DPGS, etc.

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Date: Wed, 13 Nov 1996 11:44:20 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961113164420.0087ee24@neptune.gsfc.nasa.gov>
Rendered body type: text/plain

```
At 19:01 11/12/96 -0600, Bob Bruninga <bruninga@nadn.navy.mil> wrote:
>On Tue, 12 Nov 1996, Randy Hammock wrote:
>
>> I have been thinking of getting the JPL Amateur Radio Club to do
>> something similar to what Tom Clark W3IWI is doing, providing DGPS
>> signals in th Los Angeles area. Our club trustee thinks it is a great
>> idea; however, he has expressed concerns over how this fits in under the
>> Part 97 rules.  He feels that it should go somewhere in the beacon band
>
>APRSdos REPLY/COMMENT:  Many people would probably agree that permanent
>such installations would raise some eyebrows.  Certainly in the long run
>if this were perceived as a "service". [...]
>

I think we can assume the eyebrows will stay pretty flat. No one
has objected to such permanent installations as, say, weather stations
cranking out over APRS, and that's a pretty nice service.  I think
we're ok. Hate to be told to turn off those Ultimeters & Davis'.
Beacons on APRS are pretty well accepted, and after all, dgps
is closer to AP(osition)RS than AW(eather)RS.



Bob Kirk
N3OZB
```

---

300. Re: [APRSSIG:6352] GPS 20 - ???

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 13 Nov 1996 11:39:09 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aeafb4cbf194@[199.1.11.113]>
Rendered body type: text/plain

```
>I was with a friend, WB7ULN, over the weekend and he was really taken with
>GPS. I told him about TAPR's GPS 20 purchase and he is quite interested. I
```

```
>would appreciate the particulars.....how much, where to order, etc.

Check out www.tapr.com it is ALL there.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

301. Re: [APRSSIG:6354] Re: file transfer question

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 13 Nov 1996 12:38:52 -0500
To: aprssig@tapr.org
Message-ID: <328A07AC.271C@global2000.net>
Rendered body type: text/plain

```
Ronald Kramer wrote:
>
> On Wed, 13 Nov 1996 07:56:52 -0600 (CST), you wrote:
>
> >
> >>when we do certain aspects of public service we would want to transfer a
> >>list of names or something like that. Other times we would want to make
> >>announcements. My problem is that I'm not sure what we want exactlly. I
> >>think thats why I'm interested in the experiences of some of the members
> >>of the group as to what works and what doesn't. I think that info will
> >>help me to decide what we NEED to do. I'm not trying to be difficult.
> >>We of course what to provide a means for the various emergency
> >>organizations to gather and distribute information via amateur radio
> >>digital modes.
> >>
> >>John
> >
> >Keith and I working on some ideas for file transfer in Mac/WinAPRS, we dont
> >have them finalized yet and before we implement anything we have to discuss
> >it with Bob, but we have been working on ideas for this.  I have several
> >ideas in mind that will be of significant benifit to people working with
> >weather.
> >
> >
> >Mark
> >
>
>___________________________________________________________________________
> >Mark Sproul                      |Amateur Radio: KB2ICI
> >Software Engineer @ Assoc Press  |
> >sproul@ap.org                    |Work: 609-860-7120
> >North Brunswick, NJ              |Fax:  609-860-7129
> >http://msproul.rutgers.edu/
>
>___________________________________________________________________________
> >
> Am I missing the point of APRS,  position reporting of mobiles, bases
> and wx reports and one line emegency traffic.
>
> Will not File transfers kill the aprs frequency altogeather, I think
> that this type of transfers should be left to regular packet
> frequencies using regular bbs's etc not on APRS, its starting to get
> more than 100% in this area all the time now.
>
> I guess I better put my flame suit on...
> Just my opinion
>
> 73 de Ron                                    Best Regard
> Email:  rkramer@mergetel.com      ve3mx@mergetel.com
> Packet: ve3mx@ve3snp

Hi Ron

I'm just trying to determine the overall capabilities.

John
```

302. APRS and NWS Question #3

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 13 Nov 1996 12:49:28 -0500
To: aprssig@tapr.org
Message-ID: <328A0A28.4028@global2000.net>
Rendered body type: text/plain

Hi All

Thanks to all for your input...

Ok lets pretend I'm NWS and I don't have a clue about this APRS stuff.
Give me the "pitch" as to why I should have this system. You know
"features and benifits".

I very much appreciate the input so far but I think everyone is
assumming I know more that I do. This is one of those "Keep It Simple
Stupid" kind of situations. No one has articulated the reason that APRS
is so well suited to the emergency communications arena.

John

---

303. [Fwd: Help on APRS with KAM+]

From: Doug Wetzel <dougwe@wrq.com>
Date: Wed, 13 Nov 1996 09:59:35 -0800
To: aprssig@tapr.org
Message-ID: <328A0C87.808@wrq.com>
Rendered body type: text/plain

Can someone with a KAM please respond to this fellow via email?

Thanks!

Doug
K7IP

---

304. KPC3+GPS for mobile

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 13 Nov 1996 12:28:34 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aeafba3a3860@[199.1.11.153]>
Rendered body type: text/plain

>Does anyone have the complete setting for a KPC3+GPS for mobile.
>I need to see if the perms are set correctly on my Mobile unit.
>I have the GPS and KPC3 running in the auto but I see the data being
>sent out but the $GPGGA always shows the same data and is not updating.
>Help

Subject changes from 'APRS and the NWS" to KPC3+GPS for mobile

If the DOSaprs doc file KPC3.txt needs more setting information
to understand how to use the GPS mode let me or BOB know and
it can be updated.

If you are only going to output one NMEA value try $GPRMC.
Good news it that the KPC-3 can output four different NMEA
types.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

305. Re: [APRSSIG:6356] Re: APRS, DPGS, etc.

From: dougwe@ccintnet.wrq.com
Date: Wed, 13 Nov 96 10:36:38 PST
To: aprssig@tapr.org
Message-ID: <9610138479.AA847910373@ccintnet.wrq.com>
Rendered body type: text/plain

I've just noticed that my configuration example files don't include
anything on Peet and Davis remotes (WX station and tnc only, no
colocated APRS). Would anyone who operates these mind please sending
me pinouts and command strings to get them working? Private email is
best...I'm compiling a "help" manual for our local folk..

Thanks!

Doug
K7IP
dougwe@wrq.com

306. GARMIN GPS45XL Data Cable

From: jud <judlynn@norfolk.infi.net>
Date: Wed, 13 Nov 1996 15:03:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611132003.PAA21045@mh004.infi.net>
Rendered body type: text/plain

I have been using the Garmin Data Cable to connect my GPS45XL to my KPC-3. The only problem with that is the power pin is not connected and you must use the units batteries. I just received a Power/Data cable from GARMIN and I now have external power going to the GPS45XL. I was wondering if the red wire for power might be in the Data cable but just not connected to the 9 pin plug. I tried finding it by sticking a needle in the cable and using a multi-meter, no luck. I then cut the plug off and had a good look see. Its not there. I installed a new plug and it is as good as new. Just a tip, don't cut the plug off the Data cable looking for the power wire. 73, Jud

```
                              ))(((((
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO=========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

---

307. RE: [APRSSIG:6357] Re: GPS 20 - ???

From: CHEAD@CESADM.CORP.ti.com
Date: Wed, 13 Nov 1996 14:12:31 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@CESADM.CORP.ti.com
Message-ID: <961113141231.2a600a32@CESADM.CORP.TI.COM>
Rendered body type: text/plain

Bob wrote:
snip...
>
>Check out www.tapr.com it is ALL there.
>
>73
>
>Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

except that it should be "www.tapr.org"! Close, however...

73 Claude
K5DTN
chead@cesadm.corp.ti.com (new e-mail address)

---

308. Re: [APRSSIG:6355] [Q] KPC-3

From: byoung@qni.com
Date: Wed, 13 Nov 1996 16:20:12 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611132220.QAA22522@ultra.qni.com>
Rendered body type: text/plain

On Wed, 13 Nov 1996, "Benjamin K. Derry" <derryb@galesburg.net> wrote:
>Hi I have a KPC-3 and wanted to know what is the newest ROM version.
>I have 5.1 and it doesn't seem to have the APRS mode.
>Thanks,
>Ben

Ben,

What you're probably referring to is "built-in GPS capability". That code is in the version 6.0 ROM, which I believe is the current revision. You don't *need* the current ROM to run APRS with a PC, only if you plan to build a "stand-alone tracker" that will interface the TNC and the GPS directly. Version 5.1 works fine for a QTH or even a mobile that interfaces the TNC and GPS through a computer. That said, you can obtain the upgrade ROM from Kantronics for a reasonable fee (around $29-$39 if I remember correctly...). Check out Kantronics WWW site for additional info (http://www.kantronics.com).

Bill Young
byoung@qni.com
KB0UZQ

309. Re: [APRSSIG:6200] Re: GPS Antennas for the Garmin GPS

From: dennis@zone5.com (Dennis Hudson)
Date: Wed, 13 Nov 1996 17:29:21 -0500
To: aprssig@tapr.org
Message-ID: <v01540b04aeaffb0df14e@[205.247.145.86]>
Rendered body type: text/plain

```
>The paccomm active antenna for about 50 bucks (really a Trimble), is a
>steal. It peforms perfectly with the 40. You do have to put on your own
>bnc...it comes with an SMB or SMA (can't keep them straight). Lots of
>people I know are using it and Gwynn is providing them to the amateur

I really enjoy my antenna. I think the connector is a SMC which is even worse.

-dennis N2LBT

***************************
Dennis J. Hudson       dennis@zone5.com
Manager, IS              Zone 5 Prepress
8 Corporate Circle    Albany, NY 12203
518 464-2800         518 456-8312 (fax)
```

---

310. help needed for CalComp 2500 Digitizer

From: Bob Derderian <n2iph@cyberenet.net>
Date: Wed, 13 Nov 1996 17:46:52 -0500
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <328A4FDC.7A61@cyberenet.net>
Rendered body type: text/plain

```
Hello All,

I have a CalComp 2500 digitizer that I would like to use for making
local maps, but am not able to get the tablet communicating with the
computer 'cause I do not have the manual for it and do not know how to
use the built-in menu system of the tablet to configure it.

I went to the CalComp website and have the latest drivers and have them
installed per instruction, except for the section that says the tablet
needs to be set to a particular mode and refers one to "see the manual".

Anyone have a manual for the 2500, my model is a 25183, built in
Aug, 1988. Is there an overlay that has the menu commands on it? When I
go into Setup from the menu bar at the top of the tablet, and then click
on the tablet active area below each of the menu headings, things change
in the configuration of the tablet but without the overlay I have no
idea of what I am changing.

I tried opening a dumb terminal window to monitor the comm port and see
if anything was fed out on the port when making configuration changes
but see nothing.

Any help or path to a known source for manual and/or overlay would be
appreciated.

TNX, Bob
```

---

311. Re: [APRSSIG:6275] Re: Confused and/or missing something

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 13 Nov 1996 18:53:30 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611112138.A23380-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
This can't, of course, be just any old TNC.  It must be a 1200 bps
VHF/UHF type that 'recognizes' the NMEA string sent out the serial line
of the TNC.  There are many on the market, such as the Kantronics KPC3,
the Picopacket by PacComm, and even the AEA PK96 and many others.  Just
any old TNC may not do the job.

The TNC must be set up ahead of time with a terminal or computer to
operate with the GPS.  Once all this is done you can bundle it together
with your GPS and your radio.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us
```

On Mon, 11 Nov 1996, David McCarthy wrote:

> Dayglo wrote:
>
> > I want to take my spare radio (HTX-202) and a
> > GPS receiver (Probbably the TAPR GPS 20) and place it in my car. I do not
> > have a spare computer or TNC for this so I was wondering if this possible
> > without a computer/TNC?
>
> You have to have a TNC to packetize your data. You can then set it up
> with your computer/software, then disconnect for a stand alone tracker.
> --
> David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
> email: davidmc@goodnet.com packet: kc7ayx@kc7y.az.usa.noam
> Visit the family homepage: http://www.goodnet.com/~davidmc/
> "As for me and my house, we will serve the Lord." Jos 24:15
>

312. Re: [APRSSIG:6288] help

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 13 Nov 1996 19:08:25 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611131902.A10886-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

Do you see anything coming in view on the bottom line? Text? Station
calls? If not, then check your 'system', meaning com: port, baud rate,
etc. If you do see stuff coming on the bottom of the screen then let us
know.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Mon, 11 Nov 1996, Barbara A. Urban wrote:

> Can anyone give me any hints or sugestions.Can't seem to see any other
> stations on the map screen.Everything else appears to be working
> ok.Have KPC-3 Kantronics TNC,486 computer,aprs77d program.Thanks.
> Rich
>

313. Re: [APRSSIG:6360] [Fwd: Help on APRS with KAM+]

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Wed, 13 Nov 1996 19:57:46 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611131900.A1009-0100000@bcfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

I use a KAM and the APRS program doesn't always transmit as it thinks it
is. I made sure that the streamsw is set to ~A (Tilde A) for HF and |A
for VHF. I then sometimes have to do a C B V, C B H sequence, or vice
versa, to get the alternate band to transmit. That combination always
works, assuming your cabling is correct. Good luck.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Wed, 13 Nov 1996, Doug Wetzel wrote:

> This is a multi-part message in MIME format.
>
> --------------31B91C2ACF9
> Content-Type: text/plain; charset=us-ascii
> Content-Transfer-Encoding: 7bit
>
> Can someone with a KAM please respond to this fellow via email?
>
> Thanks!
>
> Doug
> K7IP
>
> --------------31B91C2ACF9

```
> Content-Type: message/news
> Content-Transfer-Encoding: 7bit
> Content-Disposition: inline
>
> Path: wrq.com!netnews.nwnet.net!arclight.uoregon.edu!feed1.news.erols.com!news
> From: dwthomas@erols.com (David Wm. Thomas)
> Newsgroups: rec.radio.amateur.digital.misc
> Subject: Help on APRS with KAM+
> Date: Tue, 12 Nov 1996 23:16:57 GMT
> Organization: Erol's Internet Services
> Message-ID: <56b0k7$adl@boursy.news.erols.com>
> NNTP-Posting-Host: war-as1s09.erols.com
> X-Newsreader: Forte Free Agent 1.0.82
>
> I am trying to get my KAM+ working with APRS, Version 7.4.  I have
> tried older versions and and they all do the same.  I am trying to get
> it to go into the HF mode.  The software receives the packets and
> everything fine, it just won't transmit.  Do I have to have my VHF
> radio hooked up with it also?  The VHF part seems to work just fine.
> I have tried the ALT-S, the Controls menu and setting up 2 port and
> selecting HF also.  When I hit the tab key, the screen says 2*HF.  I
> have tried just HF and nothing else seems to work.  When I try to send
> a beacon, the screen says ..transmitting... but nothing happens.  I am
> using a ICOM 738 and it works with the KAM+ fine with all other
> software, like Hostmaster and others.  I noticed that if I go into the
> Operations menu and athen into the cmd. mode, I can set the beacon to
> transmit every 1 minute, and the HF rig does transmit packets,
> although I don't know what they are, I assume that it is the beacon.
> Then I can go back and shut off the beacon. and everything continues
> the same.  Am I missing something?   Can I use the APRS software just
> with the HF rig?
>
> Dave, K3MWT
>
>
> --------------31B91C2ACF9--
>
```

---

314. Re: [APRSSIG:6354] Re: file transfer question

From: "BS" <steved@vianet.on.ca>
Date: Wed, 13 Nov 1996 19:56:00 -0500
To: <aprssig@tapr.org>
Message-ID: <199611140111.UAA23237@vianet.on.ca>
Rendered body type: text/plain

```
I second that one Ron!!!!

Steve Dubois VA3HOI
CANWARN SPOTTER(Environment Canada)
(S)huttle(A)mateur(R)adio(EX)periment STATION
APRS,WinAPRS,APRTRAK

E-mail:steved@vianet.on.ca



----------



> >
> Am I missing the point of APRS,  position reporting of mobiles, bases
> and wx reports and one line emegency traffic.
>
> Will not File transfers kill the aprs frequency altogeather, I think
> that this type of transfers should be left to regular packet
> frequencies using regular bbs's etc not on APRS, its starting to get
> more than 100% in this area all the time now.
>
> I guess I better put my flame suit on...
> Just my opinion
>
> 73 de Ron                                    Best Regard
> Email:  rkramer@mergetel.com      ve3mx@mergetel.com
> Packet: ve3mx@ve3snp
>
```

---

315. Re:

From: aprs@juno.com (ap rs)
Date: Wed, 13 Nov 1996 21:07:11 EST

To: lourigan@STC.Net
Cc: aprssig@tapr.org
Message-ID: <19961113.210532.9110.1.aprs@juno.com>
Rendered body type: text/plain

```
Tom


You have "laptop scrunch syndrome".
I think it is because your screen can display more than the standard EGA
(or is it VGA- never can remember). The computer wants to keep the same
"Aspect ratio", so it shrinks the display.

My IBM Thinkpad has it, but the setup program has a feature called
"vertical expansion" that stretches everything just enough to fill the
screen back up.

Unless Toshiba has a utility, Ii think u r out of luck.  I know of none
(other than the Thinkpad) that do.


This was discussed here a year ago pretty extensively.

On Fri, 25 Oct 1996 14:14:54 -0400 (EDT) lourigan@STC.Net writes:
On the Toshiba the APRS display does not
>fill the
>display.  The display is squashed a little vertical.  A circle looks
>likd an
>oval.  The width is not were it should be either.  Other DOS text
>programs
>run ok.  It seems to be only the APRS screen that is screwy.
```

---

316. Re: [APRSSIG:6333] Got the Shirts

From: kd4emi@juno.com (Michael A. Kantor)
Date: Wed, 13 Nov 1996 21:24:21 EST
To: aprssig@tapr.org
Message-ID: <19961113.212309.5375.4.KD4EMI@juno.com>
Rendered body type: text/plain

```
Thanks..hope you like them.. I have all of them in stock now and there
should not be any delays..

Sorry for the inconvience..


Mike

On Tue, 12 Nov 1996 20:48:35 -0600 (CST) reeves <reeves@christenson.com>
writes:
>Well, I finally got the 4 shirts I ordered.  They look good.
>
>Thanks Mike.
>
>Ron Reeves
>N7QXO
>reeves@christenson.com
>
>
```

---

317. Re: [APRSSIG:6318] Re: APRS and the NWS message #2

From: Paul Moller <paulmoll@enteract.com>
Date: Wed, 13 Nov 1996 21:35:24 -0600
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961113212831.006ad02c@enteract.com>
Rendered body type: text/plain

```
I have nothing at all to do with the NWS, I just thought I would jump in on
this thread for a brief comment.

Are you aware that the digital cellular phone community is working on a
system by which your digital cellular phone will be used to send WX info
directly to users in certain areas. In other words, since the digital
cellular network will know where your are at within +/- 125 meters, and has
one way messaging capability, it WILL be sending weather watches and
warnings for display on the phone.

Perhaps it is important to set up APRS as a WX uplink path, and let the NWS
take care of downlink to the public.
```

```
At 03:22 PM 11/12/96 -0600, you wrote:
>On Tue, 12 Nov 1996 13:59 John M Domblewski said:
>
>>HAY YOU GUYS WHO ARE USING APRS WITH THE NWS PLEASE TELL THE REST OF US
>>HOW AND WHY!!!!!!!!!!!!!!!!
>
WD9ABE
Paul Moller
```

---

318. Re: [APRSSIG:6363] GARMIN GPS45XL Data Cable

From: "David W. McNeil" <ki5vm@flash.net>
Date: Wed, 13 Nov 1996 21:35:57 -0600
To: aprssig@tapr.org
Message-ID: <328A939D.410D@flash.net>
Rendered body type: text/plain

```
jud wrote:
>
>  I have been using the Garmin Data Cable to connect my GPS45XL to my KPC-3.
> The only problem with that is the power pin is not connected and you must
> use the units batteries. I just received a Power/Data cable from GARMIN and
> I now have external power going to the GPS45XL.  I was wondering if the red
> wire for power might be in the Data cable but just not connected to the 9
> pin plug.  I tried finding it by sticking a needle in the cable and using a
> multi-meter, no luck.  I then cut the plug off and had a good look see. Its
> not there. I installed a new plug and it is as good as new. Just a tip,
> don't cut the plug off the Data cable looking for the power wire. 73, Jud
>                               ))(((((
>                               )_   _(
>                               [o   o]
> ==========================OOO===(_)===OOO==========================
>                           Jud French, KE4HFX
>                        judlynn@norfolk.infi.net
> ====================================================================
> 5423 Barnhollow Rd.
> Norfolk, VA 23502-3604
```

[Attachment: Dogrun.gif; image/gif; 12,972 bytes]

---

319. Re: [APRSSIG:6363] GARMIN GPS45XL Data Cable

From: "David W. McNeil" <ki5vm@flash.net>
Date: Wed, 13 Nov 1996 21:37:59 -0600
To: kj5jy@flash.net, aprssig@tapr.org
Message-ID: <328A9417.34C0@flash.net>
Rendered body type: text/plain

```
jud wrote:
>
>  I have been using the Garmin Data Cable to connect my GPS45XL to my KPC-3.
> The only problem with that is the power pin is not connected and you must
> use the units batteries. I just received a Power/Data cable from GARMIN and
> I now have external power going to the GPS45XL.  I was wondering if the red
> wire for power might be in the Data cable but just not connected to the 9
> pin plug.  I tried finding it by sticking a needle in the cable and using a
> multi-meter, no luck.  I then cut the plug off and had a good look see. Its
> not there. I installed a new plug and it is as good as new. Just a tip,
> don't cut the plug off the Data cable looking for the power wire. 73, Jud
>                               ))(((((
>                               )_   _(
>                               [o   o]
> ==========================OOO===(_)===OOO==========================
>                           Jud French, KE4HFX
>                        judlynn@norfolk.infi.net
> ====================================================================
> 5423 Barnhollow Rd.
> Norfolk, VA 23502-3604
```

[Attachment: Dogrun.gif; image/gif; 12,972 bytes]

---

320. Re: [APRSSIG:6341] The NMEA FAQ

From: "David W. McNeil" <ki5vm@flash.net>
Date: Wed, 13 Nov 1996 21:35:32 -0600
To: kj5jy@flash.net, aprssig@tapr.org
Message-ID: <328A8F71.5900@flash.net>
Rendered body type: text/plain

```
Steve Boyle wrote:
>
> Hello,
>
```

> I happened to find my copy of the NMEA FAQ. I do not know when the last time was it made the rounds (I have not been a member for very long) or if there is a newer version. Anyway, here it is:
>
> Steve
> KD6WXD
>
> -------- Cut Here --------
>
> ## The NMEA FAQ
> Version 2.0 Jan. 1, 1996
>
> Additions, corrections, and comments should be emailed to the author,
> Peter Bennett bennett@triumf.ca
>
> Contents:
>
> 1. What is NMEA?
>   1.1 What is an NMEA Standard
>   1.2 NMEA Address
>
> 2. Electrical Interface
>
> 3. NMEA-0180 and NMEA-0182
>   3.1 Simple Format
>   3.2 Complex Format
>
> 4. NMEA-0183
>
>   4.1 General Sentence Format
>   4.2 Sentences sent by specific equipment
>   4.3 Sample Sentences Dissected
>   4.3.1 Standard Sentences
>   4.3.2 Garmin Proprietary Sentences
>
> 5. RS-232 connections
>
> 6. About the author
>   6.1 Acknowledgements
>
> ### 1. What is NMEA?
>
> The National Marine Electronics Association is dedicated to the education and advancement of the marine electronics industry and the market which it serves.
>
> It is a non-profit association composed of manufacturers, distributors, dealers, educational institutions, and others interested in peripheral marine electronics occupations
> (quoted from a promo in "NMEA News")
>
> ### 1.1 What is an NMEA standard?
>
> For the purposes of this article, an NMEA standard defines an electrical interface and data protocol for communications between marine instrumentation. (They may also have standards for other things.)
>
> ### 1.2 NMEA Address
>
> P.O. Box 3435
> New Bern NC, 28564-3435
> U.S.A.
> Phone: 919-638-2626
> Fax: 919-638-4885
> http://www.coastalnet.com/business/electronics/nmea/nmeawww.html
>
> ### 2. Electrical Interface
>
> These standards allow a single "talker", and several "listeners" on one circuit. The recommended interconnect wiring is a shielded twisted pair, with the shield grounded only at the talker. The standards do not specify the use of any particular connector.
>
> The NMEA-0180 and 0182 standards say that the talker output may be RS-232, or from a TTL buffer, capable of delivering 10 mA at 4 V. A sample circuit shows an open collector TTL buffer with a 680 ohm resistor to +12 V, and a diode to prevent the output

```
>         voltage from rising above +5.7 V.
>
>         NMEA-0183 accepts this, but recommends that the talker output
>         comply with EIA-422.  This is a differential system, having two
>         signal lines, A and B. The voltages on the "A" line correspond
>         to those on the older TTL single wire, while the "B" voltages
>         are reversed (while "A" is at +5, "B" is at ground, and vice
>         versa)
>
>         In either case, the recommended receive circuit uses an
>         opto-isolator with suitable protection circuitry.  The input
>         should be isolated from the receiver's ground.
>
>         In practice, the single wire, or the EIA-422 "A" wire may be
>         directly connected to a computer's RS-232 input.
>
> 3.      NMEA-0180 and NMEA 0182
>
>         NMEA-0180 and 0182 are very limited, and just deal with
>         communcations from a Loran-C (or other navigation receiver,
>         although the standards specifically mention Loran), and an
>         autopilot.
>
>         From the information I have, it appears that 0180 and 0182 are
>         identical.  I suspect that equipment claiming to use NMEA-0180
>         will use the "simple" format described below, while those using
>         NMEA-0182 will use the "complex" format. (but this is really
>         just a guess... corrections??)
>
>   3.1   "Simple" data format
>
>         The simple format consists of a single data byte transmitted at
>         intervals of 0.8 to 5 seconds, at 1200 baud with odd parity.
>         Bits 5 - 0 give the cross-track error in units of 0.1 uS or 0.01
>         nautical mile.  The error is given in offset binary, with a
>         count of 1 representing full scale right error, 32 (hex 20) for
>         on course, and 63 (hex 3f) full scale left error.  Bit 6 is a 1
>         if the data is valid, and bit 7 is 0 to indicate the simple
>         data format.
>
>   3.2   "Complex" data format
>
>         The complex format consists of a data block of 37 bytes of
>         (mostly) readable ASCII text giving cross-track error, bearing
>         to waypoint, present Lat/Long, and a binary status byte.  The
>         data block shall be sent at intervals of 2 to 8 sec. All bytes
>         in the complex format have bit 7 = 1 to distinguish them from
>         the simple format.  It is permissible for a sending device to
>         send both simple and complex data, and even to send a "simple"
>         data byte in the middle of a "complex" data block.
>
>         Byte        Data
>           1          $
>           2          M                  | device
>           3          P                  | address
>
>           4          K = kilometres     | cross track
>                      N = nautical miles | error
>                      U = microseconds   | units
>
>           5 - 8      0 - 9 or .          cross track error value
>           9          L or R              cross track error position
>
>          10          T or M              True or Magnetic bearing
>          11 - 13     0 - 9               bearing to next waypoint
>
>          14 - 23     12D34'56"N or       present latitude
>                      12D34.56'N
>          24 - 34     123D45'56"W or      present longitude
>                      123D45.67"W
>
>          35          non-ASCII status byte
>                      bit 0 = 1 for manual cycle lock
>                          1 = 1     low SNR
>                          2 = 1     cycle jump
>                          3 = 1     blink
>                          4 = 1     arrival alarm
>                          5 = 1     discontinuity of TDs
>                          6 = 1 always
>           36         "NUL" character (hex 80)(reserved status byte)
>           37         "ETX" character (hex 83)
>           Any unavailable data is filled with "NUL" bytes.
>
> 4.      NMEA-0183
>
>   4.1     General Sentence Format
>
>         Under the NMEA-0183 standard, all characters used are printable
>         ASCII text (plus carriage return and line feed).
>
>         The data is transmitted in the form of "sentences".  Each
>         sentence starts with a "$", a two letter "talker ID", a three
>         letter "sentence ID", followed by a number of data fields
>         separated by commas, and terminated by an optional checksum, and
>         a carriage return/line feed.  A sentence may contain up to 82
>         characters including the "$" and CR/LF.
>
>         If data for a field is not available, the field is simply
>         omitted, but the commas that would delimit it are still sent,
>         with no space between them.
>
>         Since some fields are variable width, or may be omitted as
>         above, the receiver should locate desired data fields by
>         counting commas, rather than by character position within the
>         sentence.
>
>         The optional checksum field consists of a "*" and two hex digits
>         representing the exclusive OR of all characters between, but not
>         including, the "$" and "*".  A checksum is required on some
>         sentences.
>
>         The standard allows individual manufacturers to define
>         proprietary sentence formats.  These sentences start with "$P",
>         then a 3 letter manufacturer ID, followed by whatever data the
>         manufacturer wishes, following the general format of the
>         standard sentences.
>
>         Some common talker IDs are:
>                 GP      Global Positioning System receiver
>                 LC      Loran-C receiver
>                 OM      Omega Navigation receiver
>                 II      Integrated Instrumentation
>                                 (eg. AutoHelm Seatalk system)
>
>   4.2   Sentences sent by specific equipment
>
>         This section lists the sentence types used by various equipment.
>         The format and data included in each sentence type is given in
>         section 4.3.
>
>          Eagle AccuNav
>              Standard: RMB, RMC, GLL, APB
>              Proprietary: PSLIB
>              It also pretends it's a Loran, sending LCGLL, as well as
> GPGLL
>
>             Garmin GPS-45 (and probably GPS-40 and GPS-90)
>             Standard: BOD, GLL, RTE, RMB, RMC, GGA, GSA, GSV
>             Proprietary: PGRME, PGRMM, PGRMZ
>
>         Garmin GPS-65 (and probably GPS-75)
>             Standard: BWC, GLL, RMB, RMC, R00, WPL, XTE, VTG
>             Proprietary: PGRMM, PGRMZ, PSLIB
>
>         Magellan Trailblazer
>             Standard: APB, BWC, GGA, GLL, RMB, RMC, VTG
>         Trimble Ensign XL
>             Standard: APA, BWC, BWR, GGA, GLL, RMB
>
>         Trimble Flightmate Pro and Scoutmaster
>             Standard: APA, APB, BWC, GGA, GLL, GSA, GSV, RMB, RMC,
>                 VTG, WCV, XTE, ZTG
>
>         Autohelm Seatalk
>             Autohelm Seatalk is a proprietary bus for communications
>             between various intruments.  Some of the instruments can act
>             as NMEA-0183 talkers or listeners.  Data received from an
>             external NMEA-0183 device will, if Seatalk understands the
>             sentence, be re-transmitted, but not necessarily in the same
>             sentence type.
>
>             The specific sentences sent will depend on the data
>             available on the Seatalk bus (i.e. sentences containing wind
>             speed and direction will only be sent if the system includes
>             a wind instrument)
>
>             Seatalk output:
>             Standard: APB, BPI, BWC, VWR, VHW, DBT, GLL, HDM, HDT, HCS,
>                 MTW, VTG
>
>             Seatalk input:
>             Standard: APA, APB, RMB, XTE, XTR, BPI, BWR, BWC, BER,
>                 BEC,WDR, WDC, BOD, WCV, VHW, VWR, DBT
>
>   4.3   Sample Sentences Dissected
>   4.3.1  Standard Sentences
>
>         A talker typically sends a group of sentences at intervals
>         determined by the unit's update rate, but generally not more
>         often than once per second.
>
>         Characters following the "*" are a checksum.  Checksums are
>         optional for most sentences, according to the standard.
>
>         APB - Autopilot format B
>         APB,A,A,0.10,R,N,V,V,011,M,DEST,011,M,011,M
>            A            Loran-C blink/SNR warning
>            A            Loran-C cycle warning
>            0.10         cross-track error distance
>            R            steer Right to correct (or L for Left)
>            N            cross-track error units - nautical miles
>            V            arrival alarm - circle
>            V            arrival alarm - perpendicular
>            011,M        magnetic bearing, origin to destination
>            DEST         destination waypoint ID
>            011,M        magnetic bearing, present position to
> destination
>            011,M        magnetic heading to steer
>                         (bearings could be given in True as 033,T)
>            (note: some pilots, Roberston in particular, misinterpret
> "bearing
>            from origin to destination" as "bearing from present position
> to
>            destination".  This apparently results in poor performance if
> the
>            boat is sufficiently off-course that the two bearings are
>            different.)
>
>         BOD - Bearing - origin to destination waypoint
>         BOD,045.,T,023.,M,DEST,START
>            045.,T       bearing 045 True from "START" to "DEST"
>            023.,M       breaing 023 Magnetic from "START" to "DEST"
>            DEST         destination waypoint ID
>            START        origin waypoint ID
>
>         BWC - Bearing and distance to waypoint - great circle
>         BWC,225444,4917.24,N,12309.57,W,051.9,T,031.6,M,001.3,N,004*29
>            225444       UTC time of fix 22:54:44
>            4917.24,N    Latitude of waypoint
>            12309.57,W   Longitude of waypoint
>            051.9,T      Bearing to waypoint, degrees true
>            031.6,M      Bearing to waypoint, degrees magnetic
>            001.3,N      Distance to waypoint, Nautical miles
>            004          Waypoint ID
>
>         BWR - Bearing and distance to waypoint - rhumb line
>                 (format same as BWC)
>
>         DBT - Depth below transducer
>         DBT,0017.6,f,0005.4,M
>            0017.6,f     17.6 feet
>            0005.4,M     5.4 Metres
>
>         GGA - Global Positioning System Fix Data
>         GGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42
>            123519       Fix taken at 12:35:19 UTC
>            4807.038,N   Latitude 48 deg 07.038' N
>            01131.324,E  Longitude 11 deg 31.324' E
>            1            Fix quality: 0 = invalid
>                                      1 = GPS fix
>                                      2 = DGPS fix
>            08           Number of satellites being tracked
>            0.9          Horizontal dilution of position
>            545.4,M      Altitude, Metres, above mean sea level
>            46.9,M       Height of means sea level above WGS84 geoid
>            (empty field) time in seconds since last DGPS update
>            (empty field) DGPS station ID number
>
>         GLL - Geographic position, Latitude and Longitude
>         GLL,4916.45,N,12311.12,W,225444,A
>            4916.46,N    Latitude 49 deg. 16.45 min. North
>            12311.12,W   Longitude 123 deg. 11.12 min. West
>            225444       Fix taken at 22:54:44 UTC
>            A            Data valid
>              (Garmin 65 does not include time and status)
>
>         GSV - Satellites in view
>
> GSV,2,1,08,01,40,083,46,02,17,308,41,12,07,344,39,14,22,228,45*75
>            2            Number of sentences for full data
>            1            sentence 1 of 2
>            08           Number of satellites in view
>            01           Satellite PRN number
>            40           Elevation, degrees
>            083          Azimuth, degrees
>            46           Signal strength - higher is better
>            <repeat for up to 4 satellites per sentence>
>                 There my be up to three GSV sentences in a data packet
>
>         HDM - Heading, Magnetic
>         HDM,235.,M
>            HDM          Heading, Magnetic
>            235.,M       Heading 235 deg. Magnetic
>             (HDG, which includes deviation and variation, is recommended
>             instead)
>
>         HSC - Command heading to steer
>         HSC,258.,T,236.,M
>            258.,T       258 deg. True
>            236.,M       136 deg. Magnetic
>
>         MTW - Water temperature, Celcius
>         MTW,11.,C
>            11.,C        11 deg. C
>
>         R00 - List of waypoint IDs in currently active route
>
> R00,MINST,CHATN,CHAT1,CHATW,CHATM,CHATE,003,004,005,006,007,,,*05
>            (This sentence is produced by a Garmin 65, but is not listed
>            in Version 2.0 of the standard.  The standard lists RTE for
>            this purpose.)
>
>         RMB - Recommended minimum navigation information (sent by nav.
>                 receiver when a destination waypoint is active)
>         RMB,A,0.66,L,003,004,4917.24,N,12309.57,W,001.3,052.5,000.5,V*0B
>            A            Data status A = OK, V = warning
>            0.66,L       Cross-track error (miles), steer Left to correct
>            003          Origin waypoint ID
>            004          Destination waypoint ID
>            4917.24,N    Destination waypoint latitude 49 deg. 17.24 min.
> N
>            12309.57,W   Destination waypoint longitude 123 deg. 09.57
> min. W
>            001.3        Range to destination, nautical miles
>            052.5        True bearing to destination
>            000.5        Velocity towards destination, knots
>            V            Arrival alarm  A = arrived, V = not arrived
>            *0B          mamdatory checksum
>
>         RMC - Recommended minimum specific GPS/Transit data
>         RMC,225446,A,4916.45,N,12311.12,W,000.5,054.7,191194,020.3,E*68
>            225446       Time of fix 22:54:46 UTC
>            A            Navigation receiver warning A = OK, V = warning
>            4916.45,N    Latitude 49 deg. 16.45 min North
>            12311.12,W   Longitude 123 deg. 11.12 min West
>            000.5        Speed over ground, Knots
>            054.7        Course Made Good, True
>            191194       Date of fix  19 November 1994
>            020.3,E      Magnetic variation 20.3 deg East
>            *68          mandatory checksum
>
>         RTE - Waypoints in active route
>
> RTE,2,1,c,0,W3IWI,DRIVWY,32CEDR,32-29,32BKLD,32-I95,32-US1,BW-32,BW-198*69
>            2            two sentences for full data
>            1            this is sentence 1 of 2
>            c            c = complete list of waypoints in this route
>                         w = first listed waypoint is start of current
> leg
>            0            Route identifier
>            W3IWI...     Waypoint identifiers
>
>         VHW - Water speed and heading
>         VHW,259.,T,237.,M,05.00,N,09.26,K
>            259.,T       Heading 259 deg. True
>            237.,M       Heading 237 deg. Magnetic
>            05.00,N      Speed 5 knots through the water
>            09.26,K      Speed 9.26 KPH
>
>         VWR - Relative wind direction and speed
>         VWR,148.,L,02.4,N,01.2,M,04.4,K
>            148.,L       Wind from 148 deg Left of bow
>            02.4,N       Speed 2.4 Knots
>            01.2,M       1.2 Metres/Sec
>            04.4,K       Speed 4.4 Kilometers/Hr
>
>         VTG - Track made good and ground speed
>         VTG,054.7,T,034.4,M,005.5,N,010.2,K
>            054.7,T      True track made good
>            034.4,M      Magnetic track made good
>            005.5,N      Ground speed, knots
>            010.2,K      Ground speed, Kilometers per hour
>
>         WCV - Waypoint Closure Velocity
>         WDC - Distance to Waypoint
>         WDR - Waypoint Distance, Rhumb Line
>
>         WPL - waypoint location
>         WPL,4917.16,N,12310.64,W,003*65
>            4917.16,N    Latitude of waypoint
>            12310.64,W   Longitude of waypoint
>            003          Waypoint ID
>              When a route is active, this sentence is sent once for each
>              waypoint in the route, in sequence. When all waypoints have
>              been reported, GPR00 is sent in the next data set. In any
>              group of sentences, only one WPL sentence, or an R00
>              sentence, will be sent.
>
>         XTE - Cross track error, measured
>         XTE,A,A,0.67,L,N
>            A            General warning flag V = warning
>                                 (Loran-C Blink or SNR warning)
>            A            Not used for GPS (Loran-C cycle lock flag)
>            0.67         cross track error distance
>            L            Steer left to correct error (or R for right)
>            N            Distance units - Nautical miles
>
>         XTR - Cross-Track Error - Dead Reckoning
>         XTR,0.67,L,N
>            0.67         cross track error distance
>            L            Steer left to correct error (or R for right)
>            N            Distance units - Nautical miles
>
> 4.3.2  Proprietary Sentences
>
>         The following are Garmin proprietary sentences.  "P" denotes
>         proprietary, "GRM" is Garmin's manufacturer code, and "M" or "Z"
>         indicates the specific sentence type.
>
>         $PGRMZ,93,f,3*21
>            93,f         Altitude in feet
>            3            Position fix dimensions 2 = user altitude
>                                                3 = GPS altitude
>         This sentence shows in feet, regardless of units shown on the
> display.
>
>         $PGRMM,NAD27 Canada*2F
>            Currently active horizontal datum
>
>         Proprietary sentences to control a Starlink differential beacon
>         receiver. (I assume Garmin's DBR is made by Starlink)
>         $PSLIB,,,J*22
>         $PSLIB,,,K*23
>            These two sentences are normally sent together in each group
>            of sentences from the GPS.
>            The three fields are: Frequency, bit Rate, Request Type.  The
>            value in the third field may be:
>                 J = status request
>                 K = configuration request
>                 blank = tuning message
>
>            When the GPS receiver is set to change the DBR frequency or
>            baud rate, the "J" sentence is replaced (just once) by (for
>            example): $PSLIB,320.0,200*59 to set the DBR to 320 KHz, 200
>            baud.
>
> 5.      RS-232 connections
>
>         Although this is not really related to NMEA, many people want to
>         connect a GPS to a computer, so need to know about the RS-232
>         serial ports on a computer.
>
>         The RS-232 standard defines two classes of devices that may
>         communicate using RS-232 serial data - Data Terminal Equipment
>         (DTE), and Data Communication Equipment (DCE).  Computers and
>         terminals are considered DTE, while modems are DCE.  The
>         standard defines pinouts for DTE and DCE such that a "straight
>         through" cable (pin 2 to pin 2, 3 to 3, etc) can be used between
>         a DTE and DCE.  To connect two DTEs together, you need a "null
>         modem" cable, that swaps pins between the two ends (eg. pin 2 to
>         3, 3 to 2).  Unfortunately, there is sometimes disagreement
>         whether a certain device is DTE or DCE, hence my standard RS-232
>         disclaimer:
>                 if it doesn't work, swap pins 2 and 3!
>
>         The standard RS-232 connector is a 25 conductor DB-25, although
>         many PCs (and some other equipment) now use a 9 pin DE-9 (often
>         incorrectly called DB-9)
>
>         Serial Port Connections
>         Computer (DTE)                              Modem
>         DB-25   DE-9   Signal          Direction    DB-25
>           2      3    Tx Data             ->          2
>           3      2    Rx Data             <-          3
>           4      7    Request to send     ->          4
>           5      8    Clear to send       <-          5
>           6      6    Data Set Ready      <-          6
>           7      5    signal ground                   7
>           8      1    Data CarrierDetect  <-          8
>          20      4    Data Terminal Ready ->          20
>          22      9    Ring Indicator      <-          22
>
>         For NMEA-0183 interfacing, we are only concerned with Rx Data,
>         signal ground (and possibly Tx Data, if we want the computer to
>         talk to the GPS)
>
> 6.  About the author
>
>         This FAQ was written by:
>                 Peter Bennett
>                 bennett@triumf.ca
>
>         I have an FTP site containing this file, a GPS FAQ, and other
>         NMEA information files and PC programs for capturing and
>         displaying NMEA data, and related things:
>
>                 ftp://sundae.triumf.ca/pub/peter/index.html
>
> 6.1  Acknowlegments
>
>         I would like to thank the following for their contributions
>          or corrections to this document:
>              Tom Clark, clark@tomcat.gsfc.nasa.gov
>              Bob Shearer, t.shearer@unixa.nerc-wallingford.ac.uk
>              David Steckler, davidst@nobeltec.com
>              Karl Olmstead, olmstead@ridgecrest.ca.us
>
> Peter Bennett VE7CEI                | Vessels shall be deemed to be in
> sight
> Internet: bennett@triumf.ca         | of one another only when one can
> be
> Packet: ve7cei@ve7kit.#vanc.bc.ca   | observed visually from the other
> TRIUMF, Vancouver, B.C., Canada     |                          ColRegs
> 3(k)
> GPS and NMEA info and programs:
> ftp://sundae.triumf.ca/pub/peter/index.html
```

[Attachment: Dogrun.gif; image/gif; 12,972 bytes]

---

321. DOS APRS in WIN95 in Background!

From: Rick Tilton <Nationwide@InfoAve.Net>
Date: Wed, 13 Nov 1996 22:50:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01IBTBD23UZY8YB90P@InfoAve.Net>
Rendered body type: text/plain

Hello all and tnx for reading! Have been following the SIG for months now. LOT to read but have found useful stuff. This is my first msg to the SIG and hope it is useful. Now for the information I have. MAYBE I am the *LAST* to know but a friend of mine (WA4SSP) discovered this and I am passing it along to you just in case you did not know. As you know you can obviously run DOS version of APRS in WIN95. BUT did you know that you can also run it in the BACKGROUND! Start DOS APRS from the run or create your own shortcut. AFTER it starts running (and gets settled) hit "F10" key and it will put DOS APRS in a DOZE mode. This creates a black box so to speak. Then you can minimize the box to the taskbar and do whatever you want to do in WIN95. THEN you can click on the taskbar and bring back up the little black box. THEN hit F10 again and you are back in DOS APRS. You will have to hit the space bar about twice to get it back to life again. Don't ask me what the doze mode does. I FORGOT!? But it stops some kind of output to the I/O or something. BUT we have tested and have actually received msg's while it is in doze mode. It seems to run in some way (that I don't know all of yet) and yet it keeps the graphics part from overloading everything so that it don't blow up as things did in 3.1 when you had heavy graphics. Go figure! It's great! Installed BUS MOUSE in my 486/80 and now run APRS and Internet at same time back and forth. Don't mean to bore you but thought this might help those that still want to run the DOS version of APRS instead of the WAPRS version (Sorry Sproul's!) CUL & 73.... de Rick.. N4WYK.

---

322. DOS APRS in WIN95 in Background!

From: Rick Tilton <Nationwide@InfoAve.Net>
Date: Wed, 13 Nov 1996 22:51:10 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01IBTBDRM2CU8YB90P@InfoAve.Net>
Rendered body type: text/plain

Hello all and tnx for reading! Have been following the SIG for months now. LOT to read but have found useful stuff. This is my first msg to the SIG and hope it is useful. Now for the information I have. MAYBE I am the *LAST* to know but a friend of mine (WA4SSP) discovered this and I am passing it along to you just in case you did not know. As you know you can obviously run DOS version of APRS in WIN95. BUT did you know that you can also run it in the BACKGROUND! Start DOS APRS from the run or create your own shortcut. AFTER it starts running (and gets settled) hit "F10" key and it will put DOS APRS in a DOZE mode. This creates a black box so to speak. Then you can minimize the box to the taskbar and do whatever you want to do in WIN95. THEN you can click on the taskbar and bring back up the little black box. THEN hit F10 again and you are back in DOS APRS. You will have to hit the space bar about twice to get it back to life again. Don't ask me what the doze mode does. I FORGOT!? But it stops some kind of output to the I/O or something. BUT we have tested and have actually received msg's while it is in doze mode. It seems to run in some way (that I don't know all of yet) and yet it keeps the graphics part from overloading everything so that it don't blow up as things did in 3.1 when you had heavy graphics. Go figure! It's great! Installed BUS MOUSE in my 486/80 and now run APRS and Internet at same time back and forth. Don't mean to bore you but thought this might help those that still want to run the DOS version of APRS instead of the WAPRS version (Sorry Sproul's!) CUL & 73.... de Rick.. N4WYK.

---

323. KPC-3 on a boatride

From: Steve Gemeny <sgemeny@access.digex.net>
Date: Wed, 13 Nov 1996 23:09:23 -0500 (EST)

To: aprssig@tapr.org
Cc: sgemeny@mti-usa.com, mike@syncdata.com
Message-ID: <Pine.SUN.3.94.961113223411.29688A-100000@access5.digex.net>
Rendered body type: text/plain

OK, lets see if the NEWBIE can be helpful and avoid flamage
(sorry if the bandwidth is excessive).

Background
Ham since 1989 extra since February
Mostly active on 2 M fm and, lately, HF
Knew about APRS... but `what do I need it for?'

The Enlightenment
Dad asked me to crew on his 44 foot cabin cruser to Florida... nice trip but I was going to have trouble leaving the harmonics for a week (The oldest, 11 year old Sara, is N3XYG.) Maybe I can find a way to involve them in the trip and learn something at the same time. And then WB4APR shows up on 147.00 with a chirp in his squelch tail.

The project
I had a KPC-3 and an Kenwood TH-75 that could be pressed into service for the home station. I found APRS on the web... download successful... installation successful. Connection from the KPC-3 to the computer completed (except for the send data... don't want to transmit before I figure out what I'm doing!), now to pickup some of these putouts. Getting plenty of data but its not showing up on the map. Butt my head into the wall for a few days, swallow my pride (I am, after all an intelligent technical HAM) and call the brothers Sproul. `No problemo gotta configure the KPC-3 to output the format APRS is looking for'.
    send the following:

```
Interface terminal
reset (moves the KPC-3 out of new user mode and into full command set)

mcom off
mresp off
headerlin off ( in short, don't send all the <> stuff and don't
                parse the header)
```

`YO lookatthat' putouts all the way from NC to VT. This stuff really works. Thanks guys, you made my day.

Now for a package that can ride the boat. Got an old ICOM business VHF rig from a friend, reprogrammed it for 145.790, modified it to accept remote audio from the TNC. Picked up another KPC-3 (no time to jump horses now) and a Magellan GPS, now I'm ready to `rock-n-role'... well almost.

Setup the Magellan to startup at 9600, then, using the com program in an HP palmtop (my mobile DTE), get the GPS to spit out the GPGGA string by sending `$PMGLI,00,B00,2,A,00'. Got the GPGGA sentence on the Palmtop display, now for the TNC.

But what do I do about all that WIDE, GATE, RELAY stuff... go to the oracle.
A quick call to Bob and all is well.
KPC-3 setup as follows:

```
        light the GPS on power up
GPSINIT $PMGLI,00,B00,7,A,00^N (you need the ctrl N to make a CR)

        in general, me
BTEXT Yacht CAMELOT ENR Florida
UNPROTO APRS via RELAY,WIDE,WIDE

        specifically, my position
GPSHEAD 1 $GPGGA
GPSHEAD 2 $GPGGA
GPSHEAD 3 $GPGGA

        sent trice by different routes
LTP1 APRS via RELAY,WIDE,WIDE
LTP2 APRS via WIDE,GATE,GATE,WIDE
LTP3 APRS via WIDE,GATE,KF0ZH,GATE,WIDE

        at 10 min intervals
BLT 1 EVERY 00:10:00
BLT 2 EVERY 00:10:00
BLT 3 EVERY 00:10:00
```

ditto for me
BEACON EVERY 10

Final test
It all finally came together around Noon on October 16,1996 for a scheduled departure form Solomons Island MD at 0600 on the 17th. (close only counts in horseshoes and handgranades).

Magellen GPS, KPC-3, VHF radio, HP Palmtop 12 Volt 6AH battery in a plastic Briefcase with externl GPS antenna and 12 VDC ship/car power input (and a partridge in a pare tree).

First putouts from AA3NM-8 were from Gaithersburg, MD and enroute to Solomons 'till 0200 on the 17th. Camelot departed at 0615 on the 17th with full APRS operational at 35 Watts into a J-pole topping 22 ft. above the water. Putouts continued down the intercoastal waterway until separating from Camelot at 0815 October 20 to drive home (yes... `Pinging' all the way).

Crew:
Capt. W3OKB
1st Mate N3WUJ
Sysop/Nav AA3NM
Galley W3OKB/XYL

I hope some of my setups are helpful. Yes I coulda mighta shoulda done some things differently, but hey it worked. I hope some of you saw a boat driving around Gaithersburg then heading south. Look for us again between 12/25 and 1/5, then again in the spring heading North.

And thanks guys for all the help
73 DE AA3NM

Steve Gemeny
sgemeny@access.digex.net
sgemeny@mti-usa.com

ANY COPY?

---

324. Re: [APRSSIG:6374] Re: APRS and the NWS message #2

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 13 Nov 1996 23:44:14 -0500
To: aprssig@tapr.org
Message-ID: <328AA39E.3098@global2000.net>
Rendered body type: text/plain

Paul Moller wrote:

> I have nothing at all to do with the NWS, I just thought I would jump in on this thread for a brief comment.
>
> Are you aware that the digital cellular phone community is working on a system by which your digital cellular phone will be used to send WX info directly to users in certain areas. In other words, since the digital cellular network will know where your are at within +/- 125 meters, and has one way messaging capability, it WILL be sending weather watches and warnings for display on the phone.
>
> Perhaps it is important to set up APRS as a WX uplink path, and let the NWS take care of downlink to the public.

Hi Paul

This is the way it's done now we provide the spots and they(NWS) provide the forcast. This cellular thing will just be one more way to provide info to the public.

John

---

325. Re: [APRSSIG:6380] KPC-3 on a boatride

From: rwf@mindspring.com
Date: Thu, 14 Nov 1996 00:15:58 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961114001345.006a13f8@mindspring.com>
Rendered body type: text/plain

```
At 10:13 PM 11/13/96 -0600, you wrote:
>OK, lets see if the NEWBIE can be helpful and avoid flamage
>                          (sorry if the bandwidth is excessive).
>



Steve-

An entertaining post... and chock full o good information as well!
Thanks

Ralph
```

---

326. Re: [APRSSIG:6360] [Fwd: Help on APRS with KAM+]

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 13 Nov 1996 21:26:10 -0800
To: aprssig@tapr.org
Message-ID: <199611140526.VAA09205@m1.sprynet.com>
Rendered body type: text/plain

```
Are you still in HOST MODE when you try to run APRS?

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

327. Unwarranted/unwanted attachments!

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 13 Nov 1996 21:50:06 -0800
To: aprssig@tapr.org
Message-ID: <199611140550.VAA16194@m1.sprynet.com>
Rendered body type: text/plain

```
Gentlemen (and ladies)....

Please remember that it is totally inappropriate to completely quote someone
else's posting except in the circumstance that a quotation is proper to make
a point.

ALSO.....

It is completely inappropriate to waste the bandwidth and the on-line time
of the rest of the members of the SIG to attach "cute little GIF files"
which get stored on everybody's hard drive without at least making the
availability known and asking if anyone REALLY would like to have them first!

(I have received three messages like this this evening alone!  I'm SO glad
that I spend $140.00 per month for ISDN telephone service plus an additional
$29.95 for ISDN Internet access through my ISP just so I can watch have my
very own copy of a "cute little puppy" playfully hopping back and forth
across my monitor.)

IN A NUTSHELL:   STOP IT!  (or at LEAST have the courtesy to ask before you
send...)  Hey....For all I know that cute, little puppy could be a virus in
disguise.

This is NOT cool.  This is ALSO not the way to introduce yourself to the
APRS SIG.....


73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

328. Re: [APRSSIG:6379] DOS APRS in WIN95 in Background!

From: billybobfisher@juno.com (Wm V Fisher)
Date: Thu, 14 Nov 1996 01:51:33 EST
To: aprssig@tapr.org
Message-ID: <19961114.000249.3318.4.billybobfisher@juno.com>
Rendered body type: text/plain

```
Hello Rick...not sure about your address so trying to send test......Bill
Fisher / KE4GRW....73's
```

On Wed, 13 Nov 1996 22:04:02 -0600 (CST) Rick Tilton
<Nationwide@infoave.net> writes:
>Hello all and tnx for reading! Have been following the SIG for months
>now.
>LOT to read but have found useful stuff. This is my first msg to the
>SIG and
>hope it is useful. Now for the information I have. MAYBE I am the
>*LAST*
>to know but a friend of mine (WA4SSP) discovered this and I am passing
>it
>along to you just in case you did not know. As you know you can
>obviously
>run DOS version of APRS in WIN95. BUT did you know that you can also
>run it
>in the BACKGROUND! Start DOS APRS from the run or create your own
>shortcut.
>AFTER it starts running (and gets settled) hit "F10" key and it will
>put DOS
>APRS in a DOZE mode. This creates a black box so to speak. Then you
>can
>minimize the box to the taskbar and do whatever you want to do in
>WIN95.
>THEN you can click on the taskbar and bring back up the little black
>box.
>THEN hit F10 again and you are back in DOS APRS. You will have to hit
>the
>space bar about twice to get it back to life again. Don't ask me what
>the
>doze mode does. I FORGOT!? But it stops some kind of output to the
>I/O or
>something. BUT we have tested and have actually received msg's while
>it is
>in doze mode. It seems to run in some way (that I don't know all of
>yet)
>and yet it keeps the graphics part from overloading everything so that
>it
>don't blow up as things did in 3.1 when you had heavy graphics. Go
>figure!
>It's great! Installed BUS MOUSE in my 486/80 and now run APRS and
>Internet
>at same time back and forth. Don't mean to bore you but thought this
>might
>help those that still want to run the DOS version of APRS instead of
>the
>WAPRS version (Sorry Sproul's!) CUL & 73.... de Rick.. N4WYK.
>
>

329. Mouse Digitizer

From: DEO01-IPA <uipdeo01@usiminas.com.br>
Date: Thu, 14 Nov 1996 10:33:26 -0800
To: aprssig@tapr.org
Message-ID: <328B65F6.33FA@usiminas.com.br>
Rendered body type: text/plain

I´m trying to digitize my local map, using MAPFIX27.EXE , but the
program commands File/OpenPoorManDigitizer/P is telling me no mouse.I´m
using a Genius mouse GM-6 and Gmouse.com driver in the autoexec.bat.
Can you help me to enable the Mouse recourse?
Tnx and 73´s from PY4LF....Julio!

330. Digitizing with a MAC

From: Alessandro Donati <adonati@macpc01.esoc.esa.de>
Date: Thu, 14 Nov 1996 14:17:21 +0000
To: aprssig@tapr.org
Message-ID: <328B29F1.79EA@ioigsd.esoc.esa.de>
Rendered body type: text/plain

I am a new comer on board.. looking for a a Machintosh program that

allows me to digitize a map. Is there any shareware available around?

Tnx & 73's de Alex, DJ0MDO

331. Re: [APRSSIG:6384] Unwarranted/unwanted attachments!

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Thu, 14 Nov 1996 09:33:03 -0600
To: aprssig@tapr.org
Message-ID: <v03007807aeb09727d3e1@[138.87.2.109]>
Rendered body type: text/plain

```
JIM IS RIGHT! LISTEN TO HIM.          Please.

On Wed, 13 Nov 1996 23:55 Jim Duncan said:

>Gentlemen (and ladies)....
>
snip...

>have the courtesy to ask before you
>send...)  Hey....For all I know that cute, little puppy could be a virus in
>disguise.

>This is NOT cool.  This is ALSO not the way to introduce yourself to the
>APRS SIG.....


/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

332. Re: Digitizing with a MAC

From: dennis@zone5.com (Dennis Hudson)
Date: Thu, 14 Nov 1996 11:19:26 -0500
To: aprssig@tapr.org
Message-ID: <v01540b00aeb0f5b625e9@[205.247.145.86]>
Rendered body type: text/plain

```
Mike Musick Said on August 26
>Maps for the Rest of Us!  ;-)
>
>MacDLG v1.0 is now uploaded to the TAPR server. This is a Macintosh application
>which generates APRS maps in both the DOS and Mac/Win file formats.
>
>Program features:
>
>  - Menu & dialog box control (looks and feels like a Mac program)
>  - User selection of file format, map features and finished size
>  - Point count reduction through use of related line joining
>  - Selectable smoothing for DOS points reduction
>  - Source data from USGS 100K DLG or Census Bureau TIGER databases,
>      from either FTP or CD-ROM
>  - Logical use of color for feature identification
>  - Separate selection of shoreline, river, and stream detail
>  - Includes "trail" road types
>  - Tested with maps having 300,000 points
>  - Direct output of Mac/Win format - no conversion and its subsequent
>      loss of resolution or color information
>
>
>I've been working on this program for about four months and it appears to be
>solid enough to release now. It's a bit on the slow side for super-large maps
>(3 hours or more for 16-nMile radius maps of major metro areas which include
>all detail), but, after all, we're talking about 300-350K points to start with!
>If your expectations are kept reasonable, most maps should take 10-15 minutes
>to read and process on a mid-level Mac. I'm continuing to work on the speed
>issue, though.
>
>While the program itself (I feel...) is straightforward to use, with clear
>dialog boxes and descriptive error messages, reading the manual is going to be
>mandatory to get any success. This is due to the unusual way (in Mac terms) in
>which the source files have to be organized in order to span the several files
>needed for even small maps. The manual is included with the application in MS
>Word 6.0 format; for those that don't have Word 6.0, the manual was also
>uploaded separately in PDF format.
>
>The program is intended to give any Mac user the ability to generate his/her
>own maps for the various APRS programs.
>
>Thanks are due to Jack Cavanagh, KB4XF, whose MKMAPHK2.BAS was the inspiration
>for MacDLG. My gratitude to Jack for making his code public.
>
>  ...mike, N0QBF
>     71301.3106@compuserve.com
```

I haven't heard much of late of the program, but I have been using it succesfully for some time. It will really scream on a power mac with lots of ram. Big hats off to Mike and Jack for their efforts, awesome program.

You, a Mac, the World.

Dennis, N2LBT

```
***************************
Dennis J. Hudson       dennis@zone5.com
Manager, IS              Zone 5 Prepress
8 Corporate Circle    Albany, NY 12203
518 464-2800         518 456-8312 (fax)
```

---

333. Mike Kantor Re: GPS Mount and KPC-3 Manual

From: kb5edb@juno.com
Date: Thu, 14 Nov 1996 11:53:35 EST
To: aprssig@tapr.org
Message-ID: <19961114.105246.7471.0.kb5edb@juno.com>
Rendered body type: text/plain

Well Mike ,

You said that they were shipped out but still haven't see them show up..kinda like the gps and tnc after a month of waiting but you were abell to cash the money order quickly. Well this sounds like all those people and getting shirts from you. By the way I'd like two x-large one for me and a friend send them to me and I'll send you the money (not Fed-Ex this time though). You don't answer your phone (954) 974-4153 or return calls may you will return email....???

---

334. Re: [APRSSIG:6387] Digitizing with a MAC

From: "mail.conknet.com" <kml@conknet.com>
Date: Thu, 14 Nov 1996 12:04:04 +0000
To: aprssig@tapr.org
Message-ID: <328B0AB3.10A7@conknet.com>
Rendered body type: text/plain

Alex,

There is a wonderful program called MacDLG by Mike Musick,N0QBF.
Can't recall where I downloaded it, but fairly sure Mike mentioned it on the SIG here. MacDLG is a Mac program that makes APRS maps from 1:100,000 DLG data. Very slick application! (Tnx Mike)Alessandro Donati wrote:

>
> I am a new comer on board.. looking for a a Machintosh program that
>
> allows me to digitize a map. Is there any shareware available around?
>
> Tnx & 73's de Alex, DJ0MDO

Dan, W1UR

---

335. Re: [APRSSIG:6367] help needed for CalComp 2500 Digitizer

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Nov 1996 12:16:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961114121408.28378A-100000@arctic>
Rendered body type: text/plain

On Wed, 13 Nov 1996, Bob Derderian wrote:

> I have a CalComp 2500 digitizer that I would like to use for making
> local maps, but am not able to get the tablet communicating with the
> computer 'cause I do not have the manual for it and do not know how to
> use the built-in menu system of the tablet to configure it.

APRSdos REPLY/COMMENT: Isnt that like mine? Use MAPFIX and when you use FILES-OPEN to open the comm port to the DIGITIZER, then there should be a full screen of instructions on the CALCOMP (at leat mine so I could see it each time). YOurs may be slightly different, but maybe that will help...

Reply mail addr: wb4apr@amsat.org

See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

336. APRSdos Dozing in WIN95 Background!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Nov 1996 12:32:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961114122610.28378C-100000@arctic>
Rendered body type: text/plain

On Wed, 13 Nov 1996, Rick Tilton wrote:

> You can run APRSdos in WIN95. BUT did you know that you can also run it
> in the BACKGROUND! Start DOS APRS from the run or create your own shortcut.
> AFTER it starts running (and gets settled) hit "F10" key and it will put DOS
> APRS in a DOZE mode. Then you can minimize the box to the taskbar and
> do whatever you want to do in WIN95. Later you can click on the taskbar
> and bring back up the little black box. THEN hit F10 again and you are
> back in DOS APRS. I dont remember what DOZE does...

APRSdos REPLY/COMMENT: It Tells aprs to go to text mode and to not write
ANYTHING to the screen. THat way it doesnt have to try to be compatible
with all the bazillions of settings for graphics. Since WinAPRS came out,
I have not paid close attention to my DOZE function, so if it crashes on
you because I have added something new that does accidentally write to
the screen, plesae let me know. A good test is to put APRS in doze mode
in forground and let it run for a LONG time. If anything goes to the
screen, let me know what...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

337. Re: [APRSSIG:6386] Mouse Digitizer

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Nov 1996 12:40:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961114123821.28378D-100000@arctic>
Rendered body type: text/plain

On Thu, 14 Nov 1996, DEO01-IPA wrote:

> I□m trying to digitize my local map, using MAPFIX27.EXE , but the
> program commands File/OpenPoorManDigitizer/P is telling me no mouse.I□m
> using a Genius mouse GM-6 and Gmouse.com driver in the autoexec.bat.
>   Can you help me to enable the Mouse recourse?
>   Tnx and 73□s from PY4LF....Julio!

APRSdos REPLY/COMMENT: Sorry, but since I changed to supporting the BUS
Mouse, MAPFIX no longer will do the poor-mands digitizer. I just havent
had time to go play with it. If anyone wants to take that on, have fun...
MAPFIX is available in source code as MAPFIX27.bas But you must run it
undre QB.exe not Qbasic.exe and you must use the /L option so the mouse
library will be loaded...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

338. WinAPRS 1.1.7

From: Mark Sproul <sproul@ap.org>
Date: Thu, 14 Nov 1996 12:47:42 -0500
To: aprssig@tapr.org
Message-ID: <v03007805aeb108872880@[165.1.27.20]>
Rendered body type: text/plain

As promised, the next release of WinAPRS is up on both Rutgers and TAPR as
of today. The improvements and bug fixes are listed below.

As normal, there are 2 files, WAPRS117.ZIP and W117UPDT.ZIP, the second
being just the update file.

There is also a new release of MacAPRS, version 2.6.7, this will be put up
on the servers later today.

Mark

Version 1.1.7 - November 14, 1996

*** Major weather additions. Added configurable display for any station

```
that has weather data.

*** Added Unproto path list, this is a list of the paths that each station
is using

*** You can now double click on an airport in the airport list and it will
take you to the best map that displays that airport and show you were it
is.

*** Incoming messages to the user now brings up the message window
automatically.

*** Fixed message window bug that replied to the wrong station unless ALL
MESSAGES was selected.

*** Fixed date bug that only occured on the last day of the month.

*** Fixed one or two minor memory leaks, this might help with some of the
crashs that a few users were having.

*** Fixed bug that did not reliably start the Davis weather input all of
the time.

*** When running dual port TNCs, message acks now go out the right port.

*** When running dual port, the station list now shows properly red/blue
for HF/VHF stations.

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

339. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 14 Nov 1996 18:45:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;DNGA-5612-4900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:6...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

340. Re: [APRSSIG:6391] Re: Digitizing with a MAC

From: Jim Conrad <jjc@infi.net>
Date: Thu, 14 Nov 1996 14:43:46 -0500 (EST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19961114144328.47ef70ac@mailhost.infi.net>
Rendered body type: text/plain

```
At 11:11 AM 11/14/96 -0600, mail.conknet.com wrote:

>There is a wonderful program called MacDLG by Mike Musick,N0QBF.
>Can't recall where I downloaded it, but fairly sure Mike mentioned it on
>the SIG here. MacDLG is a Mac program that makes APRS maps from
>1:100,000 DLG data. Very slick application! (Tnx Mike)Alessandro Donati
>wrote:

Does anyone know of a program to convert GIS Arcinfo files to a format
compatible with APRS/WinAPRS ?

<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

341. Re: file transfer question

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 14 Nov 96 14:53:11 EST
To: <aprssig@tapr.org>
Message-ID: <961114195310_71301.3106_FHJ44-1@CompuServe.COM>
Rendered body type: text/plain

```
Mark sez:

>> Keith and I working on some ideas for file transfer in Mac/WinAPRS...

and Ron sez:

> Will not File transfers kill the aprs frequency...?


I have to concur with Ron. Unless there is a programmed limit on the size of
the file and it is *NOT* user modifiable, and it is VERY small (>1K) and it is
limited to text only, I see channel capacity going down in flames. The intended
use is laudable (list transfer in a public service setting), but the potential
for abuse and impact to the user community is beyond significant - more like
"Ohmygawd!".

Frankly, experience says if the feature is there, the impact to others will be
"overlooked" and the channel will get trashed.

When 9600 bps or better is the standard we can begin to think about this, but -
really - not before.

  ...mike/N0QBF
```

---

342. KPC-3 Settings

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Thu, 14 Nov 1996 15:37:30 EST
To: aprssig@tapr.org
Message-ID: <19961114.123614.9782.1.Hfigueroa@juno.com>
Rendered body type: text/plain

```
Tommy, It sound like everything is set up correctly, but you must set
interface to GPS

just use any terminal program and type

int gps

It is also a good ideat to set up the remote control functions of you KPC
to make changes easier

Hector M. Figueroa  E-Mail Hfigueroa@juno.com
World Wide Web Page  http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL
Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM


On Tue, 12 Nov 1996 19:58:30 -0600 (CST) Tommie Taylor
<tomcmugs@n-link.com> writes:
>Does anyone have the complete setting for a KPC3+GPS for mobile.
>I need to see if the perms are set correctly on my Mobile unit.
>I have the GPS and KPC3 running in the auto but I see the data being
>sent out but the $GPGGA always shows the same data and is not
>updating.
>Help
>Tommy KC5UJH
>
>
```

---

343. Re: [APRSSIG:6337] Cse and Speed

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Thu, 14 Nov 1996 15:37:30 EST
To: aprssig@tapr.org
Message-ID: <19961114.123614.9782.0.Hfigueroa@juno.com>
Rendered body type: text/plain

```
Roy,

I am going to assume that your problem is with a standalone tracker,
because WINAPRS is what sends the info to the KPC-3.

SO if it is a standalone. . .
```

The problem may be that you have nor told the KPC-3 to look for the vgt
sentence
set the gpshead parameter in your KPC-3 to $GPVGT and it must be in CAPS!

You have 4 gpshead slots so if you use any additional spaces, be sure to
set up the corresponding blt and ltp parameters.

Good Luck

Hector M. Figueroa E-Mail Hfigueroa@juno.com
World Wide Web Page http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL
Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM

On Tue, 12 Nov 1996 22:39:01 -0600 (CST) rbost@itexas.net (Roy Bost)
writes:
>I cannot get my Garmin-45 to send course and speed information to my
>KPC-3.
>$gprmc works fine except no course and speed and $gpvtg does not send
>course and speed. I'm using WinAPRS and have seen other stations with
>the
>red line for cse and speed so I dont't think it's the program. Does
>the
>Garmin-45 not send this data or is mine broke?
>
>Roy Bost, N5TAM
>Granbury, Tx.
>rbost@itexas.net
>32 25' 33"N   97 48' 59"W
>
>

---

344. Re: [APRSSIG:6378] DOS APRS in WIN95 in Background!

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 14 Nov 1996 18:26:57
To: aprssig@tapr.org
Message-ID: <199611142326.SAA06533@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Wed, 13 Nov 1996 Rick Tilton wrote:

>... hit "F10" key and it will put DOS APRS in a DOZE mode ...
>minimize the box ... and do whatever you want ... in WIN95 ...
>click on the taskbar and bring back up the little black box.
>THEN hit F10 again and you are back in DOS APRS ...

I find it easier to simply press Alt-Esc, which will also
minimize APRS to the taskbar, but doing it this way APRS re-
mains ACTIVE in the background. Using the "DOZE" mode allows
you to keep APRS in memory but, unless your TNC has a humongous
buffer (or you get back to it fairly soon,) you'll be missing
information and won't be uplinking your info.

I HAVE, however, found that I can't use my landline modem
on COM3 (TNC is on COM1) when using this method, but I think my
screwy Packard Bell may be the culprit here. I haven't tried
Rick's method yet, so I don't know whether that would be a work
around for this situation. 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

345. Live SF Bay APRS data!

From: Steve Boyle <sboyle@netcom.com>
Date: Thu, 14 Nov 1996 16:15:39 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <328BB62B.E9@netcom.com>
Rendered body type: text/plain

****
ATTENTION...
Message for APRS Sig members only...

```
*************************************************

  Now ready for your APRS viewing pleasure...Live APRS from San
Francisco!

  Demo page at http://sboyle.slip.netcom.com/LIDSAPRS.html

  The site is still under test and might not always be available. So I
would like to keep this confidential and limit usage to members of this
Sig for a few more weeks.

Let me know what you thing.

Bye Bye,
Steve
KD6WXD
```

---

346. ATTN! All map makers

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Nov 1996 20:53:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961114204551.17300A-100000@arctic>
Rendered body type: text/plain

```
NEW IDEA!  Ever been frustrated by not knowing what maps you have loaded
on what PC?  I am modifying my next version of APRSdos, so that the MAPS-
WHICH command will give you a list of all XXMAPS.ZIP distribution files
that you have loaded.  Neat idea, huh?

BUT I need the help of all mapmakers!.  Please put in the MAPS directory
of every distribution package a file named XXmapsXX.TXT  You can put
anything you want in the .TXT file, because all I am going to do with my
MAPS-WHICH command is to do a DIR MAPS\*.txt to list all of these .TXT
files.  In mine, Im going to put upgrade notes showing what is new in each
new release of my XXmapsXX.ZIP distros.

Remember that for MAP.ZIP distribution packages to work right, you have to
zip them up with the PKZIP -RP option as discribed in MAPS.txt.  This way
users can use the standard PKUNZIP -D and get everything in the right
place...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

347. Re: [APRSSIG:6401] Re: DOS APRS in WIN95 in Background!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 14 Nov 1996 21:01:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961114205715.17300B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 14 Nov 1996, Arte Booten wrote:

>      I find it easier to simply press Alt-Esc, which will also
> minimize APRS to the taskbar, but doing it this way APRS re-
> mains ACTIVE in the background.  Using the "DOZE" mode allows
> you to keep APRS in memory but...  you'll be missing
> information and won't be uplinking your info.
>
APRSdos REPLY/COMMENT:  WRONG.  I named the mode DOZE because it helps in
a winDOZE environment.  APRS is still running fully.  It just doesnt write
anything to the video card while "DOZEing"  This makes it work in all
windows bnackgrounds (hopefully) without having to worry about video and
screen compatibility problems.  Hope this helps.

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

348. [APRSSIG:6400] Re: Cse and Speed

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 14 Nov 1996 20:19:34 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aeb17c953953@[199.1.11.109]>
Rendered body type: text/plain

```
>The problem may be that you have nor told the KPC-3 to look for the
>vgt sentence set the gpshead parameter in your KPC-3 to $GPVGT
>and it must be in CAPS!
```

For the Garmin-45, note the difference between
having an I/O setting of Version 1.5 or version 2.0
I think most people use version 2.0 .

NMEA INTERFACE INFORMATION:
Garmin-45

0183 version 1.5 (Approved sentences BWC, GLL, RMB, RMC,
XTE, VTG, WPL; Proprietary sentences PGRMM (map datum),
PGRMZ (altitude), PSLIB (DGPS beacon remote control)).

0183 version 2.0 (Approved sentences GCA, GLL, GSA, GSV,
RMB, RMC, RTE, WPL; Proprietary sentences PGRME (estimated
error), PGRMM (map datum), PGRMZ (altitude), PSLIB (DGPS
beacon remote control).

The GPShead parameter is looking for an exact match so what ever
you are trying to read must match, be it upper or lower case. The
NMEA approved GPS sentences are uppercase.

The line string match can be a GPS, a Davis/Peet WX system, or
a DFrj Doppler DF unit, or some other fun device. What ever you
want to trigger a line capture for later transmission.

If you have a Garmin-20 set one of the GPShead to $PGRMT
and the world can tell if your GPS board is too hot !!
Output is in Degrees C.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

349. Re: [APRSSIG:6380] KPC-3 on a boatride

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 14 Nov 1996 20:21:03 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aeb17627b67a@[199.1.11.109]>
Rendered body type: text/plain

> specifically, my position
>GPSHEAD 1 $GPGGA
>GPSHEAD 2 $GPGGA
>GPSHEAD 3 $GPGGA
>

You might want to output a $GPRMC that sends a POSIT and a GPS
course and speed.

The Alt (height above sealevel) that is part of $GPGGA doesn't change
much except in the LOCKS. :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

350. AMATEUR EQUIPMENT FOR SALE

From: "Bob Dye" <kc4hdk@gate.net>
Date: Thu, 14 Nov 1996 21:52:17 -0500
To: "aprs sig" <aprssig@tapr.org>, "GEORGE DAWSON" <wa4owc@treco.net>,
"Bob KC4HDK Dye" <kc4hdk@gate.net>, "Richard Garcia" <n2czf@magg.net>,
"Richard (SALE) Helton" <rhelton@netcom.com>,
"Jack Honacher (KO4XG)" <JHonacher@aol.com>,
"John N4PLY Kuklinski" <n4ply@amsat.org>,
"Jim Ketring" <wireless@bellsouth.net>,
"Chris (SALE) Lewicki" <chrisl@LPL.Arizona.EDU>,
"Ron (SALE) Long" <rlong@magnus.acs.ohio-state.edu>,
"Jo M" <joseph@gate.net>,
"Stacey E. Mills, (SALE) M.D." <sem2r@virginia.edu>,
"Pat (THC)" <Snorkel001@aol.com>,
"Philip (SALE) Peake" <philip@vogon.rain.com>,
"Matt N8RZZ Regan" <n8rzz@gate.net>,
"saved2@juno.com (SALE)" <saved2@juno.com>,

"Steve M Sherer" <ssherer2@juno.com>,
"Bill J. Sinbine (N4XEO)" <stonehvn@gate.net>
Message-ID: <199611150305.WAA48408@osceola.gate.net>
Rendered body type: text/plain

Well here is the list. Most of this equipment was hardly ever used. I am
getting out of many parts of ham radio concentrating on my UHF repeater and
links to it. I will pay for shipping. Can do COD or check in advice. Please
pass on this message to others that may be interested. If you are on local
packet please post it on the local BBS. Trying to generate revenue. Thank you
for your time.

Bob
kc4hdk@gate.net
561.552.3114 If no answer leave voice mail

MANUFACTURE	MODEL #	CONDITION & DESCRIPTION	ASKING
MFJ	VERSA TUNER V	GOOD	$250
KENWOOD	TS690	EXCELLENT, WITH INTERNAL ANT TUNER	$1,200
AEA	DSP-232	NEW IN BOX	$343
YAESU	G-5400B	EXCELLENT, SEPARATOR KIT, 200' CABLE	$456
KIRON CORP	SATTRAK IV	HIGH ACC CLOCK, TRACKING BOX	$388

351. Re: [APRSSIG:6406] Re: KPC-3 on a boatride

From: Steve Gemeny <sgemeny@access.digex.net>
Date: Thu, 14 Nov 1996 22:06:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.94.961114220403.12830B-100000@access4.digex.net>
Rendered body type: text/plain

On Thu, 14 Nov 1996, Robert Winingham wrote:

> You might want to output a $GPRMC that sends a POSIT and a GPS
> course and speed.
>
> The Alt (height above sealevel) that is part of $GPGGA doesn't change
> much except in the LOCKS. :-)

woulda ... but Magellen didn't give me that option. Least not that I
could find in the manual.

Steve
AA3NM

352. RE: [APRSSIG:6350] Re: APRS, DPGS, etc.

From: Steve Childress <stevech@pacbell.net>
Date: Thu, 14 Nov 1996 19:43:09 -0800
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBD265.99315EA0@ppp-206-170-121-15.sndg02.pacbell.net>
Rendered body type: text/plain

Can you say much about your DGPS beacon, AVL project?
I'm learning about AVL systems.
stevech@pacbell.net

From: Gerald J Creager[SMTP:gerry@cs.tamu.edu]
Sent: Wednesday, November 13, 1996 1:26 AM
To: aprssig@tapr.org
Subject: [APRSSIG:6350] Re: APRS, DPGS, etc.

Randy,

My take on it is, it's packet, it's a service to local amateurs (eg., QST).
Therefore, with appropriate ID'ing it could go whereever the APRS activity is.

I'll be putting up a DPGS beacon here in College Station, Texas, but it'll be
on commercial freq's... because that's where the folks paying for it are doing

```
AVL work. Still and all, I'll be publishing the frequency and possibly
splitting off the feed to a 145.79 transmitter sometime in the future.

73, gerry
--
Gerry Creager  N5JXS                 *  SAREX Co-Investigator
gerry@cs.tamu.edu                    *     A little radio that lets kids talk
                                     *       to astronauts, and smile
*****************************************************************************
```

---

353. Re: [APRSSIG:6395] WinAPRS 1.1.7

From: BordingK@aol.com
Date: Thu, 14 Nov 1996 23:25:19 -0500
To: aprssig@tapr.org
Message-ID: <961114232518_1949671662@emout08.mail.aol.com>
Rendered body type: text/plain

```
MARK:

Does 1.1.7 also fix the problem with WINAPRS not sending Peet Bros Wx
(U-2000) packets, even tho it sees them when in your Window/Terminal/WX mode?

I had to go back to DOS APRS to get my weather station on the air.  As I have
said before, even the Tech Support Guy at Peet Bros says they have been
unable to get WINAPRS up with their U-2000 despite numerous attempts.

WinAPRS Documentations says it should work, does it now?

de KF4COH
Ken in Jax
```

---

354. Re: [APRSSIG:6410] Re: WinAPRS 1.1.7

From: Gary Arnold <garnold@naples.net>
Date: Fri, 15 Nov 1996 00:14:51 -0500
To: aprssig@tapr.org
Message-ID: <328BFC4B.2B99@naples.net>
Rendered body type: text/plain

```
BordingK@aol.com wrote:
>
> MARK:
>
> Does 1.1.7 also fix the problem with WINAPRS not sending Peet Bros Wx
> (U-2000) packets, even tho it sees them when in your Window/Terminal/WX mode?
>
> I had to go back to DOS APRS to get my weather station on the air.  As I have
> said before, even the Tech Support Guy at Peet Bros says they have been
> unable to get WINAPRS up with their U-2000 despite numerous attempts.
>
> WinAPRS Documentations says it should work, does it now?
>
> de KF4COH
> Ken in Jax

Don't know about the Peet...but 1.1.6 and 1.1.7 have been working well
with the Davis...at least temp, wind dir/speed, and barometer. No rain
measurements yet on the air, but it registers on the screen.

73, Gary
--
Gary Arnold, CEM
Collier County Emergency Management
E-mail: garnold@naples.net
Packet: wb2wpa@wb2wpa.#nap.fl.usa.noam

EM home page: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
My home page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"It doesn't matter what temperature a room is, it's always room
temperature."
        --Steven Wright, peripheral visionary
```

---

355. Re: [APRSSIG:6384] Unwarranted/unwanted attachments!

From: "David W. McNeil" <ki5vm@flash.net>
Date: Thu, 14 Nov 1996 20:56:20 -0600
To: aprssig@tapr.org
Cc: ku0g@sprynet.com
Message-ID: <328BDBD3.5595@flash.net>

Rendered body type: text/plain

```
Jim Duncan wrote:
>
> Gentlemen (and ladies)....
>
> Please remember that it is totally inappropriate to completely quote someone
> else's posting except in the circumstance that a quotation is proper to make
> a point.

Mr. Duncan:
The point and intent of this post was to forward this message, in it's
complete context, to another person, to be exact, Mr.Don Cole KJ5JY for
his information. To be kept as reference pertaining to Garmin and APRS.
The post was set as deferred mail and the address line, inadvertantly or
unfortunately did not or was not changed, henceforth it was sent back to
the sig by mistake.

> ALSO.....
>
> It is completely inappropriate to waste the bandwidth and the on-line time
> of the rest of the members of the SIG to attach "cute little GIF files"
> which get stored on everybody's hard drive without at least making the
> availability known and asking if anyone REALLY would like to have them first!

Mr. Duncan:
Thank you for your comment. I would inform you that the day's have long
since passed in which I could have been reffered to as someone without a
proper knowledge of "Netiquette". May I refer you to your "ALSO" above,
you don't have to shout.

The "cute little gif file" again was intended for and to Mr. Don Cole
who collects and sends them via e-mail to his 70+ year old mother in
Florida.  She enjoys them so.

I use them as a "signature" in my "private posts'", unlike some "10 line
asterik
boxed autobiography", or "super sized ascii "call sign" type signature
files I have seen on this SIG.

I will make the availability known... This is a standard animated gif
format file.
Since for whatever reason it is now on the SIG, if you are using
Netscape, place the mouse cursor on the center of the line containing
the "puppy" and press the right mouse button. Select save file  and
place in the directory of your choice.
Now Mr. Duncan you can have your very own "cute little puppy".

> (I have received three messages like this this evening alone!  I'm SO glad
> that I spend $140.00 per month for ISDN telephone service plus an additional
> $29.95 for ISDN Internet access through my ISP just so I can watch have my
> very own copy of a "cute little puppy" playfully hopping back and forth
> across my monitor.)

Mr. Duncan:
As you can probably see, I didn't send the other two.

Where did you obtain your ISDN service at such a low rate. I wasn't that
lucky, It costs me more than that here in Texas.

If I had something on my screen I didn't want I'd use my "delete"
function.
You can find your's by reading the Help File that came with your
browser.

If you can't find it.. unsubscribe or get a larger capacity hard drive..
They're so inexpensive nowadays.

> IN A NUTSHELL:   STOP IT!  (or at LEAST have the courtesy to ask before you
> send...)  Hey....For all I know that cute, little puppy could be a virus in
> disguise.

Mr. Duncan:
I understand.
Now, If you did, you'd know that, number one, your'e "shouting" again,
and number two,
unlike a .bat, .exe, .com, or .zip file, that you would not or could not
pick up a "virus" from an uncompressed and uncontaminated graphics
format file.
```

> This is NOT cool. This is ALSO not the way to introduce yourself to the
> APRS SIG.....

Mr. Duncan:
Excuse me?? I don't believe That I am introducing myself to the SIG, or
for that matter, trying to be cool. I check the SIG every day, but I
never reply to anyone's post unless I have the proper information to
pass on regarding their inquiry.
Check your archives...

> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@kcaprs.com
> EMail: ku0g@sprynet.com

Dear SIG:
Please excuse the unfortunate error which caused the original post,
(with the addition of the "cute little puppy",) which upset Mr. Duncan
so, to be repost back to the SIG.
73 de Dave KI5VM

---

356. Re: [APRSSIG:6409] Re: APRS, DPGS, etc.

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Fri, 15 Nov 96 06:38:48 GMT
To: aprssig@tapr.org
Message-ID: <592@tomcat.gsfc.nasa.gov >
Rendered body type: text/plain

Stevech (Hey guys -- add your call to either your From: or signature!) asked Gerry (N5JXS) about the DGPS beacons. Since (as far as I know) I'm the only amateur DGPS generator, let me answer. Here in the Baltimore/ Washington area, the W3IWI-13 DGPS sends out differential corrections once per 20 seconds.

The DGPS signals are generated by a professional (Trimble 4000SSE) dual-frequency GPS receiver operating on one of the many antenna ports associated with the GODE IGS GPS facility. The DGPS bits come out of the professional "toys" and poke into a strictly amateur setup on the local 145.79 APRS net. The signals are relayed thry WIDE,WIDE and cover the entire Chesapeake Bay area, plus parts of SNJ, EPA, NoVA and WVA. Your TNC provides the DGPS data in a format similar to that coming out of a Coast Guard (~300 kHz) or commercial FM broadcast subcarrier (like DCI or ACQUPOINT) source. The local users report it provides corrections at the few meter level and that velocities reported by their GPS receivers are MUCH more accurate.

I presume Gerry's idea is to tap the "sponsored" DGPS signals at the RS232 level and do the same thing at Cow College!

Regarding the questions on legality: All of our packet radio "beacons" are subject to the same question! The FCC has been mute on the topic for several years. If they were to be asked formally, they would either say "you amateurs are supposed to be self enforcing. We have no opinion", or they would say "Now that you bring it up, a lot of your activities are not covered by the rules and hence are not legal". The moral of the story is "DON'T ASK!!!"

73 de Tom, W3IWI

---

357. HELP-UTM Grid to LAT/LON Conversion

From: "Theodore A. Antanaitis" <tedant@pipeline.com>
Date: Fri, 15 Nov 1996 03:22:34 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961115082234.31970da2@pop.pipeline.com>
Rendered body type: text/plain

HELP!

I am trying to improve the precision of a program which converts UTM Grid X-Y coordinates to latitude/longitude values.

The mapping program I have put together does a good job on the conversions to latitude but not on the conversions to longitude. I am getting conversion errors of up to 4 seconds of longitude.

Is there a formula, algorithm, or look-up table available for this conversion that I can incorporate into my program? Are any reference texts available? I am currently using a routine based on straightforward trigonometry with a linear error correction derived from reference points.

The source UTM data that I am using is from the 1:2,000,000 Scale USGS DLG
CDROM Mastered 7/95. (This CD does not contain any LAT/LON based DLG files)

Any help would be appreciated.

Ted Antanaitis WA7ZZB

358. Re: [BitBucket] Approximately 100.00 US dollar GPS receiver

From: SWeigold@aol.com
Date: Fri, 15 Nov 1996 09:03:06 -0500
To: aprssig@tapr.org
Message-ID: <961115090304_349898871@emout14.mail.aol.com>
Rendered body type: text/plain

```
Here is a copy of an email I got from one of the other lists I subscribe
to... Any comments?
Steve KF8KI

In a message dated 96-11-15 01:48:45 EST, you write:

> Subj: [BitBucket] Approximately 100.00 US dollar GPS receiver
>  Date:        96-11-15 01:48:45 EST
>  From:        eac@shore.net (Eric A. Cottrell)
>  Sender:      owner-bitbucket@lists.primenet.com
>  To:  amsat-bb@amsat.org, bitbucket@lists.primenet.com
>
>  Hello,
>
>  It was bound to happen sooner or later.  Today I got an ad from
>  DeLorme for Street Atlas 4.0 and in the flyer they had a page on
>  their Tripmate package.
>
>  Tripmate is the Street Atlas 4.0 CDRom with a GPS receiver!
>  The shock was that as an upgrade special  SA 4.0 was
>  25 dollars and Tripmate (SA 4.0 plus GPS receiver) was
>  125 dollars!
>
>  While shopping at my local Microcenter I saw a returned one for
>  130 so I bought it.  Microcenter's regular price was 150.
>
>  The documentation says that it can only be used with SA 4.0.
>  The SA 4.0 CD also has MapnGo 2.0 drivers for the unit.
>  It takes 4 AA batteries. Specs say it is a 12 channel L1 C/A-code
>  receiver (most likely muliplexing two real channels) using
>  NMEA-0183 protocol.  There is just a serial cable coming out
>  of the box and there are no controls on unit.
>
>  It is a small yellow oddly shaped plastic box.  The bottom comes
>  off to reveal a battery holder on one half and a metal plate
>  covering the electronics with glyptol covered screws on the
>  other half.  The manual mentions a power adapter kit for
>  powering the GPS receiver through the cigarette lighter
>  or laptop.  It uses a patch antenna on the top of the
>  unit.  No external antenna connector.
>
>  I have not gotten a chance to power it up and it is too
>  soon to break the seals on the screws.  But I am going
>  to hook this puppy up to a comm analyzer because I
>  got a feeling that this unit may be useful for stuff like
>  that dreaded ARPS (Amateur Radio Position Service).
>
>  I would think that it would have a "power" switch either
>  through software or by using a handsake line on the
>  serial port.  Otherwise the batteries would go flat after
>  a few hours.  The manual also mentions that the
>  SA 4.0 program can send a inital position to the
>  tripmate.
>
>  I will let you know when I got further infomation.
>
>  73 Eric   eac@shore.net
>
>  -----
>  Submissions:             bitbucket@primenet.com
>  Administrative requests:  majordomo@primenet.com
>  WWW:                     http://www.primenet.com/~ke7gh
>  Questions:               owner-bitbucket@primenet.com
>
```

359. Re: [APRSSIG:6410] Re: WinAPRS 1.1.7

From: Mark Sproul <sproul@ap.org>
Date: Fri, 15 Nov 1996 09:15:46 -0500
To: aprssig@tapr.org
Message-ID: <v03007802aeb22b7172d1@[165.1.27.20]>
Rendered body type: text/plain

>MARK:
>
>Does 1.1.7 also fix the problem with WINAPRS not sending Peet Bros Wx
>(U-2000) packets, even tho it sees them when in your Window/Terminal/WX mode?
>
>I had to go back to DOS APRS to get my weather station on the air. As I have
>said before, even the Tech Support Guy at Peet Bros says they have been
>unable to get WINAPRS up with their U-2000 despite numerous attempts.
>

Yes, Version 1.1.7 fixes the U-2000 bug that appeared in 1.1.6.

Mark

```
___________________________________________________________________________
Mark Sproul                          |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                        |Work: 609-860-7120
North Brunswick, NJ                  |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

360. New WX format?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Nov 1996 10:10:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961115100653.26295C-100000@arctic>
Rendered body type: text/plain

In IOWA, there appears to be someone transmitting WX bulletins that is
trashing some peoples screens. Anyone got a handle on this and can help
Larry?

On Thu, 14 Nov 1996, Larry Keeran wrote:

```
> This is copy from my BL140201.LOG file tonight.  The text scrolls up the map
> and obscures it.  I looked in my settings and C F J was on.   The map didn't
> scroll, just the one line text kept going up....
>
> W0BXR-2   140116
> □NNNNZCZC DSMMTRCID
> W0BXR-2   140116
> □□SXUS90 KWBC 140605
> W0BXR-2   140116
>  SPECI KCID 140605Z 00000KT 3SM BR CLR 12/12 A3007 RMK AO2=
> W0BXR-2   140139
> □NNNNZCZC DSMMTRIOW
> W0BXR-2   140139
> □□SXUS90 KWBC 140626
> W0BXR-2   140139
>  SPECI KIOW 140626Z AUTO 00000KT 1SM BR CLR 12/11 A3007 RMK AO
```

361. Approximately 100.00 US dollar GPS receiver (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 15 Nov 1996 10:25:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961115102457.26295E-100000@arctic>
Rendered body type: text/plain

---------- Forwarded message ----------
From: "Eric A. Cottrell" <eac@shore.net>
To: amsat-bb@amsat.org, bitbucket@lists.primenet.com
Subject: Approximately 100.00 US dollar GPS receiver

It was bound to happen sooner or later. Today I got an ad from
DeLorme for Street Atlas 4.0 and in the flyer they had a page on
their Tripmate package.

Tripmate is the Street Atlas 4.0 CDRom with a GPS receiver!

The shock was that as an upgrade special SA 4.0 was
25 dollars and Tripmate (SA 4.0 plus GPS receiver) was 125 dollars!

The documentation says that it can only be used with SA 4.0.
The SA 4.0 CD also has MapnGo 2.0 drivers for the unit.
It takes 4 AA batteries. Specs say it is a 12 channel L1 C/A-code
receiver (most likely muliplexing two real channels) using
NMEA-0183 protocol. There is just a serial cable coming out
of the box and there are no controls on unit.

It is a small yellow oddly shaped plastic box. The bottom comes
off to reveal a battery holder on one half and a metal plate
covering the electronics with glyptol covered screws on the
other half. The manual mentions a power adapter kit for
powering the GPS receiver through the cigarette lighter
or laptop. It uses a patch antenna on the top of the
unit. No external antenna connector.

I have not gotten a chance to power it up and it is too
soon to break the seals on the screws. But I am going
to hook this puppy up to a comm analyzer because I
got a feeling that this unit may be useful for stuff like
that dreaded ARPS (Amateur Radio Position Service).

I would think that it would have a "power" switch either
through software or by using a handsake line on the
serial port. Otherwise the batteries would go flat after
a few hours. The manual also mentions that the
SA 4.0 program can send a inital position to the
tripmate.

I will let you know when I got further infomation.

73 Eric   eac@shore.net

---

362. Re: [APRSSIG:6414] HELP-UTM Grid to LAT/LON Conversion

From: Tyler Parsons <parsont@peak.org>
Date: Fri, 15 Nov 1996 08:00:18 -0800
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.32.19961115160018.0068556c@peak.org>
Rendered body type: text/plain

At 01:27 AM 11/15/96 -0600, Theodore A. Antanaitis wrote:
>HELP!
>
>I am trying to improve the precision of a program which converts UTM Grid
>X-Y coordinates to latitude/longitude values.
>
>The mapping program I have put together does a good job on the conversions
>to latitude but not on the conversions to longitude. I am getting conversion
>errors of up to 4 seconds of longitude.
>
[snip]

>Ted Antanaitis WA7ZZB
>
>
This may be overkill, but there is a program by the US Corps of Engineers
named CORPSCON (surprise!) which does multiple geodetic conversions using
the National Geodetic Survey geodetic modelling conversions, plus others.
It will convert UTM to Lat/Long, and I think will do batch processing.

The program is available by ftp at
/survey1.tec.army.mil/pub/software/corpscon.410/v41xzip.exe (for everything,
all 3.3Meg)

If you don't need vertical conversions, and want a much smaller download, get
everything in the directory EXCEPT v41xzip.exe, and vertcon*.*.

This covers CONUS, Puerto Rico/Virgin Islands, and Hawaii. If the
CONUS.*,PRVI.*,
and HAWAII.* files are not in v41xzip.exe, get the *.LAS and *.LOS files
separately. Alaska is one directory up and under corpscon.alask/. The UTM may
not need the *.LOS and *.LAS files.

You may also be able to get the source code from the COE, I'm not sure.

Good Luck!

```
Tyler Parsons PLS
WB7DDL     USMA '68
parsont@peak.org
http://www.peak.org/~parsont/
 "In the beginning the Universe was created. This has made a lot of
people very angry and been widely regarded as a bad move." Douglas Adams
```

---

363. Re: [APRSSIG:6355] [Q] KPC-3

From: dougwe@ccintnet.wrq.com
Date: Fri, 15 Nov 96 08:21:12 PST
To: aprssig@tapr.org
Message-ID: <9610158480.AA848075022@ccintnet.wrq.com>
Rendered body type: text/plain

```
ROM V6.0 includes GPS support.

Doug
K7IP

Hi I have a KPC-3 and wanted to know what is the newest ROM version. I have
5.1 and it doesn't seem to have the APRS mode.

Thanks,
Ben
```

---

364. Re: [APRSSIG:6418] Approximately 100.00 US dollar GPS receiver (fwd)

From: Steve Boyle <sboyle@netcom.com>
Date: Fri, 15 Nov 1996 09:02:47 -0800
To: aprssig@tapr.org
Message-ID: <328CA237.1BEA@netcom.com>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> ---------- Forwarded message ----------
> From: "Eric A. Cottrell" <eac@shore.net>
> To: amsat-bb@amsat.org, bitbucket@lists.primenet.com
> Subject: Approximately 100.00 US dollar GPS receiver
>
> I have not gotten a chance to power it up and it is too
> soon to break the seals on the screws.  But I am going
> to hook this puppy up to a comm analyzer because I
> got a feeling that this unit may be useful for stuff like
> that dreaded ARPS (Amateur Radio Position Service).

What does he mean by "that dreaded ARPS"! APRS is the most interesting
use of amateur packet I have seen. This guy better wakeup! =;)

Steve
KD6WXD
```

---

365. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 15 Nov 1996 17:10:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;SNGA-7562-4900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:6...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

366. Re: [APRSSIG:6417] New WX format?

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 15 Nov 1996 11:44:53 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961115174453.006b30c0@tbcnet.com>
Rendered body type: text/plain

```
I think it was W0BXR-2.  Everytime it xmitted WX info, my screen went into
line feed mode.  I had to BUDLIST it out, which cured the prob.
```

jbl

```
At 09:08 11/15/96 -0600, you wrote:
>In IOWA, there appears to be someone transmitting WX bulletins that is
>trashing some peoples screens.  Anyone got a handle on this and can help
>Larry?
>
>On Thu, 14 Nov 1996, Larry Keeran wrote:
>
>> This is copy from my BL140201.LOG file tonight.  The text scrolls up the map
>> and obscures it.  I looked in my settings and C F J was on.   The map didn't
>> scroll, just the one line text kept going up....
>>
>> W0BXR-2   140116
>> □NNNNZCZC DSMMTRCID
>> W0BXR-2   140116
>> Å□SXUS90 KWBC 140605
>> W0BXR-2   140116
>>  SPECI KCID 140605Z 00000KT 3SM BR CLR 12/12 A3007 RMK AO2=
>> W0BXR-2   140139
>> □NNNNZCZC DSMMTRIOW
>> W0BXR-2   140139
>> Å□SXUS90 KWBC 140626
>> W0BXR-2   140139
>>  SPECI KIOW 140626Z AUTO 00000KT 1SM BR CLR 12/11 A3007 RMK AO
>
--------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

---

367. Re: Digitizing with a MAC

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 15 Nov 96 13:06:52 EST
To: <aprssig@tapr.org>
Message-ID: <961115180651_71301.3106_FHJ52-1@CompuServe.COM>
Rendered body type: text/plain

To Dennis and Dan -

<blush!> Appreciate the kudos, guys! Makes the effort worth it, you know.

I completely missed that Alex's query was for a Mac. (Like... uh... duh, it was in the header!) I s'pose that I was thrown off by the DL-land call. We have to bear in mind that MacDLG will only work for US locations, because it relies entirely on public-domain map data supplied by our government.

I was contemplating going world-wide with DOD's "Digital Chart of the World" data, but found it way too coarse and the data format arcane and overly complex given the result. My objective, anyway, was to fill a need for local, detailed maps, since my particular APRS niche is public service (local events) and foxhunting/RDF.

There was a "micro" release (v1.05) at the ARRL Convention which I keep forgetting to package for upload to the TAPR server. It fixed a couple of minor bugs and allowed the wide lines feature to be selectable.

A serious effort is under way to completely redo the optimization routines, although it has been waylayed over the past two months due to a big project push at work. With Keith Sproul's help, I was able to determine that MacDLG was actually not optimizing vectors as well as it should, and that the process could be much, much, MUCH more efficient. Preliminary tests say that we should see a 10X improvement in optimization time and maybe another 5-10% reduction in map file size.

I'm also looking at the possibility of user redesignation of road typing through a selection list which is reviewed after optimization. In other words, a US40 or a State Route 79 may actually be a freeway, but they get "mis-typed" because there's no "limited access" subcoding in the DLG data (only in TIGER). Another related feature, though low on the list, is the ability for the user to select the Mac/WinAPRS color for each line category. The palettes have been built, but I've got to get my head clear first about using resource-based pop-up menus.

Something else on the "hot" list is the ability to take a raw GPS data stream from data captured during a route drive and allow it to be added to an existing map. The only qualm I have about this is editability - even my best-intended driving efforts to trace a particular route end-up with a wrong turn somewhere!

<g!>

Political boundaries (borders) are on the long list, but line subtyping has proved vexing. I'm not happy with the tests so far, so until there is an epiphany about determining the line categories, I'm not inclined to draw boundary lines. There's a lot of specious data (for example, a city park here is somehow defined as a political area) so they really clutter maps with meaningless vectors if you let everything fly.

Due to work and "life" commitments I can't begin to project availability of v2.0, but cross your fingers and there might be something new out during the winter.

Again, thanks, guys.

  ...mike/N0QBF

368. Re: [APRSSIG:6416] Re: WinAPRS 1.1.7

From: schiers@ames.net
Date: Fri, 15 Nov 96 12:18:09 -0500
To: aprssig@tapr.org
Message-ID: <199611151819.MAA03559@tapr.org>
Rendered body type: text/plain

```
In <888463@bbs.ames.net>, on 11/15/96 at 08:23 AM,
   aprssig@tapr.org said:

>>MARK:
>>
>>Does 1.1.7 also fix the problem with WINAPRS not sending Peet Bros Wx
>>(U-2000) packets, even tho it sees them when in your Window/Terminal/WX mode?
>>
>>I had to go back to DOS APRS to get my weather station on the air.  As I have
>>said before, even the Tech Support Guy at Peet Bros says they have been
>>unable to get WINAPRS up with their U-2000 despite numerous attempts.
>>


>Yes, Version 1.1.7 fixes the U-2000 bug that appeared in 1.1.6.



>Mark

I am running waprs 117 as of this morning and it works just fine with  my
u-2000. It has worked with every version of waprs I have run, with the
exception of 116, which I never put on. 115 worked as did all my prior
versions, and now, of course, 117. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

369. Re: [APRSSIG:6380] KPC-3 on a boatride

From: schiers@ames.net
Date: Fri, 15 Nov 96 12:30:46 -0500
To: aprssig@tapr.org
Message-ID: <199611151831.MAA04544@tapr.org>
Rendered body type: text/plain

```
In <885681@bbs.ames.net>, on 11/13/96 at 10:06 PM,
   aprssig@tapr.org said:

>Crew:
>       Capt.   W3OKB
>       1st Mate N3WUJ
>       Sysop/Nav AA3NM
>       Galley W3OKB/XYL

Thanks for sharing the story. Most interesting and informative. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

370. Re: [APRSSIG:6421] Re: Approximately 100.00 US dollar GPS receiver (fwd)

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Fri, 15 Nov 1996 12:36:29 -0600
To: aprssig@tapr.org
Message-ID: <v03007803aeb213022b2a@[138.87.2.109]>
Rendered body type: text/plain

On Fri, 15 Nov 1996 11:11 Steve Boyle wrote:
>> got a feeling that this unit may be useful for stuff like
>> that dreaded ARPS (Amateur Radio Position Service).
>
>What does he mean by "that dreaded ARPS"! APRS is the most interesting
>use of amateur packet I have seen. This guy better wakeup! =;)

Last night I had a situation that may explain the concept:
- A new packeteer
- A new TNC
- A new PC
- A presently installed TNC software package.

He installed APRS and said "it" was too complicated. He said "APRS was..."

We have to judge each condition separately and compare the level of
expertise, not that it takes experts for APRS, in order to see if the
complaint is the whole computer thing or the software package.

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

371. Re: [APRSSIG:6413] Re: APRS, DPGS, etc.

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Nov 1996 16:12:02 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611152212.QAA12248@solar.cs.tamu.edu>
Rendered body type: text/plain

Tom Clark -- W3IWI sez:
>
>
> Stevech (Hey guys -- add your call to either your From: or signature!)
> asked Gerry (N5JXS) about the DGPS beacons. Since (as far as I know) I'm
> the only amateur DGPS generator, let me answer. Here in the Baltimore/
> Washington area, the W3IWI-13 DGPS sends out differential corrections
> once per 20 seconds.

I think this one was in MIME, and I've not gone to the system that supports it
yet, to read it...

> The DGPS signals are generated by a professional (Trimble 4000SSE) dual-
> frequency GPS receiver operating on one of the many antenna ports associated
> with the GODE IGS GPS facility. The DGPS bits come out of the professional
> "toys" and poke into a strictly amateur setup on the local 145.79 APRS net.
> The signals are relayed thry WIDE,WIDE and cover the entire Chesapeake Bay
> area, plus parts of SNJ, EPA, NoVA and WVA. Your TNC provides the DGPS
> data in a format similar to that coming out of a Coast Guard (~300 kHz)
> or commercial FM broadcast subcarrier (like DCI or ACQUPOINT) source.
> The local users report it provides corrections at the few meter level
> and that velocities reported by their GPS receivers are MUCH more accurate.

Similar to what I waht to do... 'Cept I doubt I'll cover the Chesapeake Bay
very well...;-)

> I presume Gerry's idea is to tap the "sponsored" DGPS signals at the RS232
> level and do the same thing at Cow College!

since I'm the "sponsoring authority" (it's OK to cringe, Tom) that will be
pretty easy. We're using it for AVL applications on commercial UHF, in a
17-county scenario, and the local Municipal Planning Org. will now use the
RTCM outputs for their mapping and geocoding, too. I intend to do a
WIDE,RELAY scema here, since we don't have WIDE,WIDE coverage around here
reliably. I'll be checking on that and WIDE by itself for best performance.

> Regarding the questions on legality: All of our packet radio "beacons"
> are subject to the same question! The FCC has been mute on the topic for
> several years. If they were to be asked formally, they would either say
> "you amateurs are supposed to be self enforcing. We have no opinion", or
> they would say "Now that you bring it up, a lot of your activities are
> not covered by the rules and hence are not legal". The moral of the
> story is "DON'T ASK!!!"

Here, hear.

I have also done this extensively for Cows In Space albeit without
digipeaters, and have had exemplary success. It isn't too hard to do
mechanically/electrically. I just had to pry all the pieces from the hands of
folks who thought THEY needed 'em.

An aside: I know it's unlikely, but is anyone else going to GIS-LIS 96 in
Denver next week? I've a Wednesday morning "performance" where I'll be doing
the Cows In Space song and dance.

Tom, thanks for the leads. We're on our way to UNAVCO membership, I think,
and starting to do long baseline work with 1-2 cm closures.

73, gerry
n5jxs

372. Re: [APRSSIG:6414] HELP-UTM Grid to LAT/LON Conversion

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 15 Nov 1996 16:14:02 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611152214.QAA12335@solar.cs.tamu.edu>
Rendered body type: text/plain

Theodore A. Antanaitis sez:
>
> HELP!
>
> I am trying to improve the precision of a program which converts UTM Grid
> X-Y coordinates to latitude/longitude values.
>
...
> Is there a formula, algorithm, or look-up table available for this
> conversion that I can incorporate into my program? Are any reference texts
> available? I am currently using a routine based on straightforward
> trigonometry with a linear error correction derived from reference points.

Go check on the USGS site for utilities. If memory serves, they have the
algorithm for UTM to NAD27 and NAD83. Mind your projections.

73, gerry
--
Gerry Creager N5JXS
Research Assistant, Mapping Sciences Laboratory, Texas A&M University
n5jxs@.tamu.edu gerry@rsgis3.tamu.edu
409.845.9425
"Not an Official Document of Texas A&M or the Mapping Sciences laboratory"

373. Re: [APRSSIG:6395] WinAPRS 1.1.7

From: schiers@ames.net
Date: Fri, 15 Nov 96 10:09:50 -0500
To: aprssig@tapr.org
Cc: sproul@ap.org
Message-ID: <199611152227.QAA06550@tapr.org>
Rendered body type: text/plain

In <886968@bbs.ames.net>, on 11/14/96 at 11:49 AM,
aprssig@tapr.org said:

>-----------------------------------
>Version 1.1.7 - November 14, 1996

>*** Major weather additions. Added configurable display for any station
>that has weather data.

There are some VERY nice features in this:

1. If you select Display Wx Stations Only you get a nice table on the
map next to the callsign of the station showing current conditions
and the age of the report. (Zoom down some to unclutter the screen)
This is a GREAT feature.

>*** Added Unproto path list, this is a list of the paths that each
>station is using

1. I haven't seen an entry appear in this window yet, and don't have
a clue as to what this window is doing. (Program has been running
for a couple hours). Any ideas?

>*** Incoming messages to the user now brings up the message window
>automatically.

1. This is a very nice idea as well, but I haven't gotten a message yet,
   so can't say how it works. Like the idea.

>*** Fixed message window bug that replied to the wrong station unless ALL
>MESSAGES was selected.

1. Thanks. Not tested yet, but a very welcome fix.

>*** Fixed one or two minor memory leaks, this might help with some of the
>crashs that a few users were having.

1. I am up to 32 mb ram now, so not sure what I will see in terms of
   memory problems. I may not be fit for testing any longer with this
   much ram on board.

>*** When running dual port TNCs, message acks now go out the right port.

1. A good fix, not tested here yet. (No messages received yet)

>*** When running dual port, the station list now shows properly red/blue
>for HF/VHF stations.

1. Works perfectly and very much enhances the station display in the
lists.

Nice bunch of fixes, Mark and the wx enhancements really add a lot. I now have a series of very small windows open to selected parts of the country, just large enough to show the enhanced wx data for a given station. Really adds functionality to the wx stuff, and the AGE report is a GREAT feature. (AGE is the number in RED...how long since the last wx update from that station.

Speaking of weather: Last night, based on the assurances of the NWS, I left Ames for Des Moines to do some training. NWS said, "Don't over-react, not to worry, no precip until after Midnight". HA!

At 5 p.m. the freezing rain started. I left for Ames (normally a 30 minute drive), at 6 p.m. I sat on I-35 just south of Ankeny for an hour and 14 minutes. Drove the rest of the way at 8 mph, and got home 3 hours later after one of the scariest trips I have ever taken. Thankyou NWS, TV-Weather, et al....you all had it VERY WRONG....and by SIX HOURS. Sheesh!

73,

hasan schiers, N0AN
----
schiers@ames.net

---

374. Re: New WX format?

From: henryvb <henryvb@dpliv.com>
Date: Fri, 15 Nov 1996 17:09:18 -0600
To: aprssig@tapr.org
Message-ID: <328CF7FF.2F9C@dpliv.com>
Rendered body type: text/plain

BobAPR wrote about funky data appearing on 145.790 in the Midwest:

(deleted, cuz u probably read it)

```
> > W0BXR-2   140139=20
> >  SPECI KIOW 140626Z AUTO 00000KT 1SM BR CLR 12/11 A3007 RMK AO
>
```

The data is being transmitted by W0BXR-2, which is a TNC located at the NWS Davenport office. The data is from the NWS Weather Wire, has been reformatted for packet retransmission, and apparently the radio is set to APRS instead of the packet frequency that it should be on. I have sent the NWS e-mail regarding this problem, recieved no response, and the data still flows. I only see it if the band opens at night, but it must be driving Larry nuts since he is closer than me. I askad Hasan if he knew anybody out there, but he didn't. If there is someone lurking on the sig from Davenport please contact the NWS or someone @ Davenport

Radio Amateur Club (the call holder) and have them fix it.

Henry
N9WMM
henryvb@dpliv.com

---

375. Re: [APRSSIG:6417] New WX format?

From: Tom Weeden <tcweeden@execpc.com>
Date: Fri, 15 Nov 1996 17:13:56 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611152313.RAA10525@mail.execpc.com>
Rendered body type: text/plain

```
At 09:08 AM 11/15/96 -0600, you wrote:
>In IOWA, there appears to be someone transmitting WX bulletins that is
>trashing some peoples screens.  Anyone got a handle on this and can help
>Larry?
>
>On Thu, 14 Nov 1996, Larry Keeran wrote:
>
>> This is copy from my BL140201.LOG file tonight.  The text scrolls up the map
>> and obscures it.  I looked in my settings and C F J was on.   The map didn't
>> scroll, just the one line text kept going up....
>>
>> W0BXR-2   140116
>> □NNNNZCZC DSMMTRCID
>> W0BXR-2   140116
>>(etc.)
===================================================================
I'm seeing this occasionally in Madison WI as well.  I don't have the junk
filter turned on and the text fills up the screen, displacing my map.  It
looks like SA/METAR data from the National Weather Service out of Davenport IA.

--Tom Weeden, WJ9H
  South-Central Wisconsin SKYWARN Net Manager
  Madison, WI

APRS: !4301.38N/08929.95W
```

---

376. Seattle APRS

From: Don Hilman <hilman@camosun.bc.ca>
Date: Sat, 16 Nov 1996 03:42:56 -0800
To: aprssig@tapr.org
Message-ID: <328DA8C0.389F@camosun.bc.ca>
Rendered body type: text/plain

Is there anyone running APRS in Seattle or further northwesT? If so pse
give repeater freq.Direct Email is ok.

VE7FBI

---

377. New Callsigns on N2CHV digis

From: Mark Humphrey <mark@y100.com>
Date: Fri, 15 Nov 1996 19:10:52 -0500
To: aprssig@tapr.org
Message-ID: <328D068C.4698@y100.com>
Rendered body type: text/plain

This weekend, I plan to change the callsigns on the N2CHV-2 and N2CHV-3
WIDE-RELAY digipeaters in eastern PA to reflect my new callsign, KE3XY,
which was issued several days ago. The SSIDs at each site will remain
the same.

I'm aware that several of you are using these specific callsigns in your
UNPROTO paths. After you see the new calls appear on the screen, please
change your paths accordingly.

For your convenience, I will retain the old calls as aliases for a few
weeks (in addition to WIDE and RELAY), so your packets will still be
repeated until you make the changes... However, the MYCALL setting
(which functions as legal ID) will be updated, so this won't be very
apparent....

73, Mark KE3XY

ex-N2CHV

---

378. Re: [APRSSIG:6423] Re: New WX format?

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Sat, 16 Nov 1996 01:07:06 +0000
To: aprssig@tapr.org
Message-ID: <328D13BA.56C@netins.net>
Rendered body type: text/plain

```
My DOS/APRS friends tell me all they do is hit the space bar after the
WX dta is finished from w0bxr-2 and all is OK.

John B. Leonard, Jr wrote:
>
> I think it was W0BXR-2.  Everytime it xmitted WX info, my screen went into
> line feed mode.  I had to BUDLIST it out, which cured the prob.
>
> jbl
>
> At 09:08 11/15/96 -0600, you wrote:
> >In IOWA, there appears to be someone transmitting WX bulletins that is
> >trashing some peoples screens.  Anyone got a handle on this and can help
> >Larry?
> >
> >On Thu, 14 Nov 1996, Larry Keeran wrote:
> >
> >> This is copy from my BL140201.LOG file tonight.  The text scrolls up the map
> >> and obscures it.  I looked in my settings and C F J was on.   The map didn't
> >> scroll, just the one line text kept going up....
> >>
> >> W0BXR-2   140116
> >> □NNNNZCZC DSMMTRCID
> >> W0BXR-2   140116
> >> Å□SXUS90 KWBC 140605
++++++++
73,
Bill
```

---

379. Re: [APRSSIG:6433] Seattle APRS

From: ddobbins@juno.com (David S Dobbins)
Date: Fri, 15 Nov 1996 17:34:21 PST
To: aprssig@tapr.org
Message-ID: <19961115.173329.4455.3.ddobbins@juno.com>
Rendered body type: text/plain

Seattle APRS is on 145.79 and growing strong. Hope to have a well placed
WIDE in the near future. Next APRS demo will be Dec 7th, 0900, BEARS
monthly meeting in Kent.

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com

---

380. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 16 Nov 1996 02:04:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;UNGA-8392-4900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:6...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

381. Re: [APRSSIG:6435] Re: New WX format?

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 15 Nov 1996 20:04:59 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961116020459.006b59c4@tbcnet.com>
Rendered body type: text/plain

But with the BUDLIST method, my TNC doesn't even send it to the computer.
And hitting the space bar means you're forcing a redraw of the screen.

jbl

At 19:11 11/15/96 -0600, you wrote:
>My DOS/APRS friends tell me all they do is hit the space bar after the
>WX dta is finished from w0bxr-2 and all is OK.
>
>John B. Leonard, Jr wrote:
>>
>> I think it was W0BXR-2. Everytime it xmitted WX info, my screen went into
>> line feed mode. I had to BUDLIST it out, which cured the prob.
>>
>> jbl
>>
>> At 09:08 11/15/96 -0600, you wrote:
>> >In IOWA, there appears to be someone transmitting WX bulletins that is
>> >trashing some peoples screens. Anyone got a handle on this and can help
>> >Larry?
>> >
>> >On Thu, 14 Nov 1996, Larry Keeran wrote:
>> >
>> >> This is copy from my BL140201.LOG file tonight. The text scrolls up
the map
>> >> and obscures it. I looked in my settings and C F J was on.   The map
didn't
>> >> scroll, just the one line text kept going up....
>> >>
>> >> W0BXR-2   140116
>> >> □NNNNZCZC DSMMTRCID
>> >> W0BXR-2   140116
>> >> Å□SXUS90 KWBC 140605
>++++++++
>73,
>Bill
>

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

---

382. Re: [APRSSIG:6430] Re: WinAPRS 1.1.7

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Fri, 15 Nov 1996 21:01:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961115205836.27068B-100000@ns1>
Rendered body type: text/plain

Does the WinAPRS 1.1.7 support WX info transmitted by standalone, remote
Ultimeter 2000's ? I have not had much luck w/ the dos version. We see
the packets but no data shows.

```
Geoff Peacock                                                    '''
Mobile Area Free-Net, Inc.                                      (o o)
______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                      (334) 405-4600
```

On Fri, 15 Nov 1996 schiers@ames.net wrote:

> In <886968@bbs.ames.net>, on 11/14/96 at 11:49 AM,
>   aprssig@tapr.org said:
>
> >-----------------------------------
> >Version 1.1.7 - November 14, 1996
>
> >*** Major weather additions. Added configurable display for any station
> >that has weather data.
>

---

383. Re: [APRSSIG:6421] Re: Approximately 100.00 US dollar GPS receiver (fwd)

From: SWeigold@aol.com
Date: Fri, 15 Nov 1996 22:26:13 -0500
To: aprssig@tapr.org
Message-ID: <961115222612_1983385736@emout07.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-11-15 13:49:40 EST, you write:

> What does he mean by "that dreaded ARPS"! APRS is the most interesting
> use of amateur packet I have seen. This guy better wakeup! =;)

>
> Steve
> KD6WXD
>

I asked him that directly... still waiting on a reply!
73
Steve KF8KI

---

384. Mouse Problem 77d

From: mark.endicott@nashville.com
Date: Fri, 15 Nov 96 22:58:35
To: aprssig@tapr.org
Message-ID: <199611160503.XAA16078@tapr.org>
Rendered body type: text/plain

I wonder if anyone has had any experience with the case of the missing
mouse?

I just brought an old 486 sx 25 home from the office. It had some kind of
unknown terrible video card in it that I have just replaced with a new
Diamond SpeedStar 64 2000, 2 Meg Dram, ISA. The mouse cursor has
dissapeared from APRS but it is fine with other applications. I have
reloaded two other mouse drivers with the same results. When I move the
mouse the Lat and Lon display moves accordingly and the Left button shows
the "zoom" bar. But there is no mouse cursor on the screen. Is there a
new stealth mouse that I don't know about?

Before you say it there is no cat on this machine!

Help Appreciated........73 Mark (WB0NOO)

```
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

---

385. Help needed remote WxSta setup

From: "Don Murray" <james-m@ix6.ix.netcom.com>
Date: Sat, 16 Nov 1996 04:49:28 +0000
To: aprssig@tapr.org
Message-ID: <199611160949.BAA22229@dfw-ix6.ix.netcom.com>
Rendered body type: text/plain

Hello and thanks for reading this..

I am in need of help with setting up my U2000 to operate remotely
(without computer terminal) Aprs with my KPC-3 TNC.

I need the list of TNC commands that I need to send and also need to
know how others have the U2000 connected to the back of the KPC-3
(cabling and such). Do I need to simply go purchase a DB9 to DB25
converter??? It can't be that simple..grin

Thanks for any and all help
Don
AE4BR

---

386. message archives

From: Floyd Rodgers <frodgers@netcom.com>
Date: Sat, 16 Nov 1996 06:17:22 -0800
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961116081813.348741be@netcom.com>
Rendered body type: text/plain

Are the messages that cross the APRS sig stored anywhere online? I'd like to
be able to search them by topic.
PLEASE send replies to:
frodgers@netcom.com (personal) KC5QBC
frodgers@rotarydrill.com (Business)(972)495-8181
A practicing artist of multiple ended candle burning.

---

387. WinAPRS Mapmaking (was: Digitizing with a MAC)

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 16 Nov 1996 09:49:30
To: aprssig@tapr.org
Message-ID: <199611161450.JAA02963@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Mike,

On Fri, 15 Nov 1996 you wrote:

><blush!> Appreciate the kudos, guys! Makes the effort worth
> it, you know.

I can't remember, but I think your program is for MAC,
isn't it? Is there such an animal that'll help us PC-types
make WinAPRS maps from the USGS DLG (Optional format) C-D's? 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

388. Delorme Tripmate additonal information

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 16 Nov 1996 10:59:11 -0400
To: aprssig@tapr.org
Message-ID: <848159951-0-eac@shore.net>
Rendered body type: text/plain

Hello,

The unit seems to lock on the satellites reasonably fast.   I downloaded
the New England area onto my laptop and the moving map display is
neat.

I should also mention that this unit does not have any controls on it
so it cannot be used for hiking, etc unless you tote another computer
along.

I hooked it up to a comm analyzer and played alittle. Communications
are 4800 baud using ASCII characters so far. The serial port does not
assert handshaking signals so hardware handshaking should not be
used.

Power control appears to be the DTR line. Asserting DTR powers up the
unit and it sends three NMEA messages (PRWIRID, GPRMC, and
PRWIZCH) then keeps sending a non-NMEA formatted character string until
it receives a $IIGPQ message with the character string. I was able
to program a function key on the windows terminal to send the string
and NMEA sentences poured out of the receiver.

NMEA messages begining with P are reserved for manufactuer's
messages. RWI, I believe, is Rockwell International

The II prefix on the computer response message is the NMEA code for
Intergrated Instrumentation. I cannot get a listing for what a GPQ
message is. The "non-NMEA formatted message" may be a valid way for
a device to hand off talking to another unit under NMEA. NMEA only
allows one talker at a time.

Some of the NMEA sentences:

PRWIRID seems to contain number of channels, version number and software
build date RID could be a nmemonic for Receiver ID

PRWIZCH twelve sets of what seems to be satellite PRN and a
single digit code. Could be a channel status.

GPRMC, GPGSA, GPGGA, GPGSV   Standard NMEA fare.

I need to log the output as no doubt almanac and other messages
are sent. I also have a Garmin 45 and may set it up so I can
log the output of both units and do some comparisons.

Wayne, WA2N/5 mentioned to me:
>Here's a good place for GPS info, NMEA specs and shareware:

```
>  ftp://sundae.triumf.ca/pub/peter/index.html
> Also, check out the newsgroup sci.geo.satellite-nav
```

The newsgroup currently has discussions on SA 4.0 and Tripmate.

I have used several Delorme products for years. Street Atlas 1.0
was the reason I bought a CDROM Drive. I had a few problems with
the software, but it is a great product that keeps getting better.

73 Eric eac@shore.net WB1HBU

389. Re: [APRSSIG:6441] Mouse Problem 77d

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 16 Nov 1996 07:55:54 -0800
To: aprssig@tapr.org
Message-ID: <199611161555.HAA25790@m1.sprynet.com>
Rendered body type: text/plain

At 23:04 11/15/96 -0600, you wrote:

```
>I wonder if anyone has had any experience with the case of the missing
>mouse?
>
>I just brought an old 486 sx 25 home from the office.  It had some kind of
>unknown terrible video card in it that I have just replaced with a new
>Diamond SpeedStar 64 2000, 2 Meg Dram, ISA.  The mouse cursor has
>dissapeared from APRS but it is fine with other applications.  I have
>reloaded two other mouse drivers with the same results.  When I move the
>mouse the Lat and Lon display moves accordingly and the Left button shows
>the "zoom" bar.  But there is no mouse cursor on the screen.  Is there a
>new stealth mouse that I don't know about?
>
>Before you say it there is no cat on this machine!
>
>                        Help Appreciated........73  Mark (WB0NOO)
>
>   _____________________________
>  |                              \
>  |         Mark Endicott          \
>  |        P.O. Box 148242           \
>  |   Nashville, Tennessee 37214      >
>  |             WB0NOO               /
>  |  mark.endicott@nashville.com   /
>  |______________________________/
>
```

One of the local users here in KC experienced the same, identical problem
with the same type of machine this past week. I told him to EMail the
information to Bob....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

390. Re: [APRSSIG:6436] Re: Seattle APRS

From: philkeys@olympus.net (Phil Keys)
Date: Sat, 16 Nov 1996 08:18:15 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <v01510102aeb31df6fec1@[198.133.237.36]>
Rendered body type: text/plain

Hello David

Please let me know when the WIDE gets going. I occasionally run APRS from
the South end of Port Townsend Bay but don't see any digipeats.

Phil Keys

____
philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339-9720 (360) 379-8650 122 44.0W 48 02.0N

391. MSCAT Saturday nite-Sunday morning

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Sat, 16 Nov 1996 10:27:53 -0600
To: aprssig@tapr.org

Message-ID: <2.2.16.19961116162753.243fdbd0@rs6000.cmp.ilstu.edu>
Rendered body type: text/plain

```
I don't have details... not an astronomer.  Local Radio station said "Meteor
shower tonight for plus or minus 2 hours around 3 am CST."

I'll leave my station in MSCAT mode overnight.  EN50mp
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech  k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

392. killer mail

From: rbost@itexas.net (Roy Bost)
Date: Sat, 16 Nov 1996 07:27:35 -0600
To: "APRS SIG" <aprssig@tapr.org>
Message-ID: <19961116170359012.AAA124@rbost.itexas.net>
Rendered body type: text/plain

```
I'm having a serious problem with the SIG!  When attemp[ting to down load
my e-mail form my ISP, I'm getting a FATAL ERROR on the message after
message #6395 (should be 6396?).  This message is preventing me from
downdoading my e-mail and thus has effectively stopped me from receiving
any e-mail!  This has happened before and the only resolution was to have
my ISP to remove my e-mail account and create a new one (which we will
probably have to do again today).  Would someone on the sig look at the
message that followed #6395 and see if there was anything unusual about it?
 Untill my ISP can get my e-mail cleaned out . I will not be able to
receive any e-mail. Thanks

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

393. Re: [APRSSIG:6449] killer mail

From: "THOM PROEHL" <tmproehl@nwlink.com>
Date: Sat, 16 Nov 1996 09:50:10 -0800
To: <aprssig@tapr.org>
Message-ID: <199611161750.JAA27821@montana.nwlink.com>
Rendered body type: text/plain

```
I also had the same problem, my ISP flushed my email early this morning and
told me that it appeared something from this SIG may be the cause of my
problem.  This is the 4th time in as many weeks that my email gave me a
FATAL ERROR.

Roy - your not alone.     But considering the value of this SIG and the
number of messages, I will put up with the problem....I have  friendly ISP
Tech support folks.

Cheers to all,
Thom - kc7fzo

----------
> From: Roy Bost <rbost@itexas.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6449] killer mail
> Date: Saturday, November 16, 1996 9:07 AM
>
> I'm having a serious problem with the SIG!  When attemp[ting to down load

> my e-mail form my ISP, I'm getting a FATAL ERROR on the message after
> message #6395 (should be 6396?).  This message is preventing me from
> downdoading my e-mail and thus has effectively stopped me from receiving
> any e-mail!  This has happened before and the only resolution was to have
> my ISP to remove my e-mail account and create a new one (which we will
> probably have to do again today).  Would someone on the sig look at the
> message that followed #6395 and see if there was anything unusual about
it?
>  Untill my ISP can get my e-mail cleaned out . I will not be able to
> receive any e-mail. Thanks
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W
>
```

394. Re: [APRSSIG:6318] Practical Applications needed

From: Doug Wittich <dwittich@concentric.net>
Date: Sat, 16 Nov 1996 14:41:50 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961116194150.006cf630@pop3.concentric.net>
Rendered body type: text/plain

```
In reply to Larry M. Keeran K9ORP
>If everyone (that wants to answer the APRS NWS question) briefly told what
>their area does, ONCE, then the rest of the WX and APRS chat can take place
>by direct E-Mail.  I think it would make the rest of the APRSSIG happy.
>:-)

I can well appreciate the sentiment of not letting one rather narrow topic
take over the sig, but OTOH, we've spent a lot of time here talking and
learning about the technology, with precious little energy being spent on
practical application.  Of course, in order to properly apply technology to
provide solutions to problems, one must first understand it, but then one
must find ways to use it to help others.  The NWS client certainly qualifies
as someone we can provide much help to.  The other obvious ones are for the
walk/ride/run events.  But when people ask me the real value of APRS, I have
trouble explaining much more than these uses.  I'm hoping to keep on
learning, though.


Doug
```

---

395. Re: [APRSSIG:6384] Unwarranted/unwanted attachments!

From: rsellers@rockford.com (Roger Sellers)
Date: Sat, 16 Nov 1996 13:46:58 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611161946.NAA02168@tapr.org>
Rendered body type: text/plain

```
>
>Gentlemen (and ladies)....
>
>Please remember that it is totally inappropriate to completely quote someone
>else's posting except in the circumstance that a quotation is proper to make
>a point.
>
............. snip.........

Hi Jim,
  Point well made. And at the same time I have another comment.

   Many people are posting messages to the sig and signing off the messages
with their name only.
   My ISP shows all messages as coming from APRSSIG in the from header. If a
person sending a message only puts in their name, there is no way, thru my
ISP at least,  to send them a private response. I have no email address to
send them private mail. All reply are forced back thru the sig and wasting
bandwidth on the SIG. This means we are forced to read messages that apply
to one person only and are not appropriate to the whole SIG.

 ******  PLEASE USE YOUR RETURN EMAIL ADDRESS IN ALL MESSAGES  ********

   When posting messages, if you think its appropriate for everyone to read,
post it to the sig, if not send it privately.

73,

Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

---

396. MAPFIX27

From: jud <judlynn@norfolk.infi.net>
Date: Sat, 16 Nov 1996 14:49:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611161949.OAA03736@mh004.infi.net>
Rendered body type: text/plain

```
I am trying to add roads that i have tracked to an existing local map.  I am
using MAPFIX27, typing T for task and G for gps overlay. So far so good.  My
GPS track overlays the map nicely.  Now the problem.  How do I draw the
roads on to the map?  I tried E for edit and A for add a point, but as I
```

progress down the road it draws dashed lines off to another point from each
point I make. When finished some of these dashed lines become solid lines.
Is there some simple way to draw in the roads once the GPS overlay is on the
map? Thanks.

```
                              ))(((((
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

397. Re: [APRSSIG:6449] killer mail

From: "Les Owles" <lesowles@tgis.co.uk>
Date: Sat, 16 Nov 1996 20:05:51 -0000
To: <aprssig@tapr.org>
Message-ID: <199611162009.UAA18838@tgis.co.uk>
Rendered body type: text/plain

I too had problems with the mail item APRSSIG: 6396. This was about
the eighty fifth message in a batch being downloaded , it caused the
mail program to crash with the loss of all the bulletins. Using
Internet Explorer Mail program I couldn't log back on to my ISP.
Tried another machine and Eudora and all was OK. Re loaded Internet
Mail , cleared the IN-Box and now running normally apart from having
lost the mail items.

```
----------
> From: Roy Bost <rbost@itexas.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6449] killer mail
> Date: 16 November 1996 17:07
>
> I'm having a serious problem with the SIG!  When attemp[ting to
down load
> my e-mail form my ISP, I'm getting a FATAL ERROR on the message
after
> message #6395 (should be 6396?).  This message is preventing me
from
> downdoading my e-mail and thus has effectively stopped me from
receiving
> any e-mail!
```

398. Trimble Ant. for GPS45

From: jud <judlynn@norfolk.infi.net>
Date: Sat, 16 Nov 1996 16:40:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611162140.QAA12091@mh004.infi.net>
Rendered body type: text/plain

I had been taking the the antenna that came with the Garmin GPS45XL and
mounted it on the roof of my pickup truck, it worked quite well. This past
week I received the Trimble antenna for the GPS45 from PaCComm that has been
discussed here on the SIG. What an improvement there is on the satellite
page. The bar graph shows more satellites and much stronger signals. The
small size of the antenna is an added plus and installing the BNC connector
was no problem. I can thank the SIG for the good tip on this antenna.
Jud, KE4HFX

```
                              ))(((((
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

399. Re: [APRSSIG:6413] Re: APRS, DPGS, etc.

From: lee mcdaniel <wb4qoj@intrlink.com>
Date: Sat, 16 Nov 1996 16:58:12 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961116215812.0069f4d8@mail.intrlink.com>
Rendered body type: text/plain

```
Tom,
  You are so correct on the legal aspect of the BEACON issue. Several
years ago I had the opportunity to contact Norfolk Field Office about
the same thing, and I got the same answer but with a twist. The Engineer told
me that I didn't want to make to much noise because they were just looking
for a TEST CASE. Well I shout up. And after that 900 phone number thing that
I know that you remember, the Norfolk office sent an Engineer out this way to
monitor UNCONNECTED PACKETS. Well I think that the rule applys as you say
                            DON'T ASK

By the way good seeing you in print been a while...73 Lee WB4QOJ Roanoke Va

wb4qoj@intrlink.com

wb4qoj.va.usa.na



At 01:12 AM 11/15/96 -0600, you wrote:
>
>Stevech (Hey guys -- add your call to either your From: or signature!)
>asked Gerry (N5JXS) about the DGPS beacons. Since (as far as I know) I'm
>the only amateur DGPS generator, let me answer. Here in the Baltimore/
>Washington area, the W3IWI-13 DGPS sends out differential corrections
>once per 20 seconds.
>
>The DGPS signals are generated by a professional (Trimble 4000SSE) dual-
>frequency GPS receiver operating on one of the many antenna ports associated
>with the GODE IGS GPS facility. The DGPS bits come out of the professional
>"toys" and poke into a strictly amateur setup on the local 145.79 APRS net.
>The signals are relayed thry WIDE,WIDE and cover the entire Chesapeake Bay
>area, plus parts of SNJ, EPA, NoVA and WVA. Your TNC provides the DGPS
>data in a format similar to that coming out of a Coast Guard (~300 kHz)
>or commercial FM broadcast subcarrier (like DCI or ACQUPOINT) source.
>The local users report it provides corrections at the few meter level
>and that velocities reported by their GPS receivers are MUCH more accurate.
>
>I presume Gerry's idea is to tap the "sponsored" DGPS signals at the RS232
>level and do the same thing at Cow College!
>
>Regarding the questions on legality: All of our packet radio "beacons"
>are subject to the same question! The FCC has been mute on the topic for
>several years. If they were to be asked formally, they would either say
>"you amateurs are supposed to be self enforcing. We have no opinion", or
>they would say "Now that you bring it up, a lot of your activities are
>not covered by the rules and hence are not legal". The moral of the
>story is "DON'T ASK!!!"
>
>73 de Tom, W3IWI
>
>
```

---

400. Re: [APRSSIG:6454] Re: killer mail

From: Robert Winingham <kc5ejk@onramp.net>
Date: Sat, 16 Nov 1996 16:03:32 -0600
To: aprssig@tapr.org
Message-ID: <v03007802aeb3e42bbffe@[199.1.11.143]>
Rendered body type: text/plain

```
>I too had problems with the mail item APRSSIG: 6396.


I have seen seven of these since 9/28/96
#5220
#5566
#5576
#5797
#6422


[APRSSIG:6396] Delivery-Report (failure) for
Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

[APRSSIG:6437] Delivery-Report (failure) for
Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

If John langtry is on the sig he might want to reply
before the server master deletes him from the list.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

401. Re: [APRSSIG:6443] message archives

From: Robert Winingham <kc5ejk@onramp.net>
Date: Sat, 16 Nov 1996 16:03:52 -0600
To: aprssig@tapr.org
Cc: frodgers@netcom.com
Message-ID: <v03007803aeb3e823aec7@[199.1.11.143]>
Rendered body type: text/plain

```
>Are the messages that cross the APRS sig stored anywhere online? I'd like to
>be able to search them by topic.

If you have WWW access ( and who doesn't these days).

Go to the www.tapr.org site and look at the APRSsig mail archives.
You are going to get a month's worth of mail , but then that
is what a text editor FIND command is for. I think I just ended
a sentence with a preposition.  :-)

You can use e-mail only to download the archives, just ask
the listserver for help with the formatting.

You should be able to get the APRS files via e-mail only,
if you can get the correct path names to the file.

73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

402. Re: [APRSSIG:6453] MAPFIX27

From: Chris Dapples <ccdapple@wtp.net>
Date: Sat, 16 Nov 1996 16:22:36 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <9611162322.AA29066@wtpprod1.wtp.net>
Rendered body type: text/plain

```
I am experiencing the exact same problems!  So would appreciate
hearing the response too.

Chris Dapples, KF7KN
ccdapple@wtp.net


>     From: judlynn@norfolk.infi.net
>     Date: 11/16/96  1:54:46PM
>     To: aprssig
>     Subject: [APRSSIG:6453] MAPFIX27
>
>     I am trying to add roads that i have tracked to an existing
>     local map.  I am
>     using MAPFIX27, typing T for task and G for gps overlay. So
>     far so good.  My
>     GPS track overlays the map nicely.  Now the problem.  How do I
>     draw the
>     roads on to the map?  I tried E for edit and A for add a
>     point, but as I
>     progress down the road it draws dashed lines off to another
>     point from each
>     point I make.  When finished some of these dashed lines become
>     solid lines.
>     Is there some simple way to draw in the roads once the GPS
>     overlay is on the
>     map?  Thanks.
>                                  ))((((( 
>                                  )_   _(
>                                  [o   o]
>
=========================OOO===(_)===OOO======================
>     ===
>                              Jud French, KE4HFX
>                           judlynn@norfolk.infi.net
>
=================================================================
>     ===
>     5423 Barnhollow Rd.
>     Norfolk, VA 23502-3604
>
>
>
```

403. Re: [APRSSIG:6457] Re: killer mail

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Sat, 16 Nov 1996 23:26:46 +0000
To: aprssig@tapr.org
Message-ID: <328E4DB6.2CFD@netins.net>
Rendered body type: text/plain

```
I wonder if it is the Internet Explorer program???

I'm using Netscape ver. 2.0 and have not had any problems....yet!

I have had as many as 118 msgs waiting for me after being gone
for some time.

73,
Bill - w0omv
```

404. Re: [APRSSIG:6460] Re: killer mail

From: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Date: Sat, 16 Nov 1996 19:22:11 -0500
To: <aprssig@tapr.org>
Message-ID: <199611170022.TAA09090@nebula.ispace.com>
Rendered body type: text/plain

```
I have the same feeling, I have internet explorer mail on 1 machine and std
slip on a laptop with EUDORA. never had problems with EUDORA Everytimes the
system locked up was with Explorer Mail
Jacques Voisin

----------
> From: John W.(Bill) Hays - w0omv <billh@netins.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6460] Re: killer mail
> Date: Saturday, November 16, 1996 18:30
>
> I wonder if it is the Internet Explorer program???
>
```

405. Re: [APRSSIG:6457] Re: killer mail

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sat, 16 Nov 1996 20:21:24 -0600
To: aprssig@tapr.org
Message-ID: <328E76A4.1DA0@web-access.net>
Rendered body type: text/plain

```
Robert Winingham wrote:
>
> >I too had problems with the mail item APRSSIG: 6396.
>
> I have seen seven of these since 9/28/96
> #5220
> #5566
> #5576
> #5797
> #6422
>
snip...

I have not had one of these messages stop my copy of Netscape.  What
kind of browser or email package is everyone using that causes this?
Just curious...  There has to be a reason!!  :-)

> 73
>
> Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

```
73 - Dale.  KG5LT
dseaburg@web-access.net
```

406. Re: [APRSSIG:6452] Re: Unwarranted/unwanted attachment

From: schiers@ames.net
Date: Sat, 16 Nov 96 14:09:01 -0500
To: aprssig@tapr.org
Message-ID: <199611170314.VAA25217@tapr.org>
Rendered body type: text/plain

```
In <890598@bbs.ames.net>, on 11/16/96 at 01:42 PM,
   aprssig@tapr.org said:

>******  PLEASE USE YOUR RETURN EMAIL ADDRESS IN ALL MESSAGES  ********

Amen! My ISP is doing the same thing. He is changing programs in a month
or two, but in the mean time and for the last
several months, I have EXACTLY this problem. Please, everyone add your
email address to your signature, as I find it hard to believe that the n9
and I are the only ones having this
problem. 73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

407. Re: [APRSSIG:6462] Re: killer mail

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Sun, 17 Nov 1996 03:34:31 GMT
To: aprssig@tapr.org
Message-ID: <329a876a.2501256644@mail.mergetel.com>
Rendered body type: text/plain

```
On Sat, 16 Nov 1996 20:25:54 -0600 (CST), you wrote:

>> I have seen seven of these since 9/28/96
>> #5220
>> #5566
>> #5576
>> #5797
>> #6422
>>
>snip...
>
>I have not had one of these messages stop my copy of Netscape.  What
>kind of browser or email package is everyone using that causes this?
>Just curious...  There has to be a reason!!  :-)
>
Windows 95 and Agent 99f received these files with no Problem
also my WFWG 311 and Agent 99f received these files OK

73 de Ron                           Best Regards
Email: rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

408. Re: [APRSSIG:6448] MSCAT Saturday nite-Sunday morning

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sat, 16 Nov 1996 21:37:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611170337.VAA27527@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Larry Keeran sez:
>
> I don't have details... not an astronomer.  Local Radio station said "Meteor
> shower tonight for plus or minus 2 hours around 3 am CST."
>
> I'll leave my station in MSCAT mode overnight.  EN50mp

Leonids, may well be the best for the next century or so, according to Sky &
Telescope.  They peak this weekend, but I've been seeing 30-50/hour rates here
for a week.

73, gerry
```

409. Kansas City Supper

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 16 Nov 96 22:54:13 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.848202853.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

I will be in Kansas City Monday evening for diner with any APRS people interested.

Jim Duncan has graciously offered to 'coordinate' this.

Jim will announce where, but the current plans is for an 8:00pm dinner on Monday Evening. I expect to be at the restaurant by 7:00pm.

Jim will be announcing where we will be meeting..

ALso, due to the fact that I am out of town, my e-mail response will be spotty for a few days.

Keith Sproul

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

410. Re: [APRSSIG:6463] Re: Unwarranted/unwanted attachment

From: "KB8UAS John Feist" <bugg@newreach.net>
Date: Sat, 16 Nov 1996 23:34:55 -0500
To: <aprssig@tapr.org>
Message-ID: <199611170434.XAA14886@ns.newreach.net>
Rendered body type: text/plain

I too had this problem...Internet Explorer E-mail
KB8UAS
bugg@newreach.net

```
----------
> From: schiers@ames.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:6463] Re: Unwarranted/unwanted attachment
> Date: Saturday, November 16, 1996 10:18 PM
>
> In <890598@bbs.ames.net>, on 11/16/96 at 01:42 PM,
>    aprssig@tapr.org said:
>
> >******  PLEASE USE YOUR RETURN EMAIL ADDRESS IN ALL MESSAGES  ********
>
> Amen! My ISP is doing the same thing. He is changing programs in a month
> or two, but in the mean time and for the last
> several months, I have EXACTLY this problem. Please, everyone add your
> email address to your signature, as I find it hard to believe that the n9
> and I are the only ones having this
> problem. 73,
>
> hasan schiers, N0AN
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------
>
```

---

411. Re: [APRSSIG:6453] MAPFIX27

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 16 Nov 1996 23:48:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961116234620.18396A-100000@arctic>
Rendered body type: text/plain

On Sat, 16 Nov 1996, jud wrote:

> I am trying to add roads that i have tracked to an existing local map. I am
> using MAPFIX27, typing T for task and G for gps overlay. So far so good. My
> GPS track overlays the map nicely. Now the problem. How do I draw the
> roads on to the map? I tried E for edit and A for add a point, but as I

APRSdos REPLY/COMMENT: Use E for EDIT and N for NEW. THis will let you begin a new feature.. From then on, use EDIT -ADD to ADD points. Without doing the EDIT-NEW, you were adding points to whatever feature you

happened to have hooked at the time.. Rather than using EDIT-ADD, use
EDIT-LOCK once, then on, just hit A for add...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

412. Re: [APRSSIG:6466] Kansas City Supper

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 16 Nov 1996 20:46:54 -0800
To: aprssig@tapr.org
Message-ID: <199611170446.UAA10122@m1.sprynet.com>
Rendered body type: text/plain

```
At 21:59 11/16/96 -0600, you wrote:
>
>I will be in Kansas City Monday evening for diner with any APRS people
>interested.
>
>Jim Duncan has graciously offered to 'coordinate' this.
>
>Jim will announce where, but the current plans is for an 8:00pm dinner on
>Monday Evening.  I expect to be at the restaurant by 7:00pm.
>
>Jim will be announcing where we will be meeting..
>
>
The Kansas City APRS Working Group will host a dinner/get-acquainted session
with KEITH SPROUL, WU2Z, (co-author extraordinaire of WinAPRS and MacAPRS)
on Monday evening, November 18th.

Time and place will be announced to the SIG on Sunday evening immediately
after the KCAWG weekly net (146.79 voice -600, 2000 CST) when we all decide
where to meet!

We are pleased to have Keith joining us for an evening in Kansas City as he
travels through the Midwest on vacation!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

413. Re: [APRSSIG:6462] Re: killer mail

From: "THOM PROEHL" <tmproehl@nwlink.com>
Date: Sat, 16 Nov 1996 21:23:15 -0800
To: <aprssig@tapr.org>
Message-ID: <199611170523.VAA17612@montana.nwlink.com>
Rendered body type: text/plain

```
In response to Dale's Question:  I use IE 3.1 Mail (4.70.1155),  Procomm's
mail reader, Netscape, and Pine, depending on where I am at. All with the
same results. Until my ISP flushes my mail out of the spool, all I get is
the Fatal Error.
Not sure this will help, but thought anyone having the same problem would
like to know.

Thom / kc7fzo

----------
> From: Dale Seaburg <dseaburg@web-access.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6462] Re: killer mail
> Date: Saturday, November 16, 1996 6:25 PM
>
> Robert Winingham wrote:
> >
> > >I too had problems with the mail item APRSSIG: 6396.
> >
> > I have seen seven of these since 9/28/96
> > #5220
> > #5566
> > #5576
> > #5797
> > #6422
> >
> snip...
>
```

```
> I have not had one of these messages stop my copy of Netscape.  What
> kind of browser or email package is everyone using that causes this?
> Just curious...  There has to be a reason!!  :-)
>
> > 73
> >
> > Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
>
>
> 73 - Dale.  KG5LT
> dseaburg@web-access.net
>
```

414. Re: [APRSSIG:6454] Re: killer mail

From: Dennis James <denniswj@aljan.com.au>
Date: Sun, 17 Nov 1996 17:25:36 +1100
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961117062536.0067c5c8@aljan.com.au>
Rendered body type: text/plain

```
I had same problem with the Internet explorer its internet mail and lost a
lot of mail, so now I use Eudora and since I'Ve
had no problems.
Dennis
Scone
The Horse Capital of Australia
denniswj@aljan.com.au
VK2DOR
Satellites UO-22 KO-23 KO-25
At 14:10 16/11/96 -0600, you wrote:
>I too had problems with the mail item APRSSIG: 6396.  This was about
>the eighty fifth message in a batch being downloaded , it caused the
>mail program to crash with the loss of all the bulletins. Using
>Internet Explorer Mail program I couldn't log back on to my ISP.
>Tried another machine and Eudora and all was OK.  Re loaded Internet
>Mail , cleared the IN-Box and now running normally apart from having
>lost the mail items.
>
>----------
>> From: Roy Bost <rbost@itexas.net>
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:6449] killer mail
>> Date: 16 November 1996 17:07
>>
>> I'm having a serious problem with the SIG!  When attemp[ting to
>down load
>> my e-mail form my ISP, I'm getting a FATAL ERROR on the message
>after
>> message #6395 (should be 6396?).  This message is preventing me
>from
>> downdoading my e-mail and thus has effectively stopped me from
>receiving
>> any e-mail!
>
>
Dennis
Scone
The Horse Capital of Australia
denniswj@aljan.com.au
VK2DOR
Satellites UO-22 KO-23 KO-25
```

415. GIS-LIS '96

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Sun, 17 Nov 1996 09:25:04 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611171525.JAA00600@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Anyone else going to be there?  I'm presenting either Tuesday or Wednesday
morning in the GPS applications arena.  I'd be interested in meeting anyone
who's also involved in the professional aspects.

73, gerry
--
Gerry Creager  N5JXS
Research Assistant, Mapping Sciences Laboratory, Texas A&M University
n5jxs@.tamu.edu                   gerry@rsgis3.tamu.edu
409.845.9425
```

"Not an Official Document of Texas A&M or the Mapping Sciences laboratory"

---

416. Re: [APRSSIG:6401] Re: DOS APRS in WIN95 in Background!

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 17 Nov 1996 10:33:57 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611171029.A22263-0100000@bcfreenet>
Rendered body type: text/plain

I have tried minimizing the DOS APRS program but it has problems recognizing the com: port data, seems to add little giblits to the call signs, etc. It also seems to hog the computer. The F10 key does work and work well.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

---

417. Re: [APRSSIG:6425] Re: WinAPRS 1.1.7

From: schiers@ames.net
Date: Sun, 17 Nov 96 09:30:11 -0500
To: BordingK@aol.com
Cc: aprssig@tapr.org
Message-ID: <199611171556.JAA03462@tapr.org>
Rendered body type: text/plain

In <890652@bbs.ames.net>, on 11/16/96 at 03:01 PM,
   BordingK@aol.com said:

>In a message dated 96-11-15 14:55:46 EST, you write:

><< schiers@ames.net >>

>So, I'm to understand that you're using a U-2000 with WinAPRS and it's
>seeing and sending wx packets? I've tried everything and have not gotten
>WinAPRS to display weather info and/or transmit it.

In short, yes. Let's make sure we are comparing apples and apples. I have run and continue to run WinAPRS since version 1.00 with a U-II and then a U-2000. The initial configuration was:

Win95, AMD DX2/80, 12 mb RAM, 800x600 cirrus pci video, 65K colors, U-II

next

Win95 + Service Pak1, Same CPU, 20mb RAM, ditto video, U-2000

current:

Win95 + Svc Pak1, Pentium 133, 32mb RAM, Diamond pci vid, U-2000

I receive and tx wx perfectly. In early versions, WinAPRS would not auto transmit wx, but it was reading the data properly and had to be manually sent, i.e., Settings > Transmit Weather. That has been fixed for the last several versions.

I am running an AEA DSP 2232 dual port tnc in gateway service between 30m and 2m.

Until this version, 117, there has been a consistent bug in wx decoding of STAND ALONE systems. They appear to have fixed part of the problem, but I still don't think it is parsing all of the data properly from stand alone wx stations (not running aprs).

In addition, WinAPRS still does not remember the VHF wx transmit interval if you change it. It defaults to 30min, and I have to change it to 15 every time I restart the program. This is a known bug, but low on the priority list for fixing. (It's been there since version 1.00)

************ IMPORTANT ***********

Make sure you are running your U-2000 in the FULL DATA output mode. Do not select packet mode or any other mode. Neither DOS or Win APRS will work if you don't have the data mode set properly in the U-2000.

****

As of a version or so ago, DOS APRS would still not work properly with my system. For many, many versions dosAPRS has been hardware dependent when using a U-2000. It has serial port problems with some hardware configurations that seem to relate to having high speed FIFO'd UARTs. The symptom is "buffer over-flow" error messages.

>Set as 2400 baud, the data is visible in the WINAPRS Terminal, WX window,
>but does not show in the Weather Display within APRS or transmit.

I see the wx in terminal mode if I look at that port, and as mentioned above, I display, transmit and receive all wx info, with the caveat about properly decoding stand-alone wx systems.

>Even Keith Sproul said they knew they had a problem and the hoped to get
>it fixed soon. As I said, the Peet Tech guy said they had had no luck in
>getting it to work either. Strange that Keith thinks they have a
>problem.

Maybe they do have a problem, similar to Bob's problem with dosAPRS, i.e., it works with some systems, but not with others. I can only say it works with mine, and always has (since they first claimed support for the U-2000). This means it has worked with two different motherboards, two different video cards, three different memory configurations, and both with and without the Win95 service pak.

>Well, hope 1.1.7 makes a difference!

>Ken

OK...now after all of that...did 117 make the difference for you?

hasan schiers, N0AN
----
schiers@ames.net
----

418. METEOR SCATTER last night!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Nov 1996 11:03:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961117105433.22634A-100000@arctic>
Rendered body type: text/plain

Before your HEARD log gets too old, look at your MAP and heard log closely. The Leonids were supposed to peak last night at 2 AM. I saw 4 possible MS contacts on my map this morning. (Just plane old APRS, not MS mode).

You will not be able to prove they were MS, because all of them of course had digi paths on them, and of course, I heard them via the last WIDE (cant be avoided since I am surrounded by WIDE's! But here's why these are suspect:

N8AJD-10 digi in Ohio. path 450 miles. path was W,W over mountains so no tropo..

WA4SSP   WX stn in NC. path abt 450. path was w,w, over mtns, etc

RACES   RACES stn in NC... same as above

ARGH! Even though the asterix was by the last WIDE, I FORGOT to luck at the left column on the heard log to see if I had also heard them direct!

The only otehr time I have ever seen any VHF stations in Ohio was during the Persieds 2 years ago.

Conclusion: There were bound to be some MS DX packets, even though they may also have hit a digi or 2 along the way. Look on your map for contacts more than 300 and less than 1200 miles that are new, and then check it out..!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

419. Re: [APRSSIG:6455] Trimble Ant. for GPS45

From: Paul Moller <paulmoll@enteract.com>
Date: Sun, 17 Nov 1996 09:59:46 -0600
To: aprssig@tapr.org
Message-ID: <3.0b28.32.19961117095932.006f2b20@enteract.com>

Rendered body type: text/plain

A while ago there was talk that the Trimble antenna can cause permanent
damage to the gps45. Has there ever been a documentated case of this?

I am currently using a home made attenuator to reduce the signal into the
gps45, and would like to remove it. Any advice would be appreciated.

At 03:45 PM 11/16/96 -0600, you wrote:
 The bar graph shows more satellites and much stronger signals.
WD9ABE
Paul Moller

---

420. Return address?

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sun, 17 Nov 1996 10:26:48 -0600
To: aprssig@tapr.org
Message-ID: <19961117162642842.AAC201@dial-22.marianna.fl.digitalexp.com>
Rendered body type: text/plain

In a message dated Sat, 16 Nov 1996 13:53:37, Roger wrote;

>   Many people are posting messages to the sig and signing off the messages
>with their name only.
>   My ISP shows all messages as coming from APRSSIG in the from header. If a
>person sending a message only puts in their name, there is no way, thru my
>ISP at least, to send them a private response. I have no email address to
>send them private mail. All reply are forced back thru the sig and wasting
>bandwidth on the SIG. This means we are forced to read messages that apply
>to one person only and are not appropriate to the whole SIG.
>
> ****** PLEASE USE YOUR RETURN EMAIL ADDRESS IN ALL MESSAGES ********

Since other people echoed Roger's complaint...

Some e-mail software allows you to show either an abbreviated version
of the message header, or the whole thing. If you show the entire
message header, you will see the address of the originator.

For example, with Juno, you pull down the "OPTIONS" menu and click on
"show headers".

regards,
Joe kf4dys

---

421. Re: [APRSSIG:6465] Re: MSCAT Saturday nite-Sunday morning

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Sun, 17 Nov 1996 10:40:05 -0600
To: aprssig@tapr.org
Message-ID: <2.2.16.19961117164005.268fb768@rs6000.cmp.ilstu.edu>
Rendered body type: text/plain

At 09:45 PM 11/16/96 -0600, you wrote:

>Leonids, may well be the best for the next century or so, according to Sky &
>Telescope. They peak this weekend, but I've been seeing 30-50/hour rates here
>for a week.

Thank you Gerry, No MSCAT reports received here overnight Saturday.
/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech k9orp@amsat.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/

---

422. Re: [APRSSIG:6461] Re: killer mail

From: "Dale Heatherington" <wa4dsy@wa4dsy.radio.org>
Date: Sun, 17 Nov 96 12:00:03
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <m0vPAZk-0001ErC@wa4mei.radio.org>
Rendered body type: text/plain

On Sat, 16 Nov 1996 18:28:36 -0600 (CST), Jacques C. VOISIN wrote:

>I have the same feeling, I have internet explorer mail on 1 machine and std
>slip on a laptop with EUDORA. never had problems with EUDORA Everytimes the
>system locked up was with Explorer Mail
>Jacques Voisin

Another data point.... I've never had any problems at all with this SIG
using OS/2 Warp and PMMail.

Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp v4

---

423. KPC-3 & Other Kantronics Version #s

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Sun, 17 Nov 1996 10:17:49 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961117171749.0067cb08@mailhost.primenet.com>
Rendered body type: text/plain

For the SIG member who was looking for the latest version number for the K
PC-3 Eprom and software, this and all other "latest" version numbers, can be
found at help://www.kantronics.com

Hope that this helps.

73, Alan

Alan K. Unangst, WC7R
Phone: (520) 445-1465
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

424. RE: [APRSSIG:6477] Return address?

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Sun, 17 Nov 96 17:27:18 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199611171726550514@msn.com>
Rendered body type: text/plain

I have no problem finding private return address. It is embedded in header.
With Microsoft Exchange , highlight name of sender after the APPRSIG with
mouse. A right click opens a small window and clicking "properties" show full
e-mail address. While it is highlighted u can click 'edit' 'copy' and have the
address ready to 'paste' into any private reply. Highlight only the name and
no spaces before and after.
  This was discovered by stumbling around. Microsoft's help files were
useless.
Jack, KB4XF
cjcavanagh@msn.com

---

425. APRS in 73

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Nov 1996 12:43:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961117123701.23896A-100000@arctic>
Rendered body type: text/plain

APRS is the feature article in 73 magazine December issue. I submitted it
in Feb 1996, so dont take it as the "latest word" in APRS, hi hi

And the full screen color graphics sure look weak in black and white. But
you can refer your buddies to this article if they want something to read
about APRS...

P.S. if your call typically shows up in some of my favorite BACKUP files,
then you will probably see your call on the maps! Get a copy for your
scrapbook!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

426. Re: [APRSSIG:6473] Re: DOS APRS in WIN95 in Background!

From: Mike Heskett <mheskett@startext.net>
Date: Sun, 17 Nov 1996 11:37:55 -0600
To: aprssig@tapr.org
Message-ID: <328F4D73.5464@mail.startext.net>

Rendered body type: text/plain

```
John W Wilson wrote:
>
> I have tried minimizing the DOS APRS program but it has problems...
>
> John W. Wilson, KN4HX
> z004391b@bcfreenet.seflin.lib.fl.us

In WIN31, if you invoke APRS from a PIF file (copied from the PIF that
invokes the DOS prompt), APRS behaves properly when in DOZ mode and then
minimized with Alt-ESC.

I am not sure  how you mimic the PIF file in WIN95, but that may give
you something to research.

===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
Mike Heskett    email   mheskett@startext.net
WB5QLD          packet  WB5QLD@WO5H.#DFW.TX.USA.NOAM
Hurst, TX
O-
```

427. Re: [APRSSIG:6477] Return address?

From: rsellers@rockford.com (Roger Sellers)
Date: Sun, 17 Nov 1996 12:20:30 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611171820.MAA11292@tapr.org>
Rendered body type: text/plain

```
>> ******  PLEASE USE YOUR RETURN EMAIL ADDRESS IN ALL MESSAGES  ********
>
>Since other people echoed Roger's complaint...
>
>Some e-mail software allows you to show either an abbreviated version
>of the message header, or the whole thing. If you show the entire
>message header, you will see the address of the originator.
>
>For example, with Juno, you pull down the "OPTIONS" menu and click on
>"show headers".
>
>regards,
>Joe kf4dys
>
>
Hi Joe, I use Eudora 1.4.3 and this does not allow such configuration. I
plan to purchase the newest Eudora Pro soon. Maybe this will be the fix, but
I suspect its from my IP. But thie simplest solution would be for all to
just include your email address along with name and ham call. Concider it a
courtesy.

73,
Roger Sellers
Amateur Radio: KB9LBU
E-Mail Home: rsellers@rockford.com
             kb9lbu@juno.com
E-Mail Work: rsellers@snds.com
```

428. Killer Mail

From: rbost@itexas.net (Roy Bost)
Date: Sun, 17 Nov 1996 12:48:12 -0600
To: "APRS SIG" <aprssig@tapr.org>
Message-ID: <19961117184748767.AAA160@rbost.itexas.net>
Rendered body type: text/plain

```
Thanks for all responses!  I had stumbled on to the workaround of loading
up and running a different E-Mail program (E-mail Connection) before my ISP
had a chance to wipe my mail account!  I was supprised by the number of
responces and glad to fine out it wasn't something I had done! Ha!

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

429. Re: [APRSSIG:6474] Re: WinAPRS 1.1.7

From: wb8vji@tir.com (wb8vji)
Date: Sun, 17 Nov 1996 14:20:20 +0500
To: aprssig@tapr.org

Message-ID: <199611171920.OAA06741@tir.com>
Rendered body type: text/plain

```
>In <890652@bbs.ames.net>, on 11/16/96 at 03:01 PM,
>   BordingK@aol.com said:
>
>>In a message dated 96-11-15 14:55:46 EST, you write:
>
>><< schiers@ames.net >>
>
>>So, I'm to understand that you're using a U-2000 with WinAPRS and it's
>>seeing and sending wx packets?  I've tried everything and have not gotten
>>WinAPRS to display weather info and/or transmit it.
>
I have tried every thing to get it to work also.  Had no success until I started running window95.  Are
you using window 95 or windows 3.xx????
Tom Carpenter (WB8VJI)
wb8vji@tir.com
```

---

430. Re: Seattle APRS

From: ddobbins@juno.com (David S Dobbins)
Date: Sat, 16 Nov 1996 22:47:49 PST
To: aprssig@tapr.org
Message-ID: <19961117.113917.4487.1.ddobbins@juno.com>
Rendered body type: text/plain

```
OK Phil. Stay tuned. Do you hear any APRS activity. You might try pinging
the system using RELAY, or WIDE, or W7FEN. O P pings the system. U and
WIDE or etc changes the outgoing path.

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com
```

---

431. Re: DOS APRS in Win 95 backround.

From: Anthony Hickey <fhickey@neosoft.com>
Date: Sun, 17 Nov 1996 13:51:16 -0600
To: aprssig@tapr.org
Message-ID: <328F6CB4.303C@neosoft.com>
Rendered body type: text/plain

```
I run DOS APRS in windows backround almost 24/7 using the windoz
feature.  everything seems to work well and most the data goes through
(I lose some when running CPU hogging programs in the foreground), but
there is at least one program that I know of that turns on the "always
suspend" feature under the misc. properties.  I end up with a H-list
with several Hours missing even when this program is idle! and all the
stations are completely grayed out, and I obviously get very
frustrated.  I have also disovered that minmizing APRS causes it to
cease to collect data, other programs do that also such as Eudora when I
have new mail. (I use Netscape mail now)
I have a utility that displays percent CPU time used.  APRS dozing in
foreground is about 80%, backround 35-50% , and minimized is pretty
close to nothing. The program almost always shows some CPU idle time as
well.

OK, so what I want to know is if there is a way to permanently turn off
the "always suspend"  checkbox and not let other programs interfere when
it is running full-screen?

                                        Thanks, Anthony AB5QR
                                                fhickey@neosoft.com
```

---

432. MFJ 8621

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Sun, 17 Nov 1996 16:05:06 -0500
To: <Aprssig@tapr.org>
Message-ID: <199611172103.QAA14043@babar.INS.CWRU.Edu>
Rendered body type: text/plain

```
I have an MFJ 8621 for sale.
Factory set to 145.79
 like new,  in the box
 $95

Joe Carter
jbc5@po.cwru.edu
```

W9JC
W9JC@WA8BXN.NEOH

"Two sorts of truth: trivialities, where opposites
are obviously absurd, and profound truth, recognized
by the fact that the opposite is also a profound truth."
Niels Bohr

433. Re: [APRSSIG:6476] Re: Trimble Ant. for GPS45

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Sun, 17 Nov 1996 16:37:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611172137.QAA23007@itchy.mosquito.com>
Rendered body type: text/plain

At 10:07 11/17/96 -0600, WD9ABE wrote:

>A while ago there was talk that the Trimble antenna can cause permanent
>damage to the gps45. Has there ever been a documentated case of this?

W2HOB REPLY: I've been using a Trimble active antenna on 1 GPS-45 for coming up on a year now and on 2 GPS-20s for a couple of months. None of them shows any problems... all boot up just fine... no glitches... my opinion was this was unsubstantiated hype for whatever reason.

Have fun es 73 de Boyd
w2hob@mosquito.com

434. Re: [APRSSIG:6479] Re: killer mail

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sun, 17 Nov 1996 16:46:21 -0400
To: wa4dsy@wa4dsy.radio.org
Cc: Aprssig@tapr.org
Message-ID: <848267181-0-eac@shore.net>
Rendered body type: text/plain

Hello,

>Another data point.... I've never had any problems at all with this SIG
>using OS/2 Warp and PMMail.

Amazing! Another OS/2 Warp user!

I've never had any problems at all with the OS/2 version of Lotus Notes
Mail,
but I only subscribed Saturday 8->.

BTW is there an OS/2, Java, or Opendoc version of APRS available?

73 Eric WB1HBU eac@shore.net AMSAT-NA & AMSAT-UK <numbers available on
request>
Warp Merlin Enabled and Proud!

435. Re: [APRSSIG:6483] Re: DOS APRS in WIN95 in Background!

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sun, 17 Nov 1996 16:52:22 -0400
To: Aprssig@tapr.org
Message-ID: <848267542-0-eac@shore.net>
Rendered body type: text/plain

>I am not sure how you mimic the PIF file in WIN95, but that may give
>you something to research.

PIF files are still there. Microsoft hid them under "Properties" (right button mouse click on the object).

There is more dos and windows 3.1 stuff in 95 then you think.

73 Eric eac@shore.net WB1HBU APRS-wanna-be

436. Re: [APRSSIG:6483] Re: DOS APRS in WIN95 in Background!

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 17 Nov 1996 17:43:05 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611171714.B9644-0100000@bcfreenet>
Rendered body type: text/plain

```
I guess that this is what I tried to say in my first message, that the
DOS APRS program works fine running minimized if you first hit the F10 key.

I have since gone to WIN APRS on my WIN95 computer because I also run
WISP for my satellite programs.  I don't want to continually run APRS in
the background where I can't see it running, so the only solution was to
change to a program that is compatible with the time slice environment
that Windows provides.

I prefer the ease of operation that DOS APRS offers.  I just wish that
the DOS version could live in a DOS window in WIN95 while running other
programs, such as my WISP, in other windows.


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Sun, 17 Nov 1996, Mike Heskett wrote:

> John W Wilson wrote:
> >
> > I have tried minimizing the DOS APRS program but it has problems...
> >
> > John W. Wilson, KN4HX
> > z004391b@bcfreenet.seflin.lib.fl.us
>
> In WIN31, if you invoke APRS from a PIF file (copied from the PIF that
> invokes the DOS prompt), APRS behaves properly when in DOZ mode and then
> minimized with Alt-ESC.
>
> I am not sure  how you mimic the PIF file in WIN95, but that may give
> you something to research.
>
> ===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
> Mike Heskett  email   mheskett@startext.net
> WB5QLD                packet  WB5QLD@WO5H.#DFW.TX.USA.NOAM
> Hurst, TX
> O-
>
```

---

437. APRS in BACKGROUND

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Nov 1996 18:27:11 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961117182424.29784G-100000@arctic>
Rendered body type: text/plain

```
APRS is wasting a lot of CPU time just waiting for the keyboard or serial
port.  Someone who is smart in QBasic once sent me a note that if you call
INTERRUPT XX when your program finishes its tasks, that that will allow
WINDOZ or other multi-taskers to steal the CPU immediately...  This would
be easy for me to add, if that person would again remind me how to do
it....

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

438. 76to77e.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Nov 1996 18:36:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961117183245.242A-100000@arctic>
Rendered body type: text/plain

```
Im just uploading the upgrade file tonight for a quick look before
comitting tot he full version.  This versions attempts to correct a few
small bugs.  If you have reported one of these bugs, plese leemme know if
I fixed tthem:

Ver 77e:
* 77d would not let you use your 12th OPS-DIGI call.  FIXED
* If you have MAPS-FEATURES-CALLS off, then WX info still shows...
* MAPFIX28 shows the name of the map you are working on on top of screen
* If ur 1st msg is to REPLY it will be sent in reply to all incoming msgs
* New MAPS-WHICH command will list all XXmapsXX.ZIP distro files that
  you have loaded into ur MAPS directory (if the distro map-maker included
  a file by the name of XXmapsYY.TXT in his MAPS directory).
* Now, just hitting the MAPS command will display the current map NAME
```

  in the upper right corner. Just hit return to finish the menu.
* Added INTFACE TERMINAL to INITTAPR.TNC to properly init KANTRONICS
* Tried to fix GPS mobiles sometimes going to a BUOY symbol
* Now show AVG-GND-LVL on TAB control bar for debugging Davis-BARO
* POSIT changes now properly overwrite the POSIT comment field.
* New maps for Grand Rapids MI, Reading PA, Neast colorado

I will be uploading the 76to77e.zip file beginnning now...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

439. 76to77ee.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 17 Nov 1996 18:46:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961117184539.498A-100000@arctic>
Rendered body type: text/plain

I blew it the first time, but cannot delete it, so I changed the name and
uploaded it correctly as 76to77ee.zip...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

440. New & revised digi

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sun, 17 Nov 1996 17:55:36 -0600
To: aprssig@tapr.org, bruninga@nadn.navy.mil
Message-ID: <9611171755.AA36052@oscar.telalink.net>
Rendered body type: text/plain

New digi in the Middle Tennessee area:

WB0NOO-1>APRS,WIDE,WIDE:!3556.97N/08600.41W#PHG7760/WIDE-RELAY..Short Mountain
TN

Digi callsign change - Club call change from KF4AJO to NT4L.

NT4L-1>BEACON,WIDE,WIDE,TN:!3554.58N/08653.90W#PHG5330/WIDE-RELAY.Fistfighters
United Nashville

```
--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
*  group of people with access to the most sophisticated      *
*  technology in the world, who everyone calls on to get the  *
*  really tough jobs done quickly and efficiently."           *
*  -- Nick Lehmann                                            *
****************************************************************
```

---

441. Re: killer mail

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Sun, 17 Nov 1996 22:24:52 +0000
To: aprssig@tapr.org
Message-ID: <328F90B4.467D@netins.net>
Rendered body type: text/plain

I'm using Netscape ver 2.0 with a Macintosh and no problems.
Are there any other Mac users having problems?
73,
Bill - w0omv billh@netins.net

---

442. Re: [APRSSIG:6477] APRSSIG digest 771

From: "Jim Neely" <jneely@eden.com>
Date: Sun, 17 Nov 96 17:43:16 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199611180004.SAA20400@matrix.eden.com>
Rendered body type: text/plain

I have been runnning the Trimbl eantenna since Dayton on the GPS-45 and have seen no problems, just
better signals. I run it straight into the receiver, no attenuator.

There are some others in the area using the Trimble antenna and GPS-45 around here. No reported
problems. They work well together.

jn

On Sun, 17 Nov 1996 10:33:54 -0600 (CST), aprssig@tapr.org wrote:

>Date: Sun, 17 Nov 1996 09:59:46 -0600
>From: Paul Moller <paulmoll@enteract.com>
>To: aprssig@tapr.org
>Subject: Re: Trimble Ant. for GPS45
>Message-ID: <3.0b28.32.19961117095932.006f2b20@enteract.com>
>
>A while ago there was talk that the Trimble antenna can cause permanent
>damage to the gps45. Has there ever been a documentated case of this?

Jim Neely
jneely@eden.com WA5LHS@tapr.org

---

443. Re: [APRSSIG:6495] 76to77e.zip

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Sun, 17 Nov 1996 18:28:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961117182618.4220A-100000@ns1>
Rendered body type: text/plain

On Sun, 17 Nov 1996, Bob Bruninga wrote:

> Im just uploading the upgrade file tonight for a quick look before
> comitting tot he full version. This versions attempts to correct a few
> small bugs. If you have reported one of these bugs, plese leemme know if
> I fixed tthem:

Any luck w/ remote Ultimeter 2000 showing their data ???

```
Geoff Peacock                                                        '''
Mobile Area Free-Net, Inc.                                          (o o)
______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                       (334) 405-4600
```

---

444. Re: [APRSSIG:6496] 76to77ee.zip

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 17 Nov 1996 16:32:17 -0800
To: aprssig@tapr.org
Message-ID: <199611180032.QAA19618@m1.sprynet.com>
Rendered body type: text/plain

At 17:46 11/17/96 -0600, you wrote:
>I blew it the first time, but cannot delete it, so I changed the name and
>uploaded it correctly as 76to77ee.zip...
>
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>

I just tried to download both of the files. Get a Netscape error "unable to
find file......" Better try again?

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

445. Re: [APRSSIG:6496] 76to77ee.zip

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Mon, 18 Nov 1996 00:41:25 GMT
To: aprssig@tapr.org
Message-ID: <329cb047.2577265357@mail.mergetel.com>
Rendered body type: text/plain

On Sun, 17 Nov 1996 17:46:35 -0600 (CST), you wrote:

>I blew it the first time, but cannot delete it, so I changed the name and
>uploaded it correctly as 76to77ee.zip...
>

Bob .. I just tried to FTP 77ee but it gives me a permission denied
also same with 77e, yet I was able to ftp another small file to check
out to see if I could FTP and it downloaded ok, So something is still
wrong on the TAPR site with your two files...

73 de Ron   Best Regards
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

---

446. Re: Trimble Antenna and GPS45

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Mon, 18 Nov 1996 00:48:33 GMT
To: aprssig@tapr.org
Message-ID: <329db127.2577489382@mail.mergetel.com>
Rendered body type: text/plain

I've been running various external antenna's with the gps45 with no problems other than blowing the fuse in the garmin power cable when I accidently shorted something out. Have used the Raytheon, Garmin, amplified antenna's along with the patch antenna from QST, and now the Trimble one from Paccomm, boy that is a nice small high gain antenna, shure makes the other's look sick in size, and rfi from radio xmitters is down considerably from the other's.
I just cut the coax and put a bnc crimp on connector or and away we go...

73 de Ron   Best Regards
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

---

447. Re: APRS in BACKGROUND

From: "Aaron Morrison" <ae4ko@magicnet.net>
Date: Sun, 17 Nov 1996 19:54:34 -4
To: Bob Bruninga <bruninga@nadn.navy.mil>, aprssig@tapr.org
Message-ID: <199611180054.TAA00505@magicnet.magicnet.net>
Rendered body type: text/plain

> Date: Sun, 17 Nov 1996 17:24:52 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6494] APRS in BACKGROUND

> APRS is wasting a lot of CPU time just waiting for the keyboard or
> serial port. Someone who is smart in QBasic once sent me a note
> that if you call INTERRUPT XX when your program finishes its tasks,
> that that will allow WINDOZ or other multi-taskers to steal the CPU
> immediately... This would be easy for me to add, if that person
> would again remind me how to do it....
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>
>

I didn't send the original, but this is what you want. This is sent to both Bob directly and to the List (just in case anyone wanted to know how to tell windows that the current program is just sitting there!)

BTW, this is from Ralf Brown's interrupt list -- excellent resource for programmers like ourselves.

```
----------------------------------------------------------------------
INT 2F 1680 - MS Windows, DPMI, various - RELEASE CURRENT VIRTUAL MACHINE TIME-SLICE

Category: W - MS Windows

Inp.:
        AX = 1680h
Return: AL = status
            00h if the call is supported
            80h (unchanged) if the call is not supported
Notes:  programs can use this function in idle loops to enhance performance
          under multitaskers; this call is supported by MS Windows 3.0, DOS 5+,
          DPMI 1.0+, and in OS/2 2.0+ for multitasking DOS applications
        does not block the program; it just gives up the remainder of the time
```

```
          slice
        should not be used by Windows-specific programs
        when called very often without intermediate screen output under WIN 3+,
          the VM will go into an idle-state and will not receive the next slice
          before 8 seconds. This time can be changed in SYSTEM.INI through
          "IdleVMWakeUpTime=<seconds>". Setting to zero results in a long wait.
SeeAlso: INT 15/AX=1000h,INT 15/AX=5305h,INT 21/AH=89h,INT 7A/BX=000Ah
INT 2F
```

This will _definitely_ make APRS more windows friendly. I've used
this in other programs and have seen processor usage go from 100%
to under 3%.

73

--
ae4ko@magicnet.net   "I drank what?" - Last words of Socrates.
http://www.magicnet.net/~ae4ko/home.html
Orlando, FL

448. Re: [APRSSIG:6498] Re: killer mail

From: "mail.conknet.com" <kml@conknet.com>
Date: Sun, 17 Nov 1996 21:29:36 +0000
To: aprssig@tapr.org
Message-ID: <328F83C0.38A0@conknet.com>
Rendered body type: text/plain

No problem with PowerMac7200 running Netscape 3.0 Gold.

Dan W1UR

449. Re: [APRSSIG:6498] Re: killer mail

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Sun, 17 Nov 1996 21:38:18 -0500
To: <aprssig@tapr.org>
Message-ID: <199611180243.VAA25863@arthur.INS.CWRU.Edu>
Rendered body type: text/plain

> From: John W.(Bill) Hays - w0omv <billh@netins.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6498] Re: killer mail
> Date: Sunday, November 17, 1996 19:08 PM
>
> I'm using Netscape ver 2.0 with a Macintosh and no problems.
> Are there any other Mac users having problems?
> 73,
> Bill - w0omv billh@netins.net
>
>

Well I have to fess up but it is hard. I too have been getting dumped out
of my
Microsoft Explorer mail program, and learned early on to just go to my
wife's Mac
(running Netscape 2.0) and I could download it fine! Once the list was
cleared I could
go back to my Bill Gate's wonder program and my PC. First I had to take
my wife's
ribbing about Mac superiority, and now I confess publicly!

  Joe Carter, W9JC (ex AA8SF)
  jbc5@po.cwru.edu

450. KC Meets with Keith Sproul Information!

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 17 Nov 1996 18:48:56 -0800
To: aprssig@tapr.org
Message-ID: <199611180248.SAA16650@m1.sprynet.com>
Rendered body type: text/plain

The dinner and get-acquainted meeting with Keith Sproul (WU2Z) is set up for
MONDAY, NOV. 18TH, 7:00 P.M. The location is APPLEBEE'S GRILL located at
I-29 and Barry Road, east side. Keith will socialize beginning at 7:00 p.m.
with dinner around 7:30 - 8:00 p.m.

We hope that everybody within a reasonable drive of Kansas City will come down and visit!!!

Talk-in will be on 146.79 VOICE (-600 shift)...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

451. Re: [APRSSIG:6501] Re: 76to77ee.zip

From: Doug Wittich <dwittich@concentric.net>
Date: Sun, 17 Nov 1996 22:09:51 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961118030951.006de770@pop3.concentric.net>
Rendered body type: text/plain

>I just tried to download both of the files. Get a Netscape error "unable to
>find file......" Better try again?
>

With ws-ftp95, I get a permissions problem.

Doug   dwittich@concentric.net N3VEJ

452. Downloads

From: Les Blalock <lcb911@apex2000.net>
Date: Mon, 18 Nov 1996 08:41:18 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961118083557.1fcfc950@apex2000.net>
Rendered body type: text/plain

There is apparently a change in procedure or a problem with the TAPR ftp server.

I uploaded a new version of AutoWx and found the same problem - the file is inaccessible.

(BTW Bob... My first upload of this update was incomplete, also - maybe we can blame the server for the "blown" uploads this time.)

les/N5KOA
http://www.apex2000.net/personal/lcb911/main.htm

453. RE: [APRSSIG:6505] Re: killer mail

From: Bob Lorenzini <hwm@netcom.com>
Date: Mon, 18 Nov 1996 07:19:19 -0800 (PST)
To: aprssig@tapr.org
Cc: "mail.conknet.com" <kml@conknet.com>
Message-ID: <XFMail.961118072106.hwm@netcom.com>
Rendered body type: text/plain

Pine and XF-Mail (unix) have no problems with mail from this SIG.

E-Mail: Bob Lorenzini <hwm@netcom.com>
Date: 11/18/96
Time: 07:19:23
----------------------------XF-Mail

454. Re: [APRSSIG:6475] METEOR SCATTER last night!

From: Mark Humphrey <mark@y100.com>
Date: Sun, 17 Nov 1996 23:29:56 -0500
To: aprssig@tapr.org
Message-ID: <328FE644.40A7@y100.com>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> Before your HEARD log gets too old, look at your MAP and heard log
> closely. The Leonids were supposed to peak last night at 2 AM. I saw 4
> possible MS contacts on my map this morning. (Just plane old APRS, not MS
> mode).
>

Bob:

I copied KD4EBR-3 near Greenville, SC about 1900 EST Saturday 11/16 via

```
the second WIDE (no GATES in his path), this could have been MS through
the local digis.  I also saw the RACES station in NC, but its path was
WIDE,WIDE,WIDE,WIDE (and you thought three-in-a-row was bad).

73, Mark KE3XY near Philadelphia
mark@y100.com
```

455. Re: [APRSSIG:6433] Seattle APRS

From: dougwe@ccintnet.wrq.com
Date: Mon, 18 Nov 96 08:14:48 PST
To: aprssig@tapr.org
Message-ID: <9610188483.AA848333861@ccintnet.wrq.com>
Rendered body type: text/plain

```
Is there anyone running APRS in Seattle or further northwesT? If so pse
give repeater freq.Direct Email is ok.

VE7FBI


     Seattle is on 145.79, look for W7FEN as the widest coverage digi.

     Doug
     K7IP
     Seattle Area APRS Coordinator
```

456. Re: [APRSSIG:6451] Re: Practical Applications needed

From: rbeckett@Schwab.COM
Date: Mon, 18 Nov 1996 09:46:41 +0000
To: aprssig@tapr.org
Message-ID: <9611181746.AA13120@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

```
One of the uses of APRS is on board sailing vessals. We started to
see it this summer and expect to see more APRS on board the Transpac
- LA - Hawaii races in the future. It is also handy for informing
your family where you are when you are on a cruise, for example going
to Mexico.

Rich - WB6EEE
> Date:          Sat, 16 Nov 1996 13:45:31 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          Doug Wittich <dwittich@concentric.net>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:6451] Re: Practical Applications needed

> In reply to Larry M. Keeran K9ORP
> >If everyone (that wants to answer the APRS NWS question) briefly told what
> >their area does, ONCE, then the rest of the WX and APRS chat can take place
> >by direct E-Mail.  I think it would make the rest of the APRSSIG happy.
> >:-)
>
> I can well appreciate the sentiment of not letting one rather narrow topic
> take over the sig, but OTOH, we've spent a lot of time here talking and
> learning about the technology, with precious little energy being spent on
> practical application.  Of course, in order to properly apply technology to
> provide solutions to problems, one must first understand it, but then one
> must find ways to use it to help others.  The NWS client certainly qualifies
> as someone we can provide much help to.  The other obvious ones are for the
> walk/ride/run events.  But when people ask me the real value of APRS, I have
> trouble explaining much more than these uses.  I'm hoping to keep on
> learning, though.
>
>
> Doug
>
>
>
Rich
(415) 636-8340 - work
(510) 521-1559 - Beckett & Associates Office
```

457. DosAPRS on a Sun 386i

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Mon, 18 Nov 1996 10:47:43 -0700 (MST)
To: aprs sig <aprssig@tapr.org>
Message-ID: <Pine.SUN.3.91.961118104527.25753A-100000@willow>
Rendered body type: text/plain

```
Just for a new data point and my own amusement, I now have DosAPRS
running on a Sun 386i workstation in a VGA window.  Kinda neat seeing
APRS running next to a UNIX csh window...

Chris, AA7WD
```

458. Re: killer mail

From: "Steve Singhose" <ssinghose@austria-c.it.earthlink.net>
Date: Mon, 18 Nov 1996 09:56:08 +0000
To: aprssig@tapr.org
Message-ID: <199611181755.JAA28449@sweden.it.earthlink.net>
Rendered body type: text/plain

```
Hi:

Pegasus Mail has been reading this SIG just fine.  Versions
available for DOS, Windows 16 and 32 bit versions, and Mac.  Makes a
great corporate e-mail system.  Works with many TCP/IP stacks.  I
have heard "better then Eudora" by many.  And best of all its FREE.

Find it at:
     http://www.pegasus.usa.com/

Thanks.



__________________________________________________
|Steve Singhose
|Design Engineer
|Western Computer Consulting Group
|Specializing in delivery of all multi-media material
|over that LAN including full-screen, full-motion video
|to the desktop.
|
|206-419-0829
|ssinghose@earthlink.net
|
|WCCG home page
|http://home.earthlink.net/~ssinghose
|_________________________________________________
```

459. Re: [APRSSIG:6486] Re: WinAPRS 1.1.7

From: schiers@ames.net
Date: Mon, 18 Nov 96 15:23:04 -0500
To: aprssig@tapr.org
Message-ID: <199611182124.PAA03019@tapr.org>
Rendered body type: text/plain

```
In <891649@bbs.ames.net>, on 11/17/96 at 01:15 PM,
   aprssig@tapr.org said:

>I have tried every thing to get it to work also.  Had no success until I
>started running window95.

I have only run it under Win95 from the very beginning. As I stated in
prior messages, the U-2000 has worked perfectly under WinAPRS since the
first version that purported to support the U-2000. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

460. Change in FTP Access on TAPR.ORG

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 18 Nov 1996 15:43:36 -0600
To: aprssig@tapr.org
Message-ID: <v03007803aeb67de13458@[128.83.113.85]>
Rendered body type: text/plain

```
Several have commented on the change on the FTP site.  An emergency change
was implemented by Lee, N5LYT, TAPR.ORG system admin during the weekend in
order to stop the illegal use of TAPR.ORG by a group of software pirates.

We had several messages end of last week noting the fact that FTP access
was full all the time.  Even when we upped the access to 40 users, it
filled up.  Upon close inspection it was determined that some 200 Megs of
illegal software had been sneaked into the software_lib/upload area.  In
```

addition, once we found this problem and removed the files, one of the pirates accessed the software_lib/upload area and deleted all the files that had been placed there by amateurs. Easy enough to do with the permissions we had setup -- since it was setup for honest folks.

TAPR.ORG is now setup as follows for all open anonymous upload areas, which now includes the aprssig/files/upload area:

* No subdirs in the upload area can be created
* File names can only use the characters "A-Z", "a-z", ".", "-", and "_".
* File names may not start with "." or "-"
* FTP users cannot delete, overwrite, or modify files once uploaded
* Files uploaded there are owned by "k9orp:aprsftp" with mode 0660.

This last statement means that anyone can still upload a file to an upload area, but no one can read the uploaded files until someone (either k9orp or any member of the aprssig ftp group) changes the permissions on the file (and hopefully moves it somewhere else).

Larry Keeran, k9orp, is now acting as full time APRS FTP library manager and we are working on getting Larry up to speed on how to access his account and move files around and generally keep the library in clean and orderly shape. Larry has been doing this in an ad-hoc fashion for several months, but after this weekend we decided that it really needed to be done officially with an account being issued.

When you upload a file to APRS upload area, you will need to __send a message__ to k9orp@tapr.org or the address listed in the README (which is now directed to Larry). In this way, Larry will know when files are there and can either move them or make them readable until he can move them. Also, be sure to include the .TXT file that Larry requested during the summer. This helps him and others later know that the files contains. If you have a specific area you want a file moved to, then let Larry know.

Bob B (APR) and Keith S (Z) both have access to their software dirs and should be uploading updates into those area directly. In this way, software updates should be available immediately. I'll touch base with both of them again and make sure we all have the right accounts and passwords to be doing that.

I will go ahead and change the permissions on all files currently in the aprssig/files/upload area for access. Any future files uploaded to the area will need to be changed by Larry for access after he gets an e-mail from the uploading person.

I figure Larry will post more as he get the backlog of files moved around and the files on there made readable.

Sorry for this additional security, but now that TAPR.ORG has been targeted as a system that can be used for illegal uploads like we had this weekend, Lee really had no other choice than to add these safeguards.

With this change, we have also bumped up the access for anonymous ftp to 30 users.

Cheers - Greg, WD5IVD
Pres TAPR.

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

461. Re: [APRSSIG:6509] Downloads

From: Bob Derderian <n2iph@cyberenet.net>
Date: Mon, 18 Nov 1996 17:14:03 -0500
To: aprssig@tapr.org
Message-ID: <3290DFAB.7667@cyberenet.net>
Rendered body type: text/plain

Sounds to me like the system administrator has changed some things in light of recent problems at the site. Your uploads are probably not accessable to anyone until reviewed by root or another su(superuser) and the file permissions are changed.

73...Bob

NNNN

462. Re: [APRSSIG:6503] Re: Trimble Antenna and GPS45

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 18 Nov 1996 18:37:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961118183506.12517A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Sun, 17 Nov 1996, Ronald Kramer wrote:

(snip)
> I just cut the coax and put a bnc crimp on connector or and away we
> go...

Well, it's not THAT easy...unless you happen to have a $30 crimp tool handy.
I tried it without the proper tool without success. Think I might try
soldering instead.

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

463. Delorme Tripmaker GPS $125.

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Mon, 18 Nov 1996 19:47:16 +0000
To: aprssig@tapr.org
Message-ID: <199611182347.SAA23531@hemisphere.neocomm.net>
Rendered body type: text/plain

```
The very propritorious Delorme is offering upgrades to Streets
USA Ver4 for $25. Also the Sell a package called tripmaker that
includes a GPS unit and Ver 4 Streets USA. I have been unable to
contact them for info on this GPS unit to see if it sends out
standard NMEA sentances or if it is more propriotry stuff.
Ver 4 of Streets has many new features. You can draw on the maps,
measure distances with your mouse, download maps to a pc that doesnt
have a CD player. From the internet you can get WX info that will
display on the map. Highway construction info is also available via
internet.

Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
good to be true.

Charles
cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA   ATC
Georgia>97>Main    Chase
```

464. Re: [APRSSIG:6495] 76to77e.zip

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Mon, 18 Nov 1996 17:20:11 -0700
To: aprssig@tapr.org
Message-ID: <3290FD5E.316B@goodnet.com>
Rendered body type: text/plain

```
I was able to successfully download 76to77ee.zip.  Please excuse my
ignorance, but what do you do with it?
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

465. Re: [APRSSIG:6521] Re: 76to77e.zip

From: Cap Pennell <cap@cruzio.com>
Date: Mon, 18 Nov 1996 17:18:54 -0800
To: aprssig@tapr.org
Message-ID: <32910AFE.DDC@cruzio.com>
Rendered body type: text/plain

```
I can't find the aprs77e.exe file within the 76to77ee.zip file!
73.  Cap
--
Cap Pennell
```

Santa Cruz, CA, 95062-1002   3658.92N/12200.88W
email: cap@cruzio.com   homepage: http://members.cruzio.com/~cap
packet radio: KE6AFE@kg6ee.#cca.ca.usa.noam

David/Roxanne McCarthy wrote:
>
> I was able to successfully download 76to77ee.zip. Please excuse my
> ignorance, but what do you do with it?
> --
> David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
> email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
> Visit the family homepage: http://www.goodnet.com/~davidmc/
> "As for me and my house, we will serve the Lord." Jos 24:15
>
> .-

---

466. Re: [APRSSIG:6496] 76to77ee.zip

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Tue, 19 Nov 1996 02:12:16 GMT
To: aprssig@tapr.org
Message-ID: <32a015f8.2668847891@mail.mergetel.com>
Rendered body type: text/plain

On Sun, 17 Nov 1996 17:46:35 -0600 (CST), you wrote:

>uploaded it correctly as 76to77ee.zip...
>

Bob , i just downloaded 76to77ee.zip and unzipped it
There is NO aprs77e.exe file in the zip, Am I missing
something ?

73 de Ron   Best Regards
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

---

467. Re: [APRSSIG:6520] Delorme Tripmaker GPS $125.

From: William Nolle <wa8inz@concentric.net>
Date: Mon, 18 Nov 1996 20:13:39 -0800
To: aprssig@tapr.org
Message-ID: <329133F3.26CD@concentric.net>
Rendered body type: text/plain

Charles W. Davidson wrote:
>
>   The very propritorious Delorme is offering upgrades to Streets
> USA Ver4 for $25. Also the Sell a package called tripmaker that
> includes a GPS unit and Ver 4 Streets USA. I have been unable to
> contact them for info on this GPS unit to see if it sends out
> standard NMEA sentances or if it is more propriotry stuff.
> Ver 4 of Streets has many new features. You can draw on the maps,
> measure distances with your mouse, download maps to a pc that doesnt
> have a CD player. From the internet you can get WX info that will
> display on the map. Highway construction info is also available via
> internet.
>
> Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
> good to be true.
>
> Charles
> cdavidso@neocomm.net
> http://www.neocomm.net/~cdavidso/
> WB4PAN@WB4QOJ.VA.USA.NOAM
> wb4pan@juno.com
> APRS ALDHA   ATC
> Georgia>97>Main   Chase

Well I just ordered the Tripmaker from Delorme for $125.00 (Upgrade)
only. and at the site below it claims to support the following GPS
receivers.

Delorme Tripmaker
Garmin GPS-30, 45 or GPS II
Trimble Scoutmaster
Rockwell or a fully compatible NMEA receiver

So from what I read nearly all GPS receivers are supported, so if you
have an older version and you have received an upgrade notice you can get

the Street Atlas USA 4.0 for only $25.00 and should work with a GPS receiver.

The following sites will give you all the info:

http://www.delorme.com/products/tripmate/
http://www.delorme.com/products/gps/

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

468. Version 7.7e EXE

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Mon, 18 Nov 1996 21:20:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611190220.VAA14225@itchy.mosquito.com>
Rendered body type: text/plain

In 76TO77EE.ZIP, I couldn't find the executable which I assumed to be APRS77E.EXE. Could it have been omitted? I got no error messages when unzipping.

Have fun es 73 de Boyd
w2hob@mosquito.com

---

469. Re: [APRSSIG:6511] Re: METEOR SCATTER last night!

From: rwf <rwf@atl.mindspring.com>
Date: Mon, 18 Nov 1996 21:20:27 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961118190920.006a0c9c@atl.mindspring.com>
Rendered body type: text/plain

At 09:33 AM 11/18/96 -0600, KE3XY wrote:

I also saw the RACES station in NC, but its path was
>WIDE,WIDE,WIDE,WIDE (and you thought three-in-a-row was bad).

For the past 2-3 weeks, I have seen several NC area stations with 3 and 4 WIDES. I was hoping that it was a temporary thing to check proprogation but I'm afraid someone set the bad example and the rest are following it. Please guys- 2 WIDES only. Its wreaking havoc down here on the local net.

---

470. Re: [APRSSIG:6517] Change in FTP Access on TAPR.ORG

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Nov 1996 22:09:13 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961118220741.6669D-100000@arctic>
Rendered body type: text/plain

I have only uploaded to the upload area. Hold my hand and tell me again what I have to do to upload to the dos area? DO I still log on as ftp with anonomyous password, or do I log on as bruninga, etc...

If wo, you bet that I lost any passowrd that you gave me, so send it again.... sorry... Or tell me to go look for it and I will...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

471. Re: [APRSSIG:6521] Re: 76to77e.zip

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Nov 1996 22:16:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961118221557.6669G-100000@arctic>
Rendered body type: text/plain

On Mon, 18 Nov 1996, David/Roxanne McCarthy wrote:

> I was able to successfully download 76to77ee.zip. Please excuse my
> ignorance, but what do you do with it?

APRSdos REPLY/COMMENT: PKUNZIP -dn   just like you always to with an APRS upgrade file....

The -dn says to put things inthe proper directories and only copy whats
NEW...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

472. 77eexe

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 18 Nov 1996 22:38:47 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961118223721.8272B-100000@arctic>
Rendered body type: text/plain

OOPS, I wondered why it was so small! ARGH. I just uploaded just the new
EXE file as 77eexe.zip in the tapr/SIG/aprssig/files/upload area, but
remember it wont show up until K9ORP (poor guy) moves it over...

SOrry for the problems!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

473. Re: [APRSSIG:6527] Re: Change in FTP Access on TAPR.ORG

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Tue, 19 Nov 1996 04:17:32 GMT
To: aprssig@tapr.org
Message-ID: <32a23495.2676686214@mail.mergetel.com>
Rendered body type: text/plain

On Mon, 18 Nov 1996 21:05:18 -0600 (CST), you wrote:

>I have only uploaded to the upload area. Hold my hand and tell me again
>what I have to do to upload to the dos area?
>Reply mail addr: wb4apr@amsat.org
>See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

hope you find out soon Bob ... pemmision denied on download of
77eexe.zip

73 de Ron   Best Regards
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

---

474. Re: [APRSSIG:6520] Delorme Tripmaker GPS $125.

From: Dayglo <dayglo@radix.net>
Date: Mon, 18 Nov 1996 23:12:20 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961119041220.00718b90@pop.radix.net>
Rendered body type: text/plain

>Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
>good to be true.

I saw this at my local CompUSA for $179 not $125. The package stated that
the software would only run with the included GPS receiver. Either they are
mistaken or have created a proprietary GPS receiver.

---

475. Re: [APRSSIG:6521] Re: 76to77e.zip

From: Cap Pennell <cap@cruzio.com>
Date: Mon, 18 Nov 1996 20:10:33 -0800
To: aprssig@tapr.org
Message-ID: <32913339.79A3@cruzio.com>
Rendered body type: text/plain

Cap Pennell wrote:
>
> I can't find the aprs77e.exe file within the 76to77ee.zip file!
> 73. Cap
<SNIP>
Now I see 77eexe.zip at TAPR, but I can't download it!! Aargh! Oh
well, we'll get it eventually!
73. Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002   3658.92N/12200.88W

```
email: cap@cruzio.com      homepage: http://members.cruzio.com/~cap
packet radio: KE6AFE@kg6ee.#cca.ca.usa.noam
```

---

476. Delorme for APRS maps???

From: "Al and/or Lorie Z." <ldajz@epix.net>
Date: Tue, 19 Nov 1996 00:36:21 +0000
To: aprssig@tapr.org
Message-ID: <32910104.4F93@epix.net>
Rendered body type: text/plain

```
I am not in the least bit familiar with Delorme's products.  I do
realize that at least DOS-APRS can interface to Street Atlas, but can
Street Atlas "output" map information that may be used as a starting
point for building APRS maps?

Is there any other program that can be used for doing this other than
the USGS CD-ROMs?


Thanks,

Al, N3KAE
```

---

477. RE: [APRSSIG:6524] Re: Delorme Tripmaker GPS $125.

From: Steve Childress <stevech@pacbell.net>
Date: Mon, 18 Nov 1996 20:32:05 -0800
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBD58F.90CB41E0@ppp-206-170-120-198.sndg02.pacbell.net>
Rendered body type: text/plain

```
I tried the URLs and links therefrom but didn't find the $125 Tripmaker offer.
stevech@pacbell.net

The following sites will give you all the info:

http://www.delorme.com/products/tripmate/
http://www.delorme.com/products/gps/
```

---

478. Re: killer mail

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Nov 96 23:40:02 EST
To: <aprssig@tapr.org>
Message-ID: <961119044001_71301.3106_FHJ56-2@CompuServe.COM>
Rendered body type: text/plain

```
FWIW, gang -

I monitor the forum through the listserver digest, and do have to comment that
we've been seeing more than the normal number of binaries passing through
lately. Binary attachments get changed to binhex(?) text in the digests, and
only the massive (>1MB) binaries cause my particular reader to upchuck.

The summarizer doesn't post the message numbers so I don't know which one was
#6396 (or 6397), but maybe someone whose mail reader didn't self-immolate can
tell us what that particular message had in it and we can back into the
problem. Maybe an inadvertent attachment or a sig-line animation gave certain
readers terminal [pun intended] indigestion.

  ...mike/N0QBF
     71301.3106@compuserve.com
```

---

479. Re: Mapmaking

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Nov 96 23:40:11 EST
To: <aprssig@tapr.org>
Message-ID: <961119044010_71301.3106_FHJ56-3@CompuServe.COM>
Rendered body type: text/plain

```
In a reference to MacDLG, Jim writes -

> Does anyone know of a program to convert GIS Arcinfo files to a format
> compatible with APRS/WinAPRS ?

and then Arte queries:

> Is there such an animal that'll help us PC-types
> make WinAPRS maps from the USGS DLG (Optional format) C-D's?
```

To both I have to reply, "Not that I know of." I'm not familiar with whatever system uses the Arcinfo format, but if it's a commercial system (versus public domain, like TIGER and DLG), there are all sorts of dance steps that might have to be taken around intellectual property issues. This even extends to the file formats themselves.

To the Windows/PC/Intel map generator, no, and it's going to take one of us to write something. Unfortunately, I still have no intentions on porting MacDLG to Windows. For starters, because of the screwball language I've used (a Mac-specific super-BASIC) the source code's not very transportable. I also don't have anything better than a 286 at the house, and SoftWindows (x86 emulator for the Mac) is a miserable environment to program in. Professionally, I design and write for both platforms, but prefer Mac because I can concentrate on the solution and spend a lot less time fighting system management issues.

And... just maybe... there's a part of me that wants to help make up for the incredibly poor support that the Mac platform has seen from the ham software community. If because of MacDLG there was even one serious APRS devotee that considered investing in a Mac over a Wintel box because it has better overall support (or had a better end result for their application), then I'll consider the resultant mind-broadening a mission accomplished.

FWIW.

...mike/N0QBF
71301.3106@compuserve.com

---

480. FTP Server Problem

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 18 Nov 96 23:40:13 EST
To: <aprssig@tapr.org>
Message-ID: <961119044013_71301.3106_FHJ56-4@CompuServe.COM>
Rendered body type: text/plain

Anybody know what's up with the server? Anything uploaded today (11/18) is inaccessable, including my own uploads. WOM (write-only memory) is an interesting concept, but is definitely a technology still in search of an application. ;-)

...mike/N0QBF
71301.3106@compuserve.com

---

481. KF0ZH

From: WB9WOZ@aol.com
Date: Mon, 18 Nov 1996 23:42:23 -0500
To: aprssig@tapr.org
Message-ID: <961118234221_2081474216@emout14.mail.aol.com>
Rendered body type: text/plain

Is KF0ZH on the SIG? I need to converse with him. If you monitor here, contact me direct.
If he is not here, and someone knows his email address, PLEASE let me know.

Bruce Tobias
WB9WOZ
DuPage ARC/NIAN

---

482. AEA out of business

From: Rick Szpyrka <wb8tif@cris.com>
Date: Tue, 19 Nov 1996 00:06:07 -0500
To: aprssig@tapr.org
Message-ID: <3291403E.915@cris.com>
Rendered body type: text/plain

A.E.A. Out of Business. According to numerous reports A.E.A. has suspended business operations and its employees laid off.
--
Rick Szpyrka   WB8TIF
Bloomfield Hills, MI USA
Email: wb8tif@cris.com or wb8tif@amsat.org
URL: http://www.concentric.net/~wb8tif

---

483. Scanning Maps for APRS

From: ke6nyt@fishnet.net (Dan Dicke)
Date: Mon, 18 Nov 1996 22:16:51 -0800
To: aprssig@tapr.org
Message-ID: <199611190616.WAA06411@big.fishnet.net>
Rendered body type: text/plain

If one were to scan in maps is there a way to get it digitized from a
scanned in version? I am trying to get APRS started here in Ventura County
Cal and think I have a way of doing that will get a WIDE up on Sulpher
Mountain where our main repeaters are. This would cover 90+% of the county,
also reaching to Pasadena which I think is the closest WIDE to me. This in
turn would connect to LA and San Diego Counties.

If I am able to pull this off, there is a gentleman in Santa barbara
county that I spoke with that is the ARRL Section Tech head that will put up
a WIDE in SB county. This will get APRS on the west coast from the Mexican
border to about center state. Northern CA is already on line, but on
145.010. We will cross that bridge when we get there.

Anyway, back to my original question, can we scan in maps and get them
convertered for APRS? We want to use it for ARES/RACES and that will give
us the OK to set up a WIDE.

Thanks for the time and space on the sig.

Dan Dicke
KE6NYT
KE6NYT@FISHNET.NET

---

484. Re: [APRSSIG:6540] Scanning Maps for APRS

From: Robert Winingham <kc5ejk@onramp.net>
Date: Tue, 19 Nov 1996 00:36:08 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aeb70281367f@[199.1.11.136]>
Rendered body type: text/plain

>If one were to scan in maps is there a way to get it digitized from a
>scanned in version?

We MacAPRS users have had the option to use scanned map files for some time.
I use screen captured PICT maps from Delorme SA2 and SA3.
It should be in WinAPRS also.

MACGPS PRO works well displaying GPS position data and maps. A new MAC
program GPSy 1.5 will let you use SA3 CD-ROM directly with a NMEA GPS
to plot you position as you move.

---- from the readme----
GPSyLink provides a seamless connection to DeLorme's StreetAtlas® 3.0. You have a moving map display with advanced control features such as control over zoom in/out; magnitude; map features; and update rate -- all from within GPSy.
$30   http://www.yale.edu/~nakamura/gps/gpsy.html

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

485. Re: [APRSSIG:6394] Re: Mouse Digitizer

From: DEO01-IPA <uipdeo01@usiminas.com.br>
Date: Tue, 19 Nov 1996 08:40:53 -0800
To: aprssig@tapr.org
Cc: py4lf@bis.com.br
Message-ID: <3291E315.267C@usiminas.com.br>
Rendered body type: text/plain

Bob Bruninga wrote:
>

> MAPFIX is available in source code as MAPFIX27.bas But you must run it
> undre QB.exe not Qbasic.exe and you must use the /L option so the mouse
> library will be loaded...

Tnx Bob! Where from can I download the QB.EXE and Mapfix27.bas? Sorry
about that but I´m a beginner.hi!
73´s from Julio...PY4LF

---

486. [Fwd: [APRSSIG:6537] FTP Server Problem]

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 19 Nov 1996 09:19:29 -0500
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <3291C1F1.2991@cyberenet.net>
Rendered body type: text/plain

Mike Musick wrote:
>
> Anybody know what's up with the server? Anything uploaded today (11/18) is
> inaccessable, including my own uploads. WOM (write-only memory) is an
> interesting concept, but is definitely a technology still in search of an
> application. ;-)
>
>   ...mike/N0QBF
>   71301.3106@compuserve.com

This is not a 'bug' or problem with UNIX, it is a feature! And if you received the msg about the problems at the TAPR site you can see that it is a very useful one for system administrators. It is not in search of an application, it is applies every day in thousands of applications around the world. Being able to designate read, write, and execute permissions is one of the 'powers' of UNIX/Linux. It IS a very different animal than DOS/Windows and other operating systems, and I would say is more difficult to learn (at least for someone who has DOS expierence) but overall is much more powerful. A true multi-tasking OS.

I'm sure most of you have heard of Linux, which is basically a free version of UNIX that will run on desktop machines (i836 or better, min 4MB ram). Some day a Linux/UNIX version of APRS will appear, and all the OS users will droule over its capabilities. Wouldn't you like to have up to 8 virtual consoles on one machine? Each doing a task at the same time? APRS-X (the name I have coined for the future X-Windows version of APRS)in one windows and your UL-200 datalogging program running in another, all while you run Netscape on a third and maybe TNOS on the fourth console?

What I think would be cool is a TCP/IP version of APRS, this would work over a SLIP or PPP connection or packet TNCs.

Keith & Mark I though had a APRS-X version on the back burner. I know of many Linux users who can't wait for its appearence.

73...Bob

NNNN

---

487. Re: [APRSSIG:6536] Re: Mapmaking

From: Mark Sproul <sproul@ap.org>
Date: Tue, 19 Nov 1996 09:46:19 -0500
To: aprssig@tapr.org
Message-ID: <v03007803aeb77838041c@[165.1.27.20]>
Rendered body type: text/plain

>In a reference to MacDLG, Jim writes -
>
>> Does anyone know of a program to convert GIS Arcinfo files to a format
>> compatible with APRS/WinAPRS ?
>
>and then Arte queries:
>
>> Is there such an animal that'll help us PC-types
>> make WinAPRS maps from the USGS DLG (Optional format) C-D's?
>

The map making program that Keith and I are working can deal with ARC-INFO files. The program is currently Mac only and is a long way from release quality. It is what we use to make all of the maps we put on the CD-ROM

For some time we have been making street level (from 100,000 USGS data) maps for anyone who asks, We put as many of them as we could on the CD-ROM, and most major popluated areas are covered.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

488. Re: X-APRS

From: Mark Sproul <sproul@ap.org>
Date: Tue, 19 Nov 1996 10:04:45 -0500
To: aprssig@tapr.org
Message-ID: <v03007806aeb77c40f673@[165.1.27.20]>
Rendered body type: text/plain

```
>time? APRS-X (the name I have coined for the future X-Windows version of
>APRS)

>Keith & Mark I though had a APRS-X version on the back burner. I know of
>many Linux users who can't wait for its appearence.
>

It is called "X-APRS" and it is a REALITY, we demoed it at DAYTON of this
year (yes, last May).  We already have maps displaying on a Sun, we will be
doing linux, both Mac Linux and PC Linux first.  We HOPE, (this is not a
promise) to have it ready to release by Dayton of next year.  I am keeping
track of the names of all people who express interest in X-APRS,



Mark

_____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

---

489. Re: [APRSSIG:6541] Re: Scanning Maps for APRS

From: Mark Sproul <sproul@ap.org>
Date: Tue, 19 Nov 1996 09:54:14 -0500
To: aprssig@tapr.org
Message-ID: <v03007805aeb77a498047@[165.1.27.20]>
Rendered body type: text/plain

```
>>If one were to scan in maps is there a way to get it digitized from a
>>scanned in version? =20
>
>We MacAPRS users have had the option to use scanned map files for some time.
>I use screen captured PICT maps from Delorme SA2 and SA3.
>It should be in WinAPRS also.
>


It is not in WinAPRS, Windows does not support PICT files and the entire
issue of handling bit-map images is MUCH more difficult under Windows than
on the Mac.



Mark

_____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

---

490. latest version of KPC-3

From: Bill Northup <northup@sw.stratus.com>
Date: Tue, 19 Nov 1996 11:31:46 -0500 (EST)
To: aprssig@tapr.org (APRS)
Message-ID: <199611191631.LAA00831@blackdog.sw.stratus.com>
Rendered body type: text/plain

```
After someone posted the web site for Kantronics I took a look to see what the
latest version of sw was for the KPC-3. It is 6.0N and one of the features
listed is that they REMOVED GPS support.

        Bill
```

---

491. GPS and Space Weather?

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Tue, 19 Nov 1996 11:34:38 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961119163438.00c20d00@cassatt>
Rendered body type: text/plain

It was a slow night surfing the local cable system last night, and I came upon CSPAN-2 doing a press conference with some NOAA people talking about Space Weather and predicting it. It was really discussing the effects of the much anticipated upcoming Solar Maximum Sunspots, and the effect of Solar storms on us.

Much of the program was dedicated to the Power generation issues with solar storms, and Space issues, but the one nearest and dearest to many of our hearts on the SIG is that people who use single channel GPS receivers can expect problems during a solar storm of larger magnitude. Sounds like the varying density of the atmosphere caused by such solar storms makes the paths to GPS satellites harder to measure.

This is much more a problem for Pilots or Mariners than your typical GPS/APRS Ham installation.

Anyone else catch this?

Tom Kinahan N1CPE

```
---------------------------------------------------------------------
Tom Kinahan                     Phone:          508-871-0305
US Robotics                     Fax:            508-366-3626
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

492. DGPS

From: Bob Lorenzini <hwm@netcom.com>
Date: Tue, 19 Nov 1996 08:40:30 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <XFMail.961119085921.hwm@netcom.com>
Rendered body type: text/plain

```
I think some member of  this SIG may find this interesting. Pacific Crest Corp
oration (800 795-1001) is offering a two chip DGPS receiver solution.
 SkipperChip - $68
 SkipperChip protocol processor - $24     both chips are 44-pin quad flatpack
 SkipperBLD evaluation board - $175    1.5"x1.5" complete receiver
   options
       rs232 or rs485 output - $10     cmos ouput standard
       regulator for 6-16v    - $10      5 v standard
       source 5 or 12 for active ant - $10   can be used with active or passive
ant
       second channel option - $68
Available first quarter 97'
```

```
----------------------------------
E-Mail: Bob Lorenzini <hwm@netcom.com>
Date: 11/19/96
Time: 08:40:30
----------------------------XF-Mail
```

493. Re: [APRSSIG:6520] Delorme Tripmaker GPS $125.

From: Mark Humphrey <mark@y100.com>
Date: Tue, 19 Nov 1996 11:56:55 -0500
To: aprssig@tapr.org
Message-ID: <3291E6D7.60E9@y100.com>
Rendered body type: text/plain

Charles W. Davidson wrote:

> Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
> good to be true.
>

As they say... "if it sounds too good to be true, it probably is." I also received the DeLorme brochure in the mail yesterday, and it looked interesting, but after checking their Web site, I noted the following:

1) Their GPS receiver is "not compatible with other GPS or mapping

applications", which probably means it's not putting out NMEA. (But the Street Atlas 4.0 software will accept NMEA sentences, if you already own a Garmin or other NMEA rcvr)

2) It looks like the receiver will only run on four AA batteries, which need to be changed every 10-14 hours. There's no power switch, it's controlled through the data port and turns on when you start the DeLorme program (another clue that it's a proprietary data format) The first thing I would want to do is modify the unit to run on external DC...

3) The special introductory offer was made to people on DeLorme's mailing list, and may not be available in retail stores. They can probably sell the thing cheap because they're getting a kickback from Duracell and Energizer, hi!

4) Hey, if Bob can figure how to decode their format, maybe there's a way to use the DeLorme receiver for APRS, with a portable PC to "translate", but don't expect to use it in a standalone configuration...

73, Mark KE3XY
mark@y100.com

---

494. Jupiter Rockwell GPS board

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Tue, 19 Nov 1996 12:12:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.95.961119121044.4264D-100000@outland.dtcc.edu>
Rendered body type: text/plain

Anyone heard of the Jupiter GPS board by Rockwell using a Zodiac chip set?
Same as the GPS-20?

I need this for a Super Loki Rocket Launch.

```
****************************************************************
Dr. Sam Guccione        Delaware Technical & Community College
302-741-2802            1832 North duPont Highway
ARS K3BY                Dover, DE  19901
****************************************************************
```

---

495. SOAPBOX...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Nov 1996 12:30:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119122012.26972A-100000@arctic>
Rendered body type: text/plain

After several months, Im kinda getting tired of seeing XXXX-3 on my bulletin page every day taking up 2 lines just announcing his presence. That is what the STATUS beacon is for. Also, he is using GATE,WIDE,WIDE which is also not good policy, READ HF.TXT for several reasons why this is bad. I have tried sending messsages to him on both HF and VHF, but never get any acks...

So now Im asking if anyone in the Boston area can make contact with this station and see if he understands what he is doing. Remember he is obviously running some homebrew software since he was also the station that was GATEing everything from HF to VHF and using his software to add GATE,WIDE,WIDE,WIDE to every packet a few weeks ago....

ALso, I dont need to see every Kansas CIty VHF digipeater on HF.... We know they are there, why waste the bandwidth? DIGI-W.BK should show all of those digipeaters... Since there is obvioiusly a GATEway there, we should be seeing it, not the WIDES.... Thanks.

Soap off...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

496. Re: [APRSSIG:6545] Re: X-APRS

From: Richard Parry <rparry@qualcomm.com>
Date: Tue, 19 Nov 1996 09:27:51 -0800
To: aprssig@tapr.org

Message-ID: <v03007806aeb79e50053d@[129.46.159.136]>
Rendered body type: text/plain

Add me to the list of LINUX and Sun Solaris people interested in X-APRS.

```
>>time? APRS-X (the name I have coined for the future X-Windows version of
>>APRS)
>
>>Keith & Mark I though had a APRS-X version on the back burner. I know of
>>many Linux users who can't wait for its appearence.
>>
>
>It is called "X-APRS" and it is a REALITY, we demoed it at DAYTON of this
>year (yes, last May).  We already have maps displaying on a Sun, we will be
>doing linux, both Mac Linux and PC Linux first.  We HOPE, (this is not a
>promise) to have it ready to release by Dayton of next year.  I am keeping
>track of the names of all people who express interest in X-APRS,
>
>
>
>Mark
>
>__________________________________________________________________________
>Mark Sproul                       |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |
>sproul@ap.org                     |Work: 609-860-7120
>North Brunswick, NJ               |Fax:  609-860-7129
>http://msproul.rutgers.edu/
>__________________________________________________________________________
```

---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link
Internal Web --> <http://qcwww/~rparry>
External Web --> <http://www.qualcomm.com/~rparry>
---------------

497. ***** Change in FTP Access on TAPR.ORG *****

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 19 Nov 1996 11:40:44 -0600
To: "APRS SIG list   mailing"<aprssig@tapr.org>
Message-ID: <v03007805aeb79c05e58e@[128.83.113.92]>
Rendered body type: text/plain

Based on messages posted after I posted the first version of the message below, doesn't look like everyone read the message.   So, here is a shorter version of the message with some updates. Check the messages posted yesterday for the full version.

Cheers - Greg

--------

TAPR.ORG is now setup as follows for all open anonymous upload areas, which now includes the aprssig/files/upload area:

* No subdirs in the upload area can be created
* File names can only use the characters "A-Z", "a-z", ".", "-", and "_".
* File names may not start with "." or "-"
* FTP users cannot delete, overwrite, or modify files once uploaded
* Files uploaded there are owned by "k9orp:aprsftp" with mode 0660.

This last statement means that anyone can still upload a file to the upload area, but no one can read the uploaded files until someone (either k9orp or a member of the aprssig ftp group) changes the permissions on the file (and hopefully moves it somewhere else).

Larry Keeran, k9orp, is now acting as full time APRS FTP library manager and we are working on getting Larry up to speed on how to access his account and move files around and generally keep the library in clean and orderly shape. Larry has been doing this in an ad-hoc fashion for several months, but after this weekend we decided that it really needed to be done officially with an account being issued.

When you upload a file to APRS upload area, you will need to __send a message__ to k9orp@tapr.org or the address listed in the README (which is now directed to Larry). In this way, Larry will know when files are there and can either move them or make them readable until he can move them. If you don't let Larry know about the file, then it will wait until Larry discovers it. Also, be sure to include the .TXT file that Larry requested during the summer. This helps him and others later know that the files contains. If you have a specific area you want a file moved to, then let Larry know.

Bob B (APR), Keith S (Z), and Steve Dimse all now have access to their software dirs and should be uploading updates into those area directly. In this way, software updates should be available immediately. Those areas are:

DOSaprs
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/dosstuff/DOSaprs/

MACaprs
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/macstuff/MacAPRS/

WINaprs
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/

javAPRS
ftp://ftp.tapr.org/tapr/SIG/aprssig/files/javastuff

Any future files uploaded to the _upload area_ will need to be changed by Larry for access _after he gets an e-mail from the uploading person_. Larry is checking daily for messages, so if he gets a message about an upload, it is a simple task for him to pop over and make it available.

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

---

498. Re: [APRSSIG:6547] latest version of KPC-3

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Tue, 19 Nov 1996 10:55:42 -0800
To: aprssig@tapr.org
Message-ID: <329202AE.FF6@wired.jpl.nasa.gov>
Rendered body type: text/plain

Bill Northup wrote:
>
> After someone posted the web site for Kantronics I took a look to see what the
> latest version of sw was for the KPC-3. It is 6.0N and one of the features
> listed is that they REMOVED GPS support.
>
>   Bill

This is the Network version of the KPC-3 ROM. They offer a couple of different version, one for GPS and one for Networking.

```
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  M/S: 264-580
 Voice: +1-818-393-1214            |  4800 Oak Grove Drive
 Pager: +1-818-423-2062            |  PASADENA CA 91109
```

---

499. Re: [APRSSIG:6543] [Fwd: FTP Server Problem]

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Tue, 19 Nov 1996 11:45:07 -0600
To: aprssig@tapr.org
Message-ID: <9611191145.AA07387@oscar.telalink.net>
Rendered body type: text/plain

>
> What I think would be cool is a TCP/IP version of APRS, this would
> work over a SLIP or PPP connection or packet TNCs.
>

The MacAPRS 2.6.7 has a Receive Only TNC option that is designed to connect with telnet nodes like "www.wa4dsy.radio.org:14579" using TCP/IP. This works great. I use it to check how local stations, in Nashville, are propigating to

Atlanta. I would love to see this technology expanded to other cities. I would
also like to see a server that would consolidate all the cities to one node.

Thanks Keith for the software, thanks Dale for the node.

Bruce

```
--
***************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
*  group of people with access to the most sophisticated      *
*  technology in the world, who everyone calls on to get the  *
*  really tough jobs done quickly and efficiently."           *
*  -- Nick Lehmann                                            *
***************************************************************
```

500. Re: [APRSSIG:6542] Re: Mouse Digitizer

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Nov 1996 12:52:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119125113.26972E-100000@arctic>
Rendered body type: text/plain

On Tue, 19 Nov 1996, DEO01-IPA wrote:

> Tnx Bob! Where from can I download the QB.EXE and Mapfix27.bas? Sorry
> about that but I□m a beginner.hi!
> 73□s from Julio...PY4LF

APRSdos REPLY/COMMENT: MAPFIXxx.bas is always in the 77toXX.zip upgrade
file currently its 76to77ee.zip on the tapr site. QB.exe is a microsoft
program that costs about $69 when I bought mine... I cant legally send it
to you, hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

501. Re: [APRSSIG:6555] Re: latest version of KPC-3

From: Rob Swanson <rswanson@csinet.net>
Date: Tue, 19 Nov 1996 11:59:41 -0600
To: aprssig@tapr.org
Message-ID: <3291F58D.7E1D@csinet.net>
Rendered body type: text/plain

Randy Hammock wrote:
>
> This is the Network version of the KPC-3 ROM. They offer a couple of
> different version, one for GPS and one for Networking.
>

I just ordered and recieved the 6.0 ROM for GPS, I also
pulled the 7.0 off thier WWW site, and burned it. the 7.0 addss
Multi-Drop KISS Features, but removes GPS.

502. Re: [APRSSIG:6550] Re: Delorme Tripmaker GPS $125.

From: Robert Winingham <kc5ejk@onramp.net>
Date: Tue, 19 Nov 1996 12:08:36 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aeb7a72cebc9@[199.1.11.115]>
Rendered body type: text/plain

>Charles W. Davidson wrote:
>
>> Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
>> good to be true.
>>
>
> which probably means it's not putting out NMEA. (But the
>Street Atlas 4.0 software will accept NMEA sentences, if you already own

----

Lots of info about this on the sci.geo.satellite-nav list

From: ke6zc@netcom.com (Stan Slonkosky)
Newsgroups: sci.geo.satellite-nav
Subject: Re: Delorme Tripmate GPS for SA 4.0
Date: Thu, 14 Nov 1996 08:39:42 GMT

Randy Davis (randy@agames.com) wrote:

> So, does anyone have any experiences or more info than is contained on the Delorme web page?

Not much in my case. I ordered it on Monday for $125 as an upgrade to SA 3.0. The upgrade for SA 3.0 along would have been $25, so the GPS essentially cost $100. I also ordered the 3D Navigator program for $19, but I haven't loaded that up yet. Total cost was $144, which included 2nd day air shipping.

> [I didn't come across the picture of a GPS unit mentioned by the original poster during the approx 10 minutes I spent wading through the site. On the page "http://www.delorme.com/products/tripmate" is a yellow-looking thing that might be the GPS unit.]

It's yellow all right. It's really strange that there's no power switch. You must either pull out one of the batteries or disconnect the Berg connector that connects the batteries to the GPS itself. The bottom part of the shell holds the batteries in place is attached to the top half with two screws. You can use a dime or a penny to unscrew them if you don't have a screwdriver handy. A sticker on the bottom of the top half of the unit says there are no user serviceable parts inside and that opening it voids the warranty, so I didn't open it.

There is mention of an external power supply being available from Delorme so you can run the unit from a cigarette lighter. I don't know why there is no reference to that on the WWW pages or on the mailer I received. Of course, one could get a a six volt supply from somewhere else and make one's own connections.

I didn't have a chance to test it in the field yet and won't until I can get the display on my notebook computer replaced, but the unit does appear to work as well as I might expect inside my living room. I'm sure that if I got a long enough serial cable that I could put the GPS unit outside I'd get better results.

I notice that at least one error remains on SA 4.0 remains. I first noticed it with SA 2.0 and it still hasn't been corrected and that's the bridge across the Colorado River between the north end of Laughlin, NV, and Bullhead City, AZ. Part of the bridge has been broken off and placed downstream about half a mile where neither end of it connects to any other road. A couple of errors I noticed in SA 3.0 have been corrected. Orangethorpe Ave. in Orange County, CA, is finally one word (instead of Orange Thorpe) and a street I used to live on south of Globe, AZ, in Six Shooter Canyon, is now correctly shown as Winchester Dr (instead of Winchester Rd). I think the above errors originated in the Tiger database, because I've seen the same errors on CD's from Precision Mapping, one other publisher whose name I can't recall and the Tiger WWW pages (though I haven't looked there in several months to see if things have been corrected).

From: "Eric A. Cottrell" <eac@shore.net>
Subject: Re: Approximately 100.00 US dollar GPS receiver (more)

Hello,

The unit seems to lock on the satellites reasonably fast.   I downloaded the New England area onto my laptop and the moving map display is neat.

I hooked it up to a comm analyzer and played alittle. Communications are 4800 baud using ASCII characters so far. The serial port does not assert handshaking signals so hardware handshaking should not be used.

Power control appears to be the DTR line. Asserting DTR powers up the unit and it sends three NMEA messages (PRWIRID, GPRMC, and PRWIZCH) then keeps sending a non-NMEA character string until it receives a $IIGPQ message with the character string. I was able

to program a function key on the windows terminal to send the string and NMEA sentences poured out of the receiver.
NMEA messages begining with PR are reserved for manufactuer's messages.

Some of the NMEA sentences:

PRWIRID	seems to contain version numbers and dates
GPRMC	position info
PRWIZCH	twelve sets of what seems to be satellite PRN and a single digit code
GPGSA	Number of satellites and PRN numbers plus some other info.
GPGGA	Position and other information.
GPGSV	Usually three messages in a row i.e. gives info on only 4 sats? Seems to be satellite info such as az/el

I need to check my nmea info as the GP messages are a standard format.
I also need to log the output as no doubt almanac and other messages are sent.

73 Eric eac@shore.net

Stan Slonkosky wrote:
>
> Randy Davis (randy@agames.com) wrote:
>

Thanks for the pricing info... its a REAL bargain imho

> It's yellow all right. It's really strange that there's no power switch.

Yup it YELLOW.. you can see it half a parking lot away, just screaming "Steal me !!"

The CTS line goes false, turning off the power, the software or the turning off or disconnecting the computer takes care of it.

> You must either pull out one of the batteries or disconnect the Berg
> connector that connects the batteries to the GPS itself.

NOT NEEDED...

I've been using one for a couple months now right beside a Garmin GPSMAP130 and an Accunav (beta test) and it's as hot as any of the expensive receivers. It's actually a 12 channel (Rockwell guts, Trimble made) parallel, and aside from the initial slow startup, is excellent.

The SA4 is wonderful, loads maps on the hard drive, runs without the CD, and aside from the short bread crumb trail is the best I've used. The maps are a little better than they were.

All the G45 functions a OK with the GPS130 by the way. The Accu-Nav is fine, and Trimble CM3 modules are OK, but CM2's don't output the *NN cksum needed.

It is also very cooperative with MNG2..

Newsgroups: sci.geo.satellite-nav
Subject: Re: Delorme Tripmate GPS for SA 4.0
Date: 16 Nov 1996 14:24:33 GMT

In <56jflt$4lj@fridge-nf0.shore.net>, eac@shore.net writes:
>NMEA messages begining with PR are reserved for manufactuer's
>messages.

Hello,

I read some more about NMEA 183 and realized I made a mistake.
I thought that the first two characters were used for the reserved messages. It is the first character. The RWI indicates, I believe that this unit is a RockWell International engine.

The other interesting thing is the response from the SA 4.0 software has

a source address of II (Intergrated Instrument) so it looks like you have
to send NMEA sentences for at least some commands. I do not see a
listing for a GPQ sentence.

I would not be surprised if the "non-NMEA string" being sent on powerup
is a NMEA method of getting attention and the GPQ message is an
acknowledgement. In that case it may be unusual, but following the NMEA
standard would tend to run counter to the statements that the Tripmate
Receiver could only run with SA 4.0.

Did I let the cat out of the bag? Maybe, but knowing this group
someone would have figured it out.

73 Eric eac@shore.net

Newsgroups: sci.geo.satellite-nav
Subject: Re: Delorme Tripmate GPS for SA 4.0
Date: 17 Nov 1996 02:39:12 GMT

In <328CE00F.68B9@inmind.com>, Bob Martin <martin@inmind.com> writes:
>   The CTS line goes false, turning off the power, the software or
>the turning off or disconnecting the computer takes care of it.

Hello,

Actually I found that when the DTR line goes false (or disconnected) the
receiver powers down.

I did some research based on the fact that the PRWIZCH and PRWIRID
NMEA sentences where mentioned in the Rockwell protocol thread.
I assume that RWI stands for Rockwell International. The thread mentions
that ZCH stands for Zodiac Channel status.

Searching the Rockwell site turned up press releases from earlier this year
about a 12 channel GPS receiver implemented with 2 ICs. It is called
Zodiac and the evaluation board is named Jupiter. It is designed as a
high-performance, low-cost GPS solution.

I noticed today looking at the NMEA output on power-up that the real-time
clock is not used as the receiver alway starts near 0000 utc. The receiver
also uses all 12 channels to search for one satellite and starts at about PRN
16. It only searches each satellite for a couple of seconds. If it gets a
"hit" it keeps the satellite on that channel and continues on. It looks like
this type of search ends when it gets the almanac. It also looks like the
almanac is not stored as well as GSV sentences do not start get outputed
until after it receives the first satellite. It also starts outputing only
one GSV message for the first satellite, then a while latter it starts outputing
2 or 3 GSVs with information for all satellites above the horizon.

The only question is what the IIGPQ sentence that is sent from the computer
means. I know the II part means Intergrated Instrumentation.

73 Eric eac@shore.net

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

503. Re: [APRSSIG:6550] Re: Delorme Tripmaker GPS $125.

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Tue, 19 Nov 1996 10:11:56 -0800
To: <aprssig@tapr.org>
Message-ID: <199611191814.KAA03439@mail1.deltanet.com>
Rendered body type: text/plain

Bob - the heck with using the receiver...   Let's figure out a way to use
the map CD.

Now that is a challenge, I ordered my Street Atlas 4.0 over the weekend.

Weren't the Sproul's working on software to utilize this CD????

I would pay real money for a program like that!

73, KM6YH

```
----------
> From: Mark Humphrey <mark@y100.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6550] Re: Delorme Tripmaker GPS $125.
> Date: Tuesday, November 19, 1996 9:02 AM
>
> Charles W. Davidson wrote:
>
> > Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
> > good to be true.
> >
>
> As they say... "if it sounds too good to be true, it probably is."  I
> also received the DeLorme brochure in the mail yesterday, and it looked
> interesting, but after checking their Web site, I noted the following:
>
> 1)  Their GPS receiver is "not compatible with other GPS or mapping
> applications", which probably means it's not putting out NMEA.  (But the
> Street Atlas 4.0 software will accept NMEA sentences, if you already own
> a Garmin or other NMEA rcvr)
>
> 2)  It looks like the receiver will only run on four AA batteries, which
> need to be changed every 10-14 hours.  There's no power switch, it's
> controlled through the data port and turns on when you start the DeLorme
> program (another clue that it's a proprietary data format) The first
> thing I would want to do is modify the unit to run on external DC...
>
> 3)  The special introductory offer was made to people on DeLorme's
> mailing list, and may not be available in retail stores.  They can
> probably sell the thing cheap because they're getting a kickback from
> Duracell and Energizer, hi!
>
> 4)  Hey, if Bob can figure how to decode their format, maybe there's a
> way to use the DeLorme receiver for APRS, with a portable PC to
> "translate", but don't expect to use it in a standalone configuration...
>
> 73, Mark KE3XY
> mark@y100.com
>
```

504. RE: [APRSSIG:6551] Jupiter Rockwell GPS board

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 19 Nov 1996 13:21:59 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBD61C.A5AE1BE0@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Tuesday, November 19, 1996 6:18 AM, Dr Samuel
Guccione[SMTP:sguccion@outland.dtcc.edu] wrote:
>Anyone heard of the Jupiter GPS board by Rockwell using a Zodiac chip set?
>Same as the GPS-20?
>
>I need this for a Super Loki Rocket Launch.
>
>****************************************************************
>Dr. Sam Guccione       Delaware Technical & Community College
>302-741-2802           1832 North duPont Highway
>ARS K3BY               Dover, DE  19901
>****************************************************************

Yes, the Jupiter is a 12 channel OEM receiver with NMEA output. Very nice.
Has a low power sleep mode, fast acquisition, etc.

PacComm is offering it as a premium option on some of our commercial GPS
products.

The antenna connector is an MSX or OSX (same thing).  In a few weeks
PacComm will have adapter cables which allow that receiver to be connected
to the Trimble antenna.


Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

begin 600 WINMAIL.DAT
```

```
M>)\^(@(2`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &``P!```!````# ````,``# #````"P`/#@`````"`?\/
M`0```#\`````````@2L?I+ZC$!F=;@#=`0]4`@````!A<')S<VEG0'1A<'(N
```

```
M;W)G`%--5% `87!R<W-I9T!T87!R+F]R9P``'@`", $````%````4TU44 ``
M```>``,P`0```!$```!A<')S<VEG0'1A<'(N;W)G``````,`%0P!`````P#^
M#P8````>``$P`0```!,````G87!R<W-I9T!T87!R+F]R9R<```(!"S !````
M%@```%--5% Z05!24U-)1T!405!2+D]21P````,``#D`````"P! .@$`````"
M`?8/`0````0`````````#$RX!"( '`!@```!)4$TN36EC<F]S;V9T($UA:6PN
M3F]T90`Q" $$@ $`+@```%)%.B!;05!24U-)1SHV-34Q72!*=7!I=&5R(%)O
M8VMW96QL($=04R!B;V%R9 !E#@$%@ ,`#@```,P'"P`3``T`%0`[``(`4 $!
M(( #``X```#,!PL`$P`-``@``'P`"``"<!`0F `0`A````1#!",$9&-4-&.#0Q
M1# Q,3@P1#4P,#0P,#4R.4)#1#<`& <!`Y &``'0%```2`````"P`C````````#
M`"8````````L`*0````````P`V```````! `#D`X)5WC4;6NP$>`' ``0```"X`
M``!213H@6T%04E-324<Z-C4U,5T@2G5P:71E<B!2;V-K=V5L;"!'4%,@8F]A
M<F0````"`7$``0```!8````!N]9&C5]<_[#10?@1T(#5`$ %*;S7```>`!X,
M`0````4```!33510``````!X``'PP!`````$0```&=W>6Y <&%C8V]M;2YC;VT`
M`````P`&$ ";R6$#``<0#@,``!X`"! !````90```$].5%%4T1!62Q.3U9%
M34)%4B Q.#$Y.38L,SHT,"!032Q"24Q,(%(N($%.1$524T].(%=23U1%.B!)
M3TY 3U543$%.1$140T-%1%574D]413I!3EE/3D5(14%21$]&5$A%2E4`````
M`@$)$ $```#D`P``X ,``$L'``!,6D9USU20R/\`"@$/`A4"J 7K`H,`4 +R
M"0(`8V@*P'-E=#(W!@`&PP*#,@/%`@!P<D)Q$>)S=&5M`H,S-P+D!Q,"@S0$
M1A,S,2#;"%4"@S4#QA3(-A+,#]^L9C<2QQ%U,!2V?0J BPC/"=D['-\Q,C@"
M@ <*@0VQ"V!N9S$P,T\44 L*%6$+\2!/`Z!400I0<V1A>2P'L&^*=A/@8@20
M(#$Y(B !(M Y-B V.C$XM12P32(@1 7 !A!M"E!!`R!'=6-C:0(@90!;4TU4
M4#IS9Q4DI$ (8'0?P60N9 IT)+ N"8!U72!WZP-@$] Z"H0^"T884@P!+F,`
M01-0)T%C!4!!;B)Y).$@:&4+$2!O"&8@="H0($IU<.9I$] %P$=0!? &X"HR
MQ&)Y!_%C:W<D8 ,@AG4`D!_@(&$@6@1P60<P8R 1< 4@(!&Q/[\*A""<)^\H
M^20A*?!A!"#[*J(K82T!T"X_+T\HO#)_\S./*,Q)("3P"8 JD00`;B "$ 7
M+2!3*O BH4PX;VMI+",1P#G0877Z;A%P+C5O-G\TGSM?/&_]*0<J0/]"#T,?
M0]D^#S\?^RC,(_ N)!(DAPR"(^ D8*QA=PK *?!4!9!H`P#28P= ("8646TD
M0 ,`CG0L$ A0+)!E9V5$[P-%_RC,,S R+3<T>C$R,#A.H R$20$C@#.G$> B
M0 `@:" FX% "(: @2&EG:$EP>4N?"TRO*,U2!?!+,T)9E4]71")1<B/112 C
M`OPP,5%_4H] +UFO6K];S\]$;R#)/8X@;R!9!Y B(/\JJCCQ+2 ?$"VA`' D
M\ ,@$$]%32 <X&-E:0]5H2<0*Q!0<$Y-14';*F F$' F$$@`5@20+!#U2@%E
M2 !(,9$M(!QP!^#6<&7@(J%S2U!E+> $8ITB(&8QD 5 `-!Q=00`WRL0)-$B
M(!' )K @"H0*A=Y0`-!*@F'"*G!F!G$L\9\K$#&"+2 34!/@:75(0-YO!3 D
MT2I@`Z!S`W I\/\J<0AA+:!*D020),!*,2MBURDA)N I<'-HC50JL0!P_Q/0
M8H M( 6@8H$I< 6Q8=);`Z %X%@J8 7 3W%!*.YS,5(XT1_@*4@`.% #H,\M
M(&I !^ L<&5K!"!I=O\#\"R1$8 B8"T0(? %,"*A]TH@`F 'D7<MP!%P+1 L
MD/MEX2J@805 8Q=PD"N0*?#O<#4XHG> *J)4!1 &T$M0/V^F.P5Y[PLH&F(A
M44=W&GD#H%(XD2(15S%"W$5,:2MI<3IB4G3@)- 7$Y43( JR: ) <#HO="]W
M@$ N"K DL$J1+@MM$6C$?8&@`P`0$ `````#`!$0``````$ `!S @U.NK1-:[
C`4 `"# @U.NK1-:[`1X`/0`!````!0```%)%.B ``````T9P`
`
end
```

---

505. Re: [APRSSIG:6519] Re: Trimble Antenna and GPS45

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Tue, 19 Nov 1996 10:29:00 -0800
To: <aprssig@tapr.org>
Message-ID: <199611191831.KAA06431@mail1.deltanet.com>
Rendered body type: text/plain

```
I used a solder on RG-174 BNC connector.  I had to ream out the center of
the sleeve section with a drill to allow the slightly thicker cable to pass
through, but it works great and you don't need the special crimp tool.

I used an AMP brand connector.

73 all,  KM6YH

----------
> From: Richard Amirault <amirault@laraby.tiac.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6519] Re: Trimble Antenna and GPS45
> Date: Monday, November 18, 1996 3:40 PM
>
> On Sun, 17 Nov 1996, Ronald Kramer wrote:
>
> (snip)
> > I just cut the coax and put a bnc crimp on connector or and away we
> > go...
>
> Well, it's not THAT easy...unless you happen to have a $30 crimp tool
handy.
> I tried it without the proper tool without success. Think I might try
> soldering instead.
>
> Richard Amirault               N1JDU            Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"
>
```

506. Map conversion

From: COMPTEC95013@camins.Camosun.BC.CA
Date: Tue, 19 Nov 1996 10:55:52 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <01IC101JNOHU00053W@camins.Camosun.BC.CA>
Rendered body type: text/plain

```
Hello

Is anyone aware of a program the will convert .nos format navigational
charts to the format used by the DOSAPRS program? Is anyone aware of
a map used by the DOSAPRS of the Victoria, British Columbia area or
of Northern Washington region.  Thank you for your help.

Jennifer MacLean
Camosun College
comptec95013@camins.camosun.bc.ca
```

---

507. Delivery-Report (failure) for /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com

From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: 19 Nov 1996 19:30:00 +0000
To: aprssig@tapr.org
Message-ID: </ADMD=TELECOM.CANADA/C=CA/;UNGA-5904-4900@resonet.com>
Rendered body type: text/plain

```
This report relates to your message: (91)APRSSIG:6...

Your message was not delivered to:
        /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available
```

---

508. Another Live APRS Data Site!

From: Steve Boyle <sboyle@netcom.com>
Date: Tue, 19 Nov 1996 11:37:08 -0800
To: aprssig@tapr.org
Message-ID: <32920C64.1306@netcom.com>
Rendered body type: text/plain

```
Bruce W. Martin wrote:

> The MacAPRS 2.6.7 has a Receive Only TNC option that is designed to connect
> with telnet nodes like "www.wa4dsy.radio.org:14579" using TCP/IP. This works
> great. I use it to check how local stations, in Nashville, are propigating to
> Atlanta. I would love to see this technology expanded to other cities. I would
> also like to see a server that would consolidate all the cities to one node.
>

 Well, somtimes when you ask you may just get it. Try connecting to:

   sboyle.slip.netcom.com:14579

  This is my beta site for a Win95 Live Internet Data Service(LIDS) for
APRS. Its up most of the time serving packets from the south San
Francisco bay area.

  ALSO try --> http://sboyle.slip.netcom.com/LIDSAPRS.html

  This is a HTML page using Steve Dimse's JavAPRS applet connecting to
the same server.

  There is a "Master Node" server and other goodies in the works. Stay
tuned!

Steve
KD6WXD
```

---

509. Re: [APRSSIG:6554] ***** Change in FTP Access on TAPR.ORG *****

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Tue, 19 Nov 1996 20:51:37 GMT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <32921d49.14171473@mail.mergetel.com>
Rendered body type: text/plain

On Tue, 19 Nov 1996 11:38:21 -0600 (CST), you wrote:
>* File names can only use the characters "A-Z", "a-z", ".", "-", and "_".
>-----
>Greg Jones, WD5IVD

Greg does this mean that filenames with number's in them can not be
uploaded ?? such as APRS76.ZIP or   76TO77EE.ZIP or 76EEXE.ZIP
I hope not....

73 de Ron   Best Regard
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

510. Re: [APRSSIG:6560] Re: Delorme Tripmaker GPS $125.

From: Mark Sproul <sproul@ap.org>
Date: Tue, 19 Nov 1996 15:11:35 -0500
To: aprssig@tapr.org
Message-ID: <v03007803aeb7c484f112@[165.1.27.20]>
Rendered body type: text/plain

>Bob - the heck with using the receiver...   Let's figure out a way to use
>the map CD.
>
>Now that is a challenge, I ordered my Street Atlas 4.0 over the weekend.
>
>Weren't the Sproul's working on software to utilize this CD????
>

No, the Delomre Street Atlas is VERY PROPRIATARY, we did ask them about it
years ago and they almost threatened to takes us to court for even thinking
about it.

Percision Mapping on the other had is much more corropitive, I have the
stuff from them but it will be a while before it is done. Please dont hold
your breath, there are too many other things with higher priority.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

511. AEA FOR SALE

From: bbliss@juno.com (William B. Bliss)
Date: Tue, 19 Nov 1996 15:51:30 EST
To: aprssig@tapr.org
Cc: ddobbins@jjuno.com
Message-ID: <19961119.124950.2431.0.bbliss@juno.com>
Rendered body type: text/plain

ALL SIGGERS.....

      Just got off phone with front office at AEA,
Lynwood, WA.
     Gal stated:

    QUOTE: AEA is not NOT , going out of business,
it is UP FOR SALE , only..
Full customer SERVICE is still available. Again FOR SALE
not going out of business... UNQUOTE.

     Saw the same (out of business) statement on Packet
BBS, how do false statements get spread so much...

Dave if u want, confirm this, in ur area......

    73's & Enjoy, Bill/WB6LPG....

NNNN

512. More soap

From: JOHN.LANGTRY@resonet.com
Date: 19 Nov 1996 21:05:00 +0000
To: aprssig@tapr.org
Message-ID: <"NNGA-8514-4900*/O=ENVOY
 100/ADMD=TELECOM.CANADA/C=CA/"@MHS>
Rendered body type: text/plain

My turn, Bob ! (And I agree, I can live without those port definations
just fine, thank you.)

Okay, my bit of soap. Please folks, as the interest in APRS grows,
30 M is getting busy, so we need to make the best use of the limited
bandwith we have. (That's the LAW up here, by the way.)

So please, unless there is a U.S. law that requires an Ident other than
that provided by APRS, TURN YOUR HID OFF.

I know its only one string that comes every 10 minutes, but with all of
us on there, it adds up.

Okay, I'll now turn the soap box over to give some one else a turn

vy 73 to you all, de John VE3NEC (john.langtry@resonet.com)

---

513. APRS/Java ..

From: bbliss@juno.com (William B. Bliss)
Date: Tue, 19 Nov 1996 16:11:45 EST
To: aprssig@tapr.org
Message-ID: <19961119.131039.2431.1.bbliss@juno.com>
Rendered body type: text/plain

Hi Siggers..

    Want to be able to copy the active APRS area maps, by APR,
ATLANTA, N2CZF and now our local Bay Area as mentioned on
sig., "LIDS for APRS"

My Windows is Ver.3.11, PackBell Pentium Force 341CD, with
Netscape Gold V3., for 16bit machines..
   Have downloaded the Win32S version designated PW1118.exe
2,471kb, but have not tried to load it into system.

   Have tried all of the JavaAPRS sites, and told V3.11 to read Java
but I always get foll:

    "   Sorry, your browser isn't Java compatable! ".......

Have been told Win32s and Ver3.11 don't get along and don't load
it, unless you have Win95.. With havin Pentium chip, been told
wont make any difference , will still work ok for JavaAPRS ..

   Anyone please, give me straight skinney... Do I have to have
Win95/Win32s.. to read our APRS active map units.. ????? Am
just a poor operator, not a computer expert, many terms over
my head...
       Thanks for any help, comments, suggestions. No flames pls..

    73's & Enjoy, Bill/WB6LPG bbliss@juno.com

NNNN

---

514. Re: [APRSSIG:6560] Re: Delorme Tripmaker GPS $125.

From: jkozak@erols.com (John W. Kozak)
Date: Tue, 19 Nov 1996 16:20:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611192120.QAA01161@smtp1.erols.com>
Rendered body type: text/plain

>Bob - the heck with using the receiver...   Let's figure out a way to use
>the map CD.
>Now that is a challenge, I ordered my Street Atlas 4.0 over the weekend.
>Weren't the Sproul's working on software to utilize this CD????
>I would pay real money for a program like that!
>
>73, KM6YH
>

That brings up a question that I have. With all the talk about maps, I have
a mapping program on CD called Key Master Maps. They are nice maps and more
detailed than the Automap Pro maps (at least where I live), but the

publishers don't even know what a GPS is. I would love to be able to use them in the car with my GPS without buying any MORE mapping programs, but I know nothing about converting things like that. Is anyone familiar with this mapping program and is this a realistic possibility with APRS?

John Kozak, N3AGG
jkozak@erols.com

---

515. OLD Maps!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Nov 1996 16:51:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119164359.7933A-100000@arctic>
Rendered body type: text/plain

I just discovered some old maps drawn to the old 1000 pt max limit:

CASanFrn.map
CAGilroy.map
CAObisbo.map

There may be lots more in other areas of the country.
I am sure you guys out there have better maps than this. Is W7KKE listening? What 3000 point map should I put in to replace these...? These are in my Wmapsxx.zip disto and pointed to by my MAPLIST.WES.

I havent updated my distro in over a year, so You guys have to update me when you get local better maps. But I cant fill my disks with high detail 100k maps either. Tell me what to do.

Similarly there are probably lots of old maps out there. If your area only gets a sparse map of under 1000 points, be sure to tell me. I am trying to weed out the old sparse maps... when I find them..

See APRS LIVE:
http://web.usna.navy.mil/~bruninga/aprs.html

---

516. Re: [APRSSIG:6554] ***** Change in FTP Access on TAPR.ORG *****

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Nov 1996 16:58:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119165738.7933C-100000@arctic>
Rendered body type: text/plain

On Tue, 19 Nov 1996, Greg Jones, WD5IVD wrote:

> Based on messages posted after I posted the first version of the message
> below, doesn't look like everyone read the message. So, here is a shorter

> * File names can only use the characters "A-Z", "a-z", ".", "-", and "_".

APRSdos REPLY/COMMENT: Please tell me that this is a typo and the the numerals 0-9 may also be included in file names?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

517. Re: [APRSSIG:6565] Another Live APRS Data Site!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Nov 1996 17:20:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119171509.7933F-100000@arctic>
Rendered body type: text/plain

> Bruce W. Martin wrote:
> > The MacAPRS 2.6.7 has a Receive Only TNC option that is designed for
> > telnet nodes like "www.wa4dsy.radio.org:14579" using TCP/IP....
>
> Steve Boyle Replied.... Try connecting to:
>
>   sboyle.slip.netcom.com:14579
>
> This is my beta site for a Win95 Live Internet Data Service(LIDS) for
> APRS. It serving packets from the south San Francisco bay area.

APRSdos REPLY/COMMENT: If you can access your telenet services in dumb terminal mode, then you can use APRSdos also by going to the OPS-COMM-TNC screen with a modem in place of your TNC, and then use the dumb terminal

screen to log onto your telenet host. THen when the data starts streaming
do an alt-X instead of the usual ESC to get back into APRS... and you
will begin to see the data plotted...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

518. Re: [APRSSIG:6569] More soap

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 19 Nov 1996 17:25:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119172346.7933H-100000@arctic>
Rendered body type: text/plain

On Tue, 19 Nov 1996 JOHN.LANGTRY@resonet.com wrote:

> Okay, my bit of soap. Please folks, as the interest in APRS grows,
> 30 M is getting busy, so we need to make the best use of the limited
> bandwith we have. So please, unless there is a U.S. law that requires
> an Ident other than that provided by APRS, TURN YOUR HID OFF.

APRSdos REPLY/COMMENT: I agree completely! If you have special SSID's
put those in your STATUS beacon. I think i'll put HID OFF in the init
files...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

519. Re: [APRSSIG:6569] More soap

From: "John R. Moore" <w4ue@pobox.com>
Date: Tue, 19 Nov 1996 22:22:51 -0500
To: aprssig@tapr.org
Message-ID: <3292798B.35DF@pobox.com>
Rendered body type: text/plain

I am fairly new to APRS but have been observing and reading the sig.
I am running a Gateway on 30M. Would be interested if I have it
set up right or opinions as to how it should be set up. So you
that are copying it let me know.
John W4UE
--
ARRL 1997 National Convention Information
http://www.pobox.com/~w5huq/hamfests.html

Orange Park Amateur Radio Club Information
http://www.pobox.com/~w5huq

---

520. More Killer Mail

From: rbost@itexas.net (Roy Bost)
Date: Tue, 19 Nov 1996 16:22:45 -0600
To: "APRS SIG" <aprssig@tapr.org>
Message-ID: <199611192223119l3.AAA135@rbost.itexas.net>
Rendered body type: text/plain

Look out it's back! Message #6564 stopped my IE Mail program dead in its
tracks.
It appears to be the same message from last week...a Delivery Report from
the X400 Mail Gateway. Same individual is not getting his mail! Running a
back-up Mail program has sure saved a lot of grief!!! :-)

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N 97 48' 59"W

---

521. Another Live APRS Data Site DOWN!

From: Steve Boyle <sboyle@netcom.com>
Date: Tue, 19 Nov 1996 14:32:40 -0800
To: aprssig@tapr.org
Message-ID: <32923587.5648@netcom.com>
Rendered body type: text/plain

Bad news!

I will be taking the San Francisco Bay LIDS-APRS server down untill
futher notice. The power has been going up and down like a yo-yo because
of the high winds. I do not have a UPS yet.

```
  I will let the SIG know when it is up and running.

  Sorry.

Steve
KD6WXD
```

---

522. Re: [APRSSIG:6547] latest version of KPC-3

From: MBoyce1856@aol.com
Date: Tue, 19 Nov 1996 17:46:42 -0500
To: aprssig@tapr.org
Message-ID: <961119174641_738720886@emout17.mail.aol.com>
Rendered body type: text/plain

```
Been running Kantronics tnc KPC-3 for 6 months +. Version 6.0 and HAS GPS
support. Unless there is a minor version revision, this is supposed to be the
latest that Kantronics is selling.

Mike Boyce / K0COY
k0coy@amsat.org
```

---

523. Killer mail revisited

From: "Thom Proehl" <tmproehl@nwlink.com>
Date: Tue, 19 Nov 1996 14:53:34 -0800
To: <aprssig@tapr.org>
Message-ID: <199611192253.OAA16406@montana.nwlink.com>
Rendered body type: text/plain

```
It was asked recently if we could get a message number of a message that
caused an Email program to crash (IE especially).
Today mine hung up on  # 6564. I was able to retrieve mail with netscape to
get the following header info

Subject:
         [APRSSIG:6564] Delivery-Report (failure) for
    Date:
         Tue, 19 Nov 1996 13:36:25 -0600 (CST)
    From:
         "X.400_Mail_Gateway" <X400Postmaster@resonet.com>

Hope this is of help.

Thom / kc7fzo
tmproehl@nwlink.com
```

---

524. Win95 Serial Port Problems

From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
Date: Tue, 19 Nov 1996 16:05:00 -0800 (PST)
To: APRS <aprssig@tapr.org>
Message-ID: <32923B56@gismtpgate.gi.com>
Rendered body type: text/plain

```
I'm brand new to this SIG and APRS, so please try to take it easy on me...

I have 7.7b on my PS/1 running Win 95.  I can't, for the life of me, get
APRS to open a comm port to my TNC.  Other DOS-based programs seem
to do all right (I talked to the TNC via Procomm Plus, NOT the Win kind.)
I'm not really a big-time PC guru but I usually don't have this kind of
trouble
since I read doc files VERY carefully before jumping in.

What am I missing?
Thanks

Dave Borcher K7NG
dborcher@nogmail.gi.com
```

---

525. Re: [APRSSIG:6366] Re: GPS Antennas for the Garmin GPS

From: philkeys@olympus.net (Phil Keys)
Date: Tue, 19 Nov 1996 15:28:43 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <v01510100aeb07b970889@[198.133.237.38]>
Rendered body type: text/plain

```
The connector on the minature Garmin GPS antenna from PacComm is an SMB.
You can either cut it off and install a BNC connector or you can make an
adapter from a SMB jack, a short piece of RG-174 coax and an BNC male plug.
Contrary to common usage, SMB plugs are female and jacks are male.
```

Therefore SMB connectors are designated as plugs and jacks instead of male and female.

The SMB jack is AMP 414091-3, crimp, Allied Electronics 512-2570, $7.06.
The BNC plug is Amphenol 69475, Mil clamp, Allied Electronics 713-9828, $7.38.

Allied's order number is (800) 433-5700. Their minimum order is $25.

____
philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339-9720 (360) 379-8650 122 44.0W 48 02.0N

526. Re: [Fwd: FTP Server Problem]

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Tue, 19 Nov 1996 17:56:48 -0600
To: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>, aprssig@tapr.org
Message-ID: <9611191756.AA48714@oscar.telalink.net>
Rendered body type: text/plain

> >The MacAPRS 2.6.7 has a Receive Only TNC option that is designed
> >to connect with telnet nodes like "www.wa4dsy.radio.org:14579" using
> >TCP/IP. This works great. I use it to check how local stations,
> >in Nashville, are propigating to Atlanta. I would love to see
> >this technology expanded to other cities. I would
> >also like to see a server that would consolidate all the cities to
> >one node.
>
> I am willing. Now what? The cookbook says: take a Mac (got it), add
> a TNC and antenna (got it), connect to "x" (no, I don't know that
> part), run Vers
> 2.6.7 receive mode (got that), ...
>
> Is it possible that you could enlighten me?
>
> /\
> Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
> EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
> \/
>

I am not sure what you are asking for. If it is how to connect via TCP/IP you need an internet connection (ethernet, PPP, SLIP, etc.) and the TGE TCP tool

for the communications toolbox written by Tim Endres (check shareware.com for a copy). Set the MacAPRS communications settings selecting the TGE TCP tool, set host as www.wa4dsy.radio.org on port 14579, select telnet with terminal type of vt100. No TNC or Radio needed.

If you asking about setting up an TCP/IP telnet node, that is a configuration that Dale (WA4DSY) has come up with and is still experimenting with it. I think it runs on a 486 running OS/2. Dale set this up to provide data for

Steve's (KO4HD) JavAPRS project (if i got this wrong, someone please forgive and correct me). Several months ago Dale said that when the technology matured he would release information on how to set up a node and would probably set up a consolidation node (consolidating the input from several nodes into one connection). I have not heard anything since.

Hope this helps,

Bruce

--
****
* Bruce W. Martin   Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.   HAM Call: KQ4TV   *
* Hermitage TN 37076-2650   Voice: (615) 872-7733   *
* FAX/MODEM: (615) 872-0045   APRS:3610.50N/08635.50W   *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
* group of people with access to the most sophisticated   *
* technology in the world, who everyone calls on to get the *
* really tough jobs done quickly and efficiently."   *
* -- Nick Lehmann   *
****

527. Re: [APRSSIG:6572] OLD Maps!

```
From: John Baum <jbaum@freenet.columbus.oh.us>
Date: Tue, 19 Nov 1996 19:13:57 -0500 (EST)
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.07.9611191955.A5176-a100000@login>
Rendered body type: text/plain
```

```
On Tue, 19 Nov 1996, Bob Bruninga wrote:

> I havent updated my distro in over a year, so You guys have to update me
> when you get local better maps.   But I cant fill my disks with high
> detail 100k maps either.  Tell me what to do.

Gee Bob, 90% of my Ohio maps are the 1000 Pt type maps. (seems like they
redraw faster on the 8088 & 286's some people still use for APRS). About
the only updating I'm planning on most of these maps will be adding
symbols to pinpoint specific town centers, airports, etc. If I ever get
into the 20th century and start mapping the new fangle way, I'll let you know.


John Baum - KB8JXO - The Ohio Map Maker (Yes, I'm still alive, but barely)
Cruise Missile Address:  39 56.35 N   082 58.89 W
Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newpaper
```

---

528. Re: [APRSSIG:6564] Delivery-Report (failure) for

```
From: Lee Walden <lwalden@ebmud.com>
Date: Tue, 19 Nov 1996 16:25:17 -0800
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961120002517.00676744@ebmud.com>
Rendered body type: text/plain
```

```
Would somone please remove this person from the mail system. I'm tired of
these messages killing my Internet mail program.
______snip___________________

> report relates to your message: (91)APRSSIG:6...
>
>Your message was not delivered to:
>       /DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
>       for the following reason:
>       Transfer could not be initiated
>       An invalid message parameter was encountered
>
>The Original Message is not available
>
______________snip_______________-
```

---

529. Re: [APRSSIG:6572] OLD Maps!

```
From: Lee Walden <lwalden@ebmud.com>
Date: Tue, 19 Nov 1996 16:32:06 -0800
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961120003206.0067b578@ebmud.com>
Rendered body type: text/plain
```

```
Bob, the guys here in S.F. also want to know why the Calif maps haven't been
included in the distribution versions for awhile.  Also there are a lot of
spelling errors on the bay area maps.

At 03:57 PM 11/19/96 -0600, you wrote:
>I just discovered some old maps drawn to the old 1000 pt max limit:
>
>CASanFrn.map
>CAGilroy.map
>CAObisbo.map
>
```

---

530. Re: [APRSSIG:6553] Re: X-APRS

```
From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Tue, 19 Nov 1996 18:42:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961119184217.27914E-100000@ns1>
Rendered body type: text/plain
```

```
Add another to the linux list.

Geoff Peacock                                                      '''
Mobile Area Free-Net, Inc.                                        (o o)
```

____oOO__( )__OOo_
geoff@maf.mobile.al.us   (334) 405-4600

---

531. new email address

From: scott miller <ke6rke@telis.org>
Date: Tue, 19 Nov 1996 17:53:29 -0700
To: listserv <listserv@tapr.org>, aprssig <aprssig@tapr.org>,
Bill Healy <healy@sierra.net>
Cc: joe kb6jc <delee@juno.com>, John <ko6oq@ix.netcom.com>,
Mike <musicalw@microweb.com>
Message-ID: <32925688.459F@telis.org>
Rendered body type: text/plain

I'm sorry but scottm@telis.org no longer exsists.
I lost my www access befor I could unsubcribe.
I am now ke6rke@telis.org , I will take care of re subcribing.
--
Scott Miller KE6RKE in Tahoe City

---

532. help on digest mode

From: Dave Mar <74737.221@CompuServe.COM>
Date: 19 Nov 96 20:12:03 EST
To: APRS Sig <APRSSIG@tapr.org>
Message-ID: <961120011202_74737.221_EHL143-3@CompuServe.COM>
Rendered body type: text/plain

OK. having a brain fart here.

What is the command to get my APRS sig posts in digest format?

A haven't done this in so long I just forgot!
thanks, dave N0XLW

---

533. KILLER MAIL

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Wed, 20 Nov 1996 02:24:49 GMT
To: aprssig@tapr.org
Message-ID: <32a76b17.2756188131@mail.mergetel.com>
Rendered body type: text/plain

The offending messages are being return from ISP of
VE3NEC john.langtry@reonet.com see following:

John.. U or UR ISP is causing major problems with the listserver
at TAPR
!!
!!
your messsages are being bounced back and causing some users
to have their mail lost because of it, if you have been following the
list the last couple of day's about killer messages it is your ISP
doing it, its bouncing messages origionated from you back to TAPR
and when these bounced message back and TAPR sends the bounce
info back out to the sig MSIE mail prgram locks Their ISP and their
mail system up and thier mail buffer has to be dumped as a resault.
I have seen these messages in the past about this.......
Is not a problem for me but just thought I would let you know what is
happening and see if you can correct it..
73 de Ron VE3MX, will try and attach or include a copy of
the offending message with this message.....

On Tue, 19 Nov 1996 15:12:52 -0600 (CST), you wrote:

>
>My turn, Bob ! (And I agree, I can live without those port definations
>just fine, thank you.)
>
>Okay, my bit of soap. Please folks, as the interest in APRS grows,
>30 M is getting busy, so we need to make the best use of the limited
>bandwith we have. (That's the LAW up here, by the way.)
>
>So please, unless there is a U.S. law that requires an Ident other than
>that provided by APRS, TURN YOUR HID OFF.
>
>I know its only one string that comes every 10 minutes, but with all of

>us on there, it adds up.
>
>Okay, I'll now turn the soap box over to give some one else a turn
>
>vy 73 to you all, de John VE3NEC (john.langtry@resonet.com)
>

P.S.   I see that you use lower case for your mail address but
I notice that the bounce is because the mailer send it to upper
case, automatically.... this may be causing part of the problem.

copy of OFENDING message....

To: aprssig@tapr.org
Subject: [APRSSIG:6564] Delivery-Report (failure) for
From: "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
Date: Tue, 19 Nov 1996 13:36:25 -0600 (CST)

```
--Tue Nov 19 14:37:47 1996 L1 185

This report relates to your message: (91)APRSSIG:6...

Your message was not delivered to:

/DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
        for the following reason:
        Transfer could not be initiated
        An invalid message parameter was encountered

The Original Message is not available

--Tue Nov 19 14:37:47 1996 L1 185
content-type: message-delivery-status

Reporting-MTA: x400; mta MTA-1 in
/PRMD=(null)/ADMD=TELECOM.CANADA/C=CA
Arrival-Date: 19 Nov 1996 19:30:00 +0000
DSN-Gateway: dns; resonet.com
X400-Conversion-Date: 19 Nov 1996 14:37:47 -0500
Original-Envelope-Id:

[/PRMD=RESONET/ADMD=telecom.canada/C=ca/;<Pine.GSO.3.95.961119125113.2697]
X400-Content-Identifier: (91)APRSSIG:6...
X400-Content-Type: P2-1984 (2)

Original-Recipient: rfc822;
/DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/@resonet.com
Final-Recipient: x400;
/DD.ID=john.langtry/O=RESONET/ADMD=TELECOM.CANADA/C=CA/
Action: failure
Status: 5.5.2
Diagnostic-Code: x400; 1 (Unable-To-Transfer) / 11
(Invalid-Parameters)
X400-Last-Trace: 19 Nov 1996 19:10:00 +0000
X400-Originally-Specified-Recipient-Number: 1


--Tue Nov 19 14:37:47 1996 L1 185--
```

When my mailer tries to send these messages to him
it send is out as capitals in his name@
must be because of the period in his address Grrrrrrrrrrrrrrrrrrrrrr
anyway just tried to send him a message and got the same
problem , I change it to small chrs and my pgm automatically
makes them into uppercase before the @

73 de Ron

73 de Ron   Best Regards
Email: rkramer@mergetel.com   ve3mx@mergetel.com
Packet: ve3mx@ve3snp

534. WinAPRS V1.1.7

From: rbost@itexas.net (Roy Bost)
Date: Tue, 19 Nov 1996 20:17:18 -0600
To: "APRS SIG" <aprssig@tapr.org>
Message-ID: <19961120021744809.AAA66@rbost.itexas.net>
Rendered body type: text/plain

Did I miss something on the instruction side or is the ProtoPath list in
v1.1.7 of WinAPRS not working?

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

---

535. Re: [APRSSIG:6568] AEA FOR SALE

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 19 Nov 1996 19:20:53 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961119192019.21648B-100000@oso.slonet.org>
Rendered body type: text/plain

yeah sure! take the dough out of the system and let the rest fend for
themselves.....Cliff K7RR

On Tue, 19 Nov 1996, William B. Bliss wrote:

```
> ALL SIGGERS.....
>
>       Just got off phone with front office at AEA,
> Lynwood, WA.
>      Gal stated:
>
>     QUOTE:  AEA is not NOT , going out of business,
> it is UP  FOR SALE , only..
> Full customer  SERVICE is still available. Again FOR SALE
> not  going out of business... UNQUOTE.
>
>      Saw the same (out of business) statement on Packet
> BBS, how do false statements get spread so much...
>
> Dave if u want, confirm this, in ur area......
>
>     73's & Enjoy,  Bill/WB6LPG....
>
> NNNN
>
>
>
```

---

536. Re: GPS Antennas for the Garmin GPS

From: joefoor@digitalexp.com (Foor, Joe)
Date: Tue, 19 Nov 1996 21:45:32 -0600
To: aprssig@tapr.org
Message-ID: <19961120034507087.AAG169@dial-02.marianna.fl.digitalexp.com>
Rendered body type: text/plain

>The connector on the minature Garmin GPS antenna from PacComm is an SMB.
>You can either cut it off and install a BNC connector or you can make an
>adapter from a SMB jack, a short piece of RG-174 coax and an BNC male plug.

I had to make adapters for those type of connectors, several times while
on active duty. I finally settled on using a panel mount SMB, soldered
to the cable clamp compression nut, on the BNC connector.

You start by cutting a piece of awg14 solid copper. Trim it and file the
ends to exactly fit both connectors and solder it between the SMB and
the center pin of the BNC. Then solder the connector body to the nut.
Assemble the adaptor with a pair of wrenches. You end up with an adaptor
that is physically robust and does not cause impedance problems.

regards,
Joe kf4dys

---

537. Re: [APRSSIG:6591] WinAPRS V1.1.7

From: Paul Stump <n0lrf@computer-services.com>
Date: Tue, 19 Nov 1996 21:52:58 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961119215109.1c3f7dbc@computer-services.com>
Rendered body type: text/plain

At 08:28 PM 11/19/96 -0600, you wrote:
>Did I miss something on the instruction side or is the ProtoPath list in
>v1.1.7 of WinAPRS not working?
>

I think he said it comes up, but is not implemented yet. Mine
does not show anything either. Think its under construction...

REALLY like the improvements, Mark/Keith. Please keep them comming.

very 73,

Paul, N0LRF

---

538. Re: [APRSSIG:6581] Win95 Serial Port Problems

From: "Aaron Morrison" <ae4ko@magicnet.net>
Date: Tue, 19 Nov 1996 22:58:04 -4
To: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>, aprssig@tapr.org
Message-ID: <199611200358.WAA15075@magicnet.magicnet.net>
Rendered body type: text/plain

```
> Date:          Tue, 19 Nov 1996 17:18:51 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:6581] Win95 Serial Port Problems

>
> I'm brand new to this SIG and APRS, so please try to take it easy on
> me...
>
> I have 7.7b on my PS/1 running Win 95.  I can't, for the life of me,
> get APRS to open a comm port to my TNC.  Other DOS-based programs
> seem to do all right (I talked to the TNC via Procomm Plus, NOT the
> Win kind.) I'm not really a big-time PC guru but I usually don't
> have this kind of trouble since I read doc files VERY carefully
> before jumping in.
>
> What am I missing?
> Thanks
```

Make sure APRS is using the same settings as the other comm programs
that _can_ talk to the TNC.

For example, make sure that APRS is set for the correct COM port and,
just as important, that APRS is set for the DTE rate (baud rate) of the
TNC; such as, 4800bps or 9600bps. Most TNC's allow setting of the
DTE rate just after a hard reset.

>
> Dave Borcher K7NG
> dborcher@nogmail.gi.com

--
ae4ko@magicnet.net   "I drank what?" - Last words of Socrates.
http://www.magicnet.net/~ae4ko/home.html
Orlando, FL

---

539. Re: [APRSSIG:6595] APRSSIG digest 775

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 19 Nov 1996 22:41:40 -0600
To: aprssig@tapr.org
Message-ID: <v0300780daeb83b0745fc@[128.83.253.75]>
Rendered body type: text/plain

Has anyone tested it ?
Don't answer :-) I just did and it takes filenames with 0-9 just fine.

The information below was just copied from the message Lee posted, so he
just left them out. Anyway, I think it is a matter of what is disallowed
more than what is allowed.

Since I believe Bob has also uploaded the E and EE files since the change
and they are both there okay, I think we can include 0-9 as a element in a
file name. Anyway, Bob should now have full access to his area on the ftp
site for the APRSdos uploads.

Cheers - Greg

On Tue, 19 Nov 1996 11:38:21 -0600 (CST), you wrote:
>* File names can only use the characters "A-Z", "a-z", ".", "-", and =
"_".
>-----

```
>Greg Jones, WD5IVD

Greg does this mean that filenames with number's in them can not be
uploaded ?? such as APRS76.ZIP or   76TO77EE.ZIP or 76EEXE.ZIP
I hope not....


73 de Ron                                  Best Regard
Email:  rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp


-----
Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----
```

---

540. APRS Software Download Areas on TAPR.ORG

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 19 Nov 1996 23:00:52 -0600
To: "APRS SIG list   mailing"<aprssig@tapr.org>
Message-ID: <v03007810aeb8409995b7@[128.83.253.75]>
Rendered body type: text/plain

```
The web page:

        http://www.tapr.org/tapr/html/sigs.html

Now contains direct links to the various APRS Software areas
(dos,win,mac,java) on TAPR.ORG.

Cheers - Greg, WD5IVD

-----
Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----
```

---

541. Re: [APRSSIG:6585] Re: Delivery-Report (failure) for

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Wed, 20 Nov 1996 05:25:20 +0000
To: aprssig@tapr.org
Message-ID: <32929640.23D6@netins.net>
Rendered body type: text/plain

```
Lee Walden wrote:
>
> Would somone please remove this person from the mail system. I'm tired of
> these messages killing my Internet mail program.

I might suggest you try a different mailer, mine is not bothered
by the aforementioned message type. I use Netscape ver 2.0.

73,
Bill Hays  - w0omv email:billh@netins.net
```

---

542. Re: [APRSSIG:6580] Killer mail revisited

From: George Salinas <saltair@hargray.com>
Date: Wed, 20 Nov 1996 00:21:45 -0500
To: aprssig@tapr.org
Message-ID: <32929569.7D15@hargray.com>
Rendered body type: text/plain

```
Thom Proehl wrote:
>
> It was asked recently if we could get a message number of a message that
> caused an Email program to crash (IE especially).
> Today mine hung up on  # 6564. I was able to retrieve mail with netscape to
> get the following header info
>
> Subject:
>          [APRSSIG:6564] Delivery-Report (failure) for
>     Date:
>          Tue, 19 Nov 1996 13:36:25 -0600 (CST)
>     From:
>          "X.400_Mail_Gateway" <X400Postmaster@resonet.com>
>
> Hope this is of help.
>
> Thom / kc7fzo
> tmproehl@nwlink.com

What the heck is going here? I just had the same thing happen with
my IE tonight (20 Nov 96). Lost about 100 messages. Netscape seems to
not be affected. It just happened that this evening I was using IE 301
when it zapped me.

Sure hope somebody can get to the bottom of this.

73 George KD4FJ.
```

---

543. MacAPRS 2.6.7

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 19 Nov 1996 23:23:51 -0600
To: APRS-SIG <aprssig@tapr.org>
Message-ID: <3292963E.3143@amsat.org>
Rendered body type: text/plain

```
Perhaps I missed it but what are the changes/updates/bug fixes in
MacAPRS 2.6.7?

--
Ron W5RKN

also:
rparsons@bga.com
```

---

544. Re: latest version of KPC-3

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Tue, 19 Nov 1996 23:13:49 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961119231352.19ff85f4@mailhost.primenet.com>
Rendered body type: text/plain

```
At 10:35 AM 11/19/96 -0600, Bill Northup wrote:
>After someone posted the web site for Kantronics I took a look to see what the
>latest version of sw was for the KPC-3. It is 6.0N and one of the features
>listed is that they REMOVED GPS support.
>
>       Bill
>
>

Ahem.  Yup, but you need to read a little further.  That N is 6.0N stands
for NODE and can only be had by special order.  It is special firmware for a
multi-drop KISS node.  It supports G8BPQ networking.  Since the majority of
these units will be used in FIXED sites, GPS support is not needed.  The N
variant also drops the NEWUSER command and well as on-line help.

Part of reading is comprehension.  With reporting like this, Bill, you could
get a job with any major newspaper.  You have mislead a lot of people by not
getting the full story.

73,

Mark Fellhauer
KC7BXS
sparkfel@primenet.com
```

---

545. Re: APRS in BACKGROUND

From: morganb@inetport.com (Robert B. Morgan)
Date: Wed, 20 Nov 1996 00:34:19 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611200634.AAA11648@admin.inetport.com>
Rendered body type: text/plain

```
Per Aaron Morrison and Bob Bruninga, about timeslicing,

>> APRS is wasting a lot of CPU time just waiting for the keyboard or
>> serial port.  Someone who is ....
>> --SNIP--
>
```

>I didn't send the original, but this is what you want. This is sent
>to both Bob directly and to the List (just in case anyone wanted to
>know how to tell windows that the current program is just sitting
>there!)
>
>BTW, this is from Ralf Brown's interrupt list -- excellent resource
>for programmers like ourselves.
>
>
>--
>INT 2F 1680 - MS Windows, DPMI, various - RELEASE CURRENT VIRTUAL MACHINE
TIME-SLICE

LONG SNIP OF PROCEDURE...

>   "IdleVMWakeUpTime=<seconds>". Setting to zero results in a long wait.
>SeeAlso: INT 15/AX=1000h,

My comments--

Desqview has a similar call DV_PAUSE and it appears to be what is alluded
to above, INT 15/AX=1000h, possibly preceeded by a stack switch,
INT 15/AX=101Ah, and followed by an opposite stack switch INT 15,AX=1025h,
from what I can make of some programming notes in my Desqview appendix J,
p232 of the DV vers 2 manual. (It has been collecting some dust here).

Not sure that I have seen anyone on the SIG allude to running under DV,
but a few years ago some of us were running WA7MBL etc BBS's that
way, and there was an INT14 TSR bios handler for TNC serial ports called
DVIOCOMn.COM that appears to make that kind of a call, from what I can
see with the unassembler just now. Maybe some users still run that way
with some packet apps, and if there is a need that code might be included
too. That driver replaced the COMnBIOS.COM series of drivers that
supported some of those BBS apps comm ports, and was used for this reason
if running under DV instead of plain old dos. I think it became critical
if more than one serial port was being used concurrently.
(That page of notes also has a means to determine if DV is loaded
or not).

This may not exactly be a programming forum, but this is the closest thing I
have seen to any details of how to operate in a timeslicing multitasking
environment yet, of the places I frequent. That topic area in general looks
like it is horribly underdocumented, and it directly affects communications
efficiency for us on packet operating serial ports under timeslicers.
I used to work around some of the industrial control pre-emptive realtime OS,
and these details become critical to getting work done in time.

I would appreciate a URL for Ralf's reference if there is one, or does it
sit on a bookstore shelf somewhere? However, let me say thanks Aaron for the
posting in the first place.

73 de Bob WB5AOH
Robert B. Morgan
Austin, Texas
morganb@admin.inetport.com

---

546. Old Maps

From: bbliss@juno.com (William B. Bliss)
Date: Wed, 20 Nov 1996 02:06:37 EST
To: aprssig@tapr.org
Cc: bruninga@nadn.navy.mil, lwalden@ebmud.com
Message-ID: <19961119.230458.2431.0.bbliss@juno.com>
Rendered body type: text/plain

Attn: Bob/WB4APR and Lee/????? & Dan/KE6NYT & Jennifer M....

Ken/W7KKE the Calif Map Coordinator and map maker
extrodinair is out of the country, getting a GPS fix on
the Pyramids and Pharoes in Cairo, Egypt. I wlll
pass your Old Maps message on to him on his return.

Lee the latest updated/maps are in MAPLIST06.ZIP posted
at TAPR APRS , if specific maps have spelling error, why not
advise Ken and he will correct same. Your message will
be passed to him also. He also sends message notices of
newest maplist releases both here on sig and on Packet
BBS msgs.. They can be downloaded locally LL BBS's also.

```
  Dan/KE6NYT,  for your  Ventura county  special maps, ask Ken to help
you out, he has always been very accomodating for specific
area maps down to .5mile from any he has on his CD-ROM Disk
from C&GD survey. Ck with him for LAX area special or better
maps also.

  Jennifer MacLean.. For your Victoria, BC maps, contact
ddobbins@juno.com
or perhaps Ken/W7KKE  can help you for special or APRS maps, for your
area..
            73's & Enjoy, Bill/WB6LPG

NNNN

    .

      73's & Enjoy, Bill/WB6LPG

NNNN
```

---

547. APRS Killeen

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Wed, 20 Nov 1996 06:17:38 -0800
To: aprssig@tapr.org
Message-ID: <32931302.7CFB@n-link.com>
Rendered body type: text/plain

```
APRS Monitoring is also active in Killeen,Copperas
Cove,Lampasas,Belton,Waco on 145.790
DE TOMMY

--
CUSTOM MUGS, 13 Dana drive, Lampasas Tx 76550-1113
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line:)
We Print your Color Photos onto coffee mugs.... Check us out.
```

---

548. Question

From: Scott <scott@ia.net>
Date: Wed, 20 Nov 1996 06:48:14 -0600
To: aprssig@tapr.org
Message-ID: <199611201248.GAA02903@zeus.ia.net>
Rendered body type: text/plain

```
New user question:
Can I download any aprsDOS upgrades from tapr.org and install it over my
current version?  I have 77b, I downloaded 77e.  Do I have to make any other
changes to my config if I do this?

Scott Werling
N0XZY @ WA0RJT.#EIA.IA.USA.NOAM
scott@ia.net (home)
werling@dps.state.ia.us (work)
```

---

549. javAPRS and TIGER Maps

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 20 Nov 96 08:48:35 -0500
To: <aprssig@tapr.org>
Message-ID: <199611201344.IAA23671@newworld.bridge.net>
Rendered body type: text/plain

```
Most APRS users are probably aware of the TIGER map server
(http://tiger.census.gov). I have now updated javAPRS to use this server
as a source of maps. See:

http://www.bridge.net/~sdimse/tiger.html

for an example of how this looks, as well as a discussion of the
limitations of this new method.

Steve K4HG
```

---

550. Re: [APRSSIG:6586] Re: OLD Maps!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Nov 1996 09:19:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961120091454.26303C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 19 Nov 1996, Lee Walden wrote:

> Bob, the guys here in S.F. also want to know why the Calif maps haven't been
> included in the distribution versions for awhile.  Also there are a lot of
> spelling errors on the bay area maps.

APRSdos REPLY/COMMENT:  What Calif maps?  What spelling errors?  Can you
be a little more specific?  I ship out a standard distro of Wmaps10.zip
which includes all of my original large calif maps.  There is a separate
local distribution of CAmaps##.zip put out by the CA map coordinator,
W7KKE in Foster CIty. I have nothing to do with them unless he tells me to
make changes to my larger maps.

If there are spelling errors in my maps, then list them.  I can't go
searching every map looking for something that I dont know is misspelled!

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

551. Re: [APRSSIG:6570] APRS/Java ..

From: MARLEY@LU.LINCOLN.EDU
Date: Wed, 20 Nov 96 09:21:37 -0500
To: aprssig@tapr.org
Message-ID: <199611201418.IAA19899@tapr.org>
Rendered body type: text/plain

```
TO RUN JAVA APRS YOU MUST HAVE WIN95  OR MAC SYS 7.2 OR GREATER.  IT
WILL NOT RUN ON WIN 3.11  I CALLED TECH SUPPORT APOUT THIS AND THERE IS NO PLANS
IN THE NEAR FUTURE TO MAKE WIN 3.11 JAVA CAPABLE.
```

---

552. Re: [APRSSIG:6608] Re: APRS/Java ..

From: schiers@ames.net
Date: Wed, 20 Nov 96 08:50:23 -0500
To: aprssig@tapr.org
Message-ID: <199611201452.IAA21236@tapr.org>
Rendered body type: text/plain

```
In <896554@bbs.ames.net>, on 11/20/96 at 08:17 AM,
   aprssig@tapr.org said:

>TO RUN JAVA APRS YOU MUST HAVE WIN95  OR MAC SYS 7.2 OR GREATER.  IT
>WILL NOT RUN ON WIN 3.11

You can run java aprs (or at least have access to the java aprs sites with
OS/2 Warp 4, using Netscape for OS/2 which is available in beta from IBM.
I have used it myself and it works very nicely, but it is certainly beta.
The beta is going to be upgraded before the end of the month for you OS/2
people out there. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

553. Re: Unproto list in WinARPS 1.1.7

From: Mark Sproul <sproul@ap.org>
Date: Wed, 20 Nov 1996 09:41:14 -0500
To: aprssig@tapr.org
Message-ID: <v03007803aeb8c6aa591e@[165.1.27.20]>
Rendered body type: text/plain

```
>Did I miss something on the  instruction side or is the ProtoPath list in
>v1.1.7 of WinAPRS not working?
>


I messed up and the released version of 1.1.7 did not have all of the
debugging code removed, therefore the Unproto path display does not work
correctly.

SInce the release of 1.1.7 I have fixed the following

       Can now read dosAPRS .HST files.
       UnprotoPath window bug fixed
       Finished CAP Search and Resqueue grids, now displays labels

My normal policiy is not to release more than once a month unless its real
important (like the HSP stuff).
```

I have been very busy working on lots of aspects. I am putting a lot of
work into the areas that had the most requests. I hope to have the
multiple path list capability working in a month or so.

Mark

```
___________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

554. Re: [APRSSIG:6600] MacAPRS 2.6.7

From: Mark Sproul <sproul@ap.org>
Date: Wed, 20 Nov 1996 09:48:26 -0500
To: aprssig@tapr.org
Message-ID: <v03007805aeb8ca47324a@[165.1.27.20]>
Rendered body type: text/plain

>Perhaps I missed it but what are the changes/updates/bug fixes in
>MacAPRS 2.6.7?
>
>--

I always list the bug fixes / improvments in the "Recent Additions to
WinAPRS/MacAPRS section of the docs on

http://aprs.rutgers.edu/aprs/

With this last release, we will be trying to always make releases of Mac
and WIndows at the same time. We are now to the point were all
improvements normally affect both platforms. THere are still some specific
Windows only issues but they are getting smaller.

Mark

```
___________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

555. Re: [APRSSIG:6610] Re: Unproto list in WinARPS 1.1.7

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Wed, 20 Nov 1996 10:06:20 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961120160620.006bb0a0@tbcnet.com>
Rendered body type: text/plain

Would it also be possible to make the icons transparent so they don't
obscure the ones underneath?

jbl

At 09:01 11/20/96 -0600, you wrote:
>>Did I miss something on the instruction side or is the ProtoPath list in
>>v1.1.7 of WinAPRS not working?
>>
>
>
>I messed up and the released version of 1.1.7 did not have all of the
>debugging code removed, therefore the Unproto path display does not work
>correctly.
>
>SInce the release of 1.1.7 I have fixed the following
>
>   Can now read dosAPRS .HST files.
>   UnprotoPath window bug fixed
>   Finished CAP Search and Resqueue grids, now displays labels
>
>My normal policiy is not to release more than once a month unless its real

```
>important (like the HSP stuff).
>
>I have been very busy working on lots of aspects.  I am putting a lot of
>work into the areas that had the most requests.  I hope to have the
>multiple path list capability working in a month or so.
>
>
>Mark
>
>___________________________________________________________________________
>Mark Sproul                       |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press  |
>sproul@ap.org                     |Work: 609-860-7120
>North Brunswick, NJ               |Fax:  609-860-7129
>http://msproul.rutgers.edu/
>___________________________________________________________________________
>
>
--------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

556. [APRSSIG:6590] KILLER MAIL

From: JOHN.LANGTRY@resonet.com
Date: 20 Nov 1996 16:19:00 +0000
To: aprssig@tapr.org
Message-ID: <"SNGA-1054-4900*/O=ENVOY
 100/ADMD=TELECOM.CANADA/C=CA/"@MHS>
Rendered body type: text/plain

```
Hi Ron !

Oh my gawd ! Yes, I did see the messages on the SIG about the various
mailers and the problems; but NEVER did I suspect it was me !

My X.400 id's go back many years (1970's) when the (then) rules were
given name or inital + "." last name. I guess the new code can not
support the old specifications.

Anyway, please do me a favour, since I can't; put out a note to the
SIG in my behalf, express my regrets ('specially as I didn't know)
and I'll find another way of joining the SIG via (say) VE3NEC@somewhere.com
It'll probably be projectx.com but John VE3SVE is at Commdex and until
he gets back, I can say for sure.

Meanwhile, I shall be QRT on the SIG. vy 73 de John VE3NEC
```

557. Re: [APRSSIG:6601] Re: latest version of KPC-3

From: rbeckett@Schwab.COM
Date: Wed, 20 Nov 1996 08:33:06 +0000
To: aprssig@tapr.org
Message-ID: <9611201633.AA11587@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

```
> At 10:35 AM 11/19/96 -0600, Bill Northup wrote:
> >After someone posted the web site for Kantronics I took a look to see what the
> >latest version of sw was for the KPC-3. It is 6.0N and one of the features
> >listed is that they REMOVED GPS support.
> >
> >     Bill
May I please have the URL for Kantronics?

73 - Rich WB6EEE
```

558. Re: [APRSSIG:6604] APRS Killeen

From: David Eaton <deeaton@gte.net>
Date: Wed, 20 Nov 1996 10:32:48 -0800
To: aprssig@tapr.org
Message-ID: <32934ED0.76B3@gte.net>
Rendered body type: text/plain

```
It's about time I hear from you'll down there and see how things are
going say hi to all got to run real busy day talk later..
```

559. Latest pcMAPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Nov 1996 11:42:39 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961120113359.16303B-100000@arctic>
Rendered body type: text/plain

I just scanned through all the maps in the files/maps/PCMaps area and asked for about 60% of the old files to be deleted. Hopefully here is what remains as the latest of each version:

almaps07.zip
akmaps01.zip
bamaps96.zip
camaps06.zip
eumaps02.zip
flmaps02.zip
gamaps02.zip
limaps.zip
ilmaps2a.zip
inmaps04.zip
HIMAPS10.zip
mamaps03.zip
mdmaps06.zip
mimaps01.zip
msmaps03.zip
nemaps01.zip
ohmaps07.zip
onmaps31.zip
pamaps04.zip
samaps02.zip
TNMAPS04.ZIP
txmaps01.zip
ukmaps02.zip
vamap08.zip

ARGH, I forgot to check the uploads area. I will do that next, and then re-issue this message with it updated to the latest in uploads area...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

560. Re: transparent icons

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Wed, 20 Nov 1996 16:47:41 +0000
To: aprssig@tapr.org
Message-ID: <3293362D.2D6D@netins.net>
Rendered body type: text/plain

John B. Leonard, Jr wrote:

>
> Would it also be possible to make the icons transparent so they don't
> obscure the ones underneath?
>

Great idea, John. It wud facilitate reading the WX data at each stn at the larger scale map sizes.

--
Bill Hays - w0omv email:billh@netins.net

---

561. Re: [APRSSIG:6617] Re: transparent icons

From: Mark Sproul <sproul@ap.org>
Date: Wed, 20 Nov 1996 12:10:45 -0500
To: aprssig@tapr.org
Message-ID: <v03007814aeb8eba10862@[165.1.27.20]>
Rendered body type: text/plain

>John B. Leonard, Jr wrote:
>>
>> Would it also be possible to make the icons transparent so they don't
>> obscure the ones underneath?
>>
>
>Great idea, John. It wud facilitate reading the WX data at each stn
>at the larger scale map sizes.
>

No it wouldnt, then you would see what was below. You can turn off Icons and just get small dots.

```
I have never seen "transparent ICONs", so I do not even know if it can be done.

Mark

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

562. Revise latest PCMaps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Nov 1996 12:29:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961120122403.20161D-100000@arctic>
Rendered body type: text/plain

```
On Wed, 20 Nov 1996, Bob Bruninga wrote:

This is the corrected latest list of maps that will be in the tapr.org
maps\PCMaps directory:

> almaps07.zip
> akmaps01.zip
> bamaps96.zip  Which is later this, or BajaMaps.zip?
> camaps06.zip
> eumaps02.zip
> flmaps02.zip
> gamaps06.zip
> ga06to07.zip
> gnwmap11.zip (greater NW replaces PacificNW pnw...)
> limaps.zip
> ilmaps2a.zip
> inmaps06.zip
> HIMAPS10.zip
> mamaps03.zip
> mdmaps06.zip
> mimaps01.zip
> msmaps03.zip
> NCMAPS1.ZIP
> nemaps01.zip
> ohmaps07.zip
> ONMAPS35.ZIP
> pamaps04.zip
> samaps02.zip
> TNMAPS04.ZIP
> txmaps01.zip
> ukmaps03.zip
> vamap08.zip

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

563. KILLER mail

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Wed, 20 Nov 1996 18:37:04 GMT
To: aprssig@tapr.org
Message-ID: <329e4f88.1214721@mail.mergetel.com>
Rendered body type: text/plain

```
Hi Sig..
here is info I sent John VE3NEC about the mailer

Hi John
just playing around and here is what I found
if I initiat a private email for you as in new email
without refering to the aprssig, it keeps the john.langtry
in lower case, but if I take a message from the sig and
reply but remove the aprssig.tapr.org from the to field
and replace it with john.langtry@resonet.com, when
the mailer sends it out it changes the lower case to
upper case in your name only.
When the aprssig receives mail from you, your address
shows in upper case JOHN.LANGTRY@resonet.com.
possibly it is their list server that does not like the
period in your name but not shure....
```

```
anyway this is just to inform you what I found.


73 de Ron                                     Best Regard
Email:  rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

---

564. Kantronics URL

From: Larry Griffin <largriff@swta.com>
Date: Wed, 20 Nov 1996 11:42:17 -0600
To: "'APRS SIG'" <aprssig@tapr.org>
Message-ID: <01BBD6D7.E2C69B40@red181.onramp.net>
Rendered body type: text/plain

```
Someone wrote:
>May I please have the URL for Kantronics?

Certainly!
http://www.kantronics.com/

Larry (the obvious is invisible) Griffin - AB5GE
```

---

565. Linux

From: Don Hilman <hilman@camosun.bc.ca>
Date: Wed, 20 Nov 1996 21:51:35 -0800
To: aprssig@tapr.org
Message-ID: <3293EDE7.3033@camosun.bc.ca>
Rendered body type: text/plain

```
Add four to the Linux list
VE7FBI , VE7CCD , VE7WAG , VE6ARS
```

---

566. Re: [APRSSIG:6614] Re: latest version of KPC-3

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Wed, 20 Nov 1996 11:08:15 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961120180815.0067d148@mailhost.primenet.com>
Rendered body type: text/plain

```
Here it is again, I am happy that it seemed tyo have helped.

                      http:// www.kantronics.com/index.html



At 10:38 AM 11/20/96 -0600, you wrote:
>
>> At 10:35 AM 11/19/96 -0600, Bill Northup wrote:
>> >After someone posted the web site for Kantronics I took a look to see
what the
>> >latest version of sw was for the KPC-3. It is 6.0N and one of the features
>> >listed is that they REMOVED GPS support.
>> >
>> >    Bill
>May I please have the URL for Kantronics?
>
>73 - Rich WB6EEE
>
>

Alan K. Unangst, WC7R
Phone: (520) 445-1465
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV
```

---

567. Re: [APRSSIG:6531] Re: Delorme Tripmaker GPS $125.

From: Jim Conrad <jjc@infi.net>
Date: Wed, 20 Nov 1996 16:22:21 -0500 (EST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19961120162312.3e77d23a@mailhost.infi.net>
Rendered body type: text/plain

```
At 10:18 PM 11/18/96 -0600, Dayglo wrote:
>>Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
>>good to be true.
>
>I saw this at my local CompUSA for $179 not $125.  The package stated that
>the software would only run with the included GPS receiver.  Either they are
```

```
>mistaken or have created a proprietary GPS receiver.

Computer City also is charging $179 for Tripmaker.

<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

568. Renaming of an APRS directory

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Wed, 20 Nov 1996 15:49:29 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aeb8ceb58c3b@[138.87.2.109]>
Rendered body type: text/plain

```
DOS versions of APRS are in: /tapr/SIG/aprssig/files/dosstuff/APRSdos/

now.  Sorry if you are inconvenienced for renaming your links.

The other areas are not changed.  That is:
Macintosh APRS - /tapr/SIG/aprssig/files/macstuff
Windows APRS   - /tapr/SIG/aprssig/files/winstuff
Garmin stuff   - /tapr/SIG/aprssig/files/garmin
etc.

You should look in those directories for the appropriate files.  The upload
directory will be just for that purpose.  The latest version uploaded will
be there.   If it is real fresh, you will find it in the upload directory.

Files without a <filename>.TXT will most certainly be gone the next time
you look.  For details about that reasoning, look at the header of the file
list.

I will be the one that will move the files to the related APRS area.  If
you have to, tell me how it is APRS related to give me an idea on where to
put it.  Give me a day or so to answer your e-mail.

Thank you for your time.



/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

569. (no subject)

From: (unknown sender)
Date: (date unavailable)
Message-ID: <2.2.32.19961120222015.0073c0c4@winning-edge.com>
Rendered body type: text/plain

```
Date: Wed, 20 Nov 1996 16:20:15 -0600
To: aprssig@tapr.org
From: "Larry P. Thomas WA0GWA" <lpthomas@winning-edge.com>
Subject: Delorme Tripmaker GPS $125 vs $179

Delorme sent out the offer to people in their database of know purchasers.
I've bought Map Expert and both versions of Map'N'Go in the past so I think
they are offering it discounted to previous buyer.  The offer does, however,
allow one to specify how many they wish to buy at the $125 price.  I'm sure
there is some limit and more than two or so would most likely generate
questions from Delorme as to entended use (like resale).

Concerning the use of software with only with the supplied tripmate, I don't
think that is accurate but I could be wrong.  The verdict is also still out
as to if the Tripmate can be used in any other NMEA driven software with
slight modification.

>>>Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
>>>good to be true.
>>
>>I saw this at my local CompUSA for $179 not $125.  The package stated that
>>the software would only run with the included GPS receiver.  Either they are
>>mistaken or have created a proprietary GPS receiver.
>
>Computer City also is charging $179 for Tripmaker.
-----------------------------------------------------------------------
```

```
 Larry P. Thomas wa0gwa              voice : 1 913 888-0282
 Krell Technologies                    fax : 1 913 782-9359
 8960 Bond                           pager : 1 816 989-HELP
 Overland Park, KS 66214-1764       e-mail : lpthomas@winning-edge.com
-----------------------------------------------------------------------
```

570. Tripmate, NMEA, etc.

From: "Larry P. Thomas WA0GWA" <lpthomas@winning-edge.com>
Date: Wed, 20 Nov 1996 17:09:48 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19961120230948.0070c490@winning-edge.com>
Rendered body type: text/plain

```
I cut the following from a post to a news group.  I don't generally follow
them and I thought other in this SIG might not either so here it is for what
it's worth.  It sounds to me as if the Tripmate might be very usable in aprs
with little modification.  The Init String required could be sent out before
running the aprs software if needed.  I don't know Bob's background but he
sounds like he knows what he is talking about.
-----------------------------------------------------------------------
From:       Bob Martin <martin@inmind.com>
Newsgroups: sci.geo.satellite-nav
Subject:    Delorme Tripmate GPS for SA 4.0
Date:       Wed, 20 Nov 1996 08:46:07 -0500


Bob Martin again....

   The basic Tripmate seems to be a Rockwell 12 channel setup
assembled by Trimble for DeLorme.

   Haven't BEEN to Europe lately, but I don't see why the
hardware won't work fine there.

   A simple NMEA message is sent to it to insert it's current
location, time, and startup data, after that it is no more or
less than a good NMEA module.  To keep the costs down, it
doesn't have non-volatile memory for certain things, and needs
to be spoon fed to upstart.

   DeLorme software does that without a lot of noise. SA4 is
great... If I had source in hand, I would change two teeeeny
details, but I am pretty pleased with it right now.

   Yes, it's ugly yellow, just put a bag over it's head.

   The battery life isn't all that bad.  It wouldn't take a
rocket scientist to power it from 12v.  My 7.5v Nicad pack
works great too.

   To buy anything that works better than SA4 and Tripmate, you
would have to spend a helluva lot of money....

   Bob
-----------------------------------------------------------------------
 Larry P. Thomas wa0gwa              voice : 1 913 888-0282
 Krell Technologies                    fax : 1 913 782-9359
 8960 Bond                           pager : 1 816 989-HELP
 Overland Park, KS 66214-1764       e-mail : lpthomas@winning-edge.com
-----------------------------------------------------------------------
```

571. Re: [APRSSIG:6577] More Killer Mail

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 20 Nov 1996 18:47:04
To: aprssig@tapr.org
Message-ID: <199611202348.SAA11244@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Tue, 19 Nov 1996 Roy Bost wrote:

>Look out it's back!  Message #6564 stopped my IE Mail program
>dead in its tracks.  It appears to be the same message from
>last week...a Delivery Report from the X400 Mail Gateway. Same
>individual is not getting his mail!

     which was followed by:
```

```
>From: Billing@gnn.com
>To: n2zrc@mail-e2b.gnn.com
>Subject:...


     I DON'T GET IT!  As far as I know I'm GETTING all of my
mail ... but I only received THIS one TODAY!  For the first
time!

     As to how and/or why it's being bounced to the SIG...???
I'm not doing it.  I don't know what's going on here.  Although
I don't THINK I'm responsible for it, I ask the SIG (since it
IS my mail) to accept my apology.

     Generally, when I get one of those X400 mail gateway thin-
gies, I automatically reach for the DEL button without reading
it.  I'll try to amend this situation in the future.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

572. AFSK freqs

From: Frank McJunkins <fmcjunki@cks.ssd.k12.wa.us>
Date: Wed, 20 Nov 1996 15:43:32 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.92.961120154153.11853A-100000@cks>
Rendered body type: text/plain

```
Ok, I have all this high tech literature here and the only (simple) answer
I can't seem to find is what the audio mark and space freqs are for 1200
and 9600 baud packet.  Will someone refresh my memory banks, please.

Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us
```

573. Re: [APRSSIG:6605] Question

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Wed, 20 Nov 1996 16:57:30 -0700
To: aprssig@tapr.org
Message-ID: <32939AE6.3CCD@goodnet.com>
Rendered body type: text/plain

```
What if you don't have any previous version. nada.
===========
New user question:
Can I download any aprsDOS upgrades from tapr.org and install it over my
current version?  I have 77b, I downloaded 77e.  Do I have to make any
other
changes to my config if I do this?

Scott Werling
N0XZY @ WA0RJT.#EIA.IA.USA.NOAM
scott@ia.net (home)
werling@dps.state.ia.us (work)

--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

574. aprs77d error code..

From: pete ouellette <pho@crocker.com>
Date: Wed, 09 Oct 1996 20:01:44 -0500
To: aprssig@tapr.org
Message-ID: <199611210059.TAA12141@rmc1.crocker.com>
Rendered body type: text/plain

```
I am trying to install/run aprs77d on a '386-16 spare computer but keep
getting the error "Ooops! ERR number 68     Hit enter to resume"   right
after it draws the USA map,  and then everything locks up.  Does anyone know
what this is or how to solve it?
  If I boot the program without my call and accept all the defaults, it runs
ok but does'nt talk to the TNC.
Thanks,
```

Peter N1AGV

---

575. Re: [APRSSIG:6610] Re: Unproto list in WinARPS 1.1.7

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 20 Nov 1996 17:06:10 -0800
To: aprssig@tapr.org
Message-ID: <199611210106.RAA15617@m1.sprynet.com>
Rendered body type: text/plain

We had a great visit (Kansas City users) with Keith Sproul on Monday evening over dinner! A couple of the programmer types showed up and soon the conversation was so far over my puny little head that I think I literally winked out!

Anyway, it's really great to have such super-brains as the Brothers Sproul out there, isn't it?!?!!?

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

576. Re: [APRSSIG:6618] Re: transparent icons

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 20 Nov 1996 17:11:15 -0800
To: aprssig@tapr.org
Message-ID: <199611210111.RAA16839@m1.sprynet.com>
Rendered body type: text/plain

At 11:14 11/20/96 -0600, you wrote:
>>John B. Leonard, Jr wrote:
>>>
>>> Would it also be possible to make the icons transparent so they don't
>>> obscure the ones underneath?
>>>
>>
>>Great idea, John. It wud facilitate reading the WX data at each stn
>>at the larger scale map sizes.
>>
>
>
>No it wouldnt, then you would see what was below. You can turn off Icons
>and just get small dots.
>
>I have never seen "transparent ICONs", so I do not even know if it can be done.
>
>Mark

If you're developing your icons with PaintBrush there IS a way to make the background "transparent". I'm not sure how to accomplish it, but it's a matter of turning some type of attribute for the bmp/gif file on/off...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

577. DF Jr

From: BordingK@aol.com
Date: Wed, 20 Nov 1996 20:22:46 -0500
To: aprssig@tapr.org
Message-ID: <961120202245_1217733929@emout08.mail.aol.com>
Rendered body type: text/plain

Anyone have the URL for the DF Jr Website? I've tried about everthing.!

Also, anyone unhappy with their? One of our clubs is considering it and will vote tomorrow night.

Please reply by direct EMAil to reduce SIG clutter, ThanksAll!

de KF4COH
Ken, Jax, FL

---

578. Re: APRS/Java ..

From: joefoor@digitalexp.com (Foor, Joe)
Date: Wed, 20 Nov 1996 19:36:16 -0600
To: aprssig@tapr.org
Message-ID: <19961121013610738.AAC172@dial-24.marianna.fl.digitalexp.com>
Rendered body type: text/plain

```
I seem to recall seeing a version of Netscape 3, for X-windows. Will
it run Java on a Linux system?

regards,
Joe kf4dys
```

579. Re: [APRSSIG:6634] DF Jr

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 20 Nov 1996 20:55:36 -0500
To: aprssig@tapr.org
Message-ID: <3293B698.30C2@global2000.net>
Rendered body type: text/plain

```
BordingK@aol.com wrote:
>
> Anyone have the URL for the DF Jr Website?  I've tried about everthing.!
>
> Also, anyone unhappy with their?  One of our clubs is considering it and will
> vote tomorrow night.
>
> Please reply by direct EMAil to reduce SIG clutter, ThanksAll!
>
> de KF4COH
> Ken, Jax, FL

Ken

Here it is    http://home.navisoft.com/agrelo/ae.htm

Hope this helps!

John N2OJY
```

580. APRS 7.5c USA.map

From: Rich Casey <casey@acm.org>
Date: Wed, 20 Nov 1996 20:13:47 -0500
To: aprssig@tapr.org
Message-ID: <3293ACCB.1491@acm.org>
Rendered body type: text/plain

```
Hi from Dallas:
  Just in the 3 weeks that I've been on APRS (and monitoring this sig),
I've seen activity in Texas picking up. We regularly see down to Houston
and San Antonio via VHF with a couple well placed WIDEs.
  Here's an easy question I'm sure, but one that I have searched for in
the docs to no avail. On my USA.mp, there is a line that runs up
CA, OR and WA, across Idaho down the midwest to just east of Dallas,
etc. on across the country.  I know it is for something but I sure can't
figure out what. Two part question-- what is it for, and how can I
toggle it off?
  Enjoying the sig and learning a lot...
   73, Rich/n5csu
--
Rich Casey, Dallas TX                | Member: ACM, ARRL, AMSAT
casey@acm.org                        | Ham Radio N5CSU
http://www.startext.net/homes/rcasey | Think globally, connect locally
```

581. Re: [APRSSIG:6626] Delorme Tripmaker GPS $125 vs $179

From: Jim Conrad <jjc@infi.net>
Date: Wed, 20 Nov 1996 22:32:00 -0500 (EST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19961120223300.3e8753e2@mailhost.infi.net>
Rendered body type: text/plain

```
At 04:21 PM 11/20/96 -0600, Larry P. Thomas WA0GWA wrote:
>Delorme sent out the offer to people in their database of know purchasers.
>I've bought Map Expert and both versions of Map'N'Go in the past so I think
>they are offering it discounted to previous buyer.  The offer does, however,
>allow one to specify how many they wish to buy at the $125 price.  I'm sure
>there is some limit and more than two or so would most likely generate
>questions from Delorme as to entended use (like resale).

Perhaps they're being selective on who gets the offer because I've also
```

```
purchased a number of their products including Map Expert and have not
received any offers.


<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

---

582. Re: [APRSSIG:6637] APRS 7.5c USA.map

From: dkaszubski@why.net (dkaszubski)
Date: Wed, 20 Nov 1996 21:36:01 -0800
To: aprssig@tapr.org
Message-ID: <3293EA41.1AEB@why.net>
Rendered body type: text/plain

```
Rich Casey wrote:
>
> Hi from Dallas:
>   Here's an easy question I'm sure, but one that I have searched for in
> the docs to no avail. On my USA.mp, there is a line that runs up
> CA, OR and WA, across Idaho down the midwest to just east of Dallas,
> etc. on across the country.  I know it is for something but I sure can't
> figure out what. Two part question-- what is it for, and how can I
> toggle it off?
>   Enjoying the sig and learning a lot...
>    73, Rich/n5csu
> --
> Rich Casey, Dallas TX                | Member: ACM, ARRL, AMSAT
> casey@acm.org                        | Ham Radio N5CSU
> http://www.startext.net/homes/rcasey | Think globally, connect locally

That line, if it's the one I'm thinking of, was the route of the Olympic
Torch caravan.  I believe 75c was the only version that had it shown on
the USA map.  Later (and earlier) versions of the program have a
different USA map that does not include the Torch Route.  Running a
newer version was the easiest way for me to eliminate it.  It was kinda
handy during the event as it came right through here!

Welcome to APRS in DFW!  Activity has really expanded around here in the
last few months but it's still not like it is in the NorthEast and other
places.  I guess we're just a little slow to jump on new ideas!  In
addition to the Wides, there is at least one Gate operating in Fort Worth
that you should see (if I can keep it on the air!!!) and a handful of
trackers that drive around for your viewing pleasure.

Keep in touch and Have FUN!

--
Dave Kaszubski      WB3FYV
dkaszubski@why.net     also:  ustuia6v@ibmmail.com
Benbrook, Texas  N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/
```

---

583. Re: [APRSSIG:6634] DF Jr

From: Ronald Armstrong <ronalda@sympatico.ca>
Date: Wed, 20 Nov 1996 22:38:55 -0800
To: aprssig@tapr.org
Message-ID: <3293F8FF.27F9@sympatico.ca>
Rendered body type: text/plain

```
BordingK@aol.com wrote:
>
> Anyone have the URL for the DF Jr Website?  I've tried about everthing.!
>
> Also, anyone unhappy with their?  One of our clubs is considering it and will
> vote tomorrow night.
>
> Please reply by direct EMAil to reduce SIG clutter, ThanksAll!
>
> de KF4COH
> Ken, Jax, FLyou can reach them at www.home.navisoft.com/agrelo/ae.htm
```

584. Digest mode

From: Dave Mar <74737.221@CompuServe.COM>
Date: 20 Nov 96 22:55:20 EST
To: APRSSIG <APRSSIG@tapr.org>
Message-ID: <961121035519_74737.221_EHL125-5@CompuServe.COM>
Rendered body type: text/plain

Help!

Can anyone tell me how to get this list service on digest mode?

Thanks,
dave

---

585. G45 data/pwr cable

From: smithal@ix.netcom.com (Arthur L. Smith)
Date: Wed, 20 Nov 1996 19:00:38 -0800
To: aprssig@tapr.org
Message-ID: <199611210300.TAA04749@dfw-ix12.ix.netcom.com>
Rendered body type: text/plain

One more time please!

I lost my GPS to computer cable, and lost the pinout to make another one!

I have the power hooked up, but not the data, on my new G45 cable.

The brown, serial data out, wire goes to which pin of the female DB9 connector?

The white, serial data in, wire goes to which pin of the female DB9 connector?

The black, ground wire which also is negative or ground on the 12 volt power line, goes to which pin of the female DB9 connector?

Please respond directly to SmithAL@ix.netcom.com

Art, KB1TX
the 24/7 RELAY on 145.79 @ N39□37'01.5"/W104□45'41.2"

---

586. Delorme Tripmate additional information.

From: "Eric A. Cottrell" <eac@shore.net>
Date: Wed, 20 Nov 1996 23:15:36 -0400
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <848549736-0-eac@shore.net>
Rendered body type: text/plain

Hello,

I received information on several sources that the Delorme Tripmate has proprietary firmware and there has been questions about the output of the Tripmate receiver.

At the present time the receiver can be used with Street Atlas 4.0 and Map'n'Go Version 2.0. It is also possible to use a terminal program and log the raw NMEA sentences to the Disk after sending the $IIGPQ,ASTRAL<cr><lf> string to the receiver.   If a NMEA display/logging program cannot sent the $IIGPQ string then it cannot be used. The bright side is that at least one person is working on a Display program using Basic that can use the receiver. It appears the only proprietary part is the need for sending the $IIGPQ string after powerup. All other output appears to be NMEA.

I found that the receiver will accept NMEA commands with or without checksums.

I got a interesting message from James Miller who has the "Jupiter" board. He mentions some strings to control the NMEA output messages and they work with a tripmate. Here is a few examples:

```
$PRWIILOG,RMC,V,,,<cr><lf>    Turn off GPRMC messages.
$PRWIILOG,RMC,A,,,<cr><lf>    Turn on GPRMC messages.
$PRWIILOG,RMC,A,T,10,0<cr><lf>    Turn on GPRMC messages
                                                       and output
every ten seconds.
```

I would only use the on and off commands as the receiver will remember

the settings if you change it and cycle the power. I found I can control
the messages GSV, ZCH, RMC, GGA and GSA (Just subsitute for RMC
in the above example) . This command will not force output if the
message is no valid (GSV with no almanac data). It just controls
how often the message is outputted when valid.

Also He gets a message on powerup of

$PRWIRID,12,01.03,04/04/96,0003

Which indicates: 12 = number of channels
01.03 = Version Number
04/04/96 = Version Date
0003 - Option List

My unit gives a string of:
$PRWIRID,12,01.05,07/29/96,0003

which at least indicates the same options list and later firmware.

Hopefully I will get the documentation from Rockwell soon and I can
try out some more commands on the receiver. Maybe with the pinout
I can figure out if 1 PPS and the second serial port can be used.

73 Eric eac@shore.net

587. Visiting So. California

From: "Ken Mirabella" <kjm@deltanet.com>
Date: Wed, 20 Nov 1996 20:16:13 -0800
To: <aprssig@tapr.org>
Message-ID: <199611210419.UAA10457@mail1.deltanet.com>
Rendered body type: text/plain

> From: Jim Duncan <ku0g@sprynet.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6632] Re: Unproto list in WinARPS 1.1.7
> Date: Wednesday, November 20, 1996 5:16 PM
>
> We had a great visit (Kansas City users) with Keith Sproul on Monday
evening
> over dinner! A couple of the programmer types showed up and soon the
> conversation was so far over my puny little head that I think I literally
> winked out!
>
> Anyway, it's really great to have such super-brains as the Brothers
Sproul
> out there, isn't it?!?!!?
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@kcaprs.com
> EMail: ku0g@sprynet.com

I agree - they (the Sprouls) & Bob are doing a great job for the ham
community.

We, in Orange County California would like to extend an invitation to the
Sprouls and Bob
for dinner with our group anytime they are in our area.

We too have a "few" professional programers and avid tech type builders out
here too.

I have enclosed a few url's for your review.

Ken, KM6YH
Orange County RACES

http://www.quicksilver.com/~rbarris/

http://www.kvoa.com/byon/

http://www.kvoa.com/byon/piccon/

http://www.kvoa.com/byon/thunt/racmanul.html

588. Re: [APRSSIG:6634] DF Jr

From: ddobbins@juno.com (David S Dobbins)
Date: Wed, 20 Nov 1996 21:22:30 PST
To: aprssig@tapr.org
Message-ID: <19961120.212432.4455.6.ddobbins@juno.com>
Rendered body type: text/plain

Someone else has replied with the web site for DFjr. I'll just add that
I'm quite happy with mine.

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com

---

589. Re: [APRSSIG:6631] aprs77d error code..

From: ddobbins@juno.com (David S Dobbins)
Date: Wed, 20 Nov 1996 21:19:17 PST
To: aprssig@tapr.org
Message-ID: <19961120.212432.4455.5.ddobbins@juno.com>
Rendered body type: text/plain

Don't forget when updating DOS APRS to unzip using the -d or -dn option.
I think the error code referred was caused by having all the maplists,
maps, other files in one common directory, not in their normal sub
directories.

Hope this helps.

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com

---

590. RE: [APRSSIG:6629] AFSK freqs

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 21 Nov 1996 07:17:59 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBD77C.215BC700@gwyn.paccomm.com>
Rendered body type: text/plain

On Wednesday, November 20, 1996 12:57 PM, Frank
McJunkins[SMTP:fmcjunki@cks.ssd.k12.wa.us] wrote:
>Ok, I have all this high tech literature here and the only (simple) answer
>I can't seem to find is what the audio mark and space freqs are for 1200
>and 9600 baud packet. Will someone refresh my memory banks, please.
>
>Frank McJunkins K7RSD fmcjunki@cks.ssd.k12.wa.us
>

1200 baud AFSK packet uses 1200 and 2200 HZ

9600 baud DFM (called FSK by some) uses a 4800 Hz center frequency and
'FMs' this between about 10 Hz and 9600 Hz. There are not any mark and
space tones (and that is why I counted the Direct FM - DFM) term back in
1988 so people wouldn't ask what the mark and space tones are, HI!)

An aside to the SIG: I have upgraded my MS Exchange with Service Pack 2. Do
my messages still have the dreaded WINMAIL.DAT attached?

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(@(,`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`'@```%)%.B!;05!24U-)1SHV-C(Y72!!1E-+(&9R97%S
M`%D(`06 `P`.````S <+`!4`!P`1`#L`! !*`0$@@ ,`#@```,P'"P`5``<`
M# `E``0`+P$!"8 !`"$````W034P0S4X138X-#-$,#$Q.#!$-3 P-# P-3(Y
```

```
M0D-$-P#R!@$#D 8`4 4``!0````+`",````````,`)@``````"P`I```````#
M`"X````````,`-@``````0 `Y`*#JN BFU[L!'@!P``$````>````4D4Z(%M!
M4%)34TE'.C8V,CE=($%&4TL@9G)E<7,`````"`7$``0```!8````!N]>F"*".
MQ5![0V@1T(#5`$ %*;S7```>`!X,`0````4```!33510``````!X``'PP!````
M$0```&=W>6Y <&%C8V]]M;2YC;VT``````P`&$&\ZOLD#``<0S0(``!X`"! !
M````90```$].5T5$3D531$%9+$Y/5D5-0D52,C L,3DY-C$R.C4W4$TL1E)!
M3DM-0TI53DM)3E-33510.D9-0TI53DM)0$-+4U-31$LQ,E=!55-74D]413I/
M2RQ)2$%614%,3%1(25-(24<````````@$)$ $````"_`P``NP,``%0&``!,6D9U
MB7)EI?\`"@$/`A4"I /D!>L"@P!0$P-4`@!C: K <V5T[C(&``;#`H,R`\8'
M$P*#QC,#Q0(`<')Q$B /_ZQF-!0W$;4P$W9]"H"+",\)V3L8KS(U-1G/\&4Q
M,C@"@ J!#;$+8&!N9S$P,Q0@"P-L>&DS-@WP"U42\@P!8ZD`0"!/`Z!7"8!N
M!Y 09&%Y+ >P;W9E&P;0!) @`= @`#$Y.0(V(. R.C4W(%!232 `1G(`<&L%
MT&,,2G4B$ N <UM334A44#H$4&-J(G) $&-K<RX$$&0N:P$<,"YW82YU<UU$
M('<#8'1E.@J$/K\+1A0B'M,2\!3 )1%C!4!D3VL@`$D@$< @0" S!T #('1H
M! `GP&EG?F@H4 60*. =P"4@(?!TFPAP* !H!) H`6YD*%%#* `"(&QY("@`
MD&WY"U!E*2I!`^ $D J$'A^N,26_)LDGL&,`<"<%0,<1\"!0*%!O(&8+@"IP
M'2B!=Q' !4 JDF%U9+9I,# `P'(B("I2<PJPYF,H``-097$$( K ,I'[!;$<
M,# *=2Q_+8\FNBI24R$0,[ @8C%A(#)A:[D2`"X@'V #$ ,@<P-P7F4"("@`
M&+ RL7,HX&UW*P``'@ 1@<BL`-Z B$'/K( `K86$1\"XSWS3O-?\/.U\\;SU_
M(=X@2S=2_%-$.& C/R1'/H\_GT"O?T3?'L5'CAV/'IDSDC>40>A&4TLWY2 D
ML >13$/E*E(R3%)(6@J$"H4W6/A$1DTK$"]P*# )@"'0/4T!8BL`.-(KD$VC
M82#T-#A.HGHO8 GP*7$RHUD*4&YC*P`J4B=0<'/V)RA4('!T*^ )\"@0!N!^
M=05 '2!2HC<74K X4%3[*@0IT6XE$"I!.>$QW# @_Q^A*Q J5##Q,*,K`"]1
M"&!S4P$J=$1I&+!!DE" +?]04BN0*7$P`#>@0\ PD .@^2#P.#@XP3?@.0`K
M823@_0A@;!^0+Z$[$"(@,-=8'X=9(C,1( !(22$I3OL^055!`) -L# 2*I)3
M2:1'.B>F=7 )P&$-L.<J<#G1!>%%>!&Q'0!>`:<I8"C@!F%V:3*!4%S"WR1@
M4% QH3GB!!!A94 $(-QS=#B2)],JDF08L&0S`%=)3DU!24PN>$1!5"@0`D `
MT"H`9#X_3OI.^@LW%C(!T"!'5'=Y`Z!2">!D'_%7<#%"14P*HV9!"%!M]S `
M9D)-<5)D,#&1!K!GL!<@4!20"K)H`D!P.B]T+W=PT"XR806@;J N"W%!3Q1]
M<C ``P`0$ `````#`!$0`````$ `!S! P_%(I=>[`4 `"#! P_%(I=>[`1X`
</0`!````!0```%)%.B ```````P`--/TW``!6@=>[
`
end
```

---

591. RE: [APRSSIG:6629] AFSK freqs

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 21 Nov 1996 08:05:02 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBD782.B39C35E0@gwyn.paccomm.com>
Rendered body type: text/plain

Word below 'counted' should be 'coined.' New spell checker got away from
me and changed it!

From: Gwyn Reedy[SMTP:gwyn@paccomm.com]
Sent: Thursday, November 21, 1996 7:17 AM
To: 'aprssig@tapr.org'
Subject: RE: [APRSSIG:6629] AFSK freqs

On Wednesday, November 20, 1996 12:57 PM, Frank
McJunkins[SMTP:fmcjunki@cks.ssd.k12.wa.us] wrote:
>Ok, I have all this high tech literature here and the only (simple) answer
>I can't seem to find is what the audio mark and space freqs are for 1200
>and 9600 baud packet. Will someone refresh my memory banks, please.
>
>Frank McJunkins K7RSD fmcjunki@cks.ssd.k12.wa.us
>

1200 baud AFSK packet uses 1200 and 2200 HZ

9600 baud DFM (called FSK by some) uses a 4800 Hz center frequency and
'FMs' this between about 10 Hz and 9600 Hz. There are not any mark and
space tones (and that is why I counted the Direct FM - DFM) term back in
1988 so people wouldn't ask what the mark and space tones are, HI!)

An aside to the SIG: I have upgraded my MS Exchange with Service Pack 2. Do
my messages still have the dreaded WINMAIL.DAT attached?

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

begin 600 WINMAIL.DAT

```
M>)\^(@0-`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`'@```%)%.B!;05!24U-)1SHV-C(Y72!!1E-+(&9R97%S
M`%D(`06 `P`.````S <+`!4`" `%``(`! `&`0$@@ ,`#@```,P'"P`5``@`
M! `&``0`"0$!"8 !`"$````X,34P0S4X138X-#-$,#$Q.#!$-3 P-# P-3(Y
M0D-$-P#C!@$#D 8`? 8``!0````+`",```````,`)@``````"P`I```````#
M`"X```````,`-@``````0 `Y`."O99NLU[L!'@!P``$````>````4D4Z(%M!
M4%)34TE'.C8V,CE=($%&4TL@9G)E<7,````"`7$``0```!L````!N]>F"*".
MQ5![0V@1T(#5`$ %*;S7``&<6-$`'@`># $````%````4TU44 `````>`!\,
M`0```!$```!G=WEN0'!A8V-O;6TN8V]M``````,`!A#U4,V_`P`'$- #```>
M``@0`0```&4```!73U)$0D5,3U=#3U5.5$5$4TA/54Q$0D5#3TE.141.15=3
M4$5,3$-(14-+15)'3U1!5T%914Y$0TA!3D=%1$E4+2TM+2TM+2TM+2TM+2TM
M+4923TTZ1U=93E)%14194TU44#I'``````(!"1 !````Z 0``.0$``"-"0``
M3%I&=<N:%'7_``H!#P(5`J0#Y 7K`H,`4!,#5 (`8V@*P'-E=&XR!@`&PP*#
M,@/%`@!PS')Q$B /_V8S`\8'$V4"@S05'V8U$P<1M3!=%89]"H (SPG9.QG?
M,80R.!K_93(U-0* !PJ!#;$+8&YG,3 S+Q4`"PH5`@P!8Q+@(%=A!;!D(&)E
M&7 'X"<-!:!U`C )@"<@<VB]"&!L($(@L@N "8 N(4!Y![-S<"!P`R 1L 60
M:Q$$D"!G;P5 87=AM'D@`U(@!X D`&X@0(<1L1XP"8 @:70A"H2#"H0*]&QI
M,3@P`M'@:2TQ-#0-\ S0)Y.Y"UDQ-@J@`V A$&,%0+XM*;<F-BAK## I-D8#
M81XZ"N$H;REQ#((@1W<*>0.@4@G@9'E;4Z!-5% Z9RYA0 JPHF,%H&UM+B_1
M72I?GRML!F ","R/+9I4: AP%'-D)# L![!O=F43!M CH3(Q-. Q.3E -B W
M.C$W%8!-,S!O*VQ4;S*?+9DG86,3D 00:6= `9 3D"X9!;!G)S:?,7UU8FHG
M*7$XKRV:4D4]X%M!`%!24U-)1SHV$#8R.5T5@$932_$D465Q<R7?)N$!P0M&
MUQ8R'Z0I)T\#H%<)@") 332N,#6U'! Z-3904"Y--. L0 !P:P708THU(/!K
M"X!S+O0$4&-J94?20". <RX$$")@:T4<$"XD("YU<T# =_4I0CH*A#X+1A+R
M'Z,`4.5$)VLTX$D@$< U("0`N2,A=&@$`$T@.L!H3;#?!9!.0";P(1!'4'0(
M<"'@OR-@3S$DXDW (> "(&PD0,HH`)!M"U!E*231`^!W!) [C$-_=$L?3"E-
M$&.]`' G!4 1\#4P3;!O)%!W"X E@00@=Q' !4!/\F'8=61I5A `P')'@"3B
M_R+P`- AX$$S) !/,0(0!<#_'! G,%%_4H]3GRDG).(U\#<G,"!05T$@+Z$C
MD'0NK2*05P,0`R!S`W!E`B#_(> 9X$$Q(6 DH"1 !X $8&YR)$!>`$=P<S3@
M4,%A_1'P+EF_6L];WRDF8;]BST=CWRNY1VL@2S= ($3_(I!(GTFG96]F?V>/
M9.]LS]]OBEEC7?1 XUY4($H0!Y'+<E,DXC)R8DA:08I=J?A$1DU0<%50(R E
M<4#R'F(D0%\R4/!SLV$@-/LG(730>B- ,F$CH4$R"E"L;F,D0"3B)W: <R%
M>TW#(&!T44 )\"0`!N!U_P5 'E!XLEUW>,!>L#1@3W/U3S%N(^)N8$%7O%8`
M10'_4'!/M%;15H,D0%4Q(.1/X]Q$:1G@+!)VD"UV8E#P?T[1))!>`". )9 #
MH#70./XX7R%>0%]@4,%*0"&"57)_87!'@%:W?B]_,ECQ-.!(Z$DA*74+07M1
M`) -L$]5\D_R0$)-!G5P"<!ASPVP($!@,07A17@E)$I IR6@3D &879I6&%0
M@M+?2<!V8%>!8$($$&$E8 0@W'-T7O)-,T_R9!G@BD,`5TE.34%)3"YX1$%4
M) `"0 #0(V!D]C]!BB8\,UW <$TI-BY8P33@5S%"14P*A8Q1[PA0+_",0W.!
M4HI 5W$&L+^-P#4P;"]#ER&0+8=L1W %($!H`D!P.B\O=_V:`"XOJ9)?;YN1
MSQ]E;WO?"H0+-Q=B`="3OTR4_Y8.+PJCF9^:I282?:7 `P`0$ `````#`!$0
M`````$ `!S#@COAYK->[`4 `"##@COAYK->[`1X`/0`!````!0```%)%.B `
-`````P`--/TW```#!=>[
`
end
```

592. Chicago area DFjr

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 21 Nov 1996 08:28:38 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961121142838.006aa8b0@tbcnet.com>
Rendered body type: text/plain

Anyone knowing the Chicago area contact having DFjr's to sell, please contact:
Roger Sellers
rseelers@snds.com

73

jbl

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

593. Re: [APRSSIG:6647] RE: AFSK freqs

From: Chris Dapples <ccdapple@wtp.net>
Date: Thu, 21 Nov 1996 07:41:31 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <9611211441.AA23686@wtpprod1.wtp.net>
Rendered body type: text/plain

```
Yes, it is still there.

Chris Dapples, KF7KN
ccdapple@wtp.net


>     From: gwyn@paccomm.com
>     Date: 11/21/96  6:21:40AM
>     To: aprssig
>     Subject: [APRSSIG:6647] RE: AFSK freqs
> <SNIP>
>
>     An aside to the SIG: I have upgraded my MS Exchange with
>     Service Pack 2. Do
>     my messages still have the dreaded WINMAIL.DAT attached?
>
>
>     Gwyn Reedy, W1BEL
>     PacComm Packet Radio Systems
>     http://www.paccomm.com
>
>
>
>
```

---

594. APRSdos files

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 09:56:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121095247.15118E-100000@arctic>
Rendered body type: text/plain

```
Now that I have direct access, I will be posting all of my new APRS stuff
directly into the following directory WITHOUT posting it first in UPLOAD.

So look for my original APRS distribution files in:

   tapr/SIG/aprssig/files/dosstuff/APRSdos


Notice that the last directory name changed from DOSaprs to APRSdos, so
change your links accordingly...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

595. Chicago area DFjr contact

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 21 Nov 1996 08:51:26 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961121145126.006be3d4@tbcnet.com>
Rendered body type: text/plain

```
Correction!!!!  Right address!!!!!

Anyone knowing the Chicago area contact having DFjr's to sell, please contact:
Roger Sellers
rsellers@snds.com

73

jbl
-------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

---

596. Re: [APRSSIG:6630] Re: Question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 10:04:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121100355.15118G-100000@arctic>
Rendered body type: text/plain

```
On Wed, 20 Nov 1996, David/Roxanne McCarthy wrote:

> What if you don't have any previous version. nada.
> ===========
> New user question:
> Can I download any aprsDOS upgrades from tapr.org and install it over my
> current version?  I have 77b, I downloaded 77e.  Do I have to make any
> other changes to my config if I do this?

APRSdos REPLY/COMMENT:  I will be posting APRS77e.zip today

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

597. Re: [APRSSIG:6648] RE: AFSK freqs

From: John M Domblewski <wendysue@global2000.net>
Date: Thu, 21 Nov 1996 10:02:52 -0500
To: aprssig@tapr.org
Message-ID: <32946F1C.50C9@global2000.net>
Rendered body type: text/plain

```
Gwyn Reedy wrote:
>
> Word below 'counted' should be 'coined.'  New spell checker got away from
> me and changed it!
>
> ----------
> From:   Gwyn Reedy[SMTP:gwyn@paccomm.com]
> Sent:   Thursday, November 21, 1996 7:17 AM
> To:     'aprssig@tapr.org'
> Subject:        RE: [APRSSIG:6629] AFSK freqs
>
> On Wednesday, November 20, 1996 12:57 PM, Frank
> McJunkins[SMTP:fmcjunki@cks.ssd.k12.wa.us] wrote:
> >Ok, I have all this high tech literature here and the only (simple) answer
> >I can't seem to find is what the audio mark and space freqs are for 1200
> >and 9600 baud packet.  Will someone refresh my memory banks, please.
> >
> >Frank McJunkins K7RSD  fmcjunki@cks.ssd.k12.wa.us
> >
>
> 1200 baud AFSK packet uses 1200 and 2200 HZ
>
> 9600 baud DFM (called FSK by some) uses a 4800 Hz center frequency and
> 'FMs' this between about 10 Hz and 9600 Hz. There are not any mark and
> space tones (and that is why I counted the Direct FM - DFM) term back in
> 1988 so people wouldn't ask what the mark and space tones are, HI!)
>
> An aside to the SIG: I have upgraded my MS Exchange with Service Pack 2. Do
> my messages still have the dreaded WINMAIL.DAT attached?
>
> Gwyn Reedy, W1BEL
> PacComm Packet Radio Systems
> http://www.paccomm.com
>
> Gwyn Reedy, W1BEL
> PacComm Packet Radio Systems
> http://www.paccomm.com
>
> begin 600 WINMAIL.DAT
> M>)\^(@0-`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
> M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
> MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
> M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
> M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
> M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
> M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
> M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
> M``````(1+@$$@ $`'@```%)%.B!;05!24U-)1SHV-C(Y72!!1E-+(&9R97%S
> M`%D(`06 `P`.````S <+`!4`" `%``(`! `&`0$@@ ,`#@```,P'"P`5``@`
> M! `&``0`"0$!"8 !`"$````X,34P0S4X138X-#-$,#$Q.#!$-3 P-# P-3(Y
> M0D-$-P#C!@$#D 8`? 8``!0````+`",```````,`)@``````"P`I```````#
> M`"X```````,`-@``````0 `Y`."O99NLU[L!'@!P``$````>````4D4Z(%M!
> M4%)34TE'.C8V,CE=($%&4TL@9G)E<7,````"`7$``0```!L````!N]>F"*".
> MQ5![0V@1T(#5`$ %*;S7``&<6-$`'@`># $````%````4TU44 `````>`!\,
> M`0```!$```!G=WEN0'!A8V-O;6TN8V]M``````,`!A#U4,V_`P`'$- #```>
> M``@0`0```&4```!73U)$0D5,3U=#3U5.5$5$4TA/54Q$0D5#3TE.141.15=3
> M4$5,3$-(14-+15)'3U1!5T%91E)/34U%04Y$0TA!3D=%1$E4+2TM+2TM+2TM
> M+4923TTZ1U=93E)%14194TU44#I'``````(!"1 !````Z 0``.0$``"-"0``
> M3%I&=<N:%'7_``H!#P(5`J0#Y 7K`H,`4!,#5 (`8V@*P'-E=&XR!@`&PP*#
> M,@/%`@!PS')Q$B /_V8S`\8'$V4"@S05'V8U$P<1M3!=%89]"H (SPG9.QG?
> M,80R.!K_93(U-0* !PJ!#;$+8&YG,3 S+Q4`"PH5`@P!8Q+@(%=A!;!D(&)E
> M&7 'X"<-!:!U`C )@"<@<VB]"&!L($(@L@N "8 N(4!Y![-S<"!P`R 1L 60
```

```
> M:Q$$D"!G;P5 87=AM'D@`U(@!X D`&X@0(<1L1XP"8 @:70A"H2#"H0*]&QI
> M,3@P`M'@:2TQ-#0-\ S0)Y.Y"UDQ-@J@`V A$&,%0+XM*;<F-BAK## I-D8#
> M81XZ"N$H;REQ#((@1W<*>0.@4@G@9'E;4Z!-5% Z9RYA0 JPHF,%H&UM+B_1
> M72I?GRML!F ","R/+9I4: AP%'-D)# L![!O=F43!M CH3(Q-. Q.3E -B W
> M.C$W%8!-,S!O*VQ4;S*?+9DG86,3D 00:6= `9 3D"X9!;!G)S:?,7UU8FHG
> M*7$XKRV:4D4]X%M!`%!24U-)1SHV$#8R.5T5@$932_$D465Q<R7?)N$!P0M&
> MUQ8R'Z0I)T\#H%<)@") 332N,#6U'! Z-3904"Y--. L0 !P:P708THU(/!K
> M"X!S+O0$4&-J94?20". <RX$$")@:T4<$"XD("YU<T# =_4I0CH*A#X+1A+R
> M'Z,`4.5$)VLTX$D@$< U("0`N2,A=&@$`$T@.L!H3;#?!9!.0";P(1!'4'0(
> M<"'@OR-@3S$DXDW (> "(&PD0,HH`)!M"U!E*231`^!W!) [C$-_=$L?3"E-
> M$&.]`' G!4 1\#4P3;!O)%!W"X E@00@=Q' !4!/\F'8=61I5A `P')'@"3B
> M_R+P`- AX$$S) !/,0(0!<#_'! G,%%_4H]3GRDG).(U\#<G,"!05T$@+Z$C
> MD'0NK2*05P,0`R!S`W!E`B#_(> 9X$$Q(6 DH"1 !X $8&YR)$!>`$=P<S3@
> M4,%A_1'P+EF_6L];WRDF8;]BST=CWRNY1VL@2S= ($3_(I!(GTFG96]F?V>/
> M9.]LS]]OBEEC7?1 XUY4($H0!Y'+<E,DXC)R8DA:08I=J?A$1DU0<%50(R E
> M<4#R'F(D0%\R4/!SLV$@-/LG(730>B- ,F$CH4$R"E"L;F,D0"3B)W: <R%
> M>TW#(&!T44 )\"0`!N!U_P5 'E!XLEUW>,!>L#1@3W/U3S%N(^)N8$%7O%8`
> M10'_4'!/M%;15H,D0%4Q(.1/X]Q$:1G@+!)VD"UV8E#P?T[1))!>`". )9 #
> MH#70./XX7R%>0%]@4,%*0"&"57)_87!'@%:W?B]_,ECQ-.!(Z$DA*74+07M1
> M`) -L$]5\D_R0$)-!G5P"<!ASPVP($!@,07A17@E)$I IR6@3D &879I6&%0
> M@M+?2<!V8%>!8$($$&$E8 0@W'-T7O)-,T_R9!G@BD,`5TE.34%)3"YX1$%4
> M) `"0 #0(V!D]C]!BB8\,UW <$TI-BY8P33@5S%"14P*A8Q1[PA0+_",0W.!
> M4HI 5W$&L+^-P#4P;"]#ER&0+8=L1W %($!H`D!P.B\O=_V:`"XOJ9)?;YN1
> MSQ]E;WO?"H0+-Q=B`="3OTR4_Y8.+PJCF9^:I282?:7 `P`0$ `````#`!$0
> M`````$ `!S#@COAYK->[`4 `"##@COAYK->[`1X`/0`!`````!0```%)%.B `
> -`````P`--/TW```#!=>[
> `
> end
```

Yes

John

---

598. Re: [APRSSIG:6631] aprs77d error code..

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 10:07:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121100456.15118H-100000@arctic>
Rendered body type: text/plain

On Wed, 20 Nov 1996, pete ouellette wrote:

```
>    I am trying to install/run aprs77d on a '386-16 spare computer but keep
> getting the error "Ooops! ERR number 68     Hit enter to resume"   right
> after it draws the USA map,  and then everything locks up.  Does anyone know
> what this is or how to solve it?
```

APRSdos REPLY/COMMENT: That is DEVICE NOT AVAILBLE. IE, your COMM port!
It is a MICROSOFT bullet. Whatever they do when they boot to windows
makes your COMM port disappear to QBasic! And they wrote QBasic!

You can prove that it is their fault. SImply write the following one line
QBasic program: OPEN "COM1:9600,n,8,1" as #1

and you will get the error!

The only way around it is to boot directly to DOS. Dont let Windows
run...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

599. HID setting

From: Mike Heskett <mheskett@startext.net>
Date: Thu, 21 Nov 1996 09:06:48 -0600
To: aprssig@tapr.org
Message-ID: <32947008.1DD4@mail.startext.net>
Rendered body type: text/plain

Bob Bruninga wrote:

```
>
> On Tue, 19 Nov 1996 JOHN.LANGTRY@resonet.com wrote:
>
> >  So please, unless there is a U.S. law that requires
> > an Ident other than that provided by APRS, TURN YOUR HID OFF.
>
> APRSdos REPLY/COMMENT:  I agree completely!  If you have special SSID's
> put those in your STATUS beacon.  I think i'll put HID OFF in the init
```

> files...
>
>

I think this topic was discussed about a year ago. It seems to me that HID should be on to provide the proper/legal identification of a station. If your position and beacon have decayed to more than 10 minutes and your station is being used to digipeat as one of the generic aliases (Relay - Wide), then your station might not transmit proper identification without HID ON. When you digipeat as a "relay" or "wide" your callsign is not transmitted as part of that digipeated packet.

```
==/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
Mike Heskett    email   mheskett@startext.net
WB5QLD          packet  WB5QLD@WO5H.#DFW.TX.USA.NOAM
Hurst, TX
O-
```

600. Re: [APRSSIG:6643] Delorme Tripmate additional information.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 10:14:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121101402.15118J-100000@arctic>
Rendered body type: text/plain

Sounds like if there are enough of these GPS units out there, that it would be easy to add the INIT string to APRS.

Do I send it once, or everytime I need a new NMEA posit?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

601. Tripmates as stand-alone APRS trackers

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 10:19:37 -0500 (EST)
To: "Eric A. Cottrell" <eac@shore.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121101736.15118K-100000@arctic>
Rendered body type: text/plain

On Wed, 20 Nov 1996, Eric A. Cottrell wrote:

> At the present time the receiver can be used with Street Atlas 4.0 and
> Map'n'Go Version 2.0. It is also possible to use a terminal program and
> log the raw NMEA sentences to the Disk after sending the
> $IIGPQ,ASTRAL<cr><lf> string to the receiver.   If a NMEA

APRSdos REPLY/COMMENT: SOunds like a perfect APRS stand-alone tracker, since all of the Packet TNC's with GPS code support an INIT string so that the TNC can send the $IIGPQ... itself! ANyone done this yet?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

602. APRS Mic-E in use!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 10:25:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121102405.15118M-110000@arctic>
Rendered body type: text/plain

I botched the attached message. Lemme try again.

603. Delorme Tripmate Contact Point

From: "Eric A. Cottrell" <eac@shore.net>
Date: Thu, 21 Nov 1996 10:33:20 -0500 (EST)
To: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <199611211533.KAA23972@northshore.shore.net>
Rendered body type: text/plain

Hello,

I am currently collecting information and experimenting with the Delorme Tripmate. I am willing to help anyone wanting more information on hooking this unit up as this unit is different from other Rockwell Products.

I can be reached at eac@shore.net -or- wb1hbu@amsat.org.

73 Eric WB1HBU eac@shore.net

604. VHF to HF

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Thu, 21 Nov 1996 08:37:50 -0700
To: aprssig@tapr.org
Message-ID: <3294774D.75C2@goodnet.com>
Rendered body type: text/plain

I am trying to explain to someone new to APRS. Please tell me again.
What is the problem with sending BEACONS and POSITS from VHF through a
local GATE out to HF? Setting Unproto path to RELAY,WIDE,GATE etc...

Thank you in advance for your clarification.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord." Jos 24:15

605. Re: latest version of KPC-3

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Thu, 21 Nov 1996 09:07:58 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961121090800.1fc7f32c@mailhost.primenet.com>
Rendered body type: text/plain

At 10:38 AM 11/20/96 -0600, rbeckett@schwab.com wrote:
>
>May I please have the URL for Kantronics?
>
>73 - Rich WB6EEE
>
>

Yes, but in the time we used to respond to this you coulda just as easily
used a search engine.

www.kantronics.com (go figure)

And BTW, the Firmware version 6.0N mentioned is a special order item for
node ops. Kantronics continues support for GPS in ALL of their standard TNC's.

73,

Mark
KC7BXS

606. Re: [APRSSIG:6656] HID setting

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Thu, 21 Nov 1996 17:33:43 GMT
To: aprssig@tapr.org
Message-ID: <329591d1.3289128@mail.mergetel.com>
Rendered body type: text/plain

On Thu, 21 Nov 1996 09:21:13 -0600 (CST), you wrote:

> If your position and beacon have decayed to more than 10
>minutes and your station is being used to digipeat as one of the generic
>aliases (Relay - Wide), then your station might not transmit proper
>identification without HID ON. When you digipeat as a "relay" or "wide"
>your callsign is not transmitted as part of that digipeated packet.
>
>==/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
>Mike Heskett   email   mheskett@startext.net
>WB5QLD   packet WB5QLD@WO5H.#DFW.TX.USA.NOAM
>Hurst, TX

I dont think this would apply as it would be the same as a voice
repeater and they only are required to be identified when in use,
you don't hear voice repeater's identify every 10 minutes if they are
not in use.

73 de Ron   Best Regard
Email: rkramer@mergetel.com   ve3mx@mergetel.com

Packet: ve3mx@ve3snp

607. KAM Plus

From: rkramer@merge1.mergetel.com (Ronald Kramer)
Date: Thu, 21 Nov 1996 17:44:17 GMT
To: aprssig@tapr.org
Message-ID: <32969412.3865951@mail.mergetel.com>
Rendered body type: text/plain

```
Bob is it possible to change the hf select switch chr
in APRS for the Kam plus.
The default chr is $7E which is the ~ chr
If I send out my http address in a bulletin
the ~ chr is missing at the receiving station.
such as my aprs homepage
http://www.mergetel.com/~rkramer
when received by another aprs station comes out
as :
http://www/mergetel.com/kramer
missing the ~r
Thanks for your help

73 de Ron                                    Best Regard
Email:  rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

608. Re: [APRSSIG:6664] KAM Plus

From: Mark Sproul <sproul@ap.org>
Date: Thu, 21 Nov 1996 12:21:09 -0500
To: aprssig@tapr.org
Message-ID: <v0300780caeba3fbec8cd@[165.1.27.20]>
Rendered body type: text/plain

```
>If I send out my http address in a bulletin
>the ~ chr is missing at the receiving station.
>such as my aprs homepage


This type of use is not what the bulletin is for, thats what the ID or
BEACON string is for.
```

609. Re: [APRSSIG:6664] KAM Plus

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Nov 1996 12:54:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961121125346.20119D-100000@arctic>
Rendered body type: text/plain

```
On Thu, 21 Nov 1996, Ronald Kramer wrote:

> Bob is it possible to change the hf select switch chr
> in APRS for the Kam plus.
> The default chr is $7E which is the ~ chr

Send out the PASS character before it and it should go through...

PASS is ctrl-V...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

610. REQ:Info. On Low Priced GPS

From: "Jamie R. Dean" <ke4htm@bluenet.net>
Date: Thu, 21 Nov 1996 13:18:34 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961121181834.0069a29c@bluenet.net>
Rendered body type: text/plain

```
I'm looking for a low price (Around $150 to $250) that has a data port so I
can hook it to my KPC-3 to do APRS. I've looked at a few around $140 to $200
and they lack the data port. Any one have some Ideas??

                                          tnx,
                                         Jamie - KE4HTM


Visit The Western NC APRS & Ham Radio Home Page
http://www.bluenet.net/ke4htm
```

----

611. Re: [APRSSIG:6663] Re: HID setting

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 21 Nov 96 13:56:41 -0500
To: <aprssig@tapr.org>
Message-ID: <199611211856.NAA22477@newworld.bridge.net>
Rendered body type: text/plain

>I dont think this would apply as it would be the same as a voice
>repeater and they only are required to be identified when in use,
>you don't hear voice repeater's identify every 10 minutes if they are
>not in use.
>

HID only identifies following a digipeated transmission, just as a
repeater. It is needed unless you have a beacon, containing your call,
that is sent every 10 minutes. Annoying, yes, but needed for legality.

Steve K4HG

612. bamaps96.zip

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Thu, 21 Nov 1996 14:31:25 -0500
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <2.2.32.19961121193125.00c0c310@cassatt>
Rendered body type: text/plain

Bob, and all,

bamaps96.zip is really maps for the 1996 BAA Boston Marathon, which are
more detailed for the Marathon course than the mamaps03.zip. They were
generated by W1KRU for this years event. I uploaded them before the standard
of sending a text file with it was implemented. They aren't baja maps at all.

-Tom Kinahan N1CPE

WB4APR sed:

>This is the corrected latest list of maps that will be in the tapr.org
>maps\PCMaps directory:

> bamaps96.zip Which is later this, or BajaMaps.zip?

```
----------------------------------------------------------------------
Tom Kinahan                     Phone:          508-871-0305
US Robotics                     Fax:            508-366-3626
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

613. Re: [APRSSIG:6643] Delorme Tripmate additional information.

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Thu, 21 Nov 1996 12:43:32 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961121124341.1c6f1bb8@mailhost.primenet.com>
Rendered body type: text/plain

At 10:12 PM 11/20/96 -0600, Eric A. Cottrell wrote:

>At the present time the receiver can be used with Street Atlas 4.0 and
>Map'n'Go Version 2.0. It is also possible to use a terminal program and
>log the raw NMEA sentences to the Disk after sending the
>$IIGPQ,ASTRAL<cr><lf> string to the receiver.   If a NMEA
>display/logging program cannot sent the $IIGPQ string then it cannot
>be used. The bright side is that at least one person is working on a
>Display program using Basic that can use the receiver. It appears the
>only proprietary part is the need for sending the $IIGPQ string after
>powerup. All other output appears to be NMEA.
>
>

Not a problem with the KPC-3, I think, as it can send a GPSINIT string.

Can anyone else confirm that? I'd have to dig up my supplemental manual.

Mark

KC7BXS

---

614. Re: [APRSSIG:6665] Re: KAM Plus

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 21 Nov 96 15:00:54 -0500
To: <aprssig@tapr.org>
Message-ID: <199611212000.PAA28801@newworld.bridge.net>
Rendered body type: text/plain

```
>>If I send out my http address in a bulletin
>>the ~ chr is missing at the receiving station.
>>such as my aprs homepage
>
You need to send a cntrl-v before the ~ character...that tells the tnc
not to treat the next character as anything special, just pass it thru.

Steve K4HG
```

---

615. Re: [APRSSIG:6669] bamaps96.zip

From: rbeckett@Schwab.COM
Date: Thu, 21 Nov 1996 12:42:06 +0000
To: aprssig@tapr.org
Message-ID: <9611212041.AA01835@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

```
> WB4APR sed:
>
> >This is the corrected latest list of maps that will be in the tapr.org
> >maps\PCMaps directory:
>
> > bamaps96.zip  Which is later this, or BajaMaps.zip?
I would be interested in any maps of Baja and/or the West coast of
Mexico. I looked for BajaMaps.zip  and couln't find it in PCMaps.

Thanks,

Rich WB6EEE
```

---

616. Re: [APRSSIG:6641] Digest mode

From: stanzepa@usa.nai.net (stan horzepa)
Date: Thu, 21 Nov 1996 16:11:35 -0500
To: aprssig@tapr.org
Message-ID: <v01540b01aeba7498f532@[206.98.48.227]>
Rendered body type: text/plain

```
>Help!
>
>Can anyone tell me how to get this list service on digest mode?
>
>Thanks,
>dave

If you would like to change to digest mode, send a message to
listserv@tapr.org containing only the following line:

set APRSSIG mail digest
```

---

617. Re: [APRSSIG:6477] Return address?

From: schiers@ames.net
Date: Sun, 17 Nov 96 12:21:39 -0500
To: aprssig@tapr.org
Message-ID: <199611212138.PAA23938@tapr.org>
Rendered body type: text/plain

```
In <891479@bbs.ames.net>, on 11/17/96 at 10:25 AM,
   aprssig@tapr.org said:

>Since other people echoed Roger's complaint...

>Some e-mail software allows you to show either an abbreviated version  of
>the message header, or the whole thing. If you show the entire  message
>header, you will see the address of the originator.

WRONG! WRONG! WRONG! (at least in the cases we are trying to discuss)


Not to beat a dead horse, but please READ, COMPREHEND!
```

The problem some of us are having has ABSOLUTELY NOTHING
to do with our mailer software. The ISP (internet service
provider) software is STRIPPING the headers, so there is
no way to find out who the originator is. We have no
control over this, other than screaming at our ISP, which
several of us are doing. In the mean time is it too much
to ask that people place their email address in the body/
signature of their messages?

Because if it is, then a lot of mail that could reply
privately will continue to go to the sig. Not because the
people are incompetent or their software doesn't work right,
but simply because the ISP's software is stripping the
headers. I am told there are several ISP software packages
that are KNOWN to do this. At least my ISP is committed to
changing software, but it's going to be weeks if not months,
and other providers may not choose to worry about it.

End of Thread (we can only hope)

73,

hasan schiers, N0AN
----
schiers@ames.net
----

618. Re: [APRSSIG:6481] RE: Return address?

From: schiers@ames.net
Date: Sun, 17 Nov 96 12:13:56 -0500
To: aprssig@tapr.org
Message-ID: <199611212138.PAA23961@tapr.org>
Rendered body type: text/plain

In <891534@bbs.ames.net>, on 11/17/96 at 11:28 AM,
aprssig@tapr.org said:

>I have no problem finding private return address.

You would if your ISP was STRIPPING THEM...and that is
exactly what some of us are having trouble with. The
software is working perfectly (I am using OS/2), but
my ISP is killing the darn headers. He knows it and is
going to upgrade his ISP software...but not for a few
months. Not all ISP's will be so responsive, so again,
I PLEAD, please put your email address in the body/
signature of your message to allow us to reply privately.

73,

hasan schiers, N0AN
----
schiers@ames.net
----

619. Re: [TAPR-SYS:592] DIGEST Mode on Web Page Now

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Thu, 21 Nov 1996 16:50:10 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aeba3897938d@[138.87.2.109]>
Rendered body type: text/plain

For your convenience -
http://www.tapr.org/tapr/html/sigs.html
page now supports a section for turning digest mode on and off for each list.

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

620. Re: [APRSSIG:6667] REQ:Info. On Low Priced GPS

From: dkaszubski@why.net (dkaszubski)
Date: Thu, 21 Nov 1996 17:00:19 -0800
To: aprssig@tapr.org
Message-ID: <3294FB23.17E3@why.net>

Rendered body type: text/plain

```
Jamie R. Dean wrote:
>
> I'm looking for a low price (Around $150 to $250) that has a data port so I
> can hook it to my KPC-3 to do APRS. I've looked at a few around $140 to $200
> and they lack the data port. Any one have some Ideas??
>
>                                       tnx,
>                                      Jamie -
KE4HTM-----------------------------------------------------------------------
West Marine is selling the Garmin GPS 38 for $149.95.  It is supposed to
be the Garmin 45 with a patch antenna built in, no BNC antenna connector,
but it does have a NEMA Data port.  The power requirements are not as
flexible as the 45, but they do sell a 12 volt power cable seperately.
1-800-538-0775.
There should be a way to break into the case and put an antenna
connection on the circuit board to add your own BNC.  Anyone tried this
yet?  We Ham's think nothing of performing microsurgery on a $500 Dual
Band Handheld to expand coverage, but shy away from this.  So, you lose
the nitrogen charge that makes it waterproof, but you're gonna keep it
inside where you can see it anyway, aren't you???

Just a thought, I already have a Garmin 45...

--
Dave Kaszubski      WB3FYV
dkaszubski@why.net     also:  ustuia6v@ibmmail.com
Benbrook, Texas  N 32 40.319'   W 097 26.844'

President of the   Texas Utilities Amateur Radio Club,
                        Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/
```

621. Re: [APRSSIG:6656] HID setting

From: Jim Duncan <ku0g@sprynet.com>
Date: Thu, 21 Nov 1996 15:03:13 -0800
To: aprssig@tapr.org
Message-ID: <199611212303.PAA29014@m1.sprynet.com>
Rendered body type: text/plain

```
It would seem to me that the ONLY stations needing to use HID are the actual
dedicated digipeaters (unmanned stations).  We routinely tell all of the
users in KC to turn HID Off...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

622. Re: [APRSSIG:6663] Re: HID setting

From: "Sam Nabkey, K8SN" <snabkey@k8sn.org>
Date: Thu, 21 Nov 1996 18:28:07 -0400
To: aprssig@tapr.org
Message-ID: <199611212329.RAA28732@tapr.org>
Rendered body type: text/plain

```
On 21 Nov 96 at 10:35, Ronald Kramer wrote:

> I dont think this would apply as it would be the same as a voice
> repeater and they only are required to be identified when in use,
> you don't hear voice repeater's identify every 10 minutes if they
> are not in use.
>
> 73 de Ron                                    Best Regard
> Email:  rkramer@mergetel.com      ve3mx@mergetel.com
> Packet: ve3mx@ve3snp
>

I think the HID needs to be on.  APRS cannot tell what the devil the
TNC is doing ( as far as it being used as a digipeater. ) so the fact
that some one digis throught the Station requires the Transmitter to
ID since it was on the air.  APRS will degrade into Beaconing very
little even thought someone is digi'ing through the station.

I would keep HID on.
```

____

Sam Nabkey - K8SN (at home)
Internet: snabkey@k8sn.org
amprnet: k8sn@w8dc.ampr.org
WWW: http://www.k8sn.org
AX.25: K8SN@W8DC.#SWMI.MI.USA.NOAM
Java APRS: http://www.k8sn.org/javAPRS
Fresh APRS Files: FTP ftp.k8sn.org

623. Re: [APRSSIG:6539] AEA out of business

From: n2czf@magg.net
Date: Thu, 21 Nov 1996 19:55:20 -0500
To: aprssig@tapr.org
Message-ID: <199611220055.TAA17810@grumpy.magg.net>
Rendered body type: text/plain

I had heard rumore of this one or two months ago from a industry insider. My
co-worker could also not get a PK-232 replaced 4 months ago (insurance
replacement after zeus zapped it!) and was given a DSP-12 instead.

>A.E.A. Out of Business. According to numerous reports A.E.A. has
>suspended business operations and its employees laid off.
>--
>Rick Szpyrka   WB8TIF
>Bloomfield Hills, MI USA
>Email: wb8tif@cris.com or wb8tif@amsat.org
>URL: http://www.concentric.net/~wb8tif
>
>

624. Re: [APRSSIG:6577] More Killer Mail

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Thu, 21 Nov 1996 19:33:54 -0800
To: aprssig@tapr.org
Message-ID: <32951F22.6094@n-link.com>
Rendered body type: text/plain

Roy Bost wrote:
>
> Look out it's back! Message #6564 stopped my IE Mail program dead in its
> tracks.
> It appears to be the same message from last week...a Delivery Report from
> the X400 Mail Gateway. Same individual is not getting his mail! Running a
> back-up Mail program has sure saved a lot of grief!!! :-)
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W
Yes, Mine just choked had to delete a bunch of repeated messages..
Tommy
--
CUSTOM MUGS, 13 Dana drive, Lampasas Tx 76550-1113
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691   This is also a FAX Request line:)
We Print your Color Photos onto coffee mugs.... Check us out.

625. MAPFIX28

From: jud <judlynn@norfolk.infi.net>
Date: Thu, 21 Nov 1996 21:36:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611220236.VAA09630@mh004.infi.net>
Rendered body type: text/plain

Thanks to the help from this SIG I can now add roads to existing maps using
Edit and New commands. I have a map now however that is giving me a problem.
It is surrounded in a large yellow square with a small yellow circle in the
upper left hand corner of the square. There is a green point in this circle.
When I add a new road using Edit, New, enter name and color, Edit, Add and
then Save, the road turns gray and a gray line shoots up to the circle in
the corner. The road turns gray no matter what color I use for the road.
How do I delete the little yellow circle and green point in the corner? Any
help would be greatly appreciated. 73, Jud

```
                                  ))(((((
                                  )_   _(
                                  [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

---

626. test msg

From: david.kerr@projectx.com (DAVID KERR)
Date: Thu, 21 Nov 96 21:29:00 -5
To: aprssig@tapr.org
Message-ID: <8CCA509.000100A18D.uuout@projectx.com>
Rendered body type: text/plain

Had a report that the dot in my address and /or john.langtry may cause
problems on some systems. Have been using this address for years so
better check with your sysop. My alternate address is ve3fgk@projectx.com
is it does cause problems.
Try javAPRS Ontario at http://www.peel.com/aprs to see live aprs activity
on 144.390 (Canadian National APRS frequency). Updated every 15 minutes to
a maximum of 24 hours. Yes u do need Windows95 or equiv to see it.
73 de Dave, ve3fgk.

---

627. Re: [APRSSIG:6677] Re: REQ:Info. On Low Priced GPS

From: David Wells <davew@cruzio.com>
Date: Thu, 21 Nov 1996 21:23:43 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9611211923.aa04481@bbs.cruzio.com>
Rendered body type: text/plain

> So, you lose
>the nitrogen charge that makes it waterproof, but you're gonna keep it
>inside where you can see it anyway, aren't you???
>

A common misconception. There is no nitrogen charge. The final assy step is
to put it in a chamber, evacuate the air and replace it with nitrogen. It is
then removed from the chamber and a screw is sealed into the case. This
procedure is called Marketing.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA

---

628. Re: [APRSSIG:6635] Re: APRS/Java ..

From: "Aaron Morrison" <ae4ko@magicnet.net>
Date: Thu, 21 Nov 1996 23:12:07 -4
To: aprssig@tapr.org
Message-ID: <199611220412.XAA17940@magicnet.magicnet.net>
Rendered body type: text/plain

```
> Date:          Wed, 20 Nov 1996 19:46:12 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          joefoor@digitalexp.com (Foor, Joe)
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:6635] Re: APRS/Java  ..
```

> I seem to recall seeing a version of Netscape 3, for X-windows. Will
> it run Java on a Linux system?
>
> regards,
> Joe kf4dys

It should. (Haven't looked lately to remember 100%), Java was running
on unix long before any other platform (namely the HotJava browser
from Sun).

73
--
ae4ko@magicnet.net   "I drank what?" - Last words of Socrates.
http://www.magicnet.net/~ae4ko/home.html
Orlando, FL

---

629. Egobulletins

From: rwf <rwf@mindspring.com>
Date: Thu, 21 Nov 1996 22:58:51 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961121225839.006a389c@mindspring.com>
Rendered body type: text/plain

Mr Sproul said:

>This type of use is not what the bulletin is for, thats >what the ID or
>BEACON string is for.

Amen-

Dear Abby-
Currently in the South here, we continue to see a bulletin of about 8-10 lines telling about someone's web page. It even has cute little graphics and blank lines for spacing and everything!

We all knew about the web page the first time he sent it, but how do we let him know we are now duly informed without making him think we are whining. We aren't ...we just want him to observe better operating habits in our busy network. I doubt he sees our stations because we don't path out that far. His path is WIDE,WIDE,WIDE or sometimes even 4 of them!

Seems like almost everyone has an APRS web page now, and we appreciate them- but be don't need to be reminded dozens of times a day.

Signed

Confused in Georgia

---

630. Re: [APRSSIG:6667] REQ:Info. On Low Priced GPS

From: Dayglo <dayglo@radix.net>
Date: Thu, 21 Nov 1996 23:22:31 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961122042231.0072f0d8@pop.radix.net>
Rendered body type: text/plain

At 12:24 PM 11/21/96 -0600, you wrote:
>I'm looking for a low price (Around $150 to $250) that has a data port so I
>can hook it to my KPC-3 to do APRS. I've looked at a few around $140 to $200
>and they lack the data port. Any one have some Ideas??

I purchaced a Garmin GPS 40 for $209 from EEB. I am completely satisfied with the unit. It not only has a data out port but also an external antenna port. The antenna port is a MCX connector. You can putchace a Garmin external antenna with 6' of cable for $105 from EEB. For thes few extra dollars I would HIGHLY recommend purchacing the 40 and not the 38!

EEB
323 Mill St.
Vienna VA 22180
(703) 938-3350
(703) 938-6911 Fax
(800) 368-3270 Orders
eeb@access.digex.net
http://www.access.digex.net/~eeb/eeb.html

BTW Does anyone have any comments about the GPS-20 unit that TAPR is selling??? I do not want to use my Garmin 40 for APRS! Will there be any special projects designed aroung this particular unit?

---

631. Re: [APRSSIG:6640] Re: DF Jr

From: BordingK@aol.com
Date: Fri, 22 Nov 1996 00:02:52 -0500
To: aprssig@tapr.org
Message-ID: <961122000251_1552711951@emout17.mail.aol.com>
Rendered body type: text/plain

FYI

---

632. Re: [APRSSIG:6686] Egobulletins

From: rkramer@merge1.mergetel.com (Ron Kramer)
Date: Fri, 22 Nov 1996 05:49:00 GMT
To: aprssig@tapr.org
Message-ID: <32b83dc5.2941221981@mail.mergetel.com>
Rendered body type: text/plain

```
On Thu, 21 Nov 1996 22:22:54 -0600 (CST), you wrote:

>Mr Sproul said:
>
>>This type of use is not what the bulletin is for, thats >what the ID or
>>BEACON string is for.
>
>
>Amen-

What I quoted in the origonal msg was only part of the bulletin line
the first part was   "76to77e.zip upgrd at ......"

I consider this a useful bulletin, if it was just notifying people of
my web page then I would not have put it out at all, it tells the
LOCAL users only, since I did not put it through a GATE, that a new
version of APRSDOS was out and where to obtain it.....


73 de Ron                           Best Regards
Email: rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

633. Re: [APRSSIG:6687] Re: REQ:Info. On Low Priced GPS

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Fri, 22 Nov 1996 00:49:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611220549.AAA07082@itchy.mosquito.com>
Rendered body type: text/plain

```
At 22:31 11/21/96 -0600, you wrote:

>BTW Does anyone have any comments about the GPS-20 unit that TAPR is
>selling???  I do not want to use my Garmin 40 for APRS!  Will there be any
>special projects designed aroung this particular unit?

I use two GPS-20's (TAPR group purchanse) with Trimble antennas from Paccomm
associated with two MIM 1.06's from Clement Engineering for standalone
trackers.  They work great... just as advertised... I plan to get more MIM's
for some telemetry work.  TAPR is about to offer MIC-E (MIM derivatives)
which fit perfectly with a GPS-20.

The GPS-20 is an engine only... no case, no display, no keyboard, no battery
compartment... comes with just a small coax pigtail with an MCX connector
and a small (really small!) power/data connector for I/O.  Treat them with TLC.

Check the docs with the DOS version for details of operation. The equipment
works. Also, Tom Clark, W3IWI, will be introducing his Totally Accurate
Clock project via TAPR which uses a GPS-20.  Nifty stuff!

 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

634. Re: [APRSSIG:6686] RE: confused in Georgia

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 22 Nov 1996 00:41:26 -0800
To: aprssig@tapr.org
Message-ID: <32956736.4684@concentric.net>
Rendered body type: text/plain

```
> Dear Abby-
> Currently in the South here, we continue to see a bulletin of about 8-10
> lines telling about someone's web page.  It even has cute little graphics
> and blank lines for spacing and everything!
>
> Seems like almost everyone has an APRS web page now, and we appreciate
> them- but be don't need to be reminded dozens of times a day.
>
> Signed
>
> Confused in Georgia

Well confused in Georgia, before I quit running APRS i seen many from Georgia
trying get lot's of people to get in on buying APRS day in and day out, what's
the difference. I also have a question for Dear Abby, why don't they just
BUDLIST the person since that seems to be the norm their.

Signed
```

Confused in Alabama

---

635. emergency comms

From: sams@jetlink.net (Sam Stanifer)
Date: Fri, 22 Nov 1996 00:59:57 +0800
To: aprssig@tapr.org
Message-ID: <v01530500aeba2abeba55@[206.72.64.118]>
Rendered body type: text/plain

Interesting article in "Science" magazine for Nov. 1'96, by Noam (Columbia University) and Sato (Konan University of Kobe, Japan), title is "Kobe's Lesson: Dial 711 for Open Emergency Communications".

They did analysis of emergency comms after Kobe, Mexico City (1985), San Francisco (1989) and Northridge (1994) earthquakes. Some bottom lines:

*landline and wireless telephone all go into instant saturation and stay that way for days. Pay phones stuffed with coins, also useless.
*Incoming (attempted) traffic by far greater than outgoing.
*Television provided nothing that anyone needed to know.
*People turned to talk radio (gasp!) for meaningful info via their BC band portables
*Too many batteries are barely enough
*Computer networks and BBS's were by far the most efficient means of passing vital comms
*Most interesting point was the appearance of "information volunteers" showing up with laptops
*They got "out and about", found out real needs, posted meaningful info about food, supplies, etc. and put this info on a regional MAP.
*Gov't agencies were clueless, like everyone else early in the disasters.
*Kobe had just installed $80M satcomm system. It got two messages out before it failed.

Authors are recommending a decentralization of emergency information systems, with open access and horizontal communications. "Information volunteers" would log in information, "possibily into a schematic block-by-block display of a city". This would somehow be accessed by dialing 711. (this part not too clear). Amateur radio was not mentioned, but this has APRS written all over it.

73, Sam KJ6BU
sams@jetlink.net

---

636. [APRSSIG:6660] Delorme Tripmate GPS

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 22 Nov 1996 08:48:16 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611221348.IAA27079@smtp1.erols.com>
Rendered body type: text/plain

>From reading the thread on this GPS, it sounds like it may well be useful for APRS applications. Since this $125 offer seems to have been made only to previous Delorme customers, and general interest seems rather high, has anyone recieved the offer that is NOT interested in aquiring the GPS? Maybe they would be interested in passing on the offer to others? I am currently looking for the best deal on a GPS module to dedicate to my mobile tracker package and free up my Garmin GPS 90 for other uses. I don't like leaving this unit laying around baking in my car anyway.

John Kozak; N3AGG
jkozak@erols.com

---

637. Re: [APRSSIG:6688] Re: DF Jr

From: Joe Agrelo <jagrelo@cris.com>
Date: Fri, 22 Nov 1996 09:30:47 -0800
To: aprssig@tapr.org
Message-ID: <3295E347.215E@cris.com>
Rendered body type: text/plain

BordingK@aol.com wrote:
>
> FYI

FYI?

De Joe N2OOC

---

638. Re: [APRSSIG:6693] Delorme Tripmate GPS

From: AC6JA@aol.com
Date: Fri, 22 Nov 1996 09:40:34 -0500
To: aprssig@tapr.org
Message-ID: <961122094033_672012586@emout04.mail.aol.com>
Rendered body type: text/plain

if you're interested in a dedicated gps receiver for aprs tracking, might i suggest the GPS-20 from TAPR. it's a gps card without display. i used it with my kpc-3 and radio shack ht for a standalone tracker with never a problem. all it needs is a 5vdc power source and an antenna and it starts spitting out gps data. i like it cause i can have the whole tracker come on and off with a switch, as opposed to using my garmin 45 handheld where i have to hold a power switch for a few seconds to get it to come on and off. the gps card powers up automatically with power and starts acquiring satellites rapidly. only other connections are data out and ground. no initialization strings need to be sent to the receiver. i think i paid about $165.00.
anyways, hope this info helps you out.
73's Mike AC6JA

---

639. Re: [APRSSIG:6682] MAPFIX28

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 22 Nov 1996 09:46:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961122093731.11181A-100000@arctic>
Rendered body type: text/plain

On Thu, 21 Nov 1996, jud wrote:

> Thanks to the help from this SIG I can now add roads to existing maps using
> Edit and New commands. I have a map now however that is giving me a problem.
> upper left hand corner of the square. There is a green point in this circle.
> When I add a new road using Edit, New, enter name and color, Edit, Add and
> then Save, the road turns gray and a gray line shoots up to the circle in
> the corner. The road turns gray no matter what color I use for the road.
> How do I delete the little yellow circle and green point in the corner? Any

APRSdos REPLY/COMMENT: You have a map point with an X value of 0....
Three techniques to try:

1 Try the TASKS-CLEAR which tries to clear out single points. Try using the command a couple of times.

2. Save the file and re-load it.

3. Try to determine where the point is in the whole file. Use the +/- and Next Prevoius keys to help.... Once you have found it, (or the one before or after it), note its exact coordinates as shown in the lower left corner of the screen.... Save the file, then use EDIT or whatever editor you like to search for the point.. Clean up the file manually and then re-save it.

The whole idea is that 0,0 is used to separate features in the file.
C,name is used to describe the feature and its color C.   BUT when this file is loaded into APRS, the NAME is dropped and the 0,0 becomes 0,C where C is the color. So you see, that ANY point that starts with a 0, will begin a new feature.   APRS gets confused if it sees two 0,C's together or with only one point between them,,,

See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

640. Re: [APRSSIG:6683] test msg

From: "DENNIS A. EASON" <dennis.eason@sympatico.ca>
Date: Fri, 22 Nov 1996 09:56:04 -0500
To: aprssig@tapr.org
Message-ID: <199611221455.JAA07173@smtp1.sympatico.ca>
Rendered body type: text/plain

At 08:44 PM 21/11/96 -0600, you wrote:
>Had a report that the dot in my address and /or john.langtry may cause
>problems on some systems. Have been using this address for years so
>better check with your sysop. My alternate address is ve3fgk@projectx.com
>is it does cause problems.
>Try javAPRS Ontario at http://www.peel.com/aprs to see live aprs activity
>on 144.390 (Canadian National APRS frequency). Updated every 15 minutes to
>a maximum of 24 hours. Yes u do need Windows95 or equiv to see it.
>73 de Dave, ve3fgk.
>
>
HI DAVE NICE TO SEE YOU ON THE SIG E-MAIL.

```
WILL YOU BE AT THE SOPRA MTG ON SUNDAY, HOPE TO SEE YOU THERE.
73 DE DENNIS VE3BRO
```

---

641. Latest APRSdos files

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 22 Nov 1996 10:19:01 -0500 (EST)
To: aprssig@tapr.org
Cc: APRS-BB@tapr.org
Message-ID: <Pine.GSO.3.95.961122095703.14340A-100000@arctic>
Rendered body type: text/plain

```
Here is a summary of WB4APR's standard distribution files.  THese are
posted in tapr/SIG/aprssig/files/dosstuff/APRSdos

aprs77e.zip
76to77e.zip
emaps13.zip East coast maps    * In all of these map files, there has
mmaps07.zip Midwest maps       * been little added in the last versions
cmaps12.zip Central usa        * Maybe just 1 new map or so...
wmaps11.zip West coast         *
neamaps1.zip New England maps  * So you may not need to get the latest
semaps12.zip South East maps   *
mdmaps06.zip Maryland Cpk Bay area

APRS disks are distributed with the overall program zip file (about 1
Meg) and one of the given MAP files depending on your area (about 350K).
All of these files should be unzipped with PKUNZIP -D.  All other mapfiles
that you see were made by the other state map coordinators and will be
found in the:

tapr/SIG/aprssig/files/maps/PCMaps directory...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

642. Re: [APRSSIG:6685] Re: APRS/Java ..

From: "Dale Heatherington" <wa4dsy@wa4dsy.radio.org>
Date: Fri, 22 Nov 96 10:40:30
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <m0vQxiR-0001GAC@wa4mei.radio.org>
Rendered body type: text/plain

```
On Thu, 21 Nov 1996 22:14:07 -0600 (CST), Aaron Morrison wrote:

>> Date:          Wed, 20 Nov 1996 19:46:12 -0600 (CST)
>> Reply-to:      aprssig@tapr.org
>> From:          joefoor@digitalexp.com (Foor, Joe)
>> To:            aprssig@tapr.org
>> Subject:       [APRSSIG:6635] Re: APRS/Java  ..
>
>> I seem to recall seeing a version of Netscape 3, for X-windows. Will
>> it run Java on a Linux system?

Yes, there is a Java enabled Netscape Navagator for Linux.
You can get it from the Netscape download site where all
17 other versions are.  (I don't have the url handy).  The beta
I downloaded worked but had a few bugs.  I no longer have
a working Linux installed so I don't know if it has been improved.




--------------------------------------------------
Dale Heatherington, WA4DSY
e-mail - wa4dsy@wa4dsy.radio.org
e-mail - daheath@ibm.net  (in case the first one doesn't work)
Web page - http://www.wa4dsy.radio.org
This message brought to you by OS/2 Warp v4
```

---

643. Re: [APRSSIG:6551] Jupiter Rockwell GPS board

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Fri, 22 Nov 1996 10:23:07 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611221623.KAA13467@solar.cs.tamu.edu>
Rendered body type: text/plain

```
Dr Samuel Guccione sez:
>
> Anyone heard of the Jupiter GPS board by Rockwell using a Zodiac chip set?
> Same as the GPS-20?
>
> I need this for a Super Loki Rocket Launch.

A number of the GPS makers use similar in-house names for their chipsets.
They're *not* the same.

Caveat emptor.

73 and good luck finding it, Gerry
n5jxs@tamu.edu
```

644. re: [APRSSIG:6637] APRS 7.5c USA.map

From: Jim Flanders <jimflanders@ti.com>
Date: Thu, 21 Nov 1996 10:56:58 -0600
To: aprssig@tapr.org
Message-ID: <BMSMTP8485951936a0198560@dshs1.itg.ti.com>
Rendered body type: text/plain

```
Rich
  Glad to see you are now linked up with APRS.  I intend to get the PARK radio
club active & using it for weather watchers and ILAFS (Interference Locator And
Fingerprinting System).  I am about to receive my DF jr.  Would like to have a
central communications facility for all DFW APRS enthusiasts to communicate.
Regards
   Jim Flanders
     W0oog/5 in Plano  (147.180 and 14.243 @ 1100 CST)

------------------
Original text

From: Rich Casey <casey@acm.org>, on 11/21/96 10:00 AM:
To: aprssig@tapr.org

Hi from Dallas:
  Just in the 3 weeks that I've been on APRS (and monitoring this sig),
I've seen activity in Texas picking up. We regularly see down to Houston
and San Antonio via VHF with a couple well placed WIDEs.
  Here's an easy question I'm sure, but one that I have searched for in
the docs to no avail. On my USA.mp, there is a line that runs up
CA, OR and WA, across Idaho down the midwest to just east of Dallas,
etc. on across the country.  I know it is for something but I sure can't
figure out what. Two part question-- what is it for, and how can I
toggle it off?
  Enjoying the sig and learning a lot...
   73, Rich/n5csu
--
Rich Casey, Dallas TX                | Member: ACM, ARRL, AMSAT
casey@acm.org                        | Ham Radio N5CSU
http://www.startext.net/homes/rcasey | Think globally, connect locally
```

645. re: [APRSSIG:6645] Re: DF Jr

From: Jim Flanders <jimflanders@ti.com>
Date: Thu, 21 Nov 1996 10:58:59 -0600
To: aprssig@tapr.org
Message-ID: <BMSMTP8485954948a0198560@dshs1.itg.ti.com>
Rendered body type: text/plain

```
I ordered mine on September 3rd, but have'nt got it yet.
Jim  W0oog/5 in Plano, TX

------------------
Original text

From: ddobbins@juno.com (David S Dobbins), on 11/21/96 10:01 AM:
To: aprssig@tapr.org

Someone else has replied with the web site for DFjr. I'll just add that
I'm quite happy with mine.

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com
```

646. Re: [APRSSIG:6700] Re: Jupiter Rockwell GPS board

From: rdkliman@ssd.rockwell.com
Date: Fri, 22 Nov 1996 09:34:18 -0800
To: aprssig@tapr.org, Gerald J Creager <gerry@cs.tamu.edu>
Message-ID: <0004A113.1912@ssd.rockwell.com>
Rendered body type: text/plain

```
In this case the secret is out - it is a Rockwell Jupiter board with the Zodiac
Chip set.  Also, the fellow on the APRSSIG doing the reverse engineering is
doing a great job!!  I am in a different division of the company and do not have
those other secrets that are being found.
>Dr Samuel Guccione sez:
> Anyone heard of the Jupiter GPS board by Rockwell using a Zodiac chip set?
cut
>A number of the GPS makers use similar in-house names for their chipsets.
>They're *not* the same.
cut
>Gerry
>n5jxs@tamu.edu
```

647. Message for rdkliman

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 22 Nov 1996 13:35:05 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611221835.NAA18960@northshore.shore.net>
Rendered body type: text/plain

```
Hello,

I am having trouble replying to you address.

Fax number is (617) 926-0528 and mark it ATTN: Eric Cottrell  Engineering.
Thanks for the offer.

73 Eric eac@shore.net
```

648. bajamaps.zip

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Fri, 22 Nov 1996 11:28:25 -0800
To: rbeckett@Schwab.COM
Cc: aprssig@tapr.org
Message-ID: <199611221928.LAA12484@poseidon.coastside.net>
Rendered body type: text/plain

```
Hi Rich/WB6EEE
   Can send you bajamaps.zip as attachment if you wish, 242,275
bytes. Or wait till Ken/W7KKE returns from Egypt next week and
reloads calmaps06.zip and other pertinent CA maps to Tapr site.
  Also you can get latest PtReyes.zip and other maps from our
local LL BBS  (KA6EYH @ 359-6985). Password is Coast. Dos format
Hit D, then CD\APRS for that directory or APRS/CALMAPS for another
maps directory associated with CA.
  Latest TIGER maps from Steve (javAPRS) of Bay area outstanding
map on the web site. Am up both VHF/HF for Bay area as HF gate
station, give a call or ere on net, if you need any other help.
   Would like to see you and your S/V (GPS) tracking on the bay, we
lost one other S/V tracker (Rick/KN6KB-5) now in P-Velarta on to
Zehuatenajo, stop for Xmas, then on to Panama and Melbourne, Fl.
Appears on USA/World maps as he progresses.
    73's & Enjoy, if i can help any other way advise..
WB6LPG@KE6WVQ,  bbliss@juno.com,    wbliss@coastside.net

NNNN

WBB/WB6LPG
```

649. Re: [APRSSIG:6703] Re: Jupiter Rockwell GPS board

From: rdkliman@ssd.rockwell.com
Date: Fri, 22 Nov 1996 12:25:38 -0800
To: aprssig@tapr.org
Message-ID: <0004A45A.1912@ssd.rockwell.com>
Rendered body type: text/plain

```
Further Clarification: "It" is the GPS that comes with the Delorme package

In this case the secret is out - it is a Rockwell Jupiter board with the Zodiac
Chip set.  Also, the fellow on the APRSSIG doing the reverse engineering is
doing a great job!!  I am in a different division of the company and do not have
those other secrets that are being found.
>Dr Samuel Guccione sez:
```

```
> Anyone heard of the Jupiter GPS board by Rockwell using a Zodiac chip set?
cut
>A number of the GPS makers use similar in-house names for their chipsets.
>They're *not* the same.
cut
>Gerry
>n5jxs@tamu.edu
```

---

650. Re: [APRSSIG:6695] Re: Delorme Tripmate GPS

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 22 Nov 1996 16:05:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611222105.QAA15804@smtp1.erols.com>
Rendered body type: text/plain

```
>if you're interested in a dedicated gps receiver for aprs tracking, might i
>suggest the GPS-20 from TAPR.  it's a gps card without display.  i used it
>with my kpc-3 and radio shack ht for a standalone tracker with never a
>problem.  all it needs is a 5vdc power source and an antenna and it starts
>spitting out gps data.
<snip>
> i think i paid about $165.00.
>anyways, hope this info helps you out.
>73's  Mike  AC6JA

Thanks Mike.

I'm interested in the dedicated GPS for both APRS and moving map
applications. The Tripmate supposidly has a 12 channel reciever and is
sealed in a weather resistant rubber case. The following are several things
I have learned about the Delorme package..

Street Atlas 4.0 does work with the NMEA output from the Garmin GPS's and
will run under WINDOWS 3.1.

The Tripmate GPS requires an initial INIT string to turn it on and tell it
where it is. It will then output data continiusly. This INIT string can be
sent to it using a basic comm program, so APRS should be able to handle this
task easily. How about the MIM module?

Delorme wants $149.00 + $5.00 Shipping.
My local computer store wants $179.00 + 5% tax
I want one this weekend for a 1500 mile trip on Monday.

Oh well, I guess it won't happen this weekend :)

John Kozak; N3AGG
jkozak@erols.com
```

---

651. Re: [APRSSIG:6667] REQ:Info. On Low Priced GPS try Garmin 38

From: Bryan Fair <brfair@flash.net>
Date: Fri, 22 Nov 1996 16:08:41 -0600
To: aprssig@tapr.org
Message-ID: <199611222208.QAA18522@endeavor>
Rendered body type: text/plain

```
Hey All,
The GPS I have been using is the Garmin GPS 38

UNIT COST: LAST AT WALMART $200
LAST AT WEST MARINE IN DALLAS $149.99 ADVERRTISED
It has:
DATA in/out
Built in ANT.
4 AA Battery supply
Accepts 5~8 VDC in through data port
Outputs 4800 BPS data
INPUTS 4800 BPS data

I use this in combination with a KPC-3 and a KNWD TM-241A and a ICOM HT
works very well and uestions email me

THe GARMIN GPS 40 is SAME but with EXTERNAL ANT JACK



At 12:23 PM 11/21/96 -0600, you wrote:
>I'm looking for a low price (Around $150 to $250) that has a data port so I
>can hook it to my KPC-3 to do APRS. I've looked at a few around $140 to $200
```

```
>and they lack the data port. Any one have some Ideas??
>
>                                     tnx,
>                                    Jamie - KE4HTM
>
>
>Visit The Western NC APRS & Ham Radio Home Page
>http://www.bluenet.net/ke4htm
>--------------------------------------------------------------------------------
>
>
```

652. December QST

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 22 Nov 1996 16:34:51 -0600
To: "APRS SIG list   mailing"<aprssig@tapr.org>
Cc: "Steve   Dimse"<sdimse@bridge.net>
Message-ID: <v0300780aaebbd9fe07b2@[128.83.113.69]>
Rendered body type: text/plain

Check out page 73 in December QST. The picture that Jon Bloom took of
Steve Dimse in his APRS-van made it in the issue along with a writeup on
the ARRL and TAPR DCC.

Nice picture there Steve!

Should be a shorter drive to the conference in the MD area next fall.

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

653. Delorme Tripmate Works with WINAPRS!

From: msproul@arn.net (ML Sproul)
Date: Fri, 22 Nov 1996 17:38:20 -0500
To: aprssig@tapr.org
Message-ID: <v01540b02aebbdb1179c5@[204.254.144.121]>
Rendered body type: text/plain

(This message is from Keith Sproul, WU2Z)

Jimmie, KB5WIO, was at my fathers house today (I am in Texas) and brought
his new Delorme Tripmate with him.

We hooked this up to WinAPRS and it worked GREAT!!!

We will be adding a few features to WinAPRS to make it send the appropriate
initialization strings out to make it easier for the user.

I was quite impressed with this unit, and plan on ordering one for myself
shortly.

Keith Sproul, WU2Z (In Texas on Vacation)

```
M. L. "Maury" Sproul            |Work 806-477-7254
W5UGQ                           |Home 806-354-0306
3319 Arlington Dr.              |msproul@arn.net
Amarillo, TX 79106
MacAPRS Beta test
```

654. Re: Killer mail revisited

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Fri, 22 Nov 1996 20:45:48 EST
To: aprssig@tapr.org
Message-ID: <19961122.174308.3934.0.Hfigueroa@juno.com>
Rendered body type: text/plain

Just a temporary fix for those losing mail, set your mail reader to leave
mail on your server, some will even let you keep for only a few days.

Hector M. Figueroa E-Mail Hfigueroa@juno.com
World Wide Web Page http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL

Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM

On Tue, 19 Nov 1996 23:29:41 -0600 (CST) George Salinas
<saltair@hargray.com> writes:
>Thom Proehl wrote:
>What the heck is going here? I just had the same thing happen with
>my IE tonight (20 Nov 96). Lost about 100 messages. Netscape seems to
>not be affected. It just happened that this evening I was using IE 301
>when it zapped me.

>Sure hope somebody can get to the bottom of this.
>73 George KD4FJ.

---

655. Re: [APRSSIG:6707] Re: Delorme Tripmate GPS

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 22 Nov 1996 21:07:55 -0400
To: jkozak@erols.com
Cc: Aprssig@tapr.org
Message-ID: <848714875-0-eac@shore.net>
Rendered body type: text/plain

Hello,

If you have a Microcenter around they have it for $150.

The receiver will work if you just send the $IIGPQ part, but setting the inital Lat/Lon and time makes it faster.

73 Eric eac@shore.net   WB1HBU

---

656. Re: [APRSSIG:6638] Re: Delorme Tripmaker GPS $125 vs $179

From: Arte Booten <N2ZRC@gnn.com>
Date: Fri, 22 Nov 1996 22:15:40
To: aprssig@tapr.org
Message-ID: <199611230316.WAA24245@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Wed, 20 Nov 1996 Jim Conrad noted that DeLorme is:

>... being selective on who gets the offer because I've also
>purchased a number of their products ... and have not receiv-
>ed any offers.

Me neither, and I've been buying their products for over a decade. If you're into GREAT printed maps, take a look at some of the large ones they've produced over the years.

Nonetheless, I feel slighted! 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

657. Re: [APRSSIG:6657] Re: Delorme Tripmate additional information.

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 22 Nov 1996 23:06:50 -0400
To: bruninga@nadn.navy.mil
Cc: Aprssig@tapr.org
Message-ID: <848722010-0-eac@shore.net>
Rendered body type: text/plain

Hello,

The $IIGPQ,ASTRAL<cr/lf> string only needs to be sent when the GPS receiver is outputing the ASTRAL string on powerup.

You may have to power the GPS up first then reset the TNC as it takes about 4 or 5 seconds for the GPS receiver to come up.

73 Eric eac@shore.net

---

658. Re: [APRSSIG:6713] Re: Delorme Tripmaker GPS $125 vs $179

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sat, 23 Nov 1996 09:49:42 +0000
To: aprssig@tapr.org
Message-ID: <199611231349.IAA13240@hemisphere.neocomm.net>
Rendered body type: text/plain

```
> On Wed, 20 Nov 1996 Jim Conrad noted that DeLorme is:
>
> >... being selective on who gets the offer  because I've also
> >purchased a number of their products ... and have not receiv-
> >ed any offers.
>
>      Me neither, and I've been buying their products for over
> a decade.  If you're into GREAT printed maps, take a look at
> some of the large ones they've produced over the years.

          I ordered Tripmaker yesterday. I had not registered my ver
2.0 of Streets USA and had not recieved a mail offer. They requested
the serial number (in the clear protion) from my CD and sold me the
Tripmaker package for $125 + $5. shipping.
Hmm...I may order another copy of the CD for the office, or home
 or my freind that needs one too.

cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA   ATC
Georgia>97>Main    Chase
```

---

659. BUDLIST on KE4JJU-3 & WA4SSP-14

From: w4wwq@juno.com (Peter J Lascell)
Date: Sat, 23 Nov 1996 11:30:41 EST
To: aprssig@tapr.org
Message-ID: <19961123.112816.4543.0.W4WWQ@juno.com>
Rendered body type: text/plain

```
I have mentioned this problem before here on the SIG but get no
responses.  I can't imagine I am the only station having the problem.

To band aid it I have used the LCALL and BUDLIST commands in the TNC to
ignore KE4JJU-3 and WA4SSP-14.

The problem KE4JJU-3 causes on my display is that it will stop processing
APRS and a wide horizontal RED band appears with ERROR 6.  Yes, pressing
the ENTER button will get it going again but everything is lost from the
time the lockup happened.  KE4JJU-3 is a WX station and I think the WX
data is the thing that crashes me.

 After rejecting all packets from KE4JJU-3, then the following started
showing up.

WA4SSP-14 is sending zillions of position reports that contain nothing
but time and commas.  They come so fast, it pushes the map off the top of
the screen displays the packet message down the left side of the display.

I don't know either of these station/operators and I feel sure they are
not doing anything to intentionally cause me problems.  It is very
possible besides the logic ONE and ZERO there are some MAYBEs out there.
But am I the only one seeing these problems?

Have I reached the limit on processing time that my old computer can't
keep up?

I run APRS 7.7C on a 286-12 MHz clone with math co-processor, and MFJ
1270 TNC.

With the BUDLIST feature active for these two calls the two  problems are
not re-occurring in a 48 hour period.  Before it was guaranteed to happen
over night, if it didn't happen in front of my nose while watching the
screen.

Any ideas guys?


Peter Lascell
Forest, VA
w4wwq@juno.com
```

660. Re: [APRSSIG:6706] Re: Jupiter Rockwell GPS board

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 23 Nov 1996 12:07:08 -0400
To: rdkliman@ssd.rockwell.com
Cc: Aprssig@tapr.org
Message-ID: <848768828-0-eac@shore.net>
Rendered body type: text/plain

Hello,

I got some information on the Jupiter board. I looked inside the unit and it looks like a custom board that uses some of the same components as the Jupiter board.

I have not had a chance to check it out but it appears that the unit will NOT work off of 12 or 13.6 volts. The Maxium chip used has a limit of 11 volts and the cap on the DC input appears to have a 10 volt rating. So to be safe feed it with 6 volts.

73 Eric eac@shore.net WB1HBU

---

661. Re: [APRSSIG:6670] Re: Delorme Tripmate additional information.

From: Paul Stump <n0lrf@computer-services.com>
Date: Sat, 23 Nov 1996 11:33:18 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961123113114.1c1740d6@computer-services.com>
Rendered body type: text/plain

```
>Not a problem with the KPC-3, I think, as it can send a GPSINIT string.
>
>Can anyone else confirm that?  I'd have to dig up my supplemental manual.

Confirmed. KPC-3 will send init strings...
73, Paul, n0lrf@computer-services.com
```

---

662. Re: [APRSSIG:6624] Re: Delorme Tripmaker GPS $125.

From: Don Pendry <dpendry@mail.telis.org>
Date: Sat, 23 Nov 1996 11:25:55 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <2.2.16.19961123121929.12af25a8@mail.telis.org>
Rendered body type: text/plain

```
At 15:28 20/11/96 -0600, you wrote:
>At 10:18 PM 11/18/96 -0600, Dayglo wrote:
>>>Does anyone have more info on this? At $125 Tripmaker/GPS sounds too
>>>good to be true.
>>
>>I saw this at my local CompUSA for $179 not $125.  The package stated that
>>the software would only run with the included GPS receiver.  Either they are
>>mistaken or have created a proprietary GPS receiver.
>
>Computer City also is charging $179 for Tripmaker.
>
><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
><:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
><:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
>
>HI JIM:  JUST WONDERED IF YOU HAVE HAD ANY RESPONSE ON AQUISITION OF
"TRIPMAKER"
FOR $125.00 - WOULD LIKE TO ORDER ONE IF AVAILABLE..THANKS

DON PENDRY, N6AER, dpendry@mail.telis.org

>
Amateur Radio Station N6AER
Don Pendry
PO Box 452
Joshua Tree, California  92252
dpendry@telis.org
```

---

663. Are mobile APRS IS always "-9"

From: Richard Parry <rparry@qualcomm.com>
Date: Sat, 23 Nov 1996 12:52:49 -0800
To: aprssig@tapr.org
Message-ID: <v03007801aebd12bf68fb@[129.46.159.136]>
Rendered body type: text/plain

```
In a few weeks in will be installing an APRS system in my car to beacon my
location.  I looked at some local mobile APRS stations and noticed that
their ID always had a dash 9, for example, W5ABC-9.  Is the -9 common
practice?  I know you can use almost any number, but is the "-9" a standard?

I have a home station that I ID as                --> W9IF
and depending on above reponse, my mobile will be --> W9IF-9

Does that make sense?

TIA



---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link
Internal Web --> <http://qcwww/~rparry>
External Web --> <http://www.qualcomm.com/~rparry>
---------------
```

664. Re: [APRSSIG:6713] Re: Delorme Tripmaker GPS $125 vs $179

From: Jim Conrad <jjc@infi.net>
Date: Sat, 23 Nov 1996 15:58:50 -0500 (EST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <2.2.16.19961123155815.3d4f4708@mailhost.infi.net>
Rendered body type: text/plain

```
At 09:22 PM 11/22/96 -0600, Arte Booten wrote:
>Hi All,
>
>On Wed, 20 Nov 1996 Jim Conrad noted that DeLorme is:
>
>>... being selective on who gets the offer  because I've also
>>purchased a number of their products ... and have not receiv-
>>ed any offers.
>
>     Me neither, and I've been buying their products for over
>a decade.  If you're into GREAT printed maps, take a look at
>some of the large ones they've produced over the years.
>
>     Nonetheless, I feel slighted!  73

I just got mine today in the mail so I guess it's either the USPS being its
slow self or Delorme is mailing the packages out in groups.

<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

665. Re: [APRSSIG:6720] Are mobile APRS IS always "-9"

From: rbost@itexas.net (Roy Bost)
Date: Sat, 23 Nov 1996 15:04:27 -0600
To: <aprssig@tapr.org>
Message-ID: <19961123210435239.AAA156@rbost.itexas.net>
Rendered body type: text/plain

```
Check in the "read-me" files.  The "-9" is decoded as the cute little red
car and "-15' is decoded as a blue van.  Somewhere in the "read-me" files
is a list of the ssid object codes.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

666. Re: [APRSSIG:6720] Are mobile APRS IS always "-9"

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 23 Nov 1996 14:50:11 -0800
To: aprssig@tapr.org
Message-ID: <199611232250.OAA14058@m1.sprynet.com>
Rendered body type: text/plain

```
At 14:57 11/23/96 -0600, you wrote:
>In a few weeks in will be installing an APRS system in my car to beacon my
>location.  I looked at some local mobile APRS stations and noticed that
>their ID always had a dash 9, for example, W5ABC-9.  Is the -9 common
>practice?  I know you can use almost any number, but is the "-9" a standard?
```

```
>
>I have a home station that I ID as                --> W9IF
>and depending on above reponse, my mobile will be --> W9IF-9
>
>Does that make sense?
>
>TIA
>
Yes, it makes perfect sense.  The early mobile packet operators used the -9
SSID and I think that has probably held true in the carry-over to APRS.

Also, the -9 SSID when used as the SSID of a stand-alone tracker will
default to the AUTOMOBILE ICON.  If you read the SYMBOLS.TXT file you will
find a complete listing of the various SSID standards....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

667. Re: [APRSSIG:6723] Re: Are mobile APRS IS always "-9"

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Sat, 23 Nov 1996 17:01:26 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961123165928.8330H-100000@jerryc.tyrell.net>
Rendered body type: text/plain

```
I have an MFJ-1274 TNC. I got a ROM upgrade from MFJ to use it as a
mobile tracker. Does any one know if there is mor to the ROM upgrade than
plugging it in? I don't find the instructions.
I have to get off here soon (root just told me the system is going down).

Thanks for the help. I have ROM V2.2 dated 1995. Irt
```

668. Re: [APRSSIG:6720] Are mobile APRS IS always "-9"

From: Paul Stump <n0lrf@computer-services.com>
Date: Sat, 23 Nov 1996 17:32:28 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961123173030.094f4f9e@computer-services.com>
Rendered body type: text/plain

```
>Is the -9 common practice?  I know you can use almost any number,
but is the "-9" a standard?

-9 shows as a car on APRS, and is therefore standard for a car.
See "synbols.txt" in the APRS readme.txt files for other swell
things you can be...
73, Paul, n0lrf@computer-services.com
```

669. For K9ORP

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 23 Nov 1996 16:08:03 -0800
To: aprssig@tapr.org
Message-ID: <199611240008.QAA28224@m1.sprynet.com>
Rendered body type: text/plain

```
Larry, I can't find your address just now...I've uploaded MOMAPS20.ZIP and
.TXT to APRS Uploads.  I think I screwed up and did it twice because I see
one with the filename in ALL CAPS.  Would you delete THAT file and use the
latest upload time, please?

Thanks!
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

670. Re: [APRSSIG:6710] Delorme Tripmate Works with WINAPRS!

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 23 Nov 1996 21:03:20
To: aprssig@tapr.org
Message-ID: <199611240203.VAA20823@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Fri, 22 Nov 1996 Keith Sproul, WU2Z informed us that:

>Jimmie brought his new Delorme Tripmate with him ... We hooked
>this up to WinAPRS and it worked GREAT!!!
>
>We will be adding a few features to WinAPRS to make it send
>the appropriate initialization strings out ...

Watch out, Keith. We all know how touchy DeLorme is about their intellectual property. Let's hope they don't get wind of this. Better call this feature by some "camouflage" name "in order to protect the innocent" ;-{) 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

671. Re: [APRSSIG:6726] For K9ORP

From: vanco@juno.com (Larry J Vandewater)
Date: Sat, 23 Nov 1996 20:56:28 CST
To: aprssig@tapr.org
Message-ID: <19961123.205630.6766.0.vanco@juno.com>
Rendered body type: text/plain

JIM,
THIS SHOULD GIVE YOU MY E-MAIL ADDRESS
USP MAILING ADDRESS IS
LARRY VANDEWATER
2112 STUART ROAD
GREENFIELD, IA
50849-8204

JUST GOT A LAPTOP AND PLAYING WITH IT
USED ONE...486 33 MEG COLOR 120 MEG DRIVE
4 MEG MEM
MORE LATER...I HAVE SENT YOU SOME $$ FOR THE
NEWS LETTER...GOOD LUCK
LARRY

---

672. Re: [APRSSIG:6727] Re: Delorme Tripmate Works with WINAPRS!

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 23 Nov 1996 22:58:31 -0400
To: N2ZRC@gnn.com
Cc: Aprssig@tapr.org
Message-ID: <848807911-0-eac@shore.net>
Rendered body type: text/plain

Hello,

The two commands that should be added are a GPS init string and a GPS init
delay.
The delay is needed to make sure the receiver is up and running before the
init
is sent. It should be possible to enter a cr/lf combination to handle
NMEA strings.

I think at least one person at Delorme knows as I was posting my
information to
sci.geo.satellite-nav. I did send him a message with comments as to what I
liked and disliked about the tripmate. I also briefly explained some of
the radio
amateur uses such as timekeeping, where hams involved in Public Service
and Emergencies are located and that the Tripmate looked like a good unit
to use.

If anyone raises the ire of Delorme then it will be me. I figured if I
did not do it then
someone else would. I rather figure it out for my own use instead of
waiting.

There are restrictions in the Street Atlas 4.0 manual that cover the
software.
Delorme has some interesting restrictions on their software. No such
restrictions

exist for the tripmate GPS receiver. None were in the Tripmate manual. I also do not
consider the tripmate GPS receiver to be software. It is a device, like a computer.

I suppose that looking at the communications with an analyzer could be considered reverse engineering. This has been done with the Garmin 45 and details are freely discussed and posted on the newsgroup and web sites. However I believe IBM tried to sue companies who duplicated LU communication units by looking at the protocol and IBM was not sucessful. If they were I bet Microsoft could not put Netware protocols into Windows 95.
All the non-Garmin programs talking garmin protocol would also be in trouble.
In fact I wonder if Delorme got permission to use Garmin protocols in their products?

I suppose if Delorme really wanted to keep it secret they could have implemented
their own protocol instead of using other companies (NMEA and Rockwell).
I may be wrong, but I consider protocols fair game.

73 Eric eac@shore.net   WB1HBU

673. VHF PROPAGATION FLORIDA TO TENNESSEE

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Sat, 23 Nov 96 23:54 EST
To: aprs-fl@tapr.org, aprssig@tapr.org
Cc: ninfc@eagnet.com
Message-ID: <m0vRWa9-000QdmC@nevets.oau.org>
Rendered body type: text/plain

At 9:14pm this evening, we received some incredible VHF propagation from Central Tennessee into Winter Park, Florida, 6 miles north of Orlando, FL. I am running APRS with the HF Filter ON, so as to not record any stations coming through a HF Gate, i.e. VHF PROPAGATION ONLY.

```
Received:
11/23 2114  N4QEA    >APRS,WA4KJH-7,WA4GKM-5,WIDE,WIDE*
                      Weather Station  39 deg F. Central Tennessee
      1959  N4NEQ-2  >BEACON,WIDE,WIDE*          Sweat Mtn., Marietta, Ga.
      2101  NE1H     >APRS,N4NEQ-2,WIDE,WIDE*    Alan in Buford, Ga.
      1803  KR4OL-2  >BEACON,WIDE,WIDE*          Central Georgia W (Macon)
      1746  N1NFC    >BEACON,KD4GEY,WIDE,WIDE*   Kingsland, Ga.
      1803  WA4MEJ   >APRS,KD4GEY,WIDE,WIDE*     Hilliard, Fl.   John
      1831  AA4QI-5  >APRS,AA4QI-1,WIDE,WIDE*    Russell
      1940  AA4Q1-2  >APRS,AA4QI-5,WIDE,WIDE*    San Marco, Fl.
      1823  AA4QI-1  >APRS,WIDE,WIDE*            Jacksonville, Fl.
      1830  W4AB     >APRS,AA4QI-1,WIDE,WIDE*    Steve in Mandarin, Fl.
      1911  KA4TAR-7 >ID,WIDE,WIDE*              Maxville, Fl.
      1638  W4IZ     >ID,WIDE,WIDE*              Stark, Fl.
           *KC4VBZ-10>APRS,WIDE                  Orlando, Fl.
            WA4IKQ   >APRS,KC4VBZ-10             Geoffrey in Winter Park
                                                 wa4ikq@nevets.oau.org
```

674. Sunday Night APRS Net in KC...

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 23 Nov 1996 21:47:36 -0800
To: aprssig@tapr.org
Cc: kcawg@kcaprs.org
Message-ID: <199611240547.VAA27449@m1.sprynet.com>
Rendered body type: text/plain

The weekly Sunday Night APRS Net in Kansas City meets at 8:00 p.m. CST on 146.79 MHz (-600 offset). We welcome check-ins by both voice and through the APRS network.

To check in via APRS send a one-liner to KU0G-1. I'm on both HF and VHF during the net and working both voice and data. For your QNI, simply put your name and city/state in the message and I'll acknowledge you on the VHF net on voice. Your **ACK** from the APRS station will be your confirmation that you're checked in. I will also post a periodic QNI Log as a Bulletin during and immediately following the net.

Come join us!!!

73 de Jim, KU0G
Chairman/Coordinator

Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

675. Re: [APRSSIG:6570] APRS/Java ..

From: Cap Pennell <cap@cruzio.com>
Date: Sat, 23 Nov 1996 23:46:40 -0800
To: aprssig@tapr.org
Message-ID: <3297FD60.251C@cruzio.com>
Rendered body type: text/plain

```
William B. Bliss wrote:
>
> Hi Siggers..
>
<SNIP!>
> My Windows is Ver.3.11, PackBell Pentium Force 341CD, with
> Netscape Gold V3., for 16bit machines..
>    Have downloaded  the Win32S version designated PW1118.exe
> 2,471kb, but have not tried to load it into system.
<SNIP!>
>     73's & Enjoy, Bill/WB6LPG bbliss@juno.com
>
> NNNN
>
> .-
Hi Bill.  I don't know whether javAPRS will run with Windows 3.11 and
Win32s or not.  Probably not, I would geuss.  I do know that Win32s is
required to be installed in Windows 3.11 for it to be able to run
WinAPRS.  Win32s is what it takes for Windows 3.11 to act enough like a
32 bit operating system for WinAPRS to run.  I would recommend
installing Win32s in your Windows 3.11 and see what happens.  At least
you'll be able to try WinAPRS (although the WinAPRS program runs alot
better in Windows 95, icons are sized right, lines display properly,
etc.).  Maybe it's time for you to upgrade to Windows 95!  I have, and I
really like it.  I wouldn't want to go back to Windows 3.11.  Windows 95
is much more stable (doesn't crash as often) and is much better at
multitasking (running more than one program at a time).  If you do
decide to try Windows 95, then check this URL before you buy Windows 95:
http://www.microsoft.com/windows/support/supptools.htm
It has a file that you run in Windows 3.11 to tell you if your computer
is ready for Windows 95 or not.  Have fun!  See you on APRS!  73.  Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com      homepage: http://members.cruzio.com/~cap
packet radio: KE6AFE@kg6ee.#cca.ca.usa.noam
```

---

676. Re: [APRSSIG:6729] APRSSIG digest 780

From: Mac Cannary <kb5vyt@moontower.com>
Date: Sun, 24 Nov 1996 02:18:37 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.BSI.3.91.961124021739.25180L-100000@beacon.moontower.com>
Rendered body type: text/plain

please change my e-mail address to the following effective immediately:

kb5vyt@texas.net

Thank you and 73.

-MAC

---

677. Re: [APRSSIG:6732] Re: APRS/Java ..

From: Cap Pennell <cap@cruzio.com>
Date: Sun, 24 Nov 1996 01:13:03 -0800
To: aprssig@tapr.org
Message-ID: <3298119F.6483@cruzio.com>
Rendered body type: text/plain

```
Cap Pennell wrote:
>
> William B. Bliss wrote:
> >
> > Hi Siggers..
> >
> <SNIP!>
Oops!  Sorry, Siggers!  My reply to Bill should have had HIS address on
```

```
it.  73.  Cap
```

678. Re: [APRSSIG:6716] BUDLIST on KE4JJU-3 & WA4SSP-14

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
Date: Sun, 24 Nov 1996 08:03:12 +0000
To: aprssig@tapr.org
Message-ID: <199611241203.HAA32035@hemisphere.neocomm.net>
Rendered body type: text/plain

```
> The problem KE4JJU-3 causes on my display is that it will stop processing
> APRS and a wide horizontal RED band appears with ERROR 6.  Yes, pressing
> the ENTER button will get it going again but everything is lost from the
> time the lockup happened.  KE4JJU-3 is a WX station and I think the WX
> data is the thing that crashes me.
 > WA4SSP-14 is sending zillions of position reports that contain nothing
> but time and commas.  They come so fast, it pushes the map off the top of
> the screen displays the packet message down the left side of the display.
>
> I don't know either of these station/operators and I feel sure they are
> not doing anything to intentionally cause me problems.

        I often have the same problem. My screen fills with lines
from Johns ssp-14 mobile. This only happens occasionally but when it
does data processing stops until I hit enter. Somehow his tnc must be
sending every  sentence from his gps reciever, every second. I had
recieved email from John but return mail was undeliverable. I shure
enjoy his WX station and watching his mobile....well most of the time
he he.


charles


cdavidso@neocomm.net
http://www.neocomm.net/~cdavidso/
WB4PAN@WB4QOJ.VA.USA.NOAM
wb4pan@juno.com
APRS ALDHA   ATC
Georgia>97>Main    Chase
```

679. Ultimeter 2000 remote w/WinAPRS

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Sun, 24 Nov 1996 11:42:53 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961124113530.28491A-100000@ns1>
Rendered body type: text/plain

```
I am excited to see weather info displayed from a remote U2000 using
WinAPRS.  My question is the wind disply when looking at the station.  It
apears to be missing a decimal.  I don't think winds are 54mph this
morning, but I have not really ventured out yet.

I am using the latest version found on the TAPR FTP site.  I can send the
actual data string from the remote U2000 if needed.

Thanks

KD4GOE
Geoff Peacock                                                        '''
Mobile Area Free-Net, Inc.                                          (o o)
_______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                         (334) 405-4600
```

680. Magellan 3000, Data Connection

From: pgreen4@juno.com (Phillip R Greenland)
Date: Sun, 24 Nov 1996 17:55:20 PST
To: aprssig@tapr.org
Message-ID: <19961124.175701.15230.3.pgreen4@juno.com>
Rendered body type: text/plain

```
Hello All:
I'm looking for info/help with making connections with GPS and TNC. I
have a Magellan 3000 with Power/Data module and KPC-3 with v 6.0
firmware. The info that came with the P/D module lists ,
Red  = V+
Black  = GND
Yellow = Data Send
Orange = Data Rcv.
```

The KPC-3 Cabling to GPS,
* connect signal ground of GPS data port to pin 7 of KPC-3 serial port.
This wire may be identified as "NMEA-" by some GPS Vendors.
* connect the "data output pin" of the GPS data port to pin 2 of KPC-3
serial port.The data output pin may be identified as "NMEA+" by some GPS
Vendors.
* KPC-3 serial port provide for signals that swing PLUS and MINUS
approximately 8 volts. Check GPS manual before connecting this wire to
make sure that the GPS is capable of handling these voltages.

The GPS info is unclear as what connect are to be made.

I'm wondering if anyone is using this equipment and can help me with
this.

Thank You
Phil Greenland , KB8QHM
pgreen4@juno.com

---

681. MIM Module Problems??

From: AC6JA@aol.com
Date: Sun, 24 Nov 1996 18:12:12 -0500
To: aprssig@tapr.org
Message-ID: <961124181211_1117621284@emout14.mail.aol.com>
Rendered body type: text/plain

finally hooked up my MIM module to the GPS-20 gps card but am now having
problems. gps card now doesn't seem to want to lock on to any satellites. i
am using the trimble mag mount antenna. when i use my garmin 45 with trimble
antenna and data out hooked up to MIM module, everything works fine. the
biggest problem seems to be if i enable the beacon for my beacon text and i
don't have a lock on any satellites, my beacon goes from once every 20
minutes to once every THREE seconds. problem goes away when there is valid
gps data on pin 20, like when i hook up the garmin 45. had been using the
gps-20 for quite some time in the truck with no problems. i am using a 7805
regulator for the 5v supply to the gps-20 and under load puts out 4.97vdc.
am powering the MIM module with 12v to pin 1.
also had a problem with the MIM module losing its stored data just by turning
the power off and on. seems like it's doing a reset after so many powerups?
any info from anyone who's gotten the abovementioned items working would be
GREATLY appreciated!
thanks!

Mike AC6JA

---

682. pk-232 mbx problems

From: robert marley <rmarley@erols.com>
Date: Sun, 24 Nov 1996 20:19:46 -0800
To: aprssig@tapr.org
Message-ID: <32991E62.5134@LU.LINCOLN.EDU>
Rendered body type: text/plain

I HAVE AN AEA PK-232 MBX THAT WILL NOT RELAY MY MOBILE POSTITS. I AM
USING APRSDOS VER 7.6D I CHECKED TO SEE IF MY ALIAS IS RELAY AND IT IS.
ALSO THERE WAS SOME TALK AWHILE BACK ABOUT THE ERROR LIGHT STAYING ON
WHEN CONNECTED TO A COMPUTER, IS THIS NORMAL? OR HOW DO YOU CHANGE THIS?

THANKS IN ADVANCE, de N3OBQ ROBERT MARLEY

---

683. Re: [APRSSIG:6735] Re: BUDLIST on KE4JJU-3 & WA4SSP-14

From: rwf <rwf@mindspring.com>
Date: Sun, 24 Nov 1996 20:11:31 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961124195937.006ebb58@mindspring.com>
Rendered body type: text/plain

Sounds like he may have a KPC-3 tracker with CMSG not set to DISC.
If someone connects to a unit in this configuration, it will stream until
the entire GPS track buffer has been sent over the channel.

always set CMSG to DISC on a KPC3 if you don't wanna make everyone go
crazy. Just ask Bob Winingham (hehe)

Ralph

At 06:07 AM 11/24/96 -0600, you wrote:
>
>> The problem KE4JJU-3 causes on my display is that it will stop processing
>> APRS and a wide horizontal RED band appears with ERROR 6. Yes, pressing
>> the ENTER button will get it going again but everything is lost from the
>> time the lockup happened. KE4JJU-3 is a WX station and I think the WX
>> data is the thing that crashes me.
> > WA4SSP-14 is sending zillions of position reports that contain nothing
>> but time and commas. They come so fast, it pushes the map off the top of
>> the screen displays the packet message down the left side of the display.
>>
>> I don't know either of these station/operators and I feel sure they are
>> not doing anything to intentionally cause me problems.
>
>   I often have the same problem. My screen fills with lines
>from Johns ssp-14 mobile. This only happens occasionally but when it
>does data processing stops until I hit enter. Somehow his tnc must be
>sending every sentence from his gps reciever, every second. I had
>recieved email from John but return mail was undeliverable. I shure
>enjoy his WX station and watching his mobile....well most of the time
>he he.
>
>
>charles
>
>
>cdavidso@neocomm.net
>http://www.neocomm.net/~cdavidso/
>WB4PAN@WB4QOJ.VA.USA.NOAM
>wb4pan@juno.com
>APRS ALDHA   ATC
>Georgia>97>Main   Chase
>
>

---

684. WinAPRS ACKS?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 24 Nov 1996 21:22:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961124211847.13986A-100000@arctic>
Rendered body type: text/plain

For weeks now, I have been trying to send messages to a local WinAPRS
station, but he never acks. He says he is getting my messages. But I
never see any acks although I do see his STATUS and POSITION packets. He
just upgraded a week or so ago, he said to fix the problem, but it is
still there... His position includes the string -117-<520> which I guess
is the WinAPRS version number.

I wont bother the Sprouls with this but has anoyone else had a simplar
experience..?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

685. Re: [APRSSIG:6716] BUDLIST on KE4JJU-3 & WA4SSP-14

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 24 Nov 1996 21:41:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961124213726.13986D-100000@arctic>
Rendered body type: text/plain

On Sat, 23 Nov 1996, Peter J Lascell wrote:

> The problem KE4JJU-3 causes on my display is that it will stop processing
> APRS and a wide horizontal RED band appears with ERROR 6.   KE4JJU-3 is
> a WX station and I think the WX data is the thing that crashes me.
>
> WA4SSP-14 is sending zillions of position reports that contain nothing
> but time and commas.

*** His TNC fell out of GPS mode and is in standard TNC mode. His
problem... Must be fixed!

> I run APRS 7.7C on a 286-12 MHz clone with math co-processor..

*** 77C should be imune to bad WX data. So I dont have a clue...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

686. Re: [APRSSIG:6716] BUDLIST on KE4JJU-3 & WA4SSP-14

From: Rick Tilton <Nationwide@mail.infoave.net>
Date: Sun, 24 Nov 1996 21:44:58 -0500
To: aprssig@tapr.org
Message-ID: <9611250244.AA09869@news2.infoave.net>
Rendered body type: text/plain

Hello Peter, I know WA4SSP and will forward along to him. I too am sure it is not intentional as John is a friend of mine and an "AVID" APRS fan. However, I am sure he will double check everything. Not sure why you are having problem but none of the locals have reported a problem. Hope it gets worked out.

Tnx.. Rick, N4WYK

>
>To band aid it I have used the LCALL and BUDLIST commands in the TNC to
>ignore KE4JJU-3 and WA4SSP-14.
>
>The problem KE4JJU-3 causes on my display is that it will stop processing
>APRS and a wide horizontal RED band appears with ERROR 6. Yes, pressing
>the ENTER button will get it going again but everything is lost from the
>time the lockup happened. KE4JJU-3 is a WX station and I think the WX
>data is the thing that crashes me.

>WA4SSP-14 is sending zillions of position reports that contain nothing
>but time and commas. They come so fast, it pushes the map off the top of
>the screen displays the packet message down the left side of the display.

>Any ideas guys?
>
>
>Peter Lascell
>Forest, VA
>w4wwq@juno.com
>
>

---

687. SEATTLE APRS INFO

From: ddobbins@juno.com (David S Dobbins)
Date: Sat, 23 Nov 1996 18:25:17 PST
To: aprssig@tapr.org
Message-ID: <19961123.185945.4463.0.ddobbins@juno.com>
Rendered body type: text/plain

For Seattle area APRS folks.... Just a reminder I'll be giving the APRS demo at the Boeing Amateur Radio Club (BARC) monthly meeting in Kent, Dec. 7th, 10:00 a.m. Following that, at 1:00 pm, the Puget Sound APRS group, led by Doug/K7IP, will host a coffee at nearby Kent coffeehouse. Details to follow. I think I remember hearing Doug say he'll buy the coffee and pie. I may have been dreaming, I don't know.

FYI, Gervie/W7FEN is now a WIDE. Thanks to Doug/K7IP and Richard/N7RIG for the help. This should improve Seattle APRS activity until we get the remote WIDE digi up and running. An outgoing path of WIDE,WIDE,N7REM will get you coverage throughout Puget Sound, down to the Chehalis area, where I'm located. Please don't WIDE,WIDE,WIDE as the packets will be duplicated.

Also, for those of you on the Bremerton side... I'll do the APRS dance again Dec 13th at the Belfair Radio Club dining out. Contact a club member for details.

Any ID-MT-WA-OR APRS not on distro for the monthly Greater Northwest APRS newsletter, please email me direct with name/cs, address, phone number, email address and general info. Thanks.

Don't forget to visit the GNW APRS WWW Home page hosted by Tom/KC7DRX:
http://www.hurricane.net/~eyephrase/aprs.htm

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com

688. Registration

From: Ron Drumheller <k3nxf@silcom.com>
Date: Sun, 24 Nov 1996 20:46:50 -0800
To: aprssig@tapr.org
Message-ID: <199611250446.UAA04297@beach.silcom.com>
Rendered body type: text/plain

```
Hi Bob,

I saw APRS about a year ago at the Pacificon Convention near Sacramento, Ca.
I obtained a diskette but did not do anything with it at that time.  I was
really impressed with the idea.  We can really use something like this for
our ARES operation here. We also do many public service events in the area.

Last weekend I attended a Search & Rescue Symposium at Vanderburg AirForce
Base. There was a presentation on APRS there and that did it for me.  I can
home and found the diskette and unzipped the programs.  My two friends and I
also purchased a Garmin 45XL GPS.  I don't even know how to use it but it
should arrive at my house by this Wednesday so I can spend Thanksgiving
getting to know it.

I am realy having quite a time trying to figure out your program.  I wish
with all the documentation that there would be a "Getting Started" document.
You know, first do this, then do that, etc.  I am getting the feel of it but
it will take some practice to get eveything right.  My other two friends are
depending on me to teach them.  There are also about five others that are
watching to see what we do with this new Amateur Radio concept.

I have found out the hard way that the program will not save any of my
information.  I found a statement that the program will only save when it is

registered.  I also have an old copy which is 7.3d.  I will download the
most current version tomorrow from TAPR.  I do not have my LAT/LONG yet
unitl my GPS arrives and I learn how to use it.

Would you trust me with the unlock code for the shareware registration and
the registration of the GPS.  I WILL send you a check for $33.00 by the end
of the week when I get my LAT/LONG and the version of APRS.  If not, I will
just have to wait for a couple of weeks until my check gets to you and you
mail the codes back to me.  My other two friends WILL register their copy of
your software as soon as I show them how to use it.

Whatever you decide, I understand, but it would sure help if I could get
started without having to wait a couple of weeks.

Sincerely,
73,

Ronald Drumheller, K3NXF
471 Calor Drive
Buellton, CA  93427

Assistant Emergency Coorindnator
Santa Barbara Counry A.R.E.S.

P.S.  Email is   k3nxf@silcom.com

      Checkout my home page at   www.silcom.com/~k3nxf
```

---

689. Garmin 210 auto turn-off?

From: rogerwn7m@juno.com (Roger J Attwell)
Date: Sun, 24 Nov 1996 23:25:45 PST
To: aprssig@tapr.org
Message-ID: <19961124.232553.7622.5.Rogerwn7m@juno.com>
Rendered body type: text/plain

```
Does someone know why a Garmin 210 chart GPS turns itself off at random
times. I suspect it is a combination of weak signals and bad ignition
noise making operation undependable, but you'd think it would just give
a warning message, not turn off. More than one unit has done this. A
higher antenna mounting didn't fix it.
```

---

690. Re: [APRSSIG:6739] pk-232 mbx problems

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Mon, 25 Nov 1996 06:37:43 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9611250618.A16975-0100000@bcfreenet>

Rendered body type: text/plain

```
One of the problems, APRS-wise, with the PK23 is that it can send too much
information to the computer which will prevent APRS from doing it's thing.
Set the MON to 2.  This will limit the packet description, generated by
the PK232, from interfering.

73


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Sun, 24 Nov 1996, robert marley wrote:

> I HAVE AN AEA PK-232 MBX THAT WILL NOT RELAY MY MOBILE POSTITS.  I AM
> USING APRSDOS VER 7.6D  I CHECKED TO SEE IF MY ALIAS IS RELAY AND IT IS.
> ALSO THERE WAS SOME TALK AWHILE BACK ABOUT THE ERROR LIGHT STAYING ON
> WHEN CONNECTED TO A COMPUTER, IS THIS NORMAL? OR HOW DO YOU CHANGE THIS?
>
>                THANKS IN ADVANCE,  de N3OBQ  ROBERT MARLEY
>
```

---

691. Re: [APRSSIG:6735] Re: BUDLIST on KE4JJU-3 & WA4SSP-14

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Mon, 25 Nov 1996 09:57:47 -0500
To: aprssig@tapr.org
Message-ID: <3299B3EB.A4@lerc.nasa.gov>
Rendered body type: text/plain

```
KPC-3 TNCs that are set to becan at specific times i.e. every 5 mins at
10 seconds after the minute, will at certain times send continues POSITS
for a solid minute.  I don't know if Kantronics ever fixed this.

Steve - W8HF



>
>         I often have the same problem. My screen fills with lines
> from Johns ssp-14 mobile. This only happens occasionally but when it
> does data processing stops until I hit enter. Somehow his tnc must be
> sending every  sentence from his gps reciever, every second. I had
> recieved email from John but return mail was undeliverable. I shure
> enjoy his WX station and watching his mobile....well most of the time
> he he.
>
> charles
>
>
> cdavidso@neocomm.net
> http://www.neocomm.net/~cdavidso/
> WB4PAN@WB4QOJ.VA.USA.NOAM
> wb4pan@juno.com
> APRS ALDHA   ATC
> Georgia>97>Main    Chase
```

---

692. Re: WinAPRS 1.1.7 lockup

From: morganb@inetport.com (Robert B. Morgan)
Date: Mon, 25 Nov 1996 09:25:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611251525.JAA23585@admin.inetport.com>
Rendered body type: text/plain

```
Mark,

I had browsed my way through the symbol list of WinAPRS to see what
was in there, following some discussion of available symbol types
here on the SIG, and it locked up on me.  At that point, the only thing
in control was the reset pushbutton.  That was under the 1.1.7 BETA that
you had sent a few of us, and it consistently froze about symbol #22.

I finally went and retrieved the regular 1.1.7 release from TAPR and
just now loaded it, and this time it froze again, but at about symbol #18
or so.  I didn't take the time to see if it would repeat at that point.

I am running Win 3.1 and Win32S, with a 386 system with 8B of memory,
and one TNC.
```

I got the registration OK last week, thanks.
73 de Bob WB5AOH

Robert Morgan
Austin Texas
morganb@admin.inetport.com

---

693. NTS traffic via APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 25 Nov 1996 10:43:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961125103025.19742A-100000@arctic>
Rendered body type: text/plain

Seeing that many routine NTS messages are pretty compact and that many EOC's already have packet stations for NTS but are hesitant to replace that capability with APRS, I thought it might be handy to have a modest NTS capability in APRS. To explore this idea, I wrote the attaached test program to show how it would look in APRS and how the operator would be prompted for the information in standard NTS format.

Just cut off this text and run this under QBasic...

```
CLS : SCREEN 9
PRINT " This program suggests how I might add an NTS delivery page to"
print " APRS.  NTS messages are usually very brief and can probably be"
PRINT " handled in APRS with little problems with congestion during"
PRINT " routine operations.  For BULK handling of traffic or during heavy"
PRINT " use, this type of traffic should best be handled on alternate"
PRINT " frequencies using standard ax.25 packet."
LOCATE 9, 50: PRINT "de WB4APR"
LOCATE 15, 1: INPUT "Hit ENTER key to continue..."; a$

DO
 CLS
 LINE (0, 0)-(640, 54), 14, BF
 LOCATE 2, 25: PRINT " THE AMERICAN RADIO RELAY LEAGUE "
 LOCATE 3, 32: PRINT " R A D I O G R A M "

 LOCATE 5, 1: PRINT " Number Precedence Hndlng Origin Stn Check Place of";
 PRINT " Origin       Time    Date"
 LOCATE 6, 1: PRINT " 13     routine            WB4APR     13   ";
 PRINT " Annapolis Maryland    1435EST Nov 27";
 LOCATE 8, 2: PRINT "Addr:  Bob Bruninga, WB4APR"
 LOCATE 9, 9: PRINT "115 Old Farm Court"
 LOCATE 10, 9: PRINT "Glen Burnie, MD 21060"
 LOCATE 11, 9: PRINT "United States of America"
 LOCATE 12, 2: PRINT "Phone:"
 LOCATE 8, 40: PRINT "This message was received at"
 LOCATE 9, 40: PRINT "Station: W3ADO   Phone: 1-410-293-4380"
 LOCATE 10, 40: PRINT "Name:    Bob Bruninga"
 LOCATE 11, 40: PRINT "Addr:    115 Old Farm Ct"
 LOCATE 12, 40: PRINT "City:    Glen Burnie, MD 21060-xxxx"

 LOCATE 14, 2: PRINT "BT ____________"
 LOCATE 15, 2: PRINT "   ____________"
 LOCATE 16, 2: PRINT "   ____________"
 LOCATE 17, 2: PRINT "   ____________"
 LOCATE 18, 2: PRINT "   ____________"
 LOCATE 20, 2: PRINT "Signature:"
 LOCATE 21, 2: PRINT "Received:": LOCATE 21, 28: PRINT "|"
 LOCATE 21, 45: PRINT "|Sent:": LOCATE 21, 65: PRINT "|"

 LINE (0, 94)-(300, 172), 15, B
 LINE (308, 94)-(639, 172), 15, B
 LINE (0, 54)-(639, 84), 15, B
 LINE (60, 54)-(60, 84), 15
 LINE (148, 54)-(148, 84), 15
 LINE (204, 54)-(204, 84), 15
 LINE (292, 54)-(292, 84), 15
 LINE (340, 54)-(340, 84), 15
 LINE (516, 54)-(516, 84), 15
 LINE (580, 54)-(580, 84), 15
 GOSUB ReLine

REM GOTO Text
 P$ = "Number": l = 6: c = 2: n = 6: GOSUB Box
 P$ = "Precedence": c = 9: n = 10: GOSUB Box
 P$ = "Handling Instructions": c = 20: n = 6: GOSUB Box
 P$ = "Staion of Origin": c = 27: n = 10: GOSUB Box
 P$ = "Word Check": c = 38: n = 5: GOSUB Box
 P$ = "Place of Origin": c = 44: n = 21: GOSUB Box
 P$ = "Time Filed": c = 66: n = 7: GOSUB Box
 P$ = "Date Filed": c = 74: n = 6: GOSUB Box

 P$ = "TO Address (line 1)": l = 8: c = 9: n = 28: GOSUB Box
 P$ = "TO Address (line 2)": l = 9: c = 9: GOSUB Box
 P$ = "TO Address (line 3)": l = 10: c = 9: GOSUB Box
 P$ = "TO Address (line 4)": l = 11: c = 9: GOSUB Box

Text:
 LOCATE 23, 1
 PRINT " Enter TEXT in words up to a maximum of 25 (End with BT)"
 LINE (0, 307)-(639, 322), 14, B
 FOR i = 1 TO 25
     Ln = INT((i - .5) / 5)
     Wn = i - Ln * 5
     LOCATE 14 + Ln, 5 + 15 * (Wn - 1)
     PRINT "____________"
     LOCATE 14 + Ln, 5 + 15 * (Wn - 1)
     LINE INPUT a$
     IF UCASE$(a$) = "BT" THEN i = 25
 NEXT
 P$ = "Signature block:": l = 20: c = 13: n = 66: GOSUB Box: GOSUB ReLine
 P$ = "Received From:": l = 21: c = 13: n = 14: GOSUB Box: GOSUB ReLine
 P$ = "Received Date/Time:": c = 30: n = 13: GOSUB Box: GOSUB ReLine
 P$ = "Sent To:": c = 52: GOSUB Box: GOSUB ReLine
 P$ = "Sent at Date and Time": c = 67: n = 13: GOSUB Box: GOSUB ReLine

 P$ = "Hit ctrl-break to quit": GOSUB Prompt
LOOP

Box: GOSUB Prompt: LOCATE l, c: PRINT LEFT$(a$ + SPACE$(28), n): RETURN

Prompt:
 LOCATE 23, 1
 PRINT SPACE$(80);
 LOCATE 23, 1
 PRINT " "; P$;
 LINE (0, 307)-(639, 322), 14, B
 PRINT "? ";
 LINE INPUT a$
 a$ = UCASE$(a$)
 LOCATE 23, 1: PRINT SPACE$(80);
 LINE (0, 307)-(639, 322), 0, B
 RETURN

ReLine:
 LINE (0, 176)-(639, 266), 15, B
 LINE (0, 266)-(639, 280), 15, B
 LINE (0, 280)-(639, 294), 15, B
 RETURN

END
```

---

694. RE: [APRSSIG:6680] Re: AEA out of business

From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
Date: Mon, 25 Nov 1996 08:56:00 -0800 (PST)
To: aprssig <aprssig@tapr.org>
Message-ID: <3299BFA4@gismtpgate.gi.com>
Rendered body type: text/plain

I actually got a phone call from Mike Lamb N7ML (AEA Pres.?) regarding a gripe I had with the DSP-232 I had just purchased. I also have spoken to their tech support line, and I just got a firmware upgrade in the mail. (Not the one they promised, though.)

I don't think they're exactly out of business...

Dave Borcher K7NG
dborcher @nogmail.gi.com

From: aprssig
To: aprssig
Subject: [APRSSIG:6680] Re: AEA out of business
Date: Thursday, November 21, 1996 6:58PM

I had heard rumore of this one or two months ago from a industry insider. My co-worker could also not get a PK-232 replaced 4 months ago (insurance replacement after zeus zapped it!) and was given a DSP-12 instead.

>A.E.A. Out of Business. According to numerous reports A.E.A. has
>suspended business operations and its employees laid off.
>--
>Rick Szpyrka   WB8TIF
>Bloomfield Hills, MI USA
>Email: wb8tif@cris.com or wb8tif@amsat.org
>URL: http://www.concentric.net/~wb8tif
>
>

---

695. PARS Documentation

From: rbeckett@Schwab.COM
Date: Mon, 25 Nov 1996 08:28:22 +0000
To: aprssig@tapr.org
Message-ID: <9611251628.AA16390@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

I have been following the Prs sig for several weeks now. I have downloaded wqprs117 and tried to understand how this new apsect of ham radio works. I can't seem to find a good set of documentation which presents a coherient explanation of aprs operation. For example, I see references to WIDE.WIDE.WIDE but I have no idea what it means and how should I set up my system.
Currently I would like to be able to track aprs units in my area or even world wide if that is posiable. My station is on s sailboat in the San Francisco bay and I figured out how to enter the appropiate information and sysbol but it was not easy. I had to use a lot of intution to get there.

73 - Rich WB6EEE

---

696. Software

From: "Paul Beckmann" <paul@eye.psych.umn.edu>
Date: Mon, 25 Nov 96 11:07:11 CST
To: aprssig@tapr.org
Message-ID: <9611251707.AA02105@eye.psych.umn.edu>
Rendered body type: text/plain

Hi.
  I'm one of the purchasers in the second batch of GPS-20's from TAPR.
I'm also part of the TAC-2 alpha group. I have a couple of questions
that I thought members of this group may be able to help me with:

1. Is there a WWW site that describes the NEMA command set for GPS's like the GPS-20? I have the Garmin docs. Just wanted a larger look. By the way: Is the "*hh" at the end of all sent and received sentences a hexadecimal checksum? It's never called out in the doc.

2. I've had a hell of a time trying to access my serial I/O under DOS 6.0 from Borland C++ and would like to put together a series of code snippets for the TAPR/TAC documentation that show how this can be done from a number of languages for both the PC and Mac. Do any of you have snippets of this type that you'd be willing to share for this purpose?

Best 73's--
  and best wishes to all non-ham members of this group...

Paul Beckmann
wa0rse@amsat.org

---

697. re: emergency comms

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 25 Nov 96 12:36:26 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.848943386.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

>...
>Authors are recommending a decentralization of emergency information
>systems, with open access and horizontal communications. "Information
>volunteers" would log in information, "possibily into a schematic
>block-by-block display of a city". This would somehow be accessed by
>dialing 711. (this part not too clear). Amateur radio was not mentioned,
>but this has APRS written all over it.

```
>
>73, Sam KJ6BU
>sams@jetlink.net

Professor Noam's callsign is KE2PN.  He's given congressional
testimony about spectrum auctions too.  Every year, 20-30 of his MBA
students in Management of Information, Communications and Media
get their Technician licenses as part of a course he teaches
(primarily at exams run by our VE team which we bring over to a
lecture room in the B-school since they wouldn't fit in our little
conference room).  We've tried to get his students to stop by the
W2AEE shack and operate but they are generally too busy with their
coursework (as is the case in general with students here).  But at
least they are a little bit familiar with the Amateur Service and
might pick it up later...

Noam is the director of the Columbia Institute for Tele-Information, CITI.
See http://www.ctr/citi/index.html if you're interested.

After I read the article maybe I'll approach him with an APRS demo.
He strikes me as being much more on a theoretical plain though,
not to mention way too busy....

73 de Alan N2YGK
```

698. Re: [APRSSIG:6752] PARS Documentation

From: Mark Sproul <sproul@ap.org>
Date: Mon, 25 Nov 1996 12:25:24 -0500
To: aprssig@tapr.org
Message-ID: <v0300780aaebf86986a5a@[165.1.27.20]>
Rendered body type: text/plain

```
>I have been following the Prs sig for several weeks now. I have
>downloaded wqprs117 and tried to understand how this new apsect of
>ham radio works. I can't seem to find a good set of documentation
>which presents a coherient explanation of aprs operation. For
>example, I see references to WIDE.WIDE.WIDE but I have no idea what
>it means and how should I set up my system.
>Currently I would like to be able to track aprs units in my area or
>even world wide if that is posiable. My station is on s sailboat in
>the San Francisco bay and I figured out how to enter the appropiate
>information and sysbol but it was not easy. I had to use a lot of
>intution to get there.
>
>73 - Rich WB6EEE



Full documenatation is at

        http://aprs.rutgers.edu/APRS/

If anyone has problems getting it, drop me a note DIRECTLY (not to the sig)
and I will email you the docs, specify if you want them in TEXT form or
HTML, I recomend HTML, you then open the file in netscape and get all of
the graphics.

By having it locally you do not have to wait for the speed of the net to
get the info.


Mark

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

699. Re: [APRSSIG:6750] NTS traffic via APRS

From: Doug Wittich <dwittich@concentric.net>
Date: Mon, 25 Nov 1996 17:35:32 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961125223532.00677558@pop3.concentric.net>
Rendered body type: text/plain

```
> LOCATE 17, 2: PRINT "   ____________"
> LOCATE 18, 2: PRINT "   ____________"
> LOCATE 20, 2: PRINT "Signature:"
> LOCATE 21, 2: PRINT "Received:": LOCATE 21, 28: PRINT "|"
> LOCATE 21, 45: PRINT "|Sent:": LOCATE 21, 65: PRINT "|"
>
```

Bob, it looks great!   I don't have QBASIC, so I can't see it, I had to read the code to see what was happening.

Some additions, if possible: There is a second BT after the message, immediately before the signature. This is NTS std.

Our practice in the EOC and ARES nets is to also include at in the SENT and RECEIVED blocks, the actual operator callsign doing the work, along with an indication of net or freq. This is, of course, only for our end of the message.   We have the callsign of the end sending it or taking it from us, but that callsign is quite often a club, RACES or ARES callsign.   Example for this msg:

Received: N3VEJ 11/25 1703est Via SIG   Sent: ...

Also, the only time both Sent and Received would be filled in would be on a copy that was relayed through the particular station.   So a Sending station would get the mark in SENT,and the Receiving station gets the same timestamp in it's received field, but with a different operator ID.

Doug

ps. Wish you coulda played in the hunt. He was on top of a 833' hill at Prettyboy Elem, Balto Co map page 2, down near the bottom.   Chuck was then at Hampstead Elem, also a very high spot.

---

700. Re: [APRSSIG:6750] NTS traffic via APRS

From: Doug Wittich <dwittich@concentric.net>
Date: Mon, 25 Nov 1996 17:39:20 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961125223920.0067dd90@pop3.concentric.net>
Rendered body type: text/plain

```
> LOCATE 17, 2: PRINT "   ____________"
> LOCATE 18, 2: PRINT "   ____________"
> LOCATE 20, 2: PRINT "Signature:"
> LOCATE 21, 2: PRINT "Received:": LOCATE 21, 28: PRINT "|"
> LOCATE 21, 45: PRINT "|Sent:": LOCATE 21, 65: PRINT "|"
>
```

Bob, it looks great!   I don't have QBASIC, so I can't see it, I had to read the code to see what was happening.

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Doug

ps. Wish you coulda played in the hunt. He was on top of a 833' hill at Prettyboy Elem, Balto Co map page 2, down near the bottom.   Chuck was then at Hampstead Elem, also a very high spot.

---

701. Response to BUDLIST

From: w4wwq@juno.com (Peter J Lascell)
Date: Mon, 25 Nov 1996 22:34:37 EST
To: aprssig@tapr.org
Message-ID: <19961125.212110.4543.1.W4WWQ@juno.com>
Rendered body type: text/plain

```
If the subject line is BOLD and threatening, it looks like it gets read,
and I thank many of you who have responded here on the SIG and directly
to me.

The issues with WA4SSP-14 I am certain will be resolved quickly if not
already as I write this.  From getting 4 position reports in each packet
burst, and then the ping-ponging effect of going through too many WIDEs,
it was just too much.

I have given up on the WX station issue and will continue to lock him
out.  So far, so good.  The computer hasn't crashed again if four days.
The WX station is 125 bird miles away and not direct anyway, so I think I
can afford to pass on that.  There are a lot of Northern Virginia
stations that should have a better opportunity to observe if there is
really bad data coming from him much better than I.  If someone does
figure it out so that I can kill the filters,or change some other
parameter here, so much the better.

Thanks again SIG for the feedback.

Peter Lascell
Forest, VA
w4wwq@juno.com
```

---

702. MCX connector source?

From: Alan Biddle <APBIDDLE@worldnet.att.net>
Date: Tue, 26 Nov 1996 12:16:17 +0000
To: aprssig@tapr.org
Message-ID: <3.0.32.19961126121531.0068642c@postoffice.worldnet.att.net>
Rendered body type: text/plain

```
Hi,

Does anyone know a small lot source for the MCX connectors/adapters used in
the Garmin 20 antenna?


Alan
WA4SCA
```

---

703. mail archieve search is ready

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 26 Nov 1996 09:12:31 -0600
To: aprssig@tapr.org
Message-ID: <v03007802aec06457137b@[138.87.2.109]>
Rendered body type: text/plain

```
Now you can lookup previous mail comments by using the URL:
http://www.tapr.org/tapr/html/taprmailsearch.html

or you can use the 'FIND' button at the bottom of each page to get to the
search pages.

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

704. Re: [APRSSIG:6756] Re: NTS traffic via APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Nov 1996 12:22:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961126122202.11369B-100000@arctic>
Rendered body type: text/plain

```
Please pass along the NTS idea to the fellow in your club that asked for
it.  His request is what encouraged me into action...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

705. [APRSSIG:6738] Re: MIM Module Problems??

From: Terrance Kealey <tkealey@mdc.com>
Date: Tue, 26 Nov 1996 12:53:43 -0600
To: aprssig@tapr.org
Message-ID: <s29ae8c7.034@mdc.com>
Rendered body type: text/plain

```
Mike,
I have the same problem with the beacon text being transmitted every
few second when using the MIM and GPS-20. This usually occurs for
about 2 minutes after turn on - until the position becomes valid. It will

also occurs 30 seconds after you lose satellite lock. My work around
has been to connect a switch and LED to the PTT out line and connect
the PTT after the LED quits flashing every few seconds. Another option
is to turn off the beacon text. As long as the RMC data out of the
GPS-20 is valid, the MIM works great.

I think the problem is the result of the GPS-20 using a few more decimal
places for some of the data fields. This caused a problem with the MIC
Encoder velocity being output incorrectly. I just received an updated
controller chip for the MIM module and my preliminary testing indicates
that these problems have been fixed. I did see a few oddities, but due
to it being late at night when I played with it and the need for a wiring
modification, I will need to look at it closer. I will probably not have time
to do any additional testing  until after this week end.

The other problem you had with the EEPROM data being lost is also
something that I have experienced. This would happen if I cycled
power a couple time in quick succession. I have not had this problem
for awhile, probably due to my not resetting the GPS as much since I
threw out my patch antenna and got an amplified mag mount. The patch
antenna was only receiving about half the satellites and I would cycle
power to both the GPS and MIM (only one power input) because I
thought the GPS was locking up. I probably dumped memory 3 or 4
times doing that, but since it is now powered up when I turn on the
ignition, I have not had any problems.

I don't know if this has been any help, but I have seen the same
problems.

Terry, KI0BF


>>> <AC6JA@aol.com> 11/24/96 05:19pm >>>
finally hooked up my MIM module to the GPS-20 gps card but am now
having problems.  gps card now doesn't seem to want to lock on to any
satellites.  i am using the trimble mag mount antenna.  when i use my
garmin 45 with trimble antenna and data out hooked up to MIM module,
everything works fine.  the biggest problem seems to be if i enable the
beacon for my beacon text and i don't have a lock on any satellites, my
beacon goes from once every 20 minutes to once every THREE
seconds.  problem goes away when there is valid gps data on pin 20,
like when i hook up the garmin 45.  had been using the gps-20 for quite
some time in the truck with no problems.  i am using a 7805 regulator
for the 5v supply to the gps-20 and under load puts out 4.97vdc.
 am powering the MIM module with 12v to pin 1. also had a problem
with the MIM module losing its stored data just by turning the power off
and on.  seems like it's doing a reset after so many powerups? any info
from anyone who's gotten the abovementioned items working would be
GREATLY appreciated! thanks!

Mike  AC6JA
```

---

706. Re: [APRSSIG:6759] MCX connector source?

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Tue, 26 Nov 96 19:23:28 UTC
To: aprssig@tapr.org
Message-ID: <5047@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
Re MCX connectors -- here is a replay of a message I posted a few weeks ago:

> From: clark@tomcat.gsfc.nasa.gov
> To: aprssig@tapr.org
> Subject: [APRSSIG:6124] Re: GPS-20
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio  APRS Special Interest Group
> In-Reply-To: your message of Fri, 1 Nov 1996 17:22:35 -0600 (CST).
>
> The easiest/fastest source for MCX xconnectors is DigiKey. You can contact
> them at 1-800-DIGIKEY or at http://www.digikey.com
>
> I recommend the J-536 connector listed for RG316. It fits RG174 fine.
> The right-angle connectors are much easier to install and there is no
> need to pay for the gold finish. Digikey's 1-9 price is $5.23, dropping
> to $4.59 at qyty=10. If you have therir July/August 96 catalog # 964, they
> are shown on page 73.
>
> 73, Tom
```

707. Question on APRS Routing (flooding)

From: Richard Parry <rparry@qualcomm.com>
Date: Tue, 26 Nov 1996 11:33:48 -0800
To: aprssig@tapr.org
Message-ID: <v03007802aec0f3124b51@[129.46.159.136]>
Rendered body type: text/plain

```
Can anyone answer this APRS Network Routing Question ("Flooding")

Question: As I presently understand APRS routing, it seems the APRS routing
scheme of using RELAY and WIDE to repeat a packet should fail.

    For example, assume I send:    W9IF>RELAY>APRS etc. etc. etc.

    Now if all the "RELAY" stations that hear my packet repeat my packet,
then they will all collide with each other, right?  This is called flooding
in network terminology.  In other words, it sure seems like the network
will "explode" with everyone repeating my packet at the same time.  What am
I missing?

    I know that I am wrong since APRS works, but I sure don't understand
where my reasoning fails.  Thanks in advance for anyone explaining this.



---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link
Internal Web --> <http://qcwww/~rparry>
External Web --> <http://www.qualcomm.com/~rparry>
---------------
```

708. Re: [APRSSIG:6762] Re: MIM Module Problems??

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Tue, 26 Nov 1996 16:07:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611262107.QAA17956@itchy.mosquito.com>
Rendered body type: text/plain

```
At 12:59 11/26/96 -0600, you wrote:
>Mike,
>I have the same problem with the beacon text being transmitted every
>few second when using the MIM and GPS-20. This usually occurs for
>about 2 minutes after turn on - until the position becomes valid. It will
>also occurs 30 seconds after you lose satellite lock.

W2HOB REPLY:
Fellows:

I have never had this happen and I built two each of the GPS-20 and MIM 1.06
combos to make two standalone trackers.  Maybe something was fixed in MIM
version 1.06 or...

Maybe you don't have your parms configured... everything works from the base
period (PER) so it must be set first. The BEACON period, the TELEMETRY
period, and the POSITION period are all multiples from the base period.
Sounds like you may be transmitting data in the "raw" mode... check the
docs... they're pretty clear on this.

Even if no POSITION, COURSE, and SPEED data is present out of the GPS-20, it
will still send NULs to let you know it's alive. That's handy!  What version
might y'all be running (MIM) and what do your parms look like. I'll help if
I can.

 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

709. Re: [APRSSIG:6764] Question on APRS Routing (flooding)

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Tue, 26 Nov 1996 16:11:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199611262111.QAA18008@itchy.mosquito.com>
Rendered body type: text/plain

```
At 13:40 11/26/96 -0600, you wrote:

>    For example, assume I send:    W9IF>RELAY>APRS etc. etc. etc.
>
>    Now if all the "RELAY" stations that hear my packet repeat my packet,
>then they will all collide with each other, right?  This is called flooding
>in network terminology.  In other words, it sure seems like the network
>will "explode" with everyone repeating my packet at the same time.  What am
>I missing?


W2HOB REPLY:

If you're a mobile (the only stations that should be using RELAY,WIDE, etc),
then the chances of very many RELAYs hearing you are reasonably low.  Only
the ones that hear you will digipeat you... yeah, some collisions but not to
the "flood" extent and not serious.

 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

---

710. Re: [APRSSIG:6763] Re: MCX connector source?

From: Alan Biddle <APBIDDLE@worldnet.att.net>
Date: Tue, 26 Nov 1996 21:42:50 +0000
To: aprssig@tapr.org
Message-ID: <3.0.32.19961126214144.0068bb3c@postoffice.worldnet.att.net>
Rendered body type: text/plain

```
Tom,

Thanks for the replay.  I was not subscribed for a few weeks.  Also, some
kind soul reminded me about the TAPR archive search facility.

Again, thanks!

Alan
```

---

711. Re: [APRSSIG:6764] Question on APRS Routing (flooding)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 26 Nov 1996 18:06:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961126180343.26081C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 26 Nov 1996, Richard Parry wrote:

> Can anyone answer this APRS Network Routing Question ("Flooding")
>
>     For example, assume I send:    W9IF>RELAY>APRS etc. etc. etc.
>
>     Now if all the "RELAY" stations that hear my packet repeat my packet,
> then they will all collide with each other, right?  This is called flooding

APRSdos REPLY/COMMENT: How many other stations will really hear you
direct?  Maybe one or two.  They will both digipeat you once..  THey might
colide, (for someone listeneing in the middle between them, but their
packets may be heard separately by more distant stations.  But no one else
willl digipeat since these first 2 used up the RELAY hop.  This is why you
should NEVER send via RELAY more than one hop and RELAY, if used, should
be the first DIGI hop...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

712. Re: [APRSSIG:6765] Re: MIM Module Problems??

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Tue, 26 Nov 1996 18:32:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.SV4.3.95.961126183221.16832A-100000@outland.dtcc.edu>
Rendered body type: text/plain

```
I experienced these problems with the MIM v1.02 and 1.04 - I wonder if an
older MIM got mixed in?
```

On Tue, 26 Nov 1996, Boyd Prestwood wrote:

> At 12:59 11/26/96 -0600, you wrote:
> >Mike,
> >I have the same problem with the beacon text being transmitted every
> >few second when using the MIM and GPS-20. This usually occurs for
> >about 2 minutes after turn on - until the position becomes valid. It will
> >also occurs 30 seconds after you lose satellite lock.
>
> W2HOB REPLY:
> Fellows:
>
> I have never had this happen and I built two each of the GPS-20 and MIM 1.06
> combos to make two standalone trackers. Maybe something was fixed in MIM
> version 1.06 or...
>
> Maybe you don't have your parms configured... everything works from the base
> period (PER) so it must be set first. The BEACON period, the TELEMETRY
> period, and the POSITION period are all multiples from the base period.
> Sounds like you may be transmitting data in the "raw" mode... check the
> docs... they're pretty clear on this.
>
> Even if no POSITION, COURSE, and SPEED data is present out of the GPS-20, it
> will still send NULs to let you know it's alive. That's handy! What version
> might y'all be running (MIM) and what do your parms look like. I'll help if
> I can.
>
> Have fun es 73 de Boyd
> w2hob@mosquito.com
>
>
>

```
****************************************************************
Dr. Sam Guccione        Delaware Technical & Community College
302-741-2802            1832 North duPont Highway
ARS K3BY                Dover, DE  19901
****************************************************************
```

---

713. Re: [APRSSIG:6762] Re: MIM Module Problems??

From: AC6JA@aol.com
Date: Tue, 26 Nov 1996 18:46:44 -0500
To: aprssig@tapr.org
Message-ID: <961126184643_1951251929@emout10.mail.aol.com>
Rendered body type: text/plain

thanks for your info. talked with will clement with clement engineering and he advised me that the problems i and you are/have had are due to bugs in the original eeprom. he advised me that a new eeprom is available for $20.00! i kinda felt that since the original MIM module could have never worked properly as i got it originally, that the new eeprom should not cost me anything. talked to will about this but i still have to pay an additional $20.00 to get the new eeprom. oh well, what can you do? got to have to corrected eeprom to get it to work properly. guess clement engineering also has a new MIM module based on surface mount components that is much smaller than the ones we have. they are also the same price of $90.00.
anyways, thanks again for the info, and will look forward to getting my new eeprom.

Mike AC6JA

---

714. Re: [APRSSIG:6765] Re: MIM Module Problems??

From: AC6JA@aol.com
Date: Tue, 26 Nov 1996 18:51:17 -0500
To: aprssig@tapr.org
Message-ID: <961126185116_1683655655@emout03.mail.aol.com>
Rendered body type: text/plain

thanks for your response. talked with clement enginnering and he advised me that my problems are due to me having an earlier version eeprom with those particular bugs. now i have to send in an additional $20.00 to get the newest version eeprom that fixes the MIM module that will never work right until that chip is replaced. oh well, what else can one do? ordered my new eeprom today and look forward to getting it all working correctly soon. hope

```
there aren't any "more" bugs that we have to pay an additional $20 to get
fixed.

thanks again.

Mike  AC6JA
```

715. Re: emergency comms

From: huey@juno.com (Huey M Fourquet)
Date: Mon, 25 Nov 1996 18:47:30 PST
To: aprssig@tapr.org
Message-ID: <19961126.180747.8582.0.huey@juno.com>
Rendered body type: text/plain

```
The article on emergency comms is available on the www at:

http://www.sciencemag.org/science/scripts/display/full/274/5288/739.html

Huey
N1HF

On Mon, 25 Nov 1996 11:41:41 -0600 (CST) Alan Crosswell
<alan@watsun.cc.columbia.edu> writes:
>>...
>>Authors are recommending a decentralization of emergency information
>>systems, with open access and horizontal communications. "Information
>>volunteers" would log in information, "possibily into a schematic
>>block-by-block display of a city".  This would somehow be accessed by
>>dialing 711. (this part not too clear).  Amateur radio was not
>mentioned,
>>but this has APRS written all over it.
>>
>>73, Sam KJ6BU
>>sams@jetlink.net
>
>Professor Noam's callsign is KE2PN.  He's given congressional
>testimony about spectrum auctions too.  Every year, 20-30 of his MBA
>students in Management of Information, Communications and Media
>get their Technician licenses as part of a course he teaches
>(primarily at exams run by our VE team which we bring over to a
>lecture room in the B-school since they wouldn't fit in our little
>conference room).  We've tried to get his students to stop by the
>W2AEE shack and operate but they are generally too busy with their
>coursework (as is the case in general with students here).  But at
>least they are a little bit familiar with the Amateur Service and
>might pick it up later...
>
>Noam is the director of the Columbia Institute for Tele-Information,
>CITI.
>See http://www.ctr/citi/index.html if you're interested.
>
>After I read the article maybe I'll approach him with an APRS demo.
>He strikes me as being much more on a theoretical plain though,
>not to mention way too busy....
>
>73 de Alan N2YGK
>
>
```

716. Re: [APRSSIG:6755] Re: PARS Documentation

From: rbeckett@Schwab.COM
Date: Tue, 26 Nov 1996 16:43:07 +0000
To: aprssig@tapr.org
Message-ID: <9611270042.AA08786@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

```
I copied your information and it was very helpful but I still don't
seem to be able to find a good set of documentation which will tell
me what this WIDE,WIDE,WIDE is about. I know it is in the TNC
settings but I don't know what it means and it's not described under
the "Settings" - "TNC" section of the documentation you sent me. It
does appear under "UNPROTO path"
The documentation says "Do NOT put more than one GATE in your path."
but the default shows "gate,gate,wide"
I don't understand what the Gateway item is. Perhaps it doesn't
matter in my case at this time. However I do know that eventually I
will be running both VHF and HF from my Kantronics Plus.
Rich
(415) 636-8340 - work
```

(510) 521-1559 - Beckett & Associates Office

---

717. [APRSSIG:6768] Re: Question on APRS Routing (flooding)

From: ttyamada@CCGATE.HAC.COM
Date: Tue, 26 Nov 96 17:21:03 PST8
To: aprssig@tapr.org
Message-ID: <9610268490.AA849057550@CCGATE.HAC.COM>
Rendered body type: text/plain

```
Also, please use a call sign rather than Relay
     if your running a stationary *base* setup.
     (esp. if you have any elevation &/or power)

     Thanks,
     Ted... KJ6ZJ


______________________________ Forward Header __________________________________
Subject: [APRSSIG:6768] Re: Question on APRS Routing (flooding)
Author:  aprssig@tapr.org at CCGATE
Date:    11/26/96 3:37 PM


APRSdos REPLY/COMMENT: How many other stations will really hear you
direct?  Maybe one or two.  They will both digipeat you once..  THey might
colide, (for someone listeneing in the middle between them, but their
packets may be heard separately by more distant stations.  But no one else
willl digipeat since these first 2 used up the RELAY hop.  This is why you
should NEVER send via RELAY more than one hop and RELAY, if used, should
be the first DIGI hop...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

718. Re: [APRSSIG:6759] MCX connector source?

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Tue, 26 Nov 1996 19:25:58 -0800
To: aprssig@tapr.org
Message-ID: <329BB4C6.5ECF@n-link.com>
Rendered body type: text/plain

```
Alan Biddle wrote:
Does anyone know a small lot source for the MCX connectors/adapters used
in the Garmin 20 antenna?

DiGiKey Has a source around $5.00 each...
1-800-344-4539
I am looking for RG 178 or RG 316
for use with the MCX

--
CUSTOM MUGS, 13 Dana drive, Lampasas Tx 76550-1113
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line:)
We Print your Color Photos onto coffee mugs.... Check us out.
```

---

719. APRS in Dec. Issue of 73 Amateur Radio Today Magazine

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Tue, 26 Nov 96 20:25 EST
To: aprs-fl@tapr.org, aprssig@tapr.org
Message-ID: <m0vSYky-000QdmC@nevets.oau.org>
Rendered body type: text/plain

```
If you do not have a subscription, head to the newstands and pick up
a copy of the December, 1996 issue of 73 Amateur Radio Today Magazine.
Bob Bruninga has an 8 page article featured in it, beginning page 10,
with lots of illustrations.

                              Geoffrey Dick
                              Winter Park, FL
                              wa4ikq@nevets.oau.org
```

---

720. Re: [APRSSIG:6773] Re: PARS Documentation

From: Bill Kearns <billk@inland.net>
Date: Tue, 26 Nov 1996 17:54:52 -0800
To: aprssig@tapr.org
Message-ID: <2.2.16.19961126180921.251f631c@inland.net>
Rendered body type: text/plain

At 06:49 PM 11/26/96 -0600, you wrote:
>I copied your information and it was very helpful but I still don't
>seem to be able to find a good set of documentation which will tell
>me what this WIDE,WIDE,WIDE is about.

The following paths are NOT considered good practice and should not normally be used... and if you do, some Do-gooder will fuss at you...

```
   RELAY,RELAY     - Some RELAY stations will never hear you due to colisions
                     but his may be ok if there are NO WIDES and no single
                     station has any better HAAT than any other
   .....WIDE,RELAY - NEVER do this.  EVERY home station for 50 miles will
                     key up on your every packet!
   WIDE,WIDE,WIDE  - Gets you out 3 hops in all directions but also results
                     in as many as 27 duplicate packets plus 30 seconds of
                     airtime.  Dont DO THIS!  No one will get through...
   WIDE,GATE       - You are QRMing the HF net which you cannot hear!
   WIDE,GATE,GATE,WIDE - You are QRMing every APRS net in the country!
```

The following paths are reasonable and are used under the circumstances shown:

```
   RELAY       - Default.  GOod starting place to see whats out there
   WIDE        - Covers your local area if there is a WIDE
   RELAY,WIDE  - Can link you into a WIDE but only if you cannot figure
                 out the call of your neighbor that is RELAYing you
   WIDE,WIDE   - Gets you out 2 hops in all directions with minimal foldback
   WIDE,WIDE,W3XYZ,W4XYZ - Gets out 2 hops in all directions and 4 hops
                           in the direction towards W4XYZ
```

hope this helps you out...

```
                                  /////
          Bill Kearns  WB6JAR    ( o o )        billk@inland.net

          --------------------------oOO--(_)--OOo-----------------------
```

721. Re: [PARSNIP:6772] Re: emergency comms

From: rwhart@ix.netcom.com (Roderick W. Hart)
Date: Wed, 27 Nov 96 02:42:08 GMT
To: aprssig@tapr.org
Message-ID: <M.112696.214208.60@col-md9-54.ix.netcom.com>
Rendered body type: text/plain

I REALLY HOPE THIS ISN'T ANOTHER SUGGESTION TO UNDO THE "ONE EMERGENCY NUMBER" CONCEPT. I AM GOING TO GET THE ARTICLE AND READ IT. HOPEFULLY THE NATIONAL EMERGENCY NUMBER ASSOCIATION (NENA), FEMA, AND APCO WILL BE CONSULTED BEFORE THESE IDEAS GET PROPAGATED AND THE WHOLE EMERGENCY COMMUNICATIONS SYSTEM FALLS APART.

On 11/26/96 7:06PM, in message <19961126.180747.8582.0.huey@juno.com>, Huey M Fourquet <huey@juno.com> wrote:

```
> Return-Path: <aprssig@tapr.org>
> Received: from tapr.org (tapr.org [204.17.217.20]) by ixmail2.ix.netcom.com
> (8.7.5/SMI-4.1/Netcom)
>   id QAA08826; Tue, 26 Nov 1996 16:47:34 -0800 (PST)
> Received: from tapr.org (localhost [127.0.0.1]) by tapr.org (8.7.5/8.7.3/1.9)
> with SMTP id SAA04855; Tue, 26 Nov 1996 18:06:43 -0600 (CST)
> Date: Tue, 26 Nov 1996 18:06:43 -0600 (CST)
> Message-Id: <19961126.180747.8582.0.huey@juno.com>
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> Precedence: bulk
> From: huey@juno.com (Huey M Fourquet)
> To: aprssig@tapr.org
> Subject: [APRSSIG:6772] Re: emergency comms
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio  APRS Special Interest Group
> X-Mailer: Juno 1.00
>
> The article on emergency comms is available on the www at:
```

>
> http://www.sciencemag.org/science/scripts/display/full/274/5288/739.html
>
> Huey
> N1HF
>
> On Mon, 25 Nov 1996 11:41:41 -0600 (CST) Alan Crosswell
> <alan@watsun.cc.columbia.edu> writes:
> >>...
> >>Authors are recommending a decentralization of emergency information
> >>systems, with open access and horizontal communications. "Information
> >>volunteers" would log in information, "possibily into a schematic
> >>block-by-block display of a city". This would somehow be accessed by
> >>dialing 711. (this part not too clear). Amateur radio was not
> >mentioned,
> >>but this has APRS written all over it.
> >>
> >>73, Sam KJ6BU
> >>sams@jetlink.net
> >
> >Professor Noam's callsign is KE2PN. He's given congressional
> >testimony about spectrum auctions too. Every year, 20-30 of his MBA
> >students in Management of Information, Communications and Media
> >get their Technician licenses as part of a course he teaches
> >(primarily at exams run by our VE team which we bring over to a
> >lecture room in the B-school since they wouldn't fit in our little
> >conference room). We've tried to get his students to stop by the
> >W2AEE shack and operate but they are generally too busy with their
> >coursework (as is the case in general with students here). But at
> >least they are a little bit familiar with the Amateur Service and
> >might pick it up later...
> >
> >Noam is the director of the Columbia Institute for Tele-Information,
> >CITI.
> >See http://www.ctr/citi/index.html if you're interested.
> >
> >After I read the article maybe I'll approach him with an APRS demo.
> >He strikes me as being much more on a theoretical plain though,
> >not to mention way too busy....
> >
> >73 de Alan N2YGK
> >
> >
>
>

--
Roderick W. Hart
Amateur Radio Station WA3MEZ

---

722. APRS/java

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Tue, 26 Nov 1996 19:19:45 -0800
To: aprssig@tapr.org
Cc: cap@cruzio.com
Message-ID: <199611270319.TAA21010@poseidon.coastside.net>
Rendered body type: text/plain

Hi to all (Siggers),
    REMYMSG 19TH on javAPRS active APRS MAPS and Win3.11..

  Want to thank all who responded to my msg. Steve/K4HG and
note his TIGER.GIF map of SanFran Bay area worth looking at,
and saving as a GIF file, Steve is it available in DOS file
format for Art/N2ZRC, he save all DOS maps he can find.???

Thanks to Marley & Hasan, who advised I have to again support
Mr. B Gates and his monopoly (He has enough money now). To
run javAPRS you gotta have WINDOWS 95.. The time of the year
to say Bah Humbug to that...

   I did find two places to dowload Win32S for Version 3.11
the 32bit version vice 16bit made for V3.11..

     The MS Web site, their file called PW1118.exe 2,174Kb file.
or and appears to be the same file/data/# of bytes. at
     http://www.ncsa.uiuc.edu/SDG/Software/Winmosaic/win32.htm..

They both have same nr of bytes in the file, so appears to both be the same.

    I download it to my V3.11 and took it fine added a bunch of
new files, but so far everything seems to be running ok and same
as before, except it will not run APRS active maps. I get the
very same statement as before.:
    "Sorry, your browser isn't Java compatable!!!!! "

   With Netscape Gold Ver3, booted up, under OPTIONS, NETWORK
PREFRENCES, LANGUAGES, it shows JAVA/JAVA SCRIPT. With two
boxes to mark X.. Enable java (real light and caint Mark)
     Have Marked "X" Enable Java script... (Only one can mark)
but still Java error msg not compatable comes up.. ????? Why..

  If javAPRS requires WIN95, what browser file or combination
of browser type files within WIN95 is required, anyone know
which ones and can they be loaded into Win#.11 for Work groups.
??? Big question of the day. Caint we steal couple of Win95
browser files and put em in Win3.11 ???

 Or, what is required to get javAPRS to work with Win3.11 ???
How about it programmers, everything else in this crazy computer
business can be written, anyone take a stab at this delema ???.

    I just don't want to DONATE, to GATES's palace in Puget
Sound again, and have to purchase Win95..

   And Cap, thanks for your input, have downloade the MS support
files you suggested but have not read them as yet. Located at:
   http://www.microsoft.com/windows/support/supptools.htm
consisting of 1. ASSIST.EXE 1,320.501 bytes, and WIN95APP.EXE.
Couple of HTM files, COMPATLI AND HWTEST...

  Again thanks all for your responses. I guess it's WIN95 or won't
see the active APRS maps in other areas.

  And I hope this is the last one. Delorme Trackmate in the TIGER
Software latest mail order catalog, is $199.99... "Never Get Lost
Again", yeh right..!!!!

    73's & Enjoy, Bill/WB6LPG
NNNN

WBB/WB6LPG

---

723. Re: [APRSSIG:6775] Re: RG 316?

From: Paul Stump <n0lrf@computer-services.com>
Date: Tue, 26 Nov 1996 21:29:07 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961126212637.1b37ade2@computer-services.com>
Rendered body type: text/plain

>I am looking for RG 178 or RG 316
>for use with the MCX

A few months ago I bought a spool of RG 316U. I'd be
glad to sell some at cost plus shipping. I'll check,
but I think it was about 90 cents per foot. I think
I've got a few extra straight MCX connectors too.

I'll never use up 100 feet myself...
73, Paul, n0lrf@computer-services.com

---

724. Re: [APRSSIG:6761] Re: NTS traffic via APRS

From: Doug Wittich <dwittich@concentric.net>
Date: Tue, 26 Nov 1996 22:43:04 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961127034304.006e4cd8@pop3.concentric.net>
Rendered body type: text/plain

At 11:23 AM 11/26/96 -0600, you wrote:
>Please pass along the NTS idea to the fellow in your club that asked for
>it. His request is what encouraged me into action...
>

I let him know last evening about the prototype code we saw here.   He's the

fellow that wrote the book I passed along to you, and he came up with the
mod for the callsigns in sent/rcved blocks.

He is quite the traffic handler, regularly scoring 120 or better PSHR every
month.

With the upcoming activity we're hoping for with Skywarn, it's a welcome
addition.

We're grateful that you're considering the idea.

Doug

---

725. Re: [APRSSIG:6737] Magellan 3000, Data Connection

From: "Leslie H. Loftin" <lhl@flash.net>
Date: Tue, 26 Nov 1996 21:58:19 -0600
To: aprssig@tapr.org
Cc: stauros@onramp.net
Message-ID: <329BBC5A.39E7@flash.net>
Rendered body type: text/plain

Philip and others needing Magellan 3000 information.
Contact Craig Green (N5WEH) at
stauros@onramp.net

Craig has put together an effective interface for the Magellan 3000 and
is quite knowledgeable about the Magellan series of GPS receivers. This
is posted with his permission.

Les (WD5BYQ)

---

726. Re: [APRSSIG:6771] Re: MIM Module Problems??

From: SARDUCK@aol.com
Date: Tue, 26 Nov 1996 23:57:41 -0500
To: aprssig@tapr.org
Message-ID: <961126235741_1084405967@emout18.mail.aol.com>
Rendered body type: text/plain

I have two kits while bought last summer, ive had no time to do.... after
studing the instructions i was lost on a box to use till i saw Bob's display
(pretty neat btw, if u can get to see it - just watch out for the nails in
the back : anti-swip devices i think)
standard hobby box from RS is fine... well if ive got bad eproms i do not
need to spend $20 for a replacement. two thoughts cross my mind -

first, arent EPROMS reprogramable.... seems simple. if it's too much more
complicated then that well ...

second, the clerks office only charges $15 to file a small claims suit and
imagine that!- when under $2500 these suits can be served by first class
mail....

but anyway, why wouldnt reprograming work???

Good Turkey (if not chips) to all!!
Dan Ka. / Chicago!

In a message dated 96-11-26 19:43:39 EST, you write:

<< hanks for your response. talked with clement enginnering and he advised
me
that my problems are due to me having an earlier version eeprom with those
particular bugs. now i have to send in an additional $20.00 to get the
newest version eeprom that fixes the MIM module that will never work right
until that chip is replaced. oh well, what else can one do? ordered my new
eeprom today and look forward to getting it all working correctly soon.
hope
there aren't any "more" bugs that we have to pay an additional $20 to get
fixed.

thanks again.

Mike AC6JA
>>

727. Best Buys Delorme Tripmate

From: "Don Murray" <james-m@ix.netcom>
Date: Wed, 27 Nov 1996 01:12:03 -0500
To: <aprssig@tapr.org>
Message-ID: <199611270612.WAA19179@dfw-ix3.ix.netcom.com>
Rendered body type: text/plain

Hello
For those that are interested, Best Buys the computer store has the Delorme Tripmate GPS units for $164.99. Or I should say the Store in Savannah Georgia has them for this price, suspect the price would be the same nationwide..
Don

---

728. Maps from GPS

From: ke6nyt@fishnet.net (Dan Dicke)
Date: Wed, 27 Nov 1996 00:00:34 -0800
To: aprssig@tapr.org
Message-ID: <199611270800.AAA19041@big.fishnet.net>
Rendered body type: text/plain

OK guys and gals,
  Obviously I am doing something wrong. I am using my GPS and a route, setting it to active, setting my speed to 60 mph. I am not seing more than one position change on the map each time I try this. I look in my tk262217.hst file and I get about three or four entries and that is it.

What are the secret handshake buttons to push/set to be able to bring a route from my GPS, run it hooked up to APRS, and then go in and edit the map using mapfix27???? I am trying to learn how to make these maps for Ventura California for our ARES/RACES to get APRS going.

Oh by the way Bob and gang, The Vandenburg Search and Rescue Symposium was a great hit and about 6 main ARES/RACES players in Santa Barbara County, and the Lompoc area have started to learn APRS, sending in there Registrations, and are buying GPS's to get that county up and running. We are still hoping to connect the great bunch in San Diego County and LA County to Ventura and Santa Barbara County with wides so that the west coast can get on the ball.

Again thanks for all the help thus far, now if we can get this GPS/Mapping down we can really get going.

Sincerely,
Dan Dicke
KE6NYT
KE6NYT@FISHNET.NET
Ventura County ARES/RACES Packet Coordinator
Assistant Emergency Coordinator Oxnard, Point Mugu, Port Hueneme

---

729. Re: AEA out of business

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 27 Nov 96 01:55:58 EST
To: <aprssig@tapr.org>
Message-ID: <961127065557_71301.3106_FHJ26-2@CompuServe.COM>
Rendered body type: text/plain

It's true. While "the doors are open", it's only the owners trying to wring the last dollars out of the standing inventory. Manufacturing was shut down weeks ago, and all the hired help has been laid off.

This is on very reliable authority - my wife and I have a good friend who is in the surplus electronics business, and their company was approached by AEA three weeks ago regarding a "buy" of the inventory. (No deal - price wasn't right.)

If, as an end-user, you call and ask AEA they'll paint the illusion that everything's o.k. - but it's not. They have a vested interest in keeping the news positive so as to stave off the fire-sale pricing as long as they can.

  ...mike/N0QBF
     71301.3106@compuserve.com

---

730. DeLorme Tripmate Power Adaptor

From: K1DE@aol.com
Date: Wed, 27 Nov 1996 07:03:28 -0500
To: aprssig@tapr.org
Message-ID: <961127070328_1616615870@emout07.mail.aol.com>
Rendered body type: text/plain

```
I called DeLorme yesterday to order a Power Adaptor.  They said that they
won't be available until mid December.  15 hours of battery power dosen't get
it, and I don't care what the Energizer Bunny says.

73, John
```

---

731. DeLorme Upgrade Offer

From: Larry Griffin <largriff@swta.com>
Date: Wed, 27 Nov 1996 07:14:25 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBDC32.9F92E3A0@red179.onramp.net>
Rendered body type: text/plain

```
I just got my DeLorme $125 upgrade offer for the TripMate Monday.  They
also offer Street Atlas USA 4.0 for $25.  And another interesting program
called 3-D Explorer USA for $19.

I was beginning to think they had forgotten the fact that I originally
spent over $400 for MapExpert and GPS software, with features that are all
now available in the $25 Street Atlas 4.0!  Sheesh!  I guess that's the
cost of being on the bleeding edge!  :-)

In short though, this is an incredible offer for some excellent packages!

Larry Griffin
```

---

732. Re: [APRSSIG:6787] DeLorme Tripmate Power Adaptor

From: "Larry P. Thomas WA0GWA" <lpthomas@winning-edge.com>
Date: Wed, 27 Nov 1996 07:23:50 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19961127132350.00761ec0@winning-edge.com>
Rendered body type: text/plain

```
At 06:07 AM 11/27/96 -0600, you wrote:
>I called DeLorme yesterday to order a Power Adaptor.  They said that they
>won't be available until mid December.  15 hours of battery power dosen't get
>it, and I don't care what the Energizer Bunny says.

If a Power Adaptor can be bought it can also be built. I would guess that
one of the DB-9 pins will power the Tripmate's internal electronics ... does
anyone know which one.
  I
----------------------------------------------------------------------
 Larry P. Thomas wa0gwa              voice : 1 913 888-0282
 Krell Technologies                    fax : 1 913 782-9359
 8960 Bond                           pager : 1 816 989-HELP
 Overland Park, KS 66214-1764       e-mail : lpthomas@winning-edge.com
----------------------------------------------------------------------
```

---

733. Re: [APRSSIG:6779] APRS/java

From: schiers@ames.net
Date: Wed, 27 Nov 96 09:29:15 -0500
To: aprssig@tapr.org
Message-ID: <199611271534.JAA18500@tapr.org>
Rendered body type: text/plain

```
In <908588@bbs.ames.net>, on 11/26/96 at 09:21 PM,
   aprssig@tapr.org said:

> REMYMSG 19TH on javAPRS active APRS MAPS and Win3.11..

I am having LOTS of trouble with the aprs/java sites. I
am testing Netscape/2 (for OS/2) beta 2, just released. Bob's site is very
slow to respond to me and I have been unable to
see anything, other than the opening menu. DSY's site is much faster, and
while everything loads and looks like it works,
I never see a map.

On the other hand, when I visit KL7J's java enabled site, all the java
stuff works great. (This is a very impressive URL, if you have never
visited it.) Doesn't require JAVA, but if you have it, the display is
quite something, especially page 2.

The URL is: http://www.alaska.net/~buchholz

A gold mine of ham radio info and resources.

73,
```

hasan schiers, N0AN
----
schiers@ames.net
----

734. RE: [APRSSIG:6786] Re: AEA out of business

From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
Date: Wed, 27 Nov 1996 08:37:00 -0800 (PST)
To: aprssig <aprssig@tapr.org>
Message-ID: <329C5E83@gismtpgate.gi.com>
Rendered body type: text/plain

Pity.
I guess this means I'll never get the PSK modem upgrade to the
DSP232 that they said it already had when I bought it...

From: aprssig
To: aprssig
Subject: [APRSSIG:6786] Re: AEA out of business
Date: Wednesday, November 27, 1996 1:05AM

It's true. While "the doors are open", it's only the owners trying to wring
the
last dollars out of the standing inventory. Manufacturing was shut down
weeks
ago, and all the hired help has been laid off.

This is on very reliable authority - my wife and I have a good friend who is
in
the surplus electronics business, and their company was approached by AEA
three
weeks ago regarding a "buy" of the inventory. (No deal - price wasn't
right.)

If, as an end-user, you call and ask AEA they'll paint the illusion that
everything's o.k. - but it's not. They have a vested interest in keeping the
news positive so as to stave off the fire-sale pricing as long as they can.

  ...mike/N0QBF
     71301.3106@compuserve.com

735. Re: [APRSSIG:6777] Re: PARS Documentation

From: schiers@ames.net
Date: Wed, 27 Nov 96 09:45:00 -0500
To: aprssig@tapr.org
Message-ID: <199611271545.JAA18785@tapr.org>
Rendered body type: text/plain

In <908461@bbs.ames.net>, on 11/26/96 at 08:00 PM,
   aprssig@tapr.org said:

>The following paths are NOT considered good practice and should not
>normally be used... and if you do, some Do-gooder will fuss at you...
 ^^^^^^^^

>   WIDE,WIDE,WIDE - Gets you out 3 hops in all directions but also
       results in as many as 27 duplicate packets plus 30 seconds
       of airtime. Dont DO THIS! No one will get through...

Depending on topography and station density, there are those areas where
the setting above is "normal". We have been running with w.w.w. for over
two years and the system works very well, BUT: station density is low,
paths are very sketchy at times, and most paths are quite long.

I guess the locals here don't fall into the "Do-gooder" category, or they
would have to fuss at every station in the network. Again, I'm NOT
recommending this approach, just indicating that every instance of it does
not make a lid. If things EVER stabilize here in terms of long-term
committment, wide coverage digis, etc., I am sure we will move away from
it, but I ain't holdin' my breath. 73,

hasan schiers, N0AN
----
schiers@ames.net
----

736. Re: [APRSSIG:6759] MCX connector source?

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Wed, 27 Nov 1996 10:22:20 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199611271622.KAA01431@solar.cs.tamu.edu>
Rendered body type: text/plain

I think I saw that Digikey is handling MCX series connectors in the EF Johnson connector line.
--
Gerry Creager N5JXS
Research Assistant, Mapping Sciences Laboratory, Texas A&M University
n5jxs@.tamu.edu   gerry@rsgis3.tamu.edu
409.845.9425
"Not an Official Document of Texas A&M or the Mapping Sciences laboratory"

---

737. Re: [APRSSIG:6771] Re: MIM Module Problems??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Nov 1996 11:54:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961127111157.13867B-100000@arctic>
Rendered body type: text/plain

On Tue, 26 Nov 1996 someone wrote:

> that my problems are due to me having an earlier version eeprom with those
> particular bugs. now i have to send in an additional $20.00 to get the
> newest version eeprom that fixes these MIM bugs...

APRSdos REPLY/COMMENT: I started to write a long explaination, but just erased it all to offer just the following:

For now, Will has been un-employed (with a 6 member family) for almost 6 months hoping to build the APRS MIM and MIC-E into a viable business. THe MIMs are one time programmable chips. So far he is thousands of $$$ of his own savings in the red. If he has to give it up and go get a real job, then you can kiss the MIM and the MIC-E goodby.

He is doing everything he can to give us the MIM and the MIC-E, but some of the newer NMEA formats by some of the GPS manufacturers confuses some of the early MIM chips. He only has a few different GPS units to test with, and the MIM's worked perfectly with these...

So please bear with him and consider that it does take him time and effort and new chips to respond to some of these unique problems.

See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

738. Re: [APRSSIG:6790] Re: APRS/java

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 27 Nov 96 12:36:02 -0500
To: <aprssig@tapr.org>
Message-ID: <199611271736.MAA14368@newworld.bridge.net>
Rendered body type: text/plain

>I am having LOTS of trouble with the aprs/java sites. I
>am testing Netscape/2 (for OS/2) beta 2, just released. Bob's site is very
>slow to respond to me and I have been unable to
>see anything, other than the opening menu. DSY's site is much faster, and
>while everything loads and looks like it works,
>I never see a map.
>

The beta versions of Netscape are always full of bugs, and the betas involving Java are especially bad. It turns out that so far Java is far from the ideal cross-platform tool, as versions for different OSs seem to have different problems. That's the price for being on the cutting edge.

One thing that I have seen as a problem is that Netscape's caching mechanism seems to cause errors. Go to some non-java page, then use the clear cache now button in the network options dialog box, the go to the java page. That may help.

Other than that, just tough it out and wait for beta 3!

Steve K4HG
sdimse@bridge.net

---

739. Re: [APRSSIG:6794] Re: MIM Module Problems??

From: jkozak@erols.com (John W. Kozak)
Date: Wed, 27 Nov 1996 13:23:18 -0500 (EST)

To: aprssig@tapr.org
Message-ID: <199611271823.NAA19986@smtp2.erols.com>
Rendered body type: text/plain

```
>On Tue, 26 Nov 1996 someone wrote:
>
>> that my problems are due to me having an earlier version eeprom with those
>> particular bugs.  now i have to send in an additional $20.00 to get the
>> newest version eeprom that fixes these MIM bugs...
>
>APRSdos REPLY/COMMENT:  I started to write a long explaination, but just
>erased it all to offer just the following:
>
>For now, Will has been un-employed (with a 6 member family) for almost 6
>months hoping to build the APRS MIM and MIC-E into a viable business.  THe
>MIMs are one time programmable chips.  So far he is thousands of $$$ of
>his own savings in the red.  If he has to give it up and go get a real
>job, then you can kiss the MIM and the MIC-E goodby.
>

Well put Bob. I don't think that most people comprehend that it sometimes
takes more time and effort to make a "Simple" circuit perform assigned tasks
than a more complex circuit. They are probably also unaware that the program
is actually burned into the microproccessor chip itself, making the whole
thing useless if the program needs to be changed.

Keep up the good work guys!

John Kozak; N3AGG
jkozak@erols.com
```

---

740. Re: JAVA/Aprs

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 27 Nov 96 13:24:00 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.849119040.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
"William B. Bliss/WB6LPG" <wbliss@coastside.net> wrote:

>Thanks to Marley & Hasan, who advised I have to again support
>Mr. B Gates and his monopoly (He has enough money now). To
>run javAPRS you gotta have WINDOWS 95.. The time of the year
>to say Bah Humbug to that...

If your hardware is capable of running Windows 95, it is also capable
of running Linux, which is free, and is The One True Operating System
(see http://www.cc.columbia.edu/acis/sy/dilbert-unix.gif).  And Linux
Netscape runs Java.  You can also install the Java Development Kit
(free), run appleteviewer, develop your own java apps, run your own
web server (free at apache.org), etc.  Using the Linux AX.25 code
(free) you can even run one of those nifty live Java things like the
ones that folks are running on OS/2, etc.  I'll be uploading one for
Linux AX.25 shortly.  Have tested it with a TNC-2 and Baycom so far.
Hopefully I'll get the time over the loooong weekend to finish it
off.

All you have to give up is all those horribly useful commercial apps
like spreadsheets, wordprocessors, bill-paying, etc.:-) (Actually, you
can dual boot between Linux and whatever so your children can still
run Lion King Activity Center and Mixed Up Mother Goose.)

See http://sunsite.unc.edu/pub/Linux (especially the HAM and AX25
HOWTO's).  When I say Linux is free, that of course assumes you don't
mind FTPing and copying 50-100 floppies.  You can buy CDROMs of it
too but what you are paying for is the CDROM vendor's efforts, not
a license for the software (which is free).

Just pointing out that if you are up for a computing adventure that
will suck down hundreds of hours of your time, you can avoid
supporting Bill Gates.

73 de Alan N2YGK
```

---

741. Re: Linux and APRS

From: Mark Sproul <sproul@ap.org>
Date: Wed, 27 Nov 1996 14:25:28 -0500
To: aprssig@tapr.org
Message-ID: <v03007805aec2440bc966@[165.1.27.20]>

Rendered body type: text/plain

```
>See http://sunsite.unc.edu/pub/Linux (especially the HAM and AX25
>HOWTO's).  When I say Linux is free, that of course assumes you don't
>mind FTPing and copying 50-100 floppies.  You can buy CDROMs of it
>too but what you are paying for is the CDROM vendor's efforts, not
>a license for the software (which is free).
>
>Just pointing out that if you are up for a computing adventure that
>will suck down hundreds of hours of your time, you can avoid
>supporting Bill Gates.


For those thinking about Linux, as I have stated before, we ARE working on
X-APRS which will be APRS for X-Windows.  For those that dont know,
X-Windows is the GUI (Graphical User Interface) for Unix.  X-Windows runs
just fine on Linux.  X-APRS will be the SAME code as MacAPRS and WinAPRS so
you can be assured of compatiblity and a feature rich system.  We HOPE
(this is NOT a promise) to have X-APRS ready to ship by Datyon.

When we release X-APRS we will be releasing for three platforms

        Linux on PowerMacintosh
        Linux on Intel PCs
        Unix on Sun Sparc

We WILL add more as the requests and resources become available.

Mark Sproul

_________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

---

742. GARMIN GPS TRAKPAK 31

From: "Bryan Fair" <brfair@flash.net>
Date: Wed, 27 Nov 1996 14:34:49 -0600
To: <aprssig@tapr.org>
Message-ID: <199611272034.OAA21495@endeavor>
Rendered body type: text/plain

```
I ran across a decent deal the other day, So I figured I would post
it......

WEST MARINE SELLS a Garmin gps TRAKPAK
Which is a computer mouse sized Mag mount creature with a pig tail like a
mouse.
It is about $220
It has the same 8CH parallel RXCV as the GPS 20,38,40
It is a sealed unit that can be magmounted
They also sell the marine DGPS RXCV
There is also some new kind of moving map attachment for the gps RXCVs
They also sell some WX stations
They do buisness both mail order, Online, and in person
there is one in Dallas and several in other cities nation wide
TRY the web site also at
http://www.westmarine.com

73s
!3232.01N09720.01W/Burleson TX
```

---

743. Re: APRS in Dec. Issue of 73

From: Arte Booten <N2ZRC@gnn.com>
Date: Wed, 27 Nov 1996 15:58:23
To: aprssig@tapr.org
Message-ID: <199611272057.PAA06529@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Tue, 26 Nov 1996 Geoffrey Dick pointed out:

>Bob Bruninga has an 8 page article featured in it, beginning
>page 10, with lots of illustrations.
```

Yeah, neat article but how come I've never seen those "SKYWARN", "DIGIPEATER" or "DX SPOTS" legends running across my screen? Is this some hidden, undocumented feature of APRS Bob hasn't told us about?! ;-{) 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

---

744. Re: [APRSSIG:6799] GARMIN GPS TRAKPAK 31

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Wed, 27 Nov 96 21:05:05 UTC
To: aprssig@tapr.org
Message-ID: <9730@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Brian Fair sed:

> It has the same 8CH parallel RXCV as the GPS 20,38,40

Not quite. First, it is a SEQUENTIAL receiver, like the 20/38/40

It's not like the '20 because you can't get the precise timing pulses from the receiver and some of us are finding that to be useful/important. [I believe it IS a 20 inside the box. But you have to break the sealed case open to get to it].

It's not like the 38/40 because it has no display, no waypoints, no track log, etc.

73, Tom

---

745. javAPRS Update

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 27 Nov 96 16:27:54 -0500
To: <aprssig@tapr.org>
Message-ID: <199611272127.QAA10044@newworld.bridge.net>
Rendered body type: text/plain

I have put version 1.0 of javAPRS on the TAPR ftp site. All sites using javAPRS should upgrade.

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/javastuff/javaprs.zip

This version greatly improves on the handling of TIGER maps. Most importantly, one can zoom and scroll around on a dos map (which is fast) to get the view one wants, then hit 'T' to get the map turned into a TIGER map...you don't have to wait 15 or 20 seconds for a new tiger map each time you zoom or scroll.

You still need to run javAPRS with the applet runner or through a server that supports map relay, and the tiger maps are not well calibrated at large scales.

The new version also corrects some parsing errors, most notably with the new lower case weather format.

An updated users guide is also provided in the zip file, or can be read at:

http://www.bridge.net/~sdimse/javAPRSprog.html

Thanks everyone for all the input you have provided to improve javAPRS. I need to put it aside for a while so that I can get APRServe working, a java program to link a variety of different live TNC sites.

I will fix any bugs that are found, but no new features for a while. If you have ideas feel free to let me know, but don't be surprised if I don't act on it for a while.

Steve K4HG

---

746. Re: [APRSSIG:6791] Re: AEA out of business

From: rwhart@ix.netcom.com (Roderick W. Hart)
Date: Wed, 27 Nov 96 22:09:43 GMT

To: aprssig@tapr.org
Message-ID: <M.112796.170943.38@col-md4-13.ix.netcom.com>
Rendered body type: text/plain

THE PACSAT BPSK 1200 BAUD MODEM IS IN THE FIRMWARE I RECEIVE TWO DAYS AGO. IT LOOKS LIKE THE CONCENTRATED ON GETTING THE TNC TO MEET ORIGINAL SPECS. ALL OF THE MODEMS THAT WERE PROMISED SEEMS TO BE THERE.

11/27/96 10:42AM, in message <329C5E83@gismtpgate.gi.com>, "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com> wrote:

> Return-Path: <aprssig@tapr.org>
> Received: from tapr.org (tapr.org [204.17.217.20]) by ixmail3.ix.netcom.com
> (8.7.5/SMI-4.1/Netcom)
>   id IAA01530; Wed, 27 Nov 1996 08:37:10 -0800 (PST)
> Received: from tapr.org (localhost [127.0.0.1]) by tapr.org (8.7.5/8.7.3/1.9)
> with SMTP id JAA18734; Wed, 27 Nov 1996 09:42:34 -0600 (CST)
> Date: Wed, 27 Nov 1996 09:42:34 -0600 (CST)
> Message-Id: <329C5E83@gismtpgate.gi.com>
> Reply-To: aprssig@tapr.org
> Originator: aprssig@tapr.org
> Sender: aprssig@tapr.org
> Precedence: bulk
> From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6791] Re: AEA out of business
> X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Tucson Amateur Packet Radio APRS Special Interest Group
> X-Mailer: Microsoft Mail V3.0
>
>
> Pity.
> I guess this means I'll never get the PSK modem upgrade to the
> DSP232 that they said it already had when I bought it...
> ----------
> From: aprssig
> To: aprssig
> Subject: [APRSSIG:6786] Re: AEA out of business
> Date: Wednesday, November 27, 1996 1:05AM
>
> It's true. While "the doors are open", it's only the owners trying to wring
> the
> last dollars out of the standing inventory. Manufacturing was shut down
> weeks
> ago, and all the hired help has been laid off.
>
> This is on very reliable authority - my wife and I have a good friend who is
> in
> the surplus electronics business, and their company was approached by AEA
> three
> weeks ago regarding a "buy" of the inventory. (No deal - price wasn't
> right.)
>
> If, as an end-user, you call and ask AEA they'll paint the illusion that
> everything's o.k. - but it's not. They have a vested interest in keeping the
> news positive so as to stave off the fire-sale pricing as long as they can.
>
>   ...mike/N0QBF
>   71301.3106@compuserve.com
>
>

--
Roderick W. Hart
Amateur Radio Station WA3MEZ

---

747. Re: [APRSSIG:6798] Re: Linux and APRS

From: rbeckett@Schwab.COM
Date: Wed, 27 Nov 1996 14:12:00 +0000
To: aprssig@tapr.org
Message-ID: <9611272211.AA08502@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

> When we release X-APRS we will be releasing for three platforms
>
>   Linux on PowerMacintosh
>   Linux on Intel PCs
>   Unix on Sun Sparc
>
> We WILL add more as the requests and resources become available.

>
> Mark Sproul
>
> ____
> Mark Sproul |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press |
> sproul@ap.org |Work: 609-860-7120
> North Brunswick, NJ |Fax: 609-860-7129
> http://msproul.rutgers.edu/
> ____
>

I hope you will also be releasing to the SUn x86 platform. That
currently is Solaris 2.5.1 running on an Intel platform. I'd be happy
to participate in beta on that one.

73 - Rich WB6EEE
>
>
Rich
(415) 636-8340 - work
(510) 521-1559 - Beckett & Associates Office

---

748. Re: [APRSSIG:6786] Re: AEA out of business

From: n2czf@magg.net
Date: Wed, 27 Nov 1996 17:13:52 -0500
To: aprssig@tapr.org
Message-ID: <199611272213.RAA24640@grumpy.magg.net>
Rendered body type: text/plain

Don't know who you are calling but as far as being told that everything is
OK I find that hard to believe. I called yesterday to try to get a final
EEPROM upgrade for my PK-900 and I get voice mail saying that AEA is selling
their lines and are no longer in business! Please call the ARRL (why the
ARRL??) in a month or two if you have any service problems! If you have a
direct extension to dial please enter it now.

Please give me the number that you are calling!! I will be more than happy
to give them a order (COD of course!)
and take one of those EEPROMs off of their hands.

>It's true. While "the doors are open", it's only the owners trying to wring the
>last dollars out of the standing inventory. Manufacturing was shut down weeks
>ago, and all the hired help has been laid off.
>
>This is on very reliable authority - my wife and I have a good friend who is in
>the surplus electronics business, and their company was approached by AEA three
>weeks ago regarding a "buy" of the inventory. (No deal - price wasn't right.)
>
>If, as an end-user, you call and ask AEA they'll paint the illusion that
>everything's o.k. - but it's not. They have a vested interest in keeping the
>news positive so as to stave off the fire-sale pricing as long as they can.
>
> ...mike/N0QBF
>   71301.3106@compuserve.com
>
>

---

749. APRS D/FW

From: Rich Casey <casey@acm.org>
Date: Wed, 27 Nov 1996 17:52:15 -0500
To: aprssig@tapr.org
Message-ID: <329CC61F.C11@acm.org>
Rendered body type: text/plain

FYI:
I've set up an unofficial home page and started a user list for the
Dallas/Fort Worth area APRS users at:
                http://www.startext.net/homes/rcasey/aprs.htm

Not much but it's a start...

73, Rich
--
Rich Casey, Dallas TX | Member: ARRL, AMSAT, ACM, TAPR
casey@acm.org | Ham Radio N5CSU
http://www.startext.net/homes/rcasey | Think globally, connect locally

750. Re: [APRSSIG:6797] Re: JAVA/Aprs

From: Geoff Peacock <geoff@maf.mobile.al.us>
Date: Wed, 27 Nov 1996 18:51:48 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.SOL.3.91.961127184606.23352A-100000@ns1>
Rendered body type: text/plain

On Wed, 27 Nov 1996, Alan Crosswell wrote:

>
> If your hardware is capable of running Windows 95, it is also capable
> of running Linux, which is free, and is The One True Operating System
> (see http://www.cc.columbia.edu/acis/sy/dilbert-unix.gif). And Linux
> Netscape runs Java. You can also install the Java Development Kit
>
> All you have to give up is all those horribly useful commercial apps
> like spreadsheets, wordprocessors, bill-paying, etc.:-) (Actually, you
> can dual boot between Linux and whatever so your children can still
> run Lion King Activity Center and Mixed Up Mother Goose.)

Well there are linux spreadsheets, wordprocessors (Caldera offers
WordPerfect) and even checkbook programs. They might not have all the
WinDoze bells and whistles, but who really uses them. When have you
really needed anything more than WordStar, or maybe WP50

>

> Just pointing out that if you are up for a computing adventure that
> will suck down hundreds of hours of your time, you can avoid
> supporting Bill Gates.

Isn't _that_ worth a few hundred hours of learning the ultimate operating
system ?

```
KD4GOE
Geoff Peacock                                                       '''
Mobile Area Free-Net, Inc.                                         (o o)
_______________________________________________________________oOO__( )__OOo_
geoff@maf.mobile.al.us                                        (334) 405-4600
```

---

751. Re: Linux and APRS

From: joefoor@digitalexp.com (Foor, Joe)
Date: Wed, 27 Nov 1996 18:53:58 -0600
To: aprssig@tapr.org
Message-ID: <19961128005350064.AAD182@dial-21.marianna.fl.digitalexp.net>
Rendered body type: text/plain

>X-APRS will be the SAME code as MacAPRS and WinAPRS so
>you can be assured of compatiblity and a feature rich system.

Excellent, maybe I'll find a use for those $100 worth of linux and unix
books after all.

Does that mean a WinAPRS registration will transfer over to X-APRS?

regards,
Joe kf4dys

---

752. Re: JAVA/Aprs

From: joefoor@digitalexp.com (Foor, Joe)
Date: Wed, 27 Nov 1996 18:54:00 -0600
To: aprssig@tapr.org
Message-ID: <19961128005350064.AAE182@dial-21.marianna.fl.digitalexp.net>
Rendered body type: text/plain

>All you have to give up is all those horribly useful commercial apps
>like spreadsheets, wordprocessors, bill-paying, etc.:-) (Actually, you
>can dual boot between Linux and whatever so your children can still
>run Lion King Activity Center and Mixed Up Mother Goose.)

Strange, according to the documents, DosEMU will run my WordPerfect 5.1 and
the Slackware release contains a spreadsheet...

I'm just waiting for X-APRS, before diving in.

regards,
Joe kf4dys

753. Re: [APRSSIG:6789] Re: DeLorme Tripmate Power Adaptor

From: "Eric A. Cottrell" <eac@shore.net>
Date: Wed, 27 Nov 1996 20:58:50 -0400
To: lpthomas@winning-edge.com
Cc: Aprssig@tapr.org
Message-ID: <849146330-0-eac@shore.net>
Rendered body type: text/plain

Hello,

It looks like the pin used for RI goes to the center pin of the three pin
power plug on the board.
Do not feed 12 Volts into the receiver! The Caps on the DC line are rated
at 10 volts and the
DC-DC convertor has a maximum DC input of 11 volts. Someone has used a
7.2 volt nicad pack
to power it. I would use 6 volts if possible and not to go over 8 volts.

73 Eric eac@shore.net WB1HBU

---

754. Re: [APRSSIG:6800] Re: APRS in Dec. Issue of 73

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 27 Nov 1996 22:51:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961127225102.29097B-100000@arctic>
Rendered body type: text/plain

On Wed, 27 Nov 1996, Arte Booten wrote:

>   Yeah, neat article but how come I've never seen those
> "SKYWARN", "DIGIPEATER" or "DX SPOTS" legends running across my
> screen? Is this some hidden, undocumented feature of APRS Bob
> hasn't told us about?!   ;-{)   73

APRSdos REPLY/COMMENT: Used PRINTSCREEN key and then brought up windows
paintbrush to doctor up the captured APRS screen... hi hi

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

755. Re: [APRSSIG:6799] GARMIN GPS TRAKPAK 31

From: rwf@mindspring.com
Date: Thu, 28 Nov 1996 01:05:40 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961128005332.006f0070@mindspring.com>
Rendered body type: text/plain

At 02:41 PM 11/27/96 -0600, Bryan wrote:
>WEST MARINE SELLS a Garmin gps TRAKPAK
>Which is a computer mouse sized Mag mount creature with a pig tail like a
>mouse.
>It is about $220
>It has the same 8CH parallel RXCV as the GPS 20,38,40
>It is a sealed unit that can be magmounted

There are also Trackpack 35 units made (12 channel)
The 35 has a true parallel receiver- I think the 25 does, too.

There are also Trackpack 35 (and I think 25) PC models, with a 9 pin DB
connector.

Compare apples to apples
To the best of my knowledge, (havent thought about this in awhile) the GPS
38 and 40 *are not 8 channel parallel*. They are 1 or 2 channel multiplexing.

---

756. Re: Monitoring mobiles (cars) on earths

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Thu, 28 Nov 1996 06:17:00 +0000
Cc: aprssig@tapr.org
Message-ID: <329D2E5C.2457@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

A. J. deLange wrote:
>
> In article <32973878.6040@pacific.net> Brooke, brooke@pacific.net writes:
> >In answer to all your questions (except #1) check out the ham radio
> >system
> >called "APRS".
>

```
> Even #1 can be accomodated providing one has access to a differntial
> correction service. For example in the US one can purchase
> a beacon receiver which receives the Coast Guard's differential
> corrections and retransmit the RTCM data through a TNC.
> The users then connect their TNCs to the RTCM input of their
> GPS receivers. A local ham has been transmitting the corrections
> in the Washington, DC area and I have seen him post
> to this group concerning the details (but I haven't seen his
> corrections on the air recently).
>
> AJ
> ajdel@interramp.com

I'm the guilty party AJ is referring to transmitting DGPS signals in
the Baltimore/Washington area. My W3IWI-13 amateur packet radio beacon
sends out DGPS signals on 145.79 MHz with a 20 second update rate.

The signals are derived at the geodetic GPS site called GODE at the
NASA Goddard Geophysical & Astronomical Observatory (GGAO) in Green-
belt MD. GODE is a permanent station in the IGS (International GPS
Service for Geodynamics) and hence the position it uses to develop
the DGPS is referenced to the ITRF (International Terrestrial Reference
Frame) at the cm level. The GODE antenna feeds a multi-port power
splitter and the DGPS signals are generated with a commercial Trimble
4000SSE geodetic receiver. The amateur equipment begins at the SSE's
RS232 output where conventional amateur practice is used. The DGPS
signals are relayed via other amateur stations (called digipeaters)
to a coverage area that includes the Chesapeake Bay, most of MD,
northern VA, and nearby areas in NJ, PA and DE.

The original thread asked about monitoring the positions of vehicles,
and one reply was that you should look at the system developed by
Bob Bruninga for amateur work called APRS. You can find out all about
amateur digital communications in general and APRS in particular by
browsing the TAPR web pages at

        http://www.tapr.org

Regards, Tom Clark
```

---

757. Today....

From: Jim Duncan <ku0g@sprynet.com>
Date: Thu, 28 Nov 1996 07:27:06 -0800
To: aprssig@tapr.org
Message-ID: <199611281527.HAA04253@m1.sprynet.com>
Rendered body type: text/plain

```
Things I'm thankful for today.....

Bob Bruninga and his ultimate patience...

The Sproul Brothers and their ultimate brain power...

Garmin International and their support of APRS in the Kansas City area...

All my friends/cohorts on both the APRS SIG and in the KC APRS Working Group...

A patient and loving significant other who tolerates my incessant efforts to
put a tracker in her Blazer, the hours at the computer playing with APRS and
the SIG, running off at all hours of the night to run APRS events for public
service, and on and on and on and on and on.....

Happy Thanksgiving Day everyone!!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

758. Happy Thanksgiving

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Thu, 28 Nov 1996 09:34:49 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961128163449.006888d0@mailhost.primenet.com>
Rendered body type: text/plain

```
A very special Happy Thanksgiving to all my friends on the SIG and their
families !
```

```
73,  Alan

Alan K. Unangst, WC7R
Phone: (520) 445-1465
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV
```

759. Tucker Electronics

From: Joe Scalet <jscalet@sound.net>
Date: Thu, 28 Nov 1996 13:31:19 -0500
To: aprssig@tapr.org
Message-ID: <329DDA77.1F18@sound.net>
Rendered body type: text/plain

```
A ham on his way through town said that Tucker Electronics had also
closed its doors. Any other info ?
```

760. Re: [APRSSIG:6816] Tucker Electronics

From: Doug Wittich <dwittich@concentric.net>
Date: Thu, 28 Nov 1996 15:37:45 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961128203745.006edd50@pop3.concentric.net>
Rendered body type: text/plain

```
At 01:36 PM 11/28/96 -0600, you wrote:
>A ham on his way through town said that Tucker Electronics had also
>closed its doors. Any other info ?

They have left the ham radio business, to concentrate on their test
equipment.   They have sold everything, including their name on some
products and presumably their customer list to HRO.
```

761. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from LOCALNAME (san195057.gte.net [207.175.97.57]) by mail.gte.net
(950413.SGI.8.6.12/950213.SGI.AutoCF) via SMTP id OAA04889; Thu, 28 Nov 1996 14:43:13 -0600
Message-ID: <329E158D.4508@gte.net>
Date: Thu, 28 Nov 1996 14:43:25 -0800
From: David Eaton <deeaton@gte.net>
Reply-To: deeaton@gte.net
X-Mailer: Mozilla 3.0Gold (Win16; U)
MIME-Version: 1.0
To: tcombest@gte.net, aprssig@tapr.org
Subject: Re: [APRSSIG:6816] Tucker Electronics
References: <329DDA77.1F18@sound.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joe Scalet wrote:
>
> A ham on his way through town said that Tucker Electronics had also
> closed its doors. Any other info ?
```

762. Re: [APRSSIG:6816] Tucker Electronics

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Thu, 28 Nov 1996 12:54:15 -0800
To: aprssig@tapr.org
Message-ID: <329DFBF6.1F43@ix.netcom.com>
Rendered body type: text/plain

```
Joe Scalet wrote:
>
> A ham on his way through town said that Tucker Electronics had also
> closed its doors. Any other info ?


KB6LFM writes:

HRO has bought Tuckers inventory. Mail-order is operated out of HRO's
New Hampshire store.
```

763. (no subject)

From: laing@upanet.cc.uleth.ca (Laing William)
Date: Thu, 28 Nov 1996 13:56:04 -0700
To: aprssig@tapr.org
Message-ID: <199611282100.PAA03820@tapr.org>
Rendered body type: text/plain

SUBSCRIBE

---

764. (FWD) Intro to APRS

From: Arte Booten <N2ZRC@gnn.com>
Date: Thu, 28 Nov 1996 18:02:06
To: aprssig@tapr.org
Message-ID: <199611282302.SAA12825@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

I found this multi-part article on the AX.25 PBBS system. Seems to me I recognize much of it as coming straight from Bob's README files and a snippet or two from stuff I wrote. I don't know about any of you, but I have no problem answering APRS questions from interested individuals and resent this person's "protection." But if it gets more people interested in and running APRS I guess I can't complain too much.

---------------------ARTICLE FOLLOWS---------------------------

```
>From        : KC7LVZ
To          : APRS  @ALLUSA
Type/status : B$
Date/time   : 26-Nov 08:59
Bid         : WB7VMS2492
Message #   : 16663
Title       : An Intro to APRS Part 1 of 5
```

ACKNOWLEDGEMENT

As many of you know, I recently posted a bulletin at ALLUS asking for information on APRS. I expected a few replies, and just enough information to tell me if I wanted to investigate it further. Instead, I received many responses, some of which provided the excellent and comprehensive information I have included here. This article is a summary of the information in those responses that arrived from all over the country. I am especially indebted to those hams that that went to the trouble to provide the history of APRS.

I have deliberatly omitted the call signs of those who contributed so that they will will not be besieged by requests for more information. Although the list is a lengthy one, I could have included it in this article. I am certainly not trying to take credit from these talented individuals, but feel that their privacy has the highest priority. I have included a bibliography at the end of this article for those of you who want to investigate APRS further. That bibliography was also provided by one of the respondants to my request. To all of you, I extend my most sincere thanks.

Larry Phillips KC7LVZ

HISTORY

The Amateur Radio Research and Development group (AMRAD) was instrumental in developing the original specification for AX.25 written by Terry Fox, WB4JFI, and published by AMRAD in 1984. In 1978, a member of the AMRAD board of directors built the first digital on-the-air automatic message system. It was a dual port phone and packet radio BBS for the AMRAD group when ASCII first became legal in the late 70s.

In 1982, he wrote a data mapping program that took Navy HF position reports off the air for display on an APPLE-II computer. In 1983, he wrote a BBS/GATEWAY program for the VIC-20 computer to permit simultaneous operation of both HF and VHF ports for exchange of packet messages. This was among the first, if not the first, amateur HF BBS/GATEWAYs. It remained on the air continuously for 5 years through 1989 under the FCC STA for automatic packet HF operations. He also pioneered the use of the 200 Hz shift for HF packet operations, and used it with cross-country links to stations in zones 0, 9 and 7.

The idea for an automatic connectionless protocol reporting system was first used in a VIC-20 program for reporting the position and status of horses in a 100 mile cross country endurance run for AMRAD. For the next two years, the idea was developed for amateur packet radio support of the National Disaster Medical System exercises sponsored by FEMA. At the time it was called the Connectionless Emergency Traffic System (CETS). After the second national exercise, the Commodore was dropped, and work began to port CETS to the new IBM PC. Packet mapping was also integrated into the program.

In 1990, all the features that had been incorporated to that point were combined in a single program written in TEXT format, so any ham could draw a map using any ASCII text editor. It was written for the East Coast of the U.S.

While this was going on, another AMRAD member was working on the idea of integrating packet radio with the (then) new Global Positioning System (GPS). The GPS sent latitude and longitude data to the TNC. It was used when midshipmen at the U.S. Naval Academy ran in relays from Annapolis, Maryland to Philadelphia, Pennsylvania for the annual Army-Navy football game. The progress of the runners was tracked through an APRS unit that was installed in a football helmet. Since then, the idea has grown dramatically.

APRS: POSITION THROUGH PACKET

The Automatic Packet Reporting System, or APRS, is a position reporting and plotting system that uses dedicated computer software to extend the capabilities of any packet station. APRS differs from Ax.25 and TCP/IP in that it uses a connectionless protocol. Instead of connecting to another station as you would do in normal packet operations, the APRS software uses your packet station's BEACON function to transmit your location in longitude and latitude coordinates. When you receive APRS transmissions from other stations, their locations are plotted on a map created by the program on your monitor screen, which is why it is also referred to as a Graphics User Interface (GUI) program. Adjacent to each plot is the station's coordinates in latitude and longitude, and an optional brief comment on the station's output power, antenna height, type, and so on, and what type of station it is (base, portable, mobile, weather, etc.). This plotting capability makes APRS a very versatile packet system, allowing the user to participate in many packet activities.

JUST THE FACTS, MA'AM

Whenever you send an information packet using the normal AX.25 protocol, the station you're connected to sends back an ACK frame to acknowledge the fact that it just got a packet from you. Whenever that station sends you an information packet, your TNC does the same. That way, the two stations ensure that they are both talking about the same thing at the same time, and the connection is still good. APRS differs from this protocol in that it uses your TNC's BEACON function to generate your position information in UI (unnumbered information) frames in the UNPROTO protocol. This means that the receiving station(s) will not acknowledge your transmission. Thus, if you want to ensure that your APRS transmission is received by a specific station, you must make other arrangements with that station.

An exception to this is when you may wish to use APRS for keyboard-to-keyboard communication with another station. The APRS software offers this option, and it functions in the same way as normal keyboard-to-keyboard connections: ACK frames are generated for each received information packet. As you might imagine, this would only be necessary when either a new APRS station starts operation, or a APRS station has made changes to the station, and wants to confirm that the changes have not degraded it's performance, or the operators want to exchange some specific information without leaving APRS.

If a station wishes to digipeat the APRS information it receives, the operator can use the ALIAS function of his TNC to select one of three possible APRS digipeater modes: RELAY, WIDE, and GATE. The "default" setting is RELAY, and is used to digipeat APRS data from low power and portable stations. A station with a WIDE setting digipeats to other WIDE stations packets addressed either to its callsign or its "generic" WIDE alias. A GATE station transmits to other GATE stations for crossband digipeating: VHF to HF, HF to VHF, or HF to HF. So, by selecting the alias, you can direct the APRS traffic to "targeted" stations. The advantages of crossband digipeating to and from HF are obvious. Since HF involves skip transmission, APRS information can be sent over large areas. Regional networks in the US have been established that cover many hundreds, if not thousands, of square miles, and have a variety of uses.

STAYING ON TRACK

With the advent of the Global Positioning System, or GPS, APRS has matured into an accurate and useful means of tracking moving stations in real time. As mentioned above, this concept was used early in the history of APRS to track contestants in a cross-country marathon. Since then, the ability of APRS to decode the NMEA-0183 GPS serial protocol data has allowed hams to track the movements of mobile and portable stations, and locate stations in remote areas.

Locating a transmitter is made easy using DF equipment and APRS. Antenna azimuth readings and signal strengths adjusted for antenna gain are entered into the system via keyboard. The operator can then draw a circle the radius of which is proportional to the signal strength, or use the azimuth and signal strength readings to plot a point on the map. Points are plotted or circles drawn using similar data from other APRS stations. If three or more circles or plots intersect, the transmitter is close to that intersection. Just the thing for locating a jammer.

APRS can also receive data in real time from weather stations such as those made by Davis and Peet Brothers. The data include wind speed and direction, temperature, hourly and daily rainfall amounts, and sometimes barometric pressure. If the data from enough weather stations is included on an APRS map, a good picture can be made of an area's weather conditions. Obviously, this could come in very handy when the weather turns nasty.

APRS has shown that it can be very useful to participants in the SKYWARN program. By using weather data obtained from APRS, they can provide much more information on storm development, evolution, and movement than they would be able to provide by using the equipment they have on hand at their individual QTH. Better still is the potential ability to track a storm.

By sending mobile APRS/GPS stations out to the periphery of a storm where visual observations can be safely made, the location and movement of many kinds of weather disturbances, including hurricanes, tornadoes, and large thunderstorms, can be monitored. Once the direction of a storm has been determined, an estimate of its path can be made, and warnings issued to those on its projected path to prepare for its arrival.

Since LORAN also uses the NMEA-0183 protocol, APRS can be used to aid in navigation by using the long-established LORAN system. Boaters and pilots are the obvious beneficiaries, as are those adventurers that are equipped for LORAN, but lack GPS capability.

THE TOY BOX

So what do you need to get started in APRS? All you need is your packet station and the APRS software, which is freely available as shareware. If you can access the Internet, the address is:

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/upload

On the World Wide Web, the address is:

hhttp://www.tapr.org/sigs/aprssig/files/upload

A recent version for DOS is APRS77D.ZIP. For Windows users, there is Winaprs 1.10. These programs are rather large because of the maps that they provide, so be sure you have enough storage space on your disk before you start. Another source is one of the many ham-related BBSs that have a version of the APRS software freely available for downloading from the hard drive.

Your APRS station can have virtually any level of complexity you can afford, from an IBM compatible 8086 computer to the latest Pentium-powered full-size and laptop machines. You should have a hard drive in your machine, and a color monitor, but a monochrome monitor will work. Some hams go a step farther, and use the GATE function to crossband digipeat APRS data on HF with a complete packet system dedicated for that purpose alone. Others set up mobile APRS stations, so they can respond to changing events.

THE SKY'S THE LIMIT

As mentioned above, some SKYWARN participants use APRS to track the movement of storms. But you can have fun with it, too. Some enterprising hams have used their APRS/GPS systems for fox hunts, and cross country bicycle races. Some like to use it in combination with their local DX cluster. When a new DX station appears on the cluster, it can be plotted on the map along with the callsign. APRS packeteers have taken their portable packet systems with them on camping trips, and cross-country tours. Others have used their mobile systems to locate jammers, and then put his location on the map. You could conceivably put a GPS transmitter in your car the next time you have to park it at the airport for long time. If it turns up missing when you return, you just might be able to find it with APRS. The possibilities are almost limited only by your imagination. Who knows? You might even find a way to use APRS/GPS for an Easter egg hunt! Anybody want to know when Santa will arrive in the neighborhood? Try using APRS. You never know...

WHAT'S NEXT?

Obviously, there's a lot more that can be said about APRS, and many more uses than have been mentioned here. There are document files that come along with the software, and many more on the T.A.P.R. website and ham-related BBSs that can doubtless address aspects that have not been covered here. The capabilities of APRS are always being improved, and the latest upgrades are soon made available. So, if you're really interested in seeing a fascinating use for packet radio, get into APRS. Who knows what it may lead to?

The following is a bibliography chronicling the development of APRS:

[1] MULTI-USER DATA NETWORK OVER VHF RADIO, Bruninga, AMRAD Newsletter, Mar 1978.

[2] HF PACKETS, MODEMS and GATEWAYS, Bruninga, Third ARRL computer Networking Conference pg 6-7, 15 Apr 84. (HF packet specification for 200 HZ shift)

[3] EASTNET - AN EAST COAST PACKET RADIO NETWORK, Bruninga, p 9-11, Third ARRL Computer Networking Conference. 15 Apr 84. (MD,NJ & NY packet map)

[4] THE RACING PROBLEM: A PACKET SOLUTION, Bruninga, p 12-15, Third ARRL Computer Networking Conference, 15 Apr 84. (A connectionless protocol for reporting the location and status of Horses on a 100 mile endurence run. *(the original APRS concept)

[5] EASTNET - A YEAR LATER, Bruninga p 15-24, Fourth ARRL Computer Networking Conference, 30 Mar 85. (More East Coast maps and the first USA HF map)

[6] LINKING PERSONAL COMPUTERS BY PACKET RADIO, Bruninga, Proceedings, IEEE COMPCON 84 16 Sept 84, (Published the USA packet map, and amateur HF packet standards)

[7] CONNECTIONLESS EMERGENCY TRAFFIC SYSTEM, Bruninga, Packet Radio Magazine, pg 4-5, July 86. (details the design of the connectionless position and status reporting system)

[8] AN UPDATE ON THE CONNECTIONLESS EMERGENCY TRAFFIC SYSTEM, Bruninga, Packet Radio Magazine, Aug 86. (more of the same)

[9] CONNECTIONLESS PROTOCOL for the NDMS, Bruninga, p 19, Packet Radio Magazine, Nov 86. (using the connectionless protocol for emergency comms)

[10] PACKET RADIO AT THE WRECK OF THE AMTRACK COLONIAL, Bruninga, P 13 Packet Radio Magazine Jan 87. (using portable packet for disaster comms)

[11] LANS and WANS, Bruninga, 7th ARRL Computer Networking Conference, 1 Oct 88 (First DC/BALTIMORE area packet maps with APRS symbols)

[12] A WORLDWIDE PACKET RADIO NETWORK, Bruninga, Signal Magazine, June 88, (shows HF map of 10.149 MHz activity.)

[13] PACKETRADIO IM NOTFUNKEINSATZ BEI EINEM ZUNGUNGLUCK, RTTY magazine 18 Jan 87. (translation of article on APRS at the AMTRACK train wreck)

CURRENT:

[14] AUTOMATIC PACKET LOCATION SYSTEM (APLS), Bruninga, ARRL Gateway/QEX, Feb 1991. (early specification for position and status reporting formats)

[15] GROUND STATION TRACKING VIA PACKET RADIO, Bruninga, AMSAT Journal, Pg 1 May/June 93

[16] TRACKIT RADIO, Stan Horzepa, p 92, QST, July 93

[17] UPFRONT IN QST, p 11, QST, August 93. (excellent pictures)

[18] A DESCRIPTION OF APRS by WB4APR, AND MORE!, PACKET USERS NOTEBOOK, Buck Rogers, CQ Magazine, Dec 93

[19] INTERFACING GPS/LORAN DEVICES TO PACKET RADIO, Bruninga, pg 9-14, QEX, Feb 94

[20] HOMING IN, Radio Direction Finding, by Joe Moell, page 56-59, October 94 issue of 73 Magazine.

[21] HOMING IN, by Joe Moell, Jan 95 issue of 73 magazine.

[22] Ads by PacComm, AEA and KANTRONICS touting GPS packet. April 95 QST

[23] Buck Rogers Column, Packet Notes. CQ magazine May 95 issue.

[24] QST Compares: GPS Compatible TNC's, Steve Ford WB8IMY, QST Oct 1995

[25] Availability of Seventy 9600 Baud Packet Channels on Two Meters, 14th ARRL Digital Communications Conference, Arlington, TX 8-10 Sept 1995

[26] APRtrak, A Program for Determining the Locations of Ground Stations and Spacecraft, Proceedings of the AMSAT-NA 13th Space Symposium Oct 6-8 1995, Orlando, FL

[28] APRS in Balloons and HOMING-IN column Nov 95 issue of "73" Magazine

[29] The MIM Module, Mobile Radio Technology, May 1996

```
----------------------------END--------------------------------


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

765. Re: [APRSSIG:6816] Tucker Electronics

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Thu, 28 Nov 1996 18:46:43 -0500
To: <aprssig@tapr.org>
Message-ID: <199611282347.SAA00038@grumpy.magg.net>
Rendered body type: text/plain

This is true but the Tucker Test Equipment Branch has NOT closed. They just sold their amateur assets to Ham Radio Outlet. Personally I like HRO but it is scary, they are getting big and that can be a great thing or a really bad thing.

> From: Joe Scalet <jscalet@sound.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6816] Tucker Electronics
> Date: Thursday, November 28, 1996 2:36 PM
>
> A ham on his way through town said that Tucker Electronics had also
> closed its doors. Any other info ?

766. Re: [APRSSIG:6814] Today....

From: Paul Stump <n0lrf@computer-services.com>
Date: Thu, 28 Nov 1996 18:43:01 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961128184008.1d97eaaa@computer-services.com>
Rendered body type: text/plain

>All my friends/cohorts on both the APRS SIG and in the KC APRS Working Group...
>
>A patient and loving significant other who tolerates my incessant efforts to
>put a tracker in her Blazer, the hours at the computer playing with APRS and
>the SIG, running off at all hours of the night to run APRS events for public
>service, and on and on and on and on and on.....
>
>Happy Thanksgiving Day everyone!!!

Ditto THANKS to everyone and especially to you, JIM. You have worked very hard to get it going here in KC!

Thanks & 73!
73, Paul, n0lrf@computer-services.com

767. PicoPacket w/ internal GPS

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Fri, 29 Nov 1996 00:14:50 -0700
To: aprssig <aprssig@tapr.org>
Message-ID: <329E8D66.AF0@goodnet.com>
Rendered body type: text/plain

I am considering getting a second TNC. I currently have a KPC-3 amd like the way it works. I want to put together a tracker and wonder if the PicoPacket with internal GPS would be the way to go. Any feedback about the performance about the PicoPacket with or without internal GPS will be appreciated. Thanks in advance.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/

"As for me and my house, we will serve the Lord." Jos 24:15

---

768. Advise on What GPS unit

From: Jim Prentice WA2MZF QCWA <PRENTICE@scanva.canton.edu>
Date: Fri, 29 Nov 1996 08:33:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01ICEU0SFX4O00G0I7@scanva.canton.edu>
Rendered body type: text/plain

```
Greeting to the group..

   With Christmas coming and xyl asking how to spend money!


Wonder if I could get some suggestions as to what unit to buy
for aprs work ? Running pk232mbx "hopefully can get new eproms"
but for plus or minus 200.00 what gps unit would you guys
suggest and source?  I believe an outside antenna is needed
but not to start with in my applications, but want the ability
to add later on.

 Thanks ur ideas..

73
```

---

769. Re: [APRSSIG:6795] Re: APRS/java

From: schiers@ames.net
Date: Fri, 29 Nov 96 08:01:29 -0500
To: aprssig@tapr.org
Message-ID: <199611291401.IAA15754@tapr.org>
Rendered body type: text/plain

```
In <909347@bbs.ames.net>, on 11/27/96 at 11:30 AM,
   aprssig@tapr.org said:

>Other than that, just tough it out and wait for beta 3!

Thanks to Steve's (wa4dsy) help, I now have the native java
applet viewer in OS/2 Warp 4 working perfectly for his site.
The netscapte beta still doesn't work, and that is what his
comment above refers to. Interestingly enough, the Netscape
beta 2 for OS/2 works just great at KL7J's site and for a
really nice implementation of Java you can look at ESPN's
SportZone...very impressive.

Steve has been a BIG help and watching live APRS data via
internet has a very eerie feel to it. I even saw myself on
the map, when I zoomed out far enough and early in the
evening, I forced a transmission of wx on hf with WinAPRS,
and watched the packet come into Steve's javaAPRS site! In
other words, I watched myself get updated on his system via
30m! Very strange, this mix of rf and computers.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

770. Registration number for Vanity Call

From: rafoster@sig.net (Dick Foster)
Date: Fri, 29 Nov 1996 09:20:22 -0600
To: aprssig@tapr.org
Message-ID: <199611291520.JAA01976@austin.aus.sig.net>
Rendered body type: text/plain

```
To:  Bob Bruninga or other APRS representative

I am a paid up / registered user of APRS under the call sign
W2IE with registration number 12122.

I have recently received my 5th district Vanity call W5TA.
The 12122 registration number will not work with this call.
Please give me a number that will work.

Since I am probably not the only one encountering this problem,
you may want to post something at "aprssig".
```

Will appreciate a prompt reply.

Thanks,
Dick Foster W5TA (formerly W2IE).

---

771. Re: [APRSSIG:6826] Re: APRS/java

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 29 Nov 1996 10:35:30 -0400
To: schiers@ames.net
Cc: Aprssig@tapr.org
Message-ID: <849281730-0-eac@shore.net>
Rendered body type: text/plain

Hello,

There has been some comments on the os2.beta newsgroup that small java
applets seem to work
ok in the NS beta, but large ones only partly load and end up hanging the
system.

73 Eric eac@shore.net WB1HBU

---

772. PK-12 to U-2000 Assistance

From: BordingK@aol.com
Date: Fri, 29 Nov 1996 11:01:11 -0500
To: aprssig@tapr.org
Cc: hcordes@jax-inter.net
Message-ID: <961129110111_2015772119@emout12.mail.aol.com>
Rendered body type: text/plain

A fellow ham, not a member of the SIG, needs assistance in getting a PK-12
and U-2000 up on the air as a Remote Weather Station. He's tried translating
KPC-3 instructions and has been thru the APRSDos Readme Files. But it still
is not working.

If you're using a PK-12/U-2000 setup and can help, please response DIRECTLY
to Henry Coords, AA4QI at: hcordes@jax-inter.net.

And yes, WinAPRS 1.1.7 finally got MY Peet Bros U-2000 up and on the air.
  Thanks, Mark and Keith!

Thanks everyone else, hope you all had a great Thanksgiving!

de KF4COH
Ken in Jax

---

773. Re: [APRSSIG:6825] Advise on What GPS unit

From: Jim Duncan <ku0g@sprynet.com>
Date: Fri, 29 Nov 1996 08:08:46 -0800
To: aprssig@tapr.org
Message-ID: <199611291608.IAA20975@m1.sprynet.com>
Rendered body type: text/plain

At 07:36 11/29/96 -0600, you wrote:
>Greeting to the group..
>
>   With Christmas coming and xyl asking how to spend money!
>
>
>Wonder if I could get some suggestions as to what unit to buy

I strongly recommend the Garmin GPS-45XL. Of course, we're a little biased
here in Kansas City since Garmin is headquartered here and they actively
support the APRS Group.....My opinion my not necessarily be valid...We have
had great successes with the Garmin units all around, though.

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

774. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

```
Received: from endeavor (endeavor.flash.net [208.194.223.40]) by tapr.org (8.7.5/8.7.3/1.9) with SMTP id
 LAA23278 for <aprssig@tapr.org>; Fri, 29 Nov 1996 11:07:17 -0600 (CST)
Received: from LOCALNAME (pm17-37.flash.net [208.194.194.37]) by endeavor (SMI-8.6/8.6.9) with SMTP id
LAA11186 for <aprssig@tapr.org>; Fri, 29 Nov 1996 11:06:40 -0600
Date: Fri, 29 Nov 1996 11:06:40 -0600
Message-Id: <199611291706.LAA11186@endeavor>
X-Sender: brfair@pop.flash.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Bryan Fair <brfair@flash.net>
Subject: Re: [APRSSIG:6801] Re: GARMIN GPS TRAKPAK 31
```

The receiver is the same the gps 38&40 IT is a MultiTrak8
THE GPS 38&40 have an 8088 microprocessor that reads the imput from the GPS
engine
If you want to spend all day at an attempt to pick apart everything then by
all means do so....(a life is needed here) The whole reason I sent the
article was to let every one know about them

The GPS 40 my friend purchased cost him a whole $125 (Can't Say Where:)
Only thing is an antennae from Garmin is around $100
GPS 31 TRKPAK is a good deal IN MY OPINION

I accept the diffrence in price for a completed sealed unit
not having to buy a GPS 20
BUILD or BUY antennae, connections, case, to all their own
as far as the 1pps timing output with a +/- 1msec I HAVE NO NEED OR USE!
if I need a calibration source that is what WWV & a LORAN-C CALIBRATION UNIT
ARE FOR!

At 03:24 PM 11/27/96 -0600, you wrote:

```
>
>Brian Fair sed:
>
>> It has the same 8CH parallel RXCV as the GPS 20,38,40
>
>Not quite. First, it is a SEQUENTIAL receiver, like the 20/38/40
>
>It's not like the '20 because you can't get the precise timing pulses
>from the receiver and some of us are finding that to be useful/important.
>[I believe it IS a 20 inside the box. But you have to break the sealed
> case open to get to it].
>
>It's not like the 38/40 because it has no display, no waypoints, no
>track log, etc.
>
>73, Tom
>
>
```

---

775. Re: [APRSSIG:6828] Re: APRS/java

From: schiers@ames.net
Date: Fri, 29 Nov 96 11:29:56 -0500
To: aprssig@tapr.org
Message-ID: <199611291730.LAA24300@tapr.org>
Rendered body type: text/plain

In <911428@bbs.ames.net>, on 11/29/96 at 09:29 AM,
   aprssig@tapr.org said:

```
>There has been some comments on the os2.beta newsgroup that small java
>applets seem to work
>ok in the NS beta, but large ones only partly load and end up hanging the
>system.

>73 Eric  eac@shore.net  WB1HBU
```

thanks Eric...my experience with NS/beta/2.0 is that some sites work very
well, even doing some pretty fancy things ((ESPN Sports Net and KL7J's
(simpler)), but Steve's siite and Bob's site do not work with NS/beta/2.0
for Os/2.

```
As I pointed out in my other post, the java applet by itself works great
to Steve's soeast.html. Pretty darn nifty! 73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

776. Is it working correctly? No stations

From: Ed Troy <etroy@aeroconsult.com>
Date: Fri, 29 Nov 1996 13:00:52 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961129180052.00abd1b0@popmail.voicenet.com>
Rendered body type: text/plain

```
I have downloaded the aprs program, loaded it, and configured it for my pk232.
I can see all of the packets fine, including ones that include lat/lon info.
I have it set to display all.  If I go to the station list, I have about 40
stations there now.  But, if I look at the map, the only icon I see is the
one for my own station that I manually located.  Is this the way it is
supposed to work, or is something wrong?  I thought I was supposed to see
icons for all the various, (or at least a significant number) of the
stations.  I am using default US map.
************************************************************
Ed Troy
Aerospace Consulting
http://www.aeroconsult.com

RF, Microwave, Wireless, and Analog Design, Development, and
Consulting. Also, circuit board layout using PCAD, software
development, and GPS applications
************************************************************
```

777. Re: [APRSSIG:6826] Re: APRS/java

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 29 Nov 96 14:30:17 -0500
To: <aprssig@tapr.org>
Message-ID: <199611291930.OAA04545@newworld.bridge.net>
Rendered body type: text/plain

```
>Thanks to Steve's (wa4dsy) help, I now have the native java
>applet viewer in OS/2 Warp 4 working perfectly for his site.
>The netscapte beta still doesn't work, and that is what his
>comment above refers to. Interestingly enough, the Netscape
>beta 2 for OS/2 works just great at KL7J's site and for a
>really nice implementation of Java you can look at ESPN's
>SportZone...very impressive.
>
WA4DSY is Dale, who wrote the OS/2 server. The Steve's are K4HG in
Florida who wrote javAPRS and KD6WXD in California who wrote the Windows
server. Can't tell the players without a scorecard, HI.

>Steve has been a BIG help and watching live APRS data via
>internet has a very eerie feel to it. I even saw myself on
>the map, when I zoomed out far enough and early in the
>evening, I forced a transmission of wx on hf with WinAPRS,
>and watched the packet come into Steve's javaAPRS site! In
>other words, I watched myself get updated on his system via
>30m! Very strange, this mix of rf and computers.
>
I know I wasn't the big help, but glad you are enjoying javAPRS. I find
it pretty amazing too. I can hook up to the 4 sites now serving live data
an get from 250 to 300 stations on the map. Once I get APRServe running
and Steve releases the Windows server, 500 and up will be an every day
occurence!

Steve K4HG
```

778. Garmin WebSite

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Fri, 29 Nov 1996 15:56:09 EST
To: aprssig@tapr.org
Message-ID: <19961129.125403.7030.0.Hfigueroa@juno.com>
Rendered body type: text/plain

```
Just information to thise looking for GPS information, Garmin has finally
jumped on the Bandwagon and now have a website  http://www.garmin.com/
```

Have fun and 73's

Hector M. Figueroa E-Mail Hfigueroa@juno.com
World Wide Web Page http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL
Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM

---

779. Re: [APRSSIG:6833] Is it working correctly? No stations

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Fri, 29 Nov 1996 19:13:43 -0500
To: <aprssig@tapr.org>
Message-ID: <199611300019.TAA26808@grumpy.magg.net>
Rendered body type: text/plain

Try seting the TNC to MON 1
Got to dumb term in APRS. I forget not I think it is C then T and enter MON
1

If that resolves the problem change the TNC initialization file to include
MON1. APRS has not had this problem for a few years, seemed to have been
solved, did you tell APRS you were using a AEA tnc. Is your TNC in Command
mode and not HOST ??

> From: Ed Troy <etroy@aeroconsult.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6833] Is it working correctly? No stations
> Date: Friday, November 29, 1996 1:04 PM
>
> I have downloaded the aprs program, loaded it, and configured it for my
pk232.
> I can see all of the packets fine, including ones that include lat/lon
info.
> I have it set to display all. If I go to the station list, I have about
40
> stations there now. But, if I look at the map, the only icon I see is
the
> one for my own station that I manually located. Is this the way it is
> supposed to work, or is something wrong? I thought I was supposed to see
> icons for all the various, (or at least a significant number) of the
> stations. I am using default US map.
> ***
> Ed Troy
> Aerospace Consulting
> http://www.aeroconsult.com
>
> RF, Microwave, Wireless, and Analog Design, Development, and
> Consulting. Also, circuit board layout using PCAD, software
> development, and GPS applications
> ***

---

780. Re: [APRSSIG:6825] Advise on What GPS unit

From: Dayglo <dayglo@radix.net>
Date: Fri, 29 Nov 1996 22:01:28 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961130030128.00702fac@pop.radix.net>
Rendered body type: text/plain

>Wonder if I could get some suggestions as to what unit to buy
>for aprs work ? Running pk232mbx "hopefully can get new eproms"
>but for plus or minus 200.00 what gps unit would you guys
>suggest and source? I believe an outside antenna is needed
>but not to start with in my applications, but want the ability
>to add later on.

I would say that the best GPS unit for APRS work is the TAPR GPS II. I do
not own one myself but come Monday I will be calling TAPR to order one. You
cannot beat the price, and it does not make you feel guilty when you tuck it
away in your car. I am a current owner of a Garmin GPS 40. The unit has a
very nice LCD with great graphics. The unit is quite reliable but better
suited for other purposes because of the LCD.

---

781. Re: GARMIN GPS TRAKPAK 31

From: aprs@juno.com (ap rs)
Date: Fri, 29 Nov 1996 23:58:17 EST
To: aprssig@tapr.org
Message-ID: <19961130.000708.9550.11.aprs@juno.com>

Rendered body type: text/plain

I don't think anyone is picking anything apart, Brian. There is a *big* difference between a 1 or 2 channel sequencing receiver and a 10 or 12 channel parallel one. The 38, 40 and 45 are fine for marine handheld use, hiking, and even casual APRS use (where the GPS can be supervised to make sure it hasn't turned itself off or needs resetting). The 31 is probably nice for using in a tracker where it can see the satellites a lot. We know it doesn't need anyone to keep pushing the power button.

But... the parallel tracking units similar to the Motorola Oncore black boxes (very reasonable), Trimbles, and the GPS 35 (and the units folks build from the 20 and 25 engines) are far superior when it comes to re-acquisition of signal after obscuration and stability of operation than any sequencer I have seen.

On the negative side- the ones I like don't have the cute display on 'em. But that's why I use the funware version of GMDAY. If you haven't seen GMDAY, try my web page:

http://www.mindspring.com/~rwf

On Fri, 29 Nov 1996 11:07:45 -0600 (CST) Bryan Fair <brfair@flash.net> writes:
>The receiver is the same the gps 38&40 IT is a MultiTrak8 THE GPS 38&40 have an 8088 microprocessor that reads the imput from the GPS engine. If you want to spend all day at an attempt to pick apart everything then by
>all means do so....(a life is needed here) The whole reason I sent the article was to let every one know about them

782. Colors on WinAPRS

From: "Don Murray" <james-m@ix.netcom>
Date: Sat, 30 Nov 1996 02:21:10 -0500
To: <aprssig@tapr.org>
Message-ID: <199611300722.XAA00342@dfw-ix10.ix.netcom.com>
Rendered body type: text/plain

I have just recently downloaded the WinAPRS and so far like what I see with one exception.. The screen/map colors... Is there anyway to change them??? That white map background works on me, I would love to be able to set this to black or some other dark background if at all possible..

Any and all suggestions will be greatly appreciated..

Thanks
Don

783. CFIGxxx.APR and new Upgrades?

From: "B.G. Gotshall" <b.gotshall@worldnet.att.net>
Date: Sat, 30 Nov 1996 07:39:11 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <32A0551F.3@worldnet.att.net>
Rendered body type: text/plain

On the last two upgrades (the last one being 76 to 77e) I have had to re-configure the program on the first start up and save it. After that it starts as a registered program should. In past upgrades, the old CFIG file would work with the new upgrade.
I have changed the CFIG to 77d.apr.

Did I miss a step someplace along the way? I have looked thru the readme files and do not see anything about another change to the CFIG file since we changed it to 77d.

Bud (WB4LTF)

784. Davis Wx Wizard III and APRS

From: BordingK@aol.com
Date: Sat, 30 Nov 1996 08:32:31 -0500
To: aprssig@tapr.org
Message-ID: <961130083229_706573546@emout05.mail.aol.com>
Rendered body type: text/plain

One of our Club members has a Davis Instruments Weather Wizard III that he want to get up on the air on APRS. It seems Davis wants $165 for the cable! Seens quite high since he really want need the Davis software if he's setting the device up on APRS.

Has anyone had any luck building their own cable. If so, can you share the pin outs, etc. Right now this weather system is just gathering dust!

P.S. for NOAN: Is it really 88+ degrees up in the Mid-West. That's what's being seen on your gated wx report. It's only 65 here in Florida!

de KF4COH
Ken in Jax

785. Re: [APRSSIG:6840] CFIGxxx.APR and new Upgrades?

From: Arte Booten <N2ZRC@gnn.com>
Date: Sat, 30 Nov 1996 08:52:36
To: aprssig@tapr.org
Message-ID: <199611301352.IAA26962@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Sat, 30 Nov 1996 B.G. Gotshall wrote:

> On the last two upgrades I have had to re-configure the program ... and save it. After that it starts as a registered
> program should ... I have changed the CFIG to 77d.apr.

I think the reason it calls for a new CFIG file is because of what the update file actually is: 76to77e. All versions before 7.7d used a slightly different one. If, on the other hand, Bob had made a 77dto77e, the change wouldn't have been necessary, but I'm sure he thought more people would be upgrading from the older versions and it would be an unwarranted duplication of effort to make two versions of the upgrade.

Which brings up two other comments. With the "new" file "CFIG77d.xxx, when you call up the message digipath list with O(perations)-D(igis)-L(ist), the twelvth slot is taken up by one of the coordinate sets for the "hotkey" maps (ie: 1, 3, 7 and 9 keys) instead of that last digipath or a star for one that's unused.

Second, it seems the X(mit)-B(eacon) command is still disabled, which was noted in 77d.

BTW, I've found that my bad luck with the F9 (Win-Doze) key is a problem with MY computer and NOT APRS. 73

Arte Booten <N2ZRC@gnn.com>
(Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
[Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...

786. Re: [APRSSIG:6841] Davis Wx Wizard III and APRS

From: schiers@ames.net
Date: Sat, 30 Nov 96 08:55:49 -0500
To: aprssig@tapr.org
Message-ID: <199611301456.IAA14761@tapr.org>
Rendered body type: text/plain

In <912261@bbs.ames.net>, on 11/30/96 at 07:28 AM,
aprssig@tapr.org said:

> P.S. for NOAN: Is it really 88+ degrees up in the Mid-West

I send out a beacon once an hour indicating I have a bad therm sensor. The wind, rain, and pressure are accurate.

Waiting for a new sensor. 73,

hasan schiers, N0AN
----
schiers@ames.net
----

787. Starting WinAprs' HSP mode

From: ko6xs@ko6xs.ampr.org
Date: Sat, 30 Nov 96 06:51:15 PST
To: aprssig@tapr.org
Message-ID: <9126@ko6xs.ampr.org>
Rendered body type: text/plain

GM all,
Hope Turkey day was good for u.
Finally got a chance to play with WinAprs 116. I'm trying to setup a complete tracking station in my car using a laptop, Garmin 45, KPC-3 TNC and a Kenwood th79ad HT. But when I enable HSP mode in the "settings-serial port" command, I get a strange dialog box error message: "Can't SetControlLines. Function pointer is nil" I've never seen that one. Can anyone help me get this setup running?
Any help at all would be appreciated.

73s de Jonathan
ko6xs@ko6xs.ampr.org

788. WinAPRS Map Display

From: Jeffrey Greer <KF4GKH@postoffice.worldnet.att.net>
Date: Sat, 30 Nov 1996 10:16:09 -0500
To: aprssig@tapr.org
Message-ID: <19961130151548.AAA5144@LOCALNAME>
Rendered body type: text/plain

I have an IBM Thinkpad 760CD running PC DOS 7.0 & Windoze 3.11, 32MB ram.

I have WinAPRS 1.17. running through an AEA DSP-232 with the recent firmware upgrade.

APRS loads and appears to be running properly. The packets display in the small window below the map screen as they are received. I have logging turned on and can pull them down in the log displays.

However, the only call that is displayed on the maps is my own call. I have toggled every option. Even options that shouldn't have an effect, to no avail.

Is there something simple I'm missing or do I need to move to another operating system?

Thanks, Jeff WD4ET (new vanity call. Old WD4ETO)

789. Re: [APRSSIG:6845] WinAPRS Map Display

From: rbost@itexas.net (Roy Bost)
Date: Sat, 30 Nov 1996 09:35:19 -0600
To: <aprssig@tapr.org>
Message-ID: <19961130153517544.AAA103@rbost.itexas.net>
Rendered body type: text/plain

Make sure that the MONITOR command is turned on!!

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

790. Netscape and Java

From: KB2SCSJB@aol.com
Date: Sat, 30 Nov 1996 11:18:27 -0500
To: aprssig@tapr.org
Message-ID: <961130111826_2082998451@emout03.mail.aol.com>
Rendered body type: text/plain

Hi To all
A few weeks ago some one wrote how there system
(win 3.1 netscape 3.0) seemed to be Java scrpt enabled but the box
to make it java enabled was unchecked and grayed out. So the java enabled
box could not be checked.

I have the same problem. When I go to Bob's home page his dish ant flash showing me that I am java scrpt enabled. When I go to His aprs map Nothing that is supposed to happen happens.

I am running win 3.1, Netscape 3.0, on a 486 33mhz With 4 meg of memory.

MY question is. Why is the java enabled box in netscape grayed out?
Is it because of the fact that with 4meg ram I do not have enough mem to run Java

or is it because I am not running win 95?

Or some other reason I have not thought of yet.

Thank yoiu for your help. 73 de John

E-mail KB2SCS@AOL.COM
Packet KB2SCS@KC2FD.#NLI.NY.USA.NA

791. Re: [APRSSIG:6845] WinAPRS Map Display

From: schiers@ames.net
Date: Sat, 30 Nov 96 10:46:11 -0500
To: aprssig@tapr.org
Message-ID: <199611301646.KAA19784@tapr.org>
Rendered body type: text/plain

In <912309@bbs.ames.net>, on 11/30/96 at 09:10 AM,
aprssig@tapr.org said:

WD4ET said:

>I have an IBM Thinkpad 760CD running PC DOS 7.0 & Windoze 3.11, 32MB ram.

>I have WinAPRS 1.17. running through an AEA DSP-232 with the recent
>firmware upgrade.

I don't know what processor the 760CD runs, but given it looks like at least a 486, and you have 32mb ram, I would HIGHLY recommend upgrading to Win95. You will find the program runs a LOT faster in its 32bit incarnation than under Win31.

Don't take this the wrong way, I am no shill for W95...the ONLY reason I run it on one of my machines is because of two programs: WinAPRS and Win95-SSTV. If your machine has a sound card, you can run color SSTV with it and get outstanding results with Win95 SSTV. I use it here all the time now and am taking my Pasokon board out of my other machine.

My own preference in OS is OS/2 Warp...running 4 here and dearly love it, but Win95 apps won't run on it. 73,

hasan schiers, N0AN
----
schiers@ames.net
----

792. Thanks, Bob- for the "away message"

From: aprs@juno.com (ap rs)
Date: Sat, 30 Nov 1996 11:51:10 EST
To: aprssig@tapr.org
Message-ID: <19961130.115949.4326.2.aprs@juno.com>
Rendered body type: text/plain

I have been using the automatic response "away message" in version 77e and it has really cut down on wasted traffic to my station.

Now when I'm not downstairs in my basement shack and another APRSer sends me a one liner- he gets the "Sorry, I'm away from the terminal- try again later (auto response)" message. I still see his msgs to me, but he now knows not to waste time if he needs a timely response. Several users who have seen this have asked me how I got APRS to do that and I've told them to check out version 77E.

If you have Version 77E and you want to try this, just make your first message to REPLY and put your desired "away message" in the text. When someone sends you a one liner, he'll get your ACK and then your canned message.

Ralph N4NEQ
rwf@mindspring.com

793. Re: [APRSSIG:6824] PicoPacket w/ internal GPS

From: aprs@juno.com (ap rs)
Date: Sat, 30 Nov 1996 11:51:10 EST
To: aprssig@tapr.org
Message-ID: <19961130.115949.4326.1.aprs@juno.com>
Rendered body type: text/plain

David-

I have configured many trackers and use several myself, so I thought I'd answer your message here in the SIG. Sorry that it is so lengthy but there's a lot to say.

Many TNC manufaturers make nice mobile TNCs, including the KPC-3 you have. Most of them support some sort of stand alone GPS tracker mode as well. I have several of them. I've made suggestions to Kantronics as to improvements, but the responses I have received from them indicate that what we have is what we will continue to have.

Not so with Paccomm. The Company is very in tune with APRS and gives us way more support than any other I have seen.

In most stand alone trackers the GPS serial output is wired directly to the TNC's serial input. This makes it difficult to use when you ocassionaly want to run a PC in the car too. It can't be done without rewiring the setup. Even then, unless you want to add a second serial port to your PC, you must make or adapt an HSP (Hardware Serial Port) adapter to allow you to use both the TNC and the GPS together with your PC.

Then when you want to go to Tracker mode again, you have to rewire and issue the GPS command and power the TNC off and back on. The effort discourages flexible operation.

You asked about the Pico Packet. The Pico offers a several unique capabilities not found in any other TNC that makes it great for stand alone tracker use. It can be gotten with a second serial connection which is always connected to your GPS. The TNC is constantly receiving the GPS data, holding it and then sending it to the PC as requested.

Both DOS and WIN APRS support this mode by sending a special character to the TNC when a position report is desired. The TNC stops sending TNC data for a moment, substituting the desired GPS string. I have had perfect operation with intervals as short one second (the quickest APRS will request it). I use this fast operation when updating maps with GPS history.

Because the GPS is always connected to the second serial port, the Pico can do another unique trick. Since the Pico knows APRS is operating because of the periodic position requests sent to it, it can tell if you take the PC away or the PC battery dies or otherwise. After a user controllable period of having no requests from the PC, the Pico reconfigures itself right into a stand alone tracker. It then uses beacon path and interval settings that you have pre loaded . Your entry in the APRS P list even gets changed to a / prefix (indicating a tracker) from an @ symbol (which indicates that a computer is controlling the positions). Your Icon on everyone's map also changes color to that of a tracker. I think this is light gray, but can't remember.

I've tried trackers made from every TNC I can find and really believe that these features currently make the Pico the best arrangement for a mobile unit. Be sure to get the one with the second serial port.

To be fair, I have to blast them a little for not yet having remote sysop commands (even the PK12 from AEA has a limited way to do this. Very limited, though!) They (Paccomm) are always adding features, so I am expecting remote commands and automatic posit rate control based on speed to be forthcoming soon. Remember that Paccomm's main business is commercial TNCs and Vehicle location, so we Hams benefit from all the development they do for that market. This is a case where a person's hobby (Ham packet) became a business and now the business developments help give something back to the Hams (continued development).

One last thing- the Pico is also available with a built in GPS and external active antenna. Up until recentyl, the GPS did not send the $GPRMC sentence that gives speed and heading info. As an example of Paccomm's excellent user support they are going to be upgrading earlier versions of the GPS that lacked this and other sentences.

I'm sure you can get more details from gwyn@paccomm.com.

Gosh... it sounds like I work there. I don't ! I just feel that they currently give a level of user support unseen from other TNC manufacturers. My only other connection is that I gave Linda (Ms. Paccomm) a ride to the Amateur testing sessions at the Tampa Hamfest last

Saturday. That's right- soon she'll be a Ham too. So congratulate and
encourage her when you call to place your order   ;-)

73

Ralph
rwf@mindspring.com

 David/Roxanne McCarthy writes:
>I am considering getting a second TNC. I currently have a KPC-3 amd
like the way it works. I want to put together a tracker and wonder if
the PicoPacket with internal GPS would be the way to go. Any feedback
>about the performance about the PicoPacket with or without internal GPS
will be appreciated. Thanks in advance.
>--
>David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ

---

794. Re: [APRSSIG:6839] Colors on WinAPRS

From: Paul Stump <n0lrf@computer-services.com>
Date: Sat, 30 Nov 1996 11:06:09 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961130110303.260f4dee@computer-services.com>
Rendered body type: text/plain

>I have just recently downloaded the WinAPRS and so far like what I see with
>.. The screen/map colors... Is there anyway to change them???

I'd have to agree.
Mark, I meant to suggest that as an enhancement...
73, Paul, n0lrf@computer-services.com

---

795. Re: [APRSSIG:6844] Starting WinAprs' HSP mode

From: aprs@juno.com (ap rs)
Date: Sat, 30 Nov 1996 12:15:01 EST
To: aprssig@tapr.org
Message-ID: <19961130.122238.4326.9.aprs@juno.com>
Rendered body type: text/plain

Re: Jonathan's HSP problems on WinAPRS:

Don't know about your error, but remember that HSP is for a Hardware
Serial Port adapter (ie: the transistor switch in the docs, the adapter
from Paccomm, or the Pico Packet with built in HSP.)

You don't mention which HSP adapter you have, and if you don't have one
(which would mean you are using dual serial ports) , then you don't need
to be enabling HSP anyway.

I've never gotten HSP to work on WinAPRS at all so far. I have the Pico
with built in HSP as well as the more conventional adapter, and helped
him grasp the concept of HSP, but never was offered a chance to test it
before Mark released it. Not sure who did. Haven't heard anything as to
whether anyone is actually using it yet.

Ralph
rwf@mindspring.com

---

796. Re: [APRSSIG:6845] WinAPRS Map Display

From: Mark Sproul <sproul@ap.org>
Date: Sat, 30 Nov 1996 12:13:58 -0500
To: aprssig@tapr.org
Cc: rbost@itexas.net
Message-ID: <v03007808aec61ba49305@[165.1.27.20]>
Rendered body type: text/plain

>I have an IBM Thinkpad 760CD running PC DOS 7.0 & Windoze 3.11, 32MB ram.
>
>I have WinAPRS 1.17. running through an AEA DSP-232 with the recent firmware
>upgrade.
>
>APRS loads and appears to be running properly. The packets display in the
>small window below the map screen as they are received. I have logging
>turned on and can pull them down in the log displays.
>
>However, the only call that is displayed on the maps is my own call. I have

>toggled every option. Even options that shouldn't have an effect, to no avail.
>
>Is there something simple I'm missing or do I need to move to another
>operating system?
>
>Thanks, Jeff WD4ET (new vanity call. Old WD4ETO)

Yes, there are several TNC settings that have to be set like HEADERLN OFF,
I am working on documenting all of this

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

797. Re: [APRSSIG:6844] Starting WinAprs' HSP mode

From: Mark Sproul <sproul@ap.org>
Date: Sat, 30 Nov 1996 12:15:46 -0500
To: aprssig@tapr.org
Message-ID: <v03007809aec61c0eabe3@[165.1.27.20]>
Rendered body type: text/plain

>GM all,
>Hope Turkey day was good for u.
>Finally got a chance to play with WinAprs 116. I'm trying to setup a complete
>tracking station in my car using a laptop, Garmin 45, KPC-3 TNC and a Kenwood
>th79ad HT. But when I enable HSP mode in the "settings-serial port" command,
>I get a strange dialog box error message: "Can't SetControlLines. Function
>pointer is nil" I've never seen that one. Can anyone help me get this setup
>running?
>Any help at all would be appreciated.
>
>73s de Jonathan
>ko6xs@ko6xs.ampr.org

You have the old Serial DLL

If you are running Windows 3.1, I have not yet updated the 3.1 DLL, if you
are running Win95, just get the new DLL and all will be OK

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

798. Re: [APRSSIG:6839] Colors on WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Sat, 30 Nov 1996 12:27:07 -0500
To: aprssig@tapr.org
Message-ID: <v03007807aec61b477d0d@[165.1.27.20]>
Rendered body type: text/plain

>I have just recently downloaded the WinAPRS and so far like what I see with
>one exception.. The screen/map colors... Is there anyway to change
>them??? That white map background works on me, I would love to be able to
>set this to black or some other dark background if at all possible..
>
>Any and all suggestions will be greatly appreciated..
>
>Thanks
>Don

```
No, WinAPRS does not allow changing of the background colors, but then
neither do very many Windows programs.

Mark Sproul
WinAPRS author

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

799. Re: [APRSSIG:6852] Re: Starting WinAprs' HSP mode

From: Mark Sproul <sproul@ap.org>
Date: Sat, 30 Nov 1996 12:33:20 -0500
To: aprssig@tapr.org
Message-ID: <v0300780aaec6202ea3e7@[165.1.27.20]>
Rendered body type: text/plain

```
>I've never gotten HSP to work on WinAPRS at all so far.  I have the Pico
>with built in HSP as well as the more conventional adapter, and helped
>him grasp the concept of HSP,  but never was offered a chance to test it
>before Mark released it. Not sure who did. Haven't heard anything as to
>whether anyone is actually using it yet.
>


I did thourough testing with a Paccomm HSP cable, at present HSP mode does
NOT work under Windows 3.1 becuase I have not updated the 16 bit DLL yet.


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

800. Re: [APRSSIG:6847] Netscape and Java

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 30 Nov 96 12:54:23 -0500
To: <aprssig@tapr.org>
Message-ID: <199611301754.MAA09356@newworld.bridge.net>
Rendered body type: text/plain

```
>A few weeks ago some one wrote how there system
>(win 3.1 netscape 3.0) seemed to be Java scrpt enabled but the box
>to make it java enabled was unchecked and grayed out.  So the java enabled
>box could not be checked.
>
>I have the same problem. When I go to Bob's home page his dish ant flash
>showing me that I am java scrpt enabled. When I go to His aprs map Nothing
>that is supposed to happen happens.
>
>I am running win 3.1, Netscape 3.0, on a 486 33mhz With 4 meg of memory.
>
>MY question is. Why is the java enabled box in netscape grayed out?
>Is it because of the fact that with 4meg ram I do not have enough mem to run
>Java
>or is it because I am not running win 95?
>
Netscape does not do java under Windows 3.1. There is a beta version that
will, but it is full of bugs and will not run javAPRS. That means it is
coming though...either be patient and wait for Netscape to shake the bugs
out or go to Windows95

Steve K4HG
```

801. Re: [APRSSIG:6827] Registration number for Vanity Call

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sat, 30 Nov 1996 12:28:16 -0600

To: rafoster@sig.net (Dick Foster), aprssig@tapr.org
Message-ID: <9611301228.AA16817@oscar.telalink.net>
Rendered body type: text/plain

```
> To:  Bob Bruninga or other APRS representative
>
> I am a paid up / registered user of APRS under the call sign W2IE
> with registration number 12122.
>
> I have recently received my 5th district Vanity call W5TA.
> The 12122 registration number will not work with this call.
> Please give me a number that will work.
>
> Since I am probably not the only one encountering this problem, you
> may want to post something at "aprssig".
>
> Will appreciate a prompt reply.
>
> Thanks,
> Dick Foster  W5TA (formerly W2IE).
>
```

If you check the registration documentation you will find that there is a $7 fee for a change of callsign. Bob has already posted that info in a previous message to the sig. My club recently got a Vanity call and i need to send in the request and $. Bob's kids get the job of going through this process and issuing registration numbers so that Bob can concentrate on updates to APRS.

73

Bruce

```
--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                    *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
*  group of people with access to the most sophisticated      *
*  technology in the world, who everyone calls on to get the  *
*  really tough jobs done quickly and efficiently."           *
*  -- Nick Lehmann                                             *
****************************************************************
```

802. WIN95 and 77E.

From: "Sam Nabkey, K8SN" <snabkey@k8sn.org>
Date: Sat, 30 Nov 1996 13:32:58 +0000
To: aprssig@tapr.org
Message-ID: <199611301835.MAA26327@tapr.org>
Rendered body type: text/plain

Anybody having trouble? I cannot get 77e to work with my 95 Box.. I have tried everything.

Here are the problems:

1. Won't read the config file.. EVEN if I save it from scratch using the ALT-S Save command. (vice using the 77d setup currently in place.)

2. The COM ports forget to work. I can't find the TNC.

Anybody else running into this problem?

____

Sam Nabkey - K8SN (at home)
Internet: snabkey@k8sn.org
amprnet: k8sn@w8dc.ampr.org
WWW: http://www.k8sn.org
AX.25: K8SN@W8DC.#SWMI.MI.USA.NOAM
Java APRS: http://www.k8sn.org/javAPRS
Fresh APRS Files: FTP ftp.k8sn.org

803. Re: [APRSSIG:6847] Netscape and Java

From: "Tom Carpenter" <wb8vji@tir.com>
Date: Sat, 30 Nov 1996 13:44:17 -0500
To: <aprssig@tapr.org>
Message-ID: <199611301846.NAA29216@tir.com>
Rendered body type: text/plain

```
You cannot run java on win 3.11 it has to be a 32 bit environment like
Win95.

Good luck Tom

----------
> From: KB2SCSJB@aol.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:6847] Netscape and Java
> Date: Saturday, November 30, 1996 11:25 AM
>
> Hi To all
> A few weeks ago some one wrote how there system
> (win 3.1 netscape 3.0) seemed to be Java scrpt enabled but the box
> to make it java enabled was unchecked and grayed out.  So the java
enabled
> box could not be checked.
>
> I have the same problem. When I go to Bob's home page his dish ant flash
> showing me that I am java scrpt enabled. When I go to His aprs map
Nothing
> that is supposed to happen happens.
>
> I am running win 3.1, Netscape 3.0, on a 486 33mhz With 4 meg of memory.
>
> MY question is. Why is the java enabled box in netscape grayed out?
> Is it because of the fact that with 4meg ram I do not have enough mem to
run
> Java
> or is it because I am not running win 95?
>
>  Or some other reason I have not thought of yet.
>
> Thank yoiu for your help. 73 de John
>
> E-mail KB2SCS@AOL.COM
> Packet KB2SCS@KC2FD.#NLI.NY.USA.NA
>
```

---

804. Re: [APRSSIG:6840] CFIGxxx.APR and new Upgrades?

From: rkramer@merge1.mergetel.com (Ron Kramer)
Date: Sat, 30 Nov 1996 18:53:26 GMT
To: aprssig@tapr.org
Message-ID: <32ac8246.738268863@mail.mergetel.com>
Rendered body type: text/plain

```
On Sat, 30 Nov 1996 06:44:35 -0600 (CST), you wrote:
>
>Did I miss a step someplace along the way?  I have looked thru the readme
>files and do not see anything about another change to the CFIG file since
>we changed it to 77d.
>
>Bud (WB4LTF)
>
Add line 47 to original cfig77d.apr   to make it work with 77E
Line 47:> 0,0,0
This is to correct for the 12 unproto line.
73 de Ron                           Best Regards
Email: rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

---

805. Re: [APRSSIG:6852] Re: Starting WinAprs' HSP mode

From: ko6xs@ko6xs.ampr.org
Date: Sat, 30 Nov 96 12:25:14 PST
To: aprssig@tapr.org
Message-ID: <9153@ko6xs.ampr.org>
Rendered body type: text/plain

```
The hsp adapter I am using with WINAPRS is an AEA adapter.
73 de Jonathan
```

806. Log File of Cross Country Trip

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 30 Nov 96 17:52:46 -0500
To: <aprssig@tapr.org>
Message-ID: <199611302252.RAA04721@newworld.bridge.net>
Rendered body type: text/plain

I had procrastinated long enough to finish work on the web page replaying my cross-country trip of a couple months ago. Since QST publiched the URL in the December issue, I decided I better get it done! It is now ready:

http://www.bridge.net/~sdimse/trip.html

The page includes a few pictures, and a javAPRS applet replaying the trip. The original log files were over 4 MB. I wrote a filtering program to remove all non-position report packets like messages, beacons, and IDs, and to remove duplicate packets, such as digipeated packets and reports with too great a frequency. The result is still large, 1 MB, but loads quicker into javAPRS. The program takes about 10 minutes to replay the entire trip, your speed will depend on your CPU and the speed of the network connection.

I have put a zipped version (210kb) of the data file on the TAPR server for those that would like to look at it...it will load into Mac/WinAPRS more quickly than javAPRS.

ftp://ftp.tapr.org/tapr/SIG/aprssig/files/javastuff/trip96.zip

If you want the unedited log file let me know, but I think most people that have asked for my log will get what they want out of the smaller file.

73 de Steve K4HG

---

807. Re: [APRSSIG:6841] Davis Wx Wizard III and APRS

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 30 Nov 1996 18:06:02 -0500
To: aprssig@tapr.org
Cc: BordingK@aol.com
Message-ID: <32A0BDD9.441A@co.pinellas.fl.us>
Rendered body type: text/plain

Unfortunately, the cable between the Davis and the computer is more than just a D/A converter....it contains a proprietary Eprom chip from Davis which, I believe, contains, in part the memory of the weather unit as well as the interface....The Davis software is not required to run the Wx-APRS connection....but they only come bundled together....

P.S. IF you do try to make something....red is negative, NOT positive

```
--
**********************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
**********************************************************************
```

---

808. Re: [APRSSIG:6846] Re: WinAPRS Map Display

From: Jeffrey Greer <KF4GKH@postoffice.worldnet.att.net>
Date: Sat, 30 Nov 1996 18:23:24 -0500
To: aprssig@tapr.org
Message-ID: <19961130232308.AAA7332@LOCALNAME>
Rendered body type: text/plain

At 03:43 PM 11/30/96 +0000, you wrote:
>Make sure that the MONITOR command is turned on!!
>

After knowing the proper direction to look, I found that the AEA TNC was initializing in the "beginner" mode. I de-selected the AEA button in the APRS TNC setup screen and then entered the commands for headerln off, monitor on, and echo on manually. Everything works now. I'm on the air!

Thanks for all of the responses. As usual, the amateru community came to the rescue.

73 Jeff WD4ET

809. GPS Navigation using sound capable notebook

```
From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 30 Nov 1996 18:41:39 -0400
To: aprssig@tapr.org, bitbucket@primenet.com
Message-ID: <849397299-0-eac@shore.net>
Rendered body type: text/plain
```

```
Hello,

I am kinda interested in this due to my travels to the U.K.  There is a
company that
offers a GPS map program with voice output.  It is interesting in that it
can handle
scanned in maps as it uses BMP format.  The full blown package is mucho
pounds
but the "lite" version sounds interesting.

http://ourworld.compuserve.com/homepages/gpss/


73 Eric  eac@shore.net  WB1HBU
```

---

810. Re: [APRSSIG:6855] Re: Colors on WinAPRS

```
From: "Don Murray" <james-m@ix.netcom>
Date: Sat, 30 Nov 1996 21:55:27 -0500
To: <aprssig@tapr.org>
Message-ID: <199612010255.SAA16362@dfw-ix10.ix.netcom.com>
Rendered body type: text/plain
```

```
Thanks, I guess that reply saves me $60.00.

Don

----------
> From: Mark Sproul <sproul@ap.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:6855] Re: Colors on WinAPRS
> Date: Saturday, November 30, 1996 12:35 PM
>
> >I have just recently downloaded the WinAPRS and so far like what I see
with
> >one exception..  The screen/map colors...  Is there anyway to change
> >them???  That white map background works on me, I would love to be able
to
> >set this to black or some other dark background if at all possible..
> >
> >Any and all suggestions will be greatly appreciated..
> >
> >Thanks
> >Don
>
>
>
> No, WinAPRS does not allow changing of the background colors, but then
> neither do very many Windows programs.
>
> Mark Sproul
> WinAPRS author
>
>
__________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
>
__________________________________________________________________________
>
>
```

---

811. Request help with GPS/KPC3 decision

```
From: John Bayne <jjbayne@worldnet.att.net>
Date: Sat, 30 Nov 1996 22:41:40 -0500
To: aprssig@tapr.org
Message-ID: <2.2.16.19961201034140.359fde54@postoffice.worldnet.att.net>
Rendered body type: text/plain
```

Hi folks,

This is my first post to this list. My call is N4EEB and I'm in Ormond Beach, FL. I'm working on GPS tracking projects for the Civil Air Patrol here in Florida. I have a KPC3 running the ver 6.0 rom. I am going to invest in a professional grade mapping program soon, probably VISTA for search and rescue work. I am interested in getting your suggestions on a GPS receiver (no frills, no display) for use in an aircraft (120 its plus) and in a car, that would be a good match for the KPC3. I'd like to find one that does not require an initio string from the TNC prior to the unit sending NMEA 0183 ver 2.0 output. I'd also like one will all of the nmea 2.0 sentences. I was considering the Delorme Tripmate, but don't like the idea of the unit having to be powered up for 5 seconds and then dependant on an init string. Does anyone have any suggestions for me?

I would really like to use APRS, but from what I've seen (and I could be very wrong on this) the available maps do not support the level of precision needed to manage a serious SAR mission. I need the ability to toggle between sectional aeronautical charts, road maps, and topo maps. Vista is the only program that I have found that allows this. I also need to create overlays (such as the CAP grid system) for the maps. If anyone can comment on this too, I'd appreciate it.

Thanks in advance,

John Bayne N4EEB
jjbayne@worldnet.att.net

---

812. trimble pcmcia gps

From: George Kammerzell <gkammerzell@denver-net.com>
Date: Sat, 30 Nov 1996 21:15:26 -0700
To: aprssig@tapr.org
Message-ID: <32A1065E.3F31@denver-net.com>
Rendered body type: text/plain

Has anyone out there used a trimble pcmcia gps with
aprs..DOS or Windows...I have one(thru a hand me
down note book) and the only thing I have been able
to use it thih is it's control pannel...From what I
understand from talking with the great customer
support at trimble , one has to write their own
shell and they want $380 for their SDK that is just
a collection of source code segments...would like
to make use of this thins,,,,,,thanks....George
N0ZED...gkammerzell@denver-net,com

---

813. APRS in Wecagram

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Sat, 30 Nov 96 23:57:02 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.849416222.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

[begin tooting own horn]
See http://www.weca.org/wecagram/9612
[end tooting own horn]
73 de Alan N2YGK

December 1996

Original source file: aprssig.9612
Source: https://archive.org/details/tapr-1997
Recovered from: https://archive.org/download/TAPR-APRS_1996-12/TAPR-APRS_1996-12.txt

1. PacComm Kudos (was: PicoPacket w/ internal GPS)

From: Arte Booten <N2ZRC@gnn.com>
Date: Sun, 01 Dec 1996 09:39:58
To: aprssig@tapr.org
Message-ID: <199612011440.JAA27441@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Sat, 30 Nov Ralph wrote:

>... I've made suggestions to Kantronics as to improvements,
>but the responses I have received from them indicate that
>what we have is what we will continue to have.
>
>Not so with Paccomm. The Company is very in tune with APRS
>and gives us way more support than any other I have seen.
>... They (Paccomm) are always adding features ... Remember
>that Paccomm's main business is commercial TNCs and Vehicle
location, so we Hams benefit from all the development they do
>for that market. This is a case where a person's hobby (Ham
>packet) became a business and now the business developments
>help give something back to the Hams.

Back when I was just toying with the idea of getting a GPS unit and I was relatively new to the SIG, I was very favorably impressed with the helpfulness, support and obvious love of concern Gwyn showed us in his posts and responsiveness to the needs, desires, wishes and (sometimes) whims of APRS users. I wrote him expressing this and said that I'd rarely seen such a level of hands-on person-to-person touch from ANY other amateur radio equipment manufacturer. Indeed, not from almost any business in any field.

They make an excellent product that is supported far and beyond that of one's normal expectations of a business. I said that this was a refreshing, delightful change from the norm of today's "Hey, you bought it. Now live with it and stop asking so many weird questions," attitude prevalent in today's make-a-buck, downsized, cold and impersonal business attitude.

In other words, this was the way I'd like to run my own business and how I wish everybody ran theirs. I'm in retail sales and recognize that such an attitude is the key to repeat customers. If you treat the customer with respect, offer them the knowledge they need, occasionally absorb a few bucks of profit to make sure they'll come back then they will.

Gwyn and Linda (and their employees), in my mind, exemplify the "American Dream" of making and growing a business while keeping a pulse on their customers' needs and throwing in that "extra something" that makes their business special, that makes them stand far and away ahead of the crowd.

BTW, I don't work for them either. Haven't been paid for the above (or otherwise renumerated.) I'm just one of their very satisfied customers.

And congratulations, Linda! I'm sure you know that you can connect to the QRZ website (www.qrz.com) and get your new call there several days before the ticket arrives in the mail. With the current FCC rules, as soon as you KNOW what your callsign is you can get on the air (you no longer need to physically posess the ticket!)

One of the things I do (on behalf of our ARRL Division Director) is send radiograms to new hams welcoming them to the hobby. So here's yours:

"WELCOME TO OUR GREAT FRATERNITY
SPEND TIME EXPLORING THE MANY

```
          EXCITING FACETS OF OUR HOBBY
          CONTACT YOUR LOCAL CLUB AND GET INVOLVED
          WE STAND READY TO ASSIST YOU  73"


     Unfortunately, I don't know your call.  When I send these
radiograms, I've been supplied with the daily FCC updates, thus
the ham delivering the radiogram is, in most cases, informing
the newbie of their callsign FOR THE FIRST TIME days before
the paperwork arrives from Gettysburg.  After all you've done
for us, I wish I could give you this information.  73


               Arte Booten <N2ZRC@gnn.com>
 (Packet Radio: N2ZRC@KB2VLX.#BRONX.NY.USA.NA)
  [Cruise Missile Coordinates: 40 52.69N / 073 54.06W]

... Sensors say there is nothing at those coordinates ...
```

---

2. Delorme Tripmate

From: Irvin Feldman <irvinf@i1.net>
Date: Sun, 01 Dec 1996 09:09:23 -0500
To: aprssig@tapr.org
Message-ID: <199612011511.JAA23441@mail1.i1.net>
Rendered body type: text/plain

```
For everyones info, in the flyer I have  from Computer City--Delorme
Tripmate is on
sale for $130 until Dec 6.

Irv N0NOB
irvinf@i1.net
```

---

3. Re: [APRSSIG:6871] PacComm Kudos (was: PicoPacket w/ i

From: schiers@ames.net
Date: Sun, 01 Dec 96 09:11:45 -0500
To: aprssig@tapr.org
Message-ID: <199612011513.JAA17462@tapr.org>
Rendered body type: text/plain

```
In <913275@bbs.ames.net>, on 12/01/96 at 08:35 AM,
   aprssig@tapr.org said:

> Gwyn and Linda (and their employees), in my mind, exem-
>plify the "American Dream" of making and growing a business
>while keeping a pulse on their customers' needs and throwing in that
>"extra something" that makes their business special, that makes them
>stand far and away ahead of the crowd.

I couldn't agree more. They are first class in service and their products
are outstanding. Based on my experience with their products and service,
(tiny2, pico, gps antenna, etc.), I would not hesitate to recommend them.
73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

4. Re: [APRSSIG:6863] Log File of Cross Country Trip

From: schiers@ames.net
Date: Sun, 01 Dec 96 09:26:43 -0500
To: aprssig@tapr.org
Message-ID: <199612011527.JAA18081@tapr.org>
Rendered body type: text/plain

```
In <912738@bbs.ames.net>, on 11/30/96 at 04:43 PM,
   aprssig@tapr.org said:

>http://www.bridge.net/~sdimse/trip.html

Just and FYI...I tried it last night and couldn't get it to
load the dosAPRS map with the OS/2 applet which works fine
with soeast.html

73,

hasan schiers, N0AN
```

```
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

5. Re: [APRSSIG:6850] Re: PicoPacket w/ internal GPS

From: Richard Parry <rparry@qualcomm.com>
Date: Sun, 1 Dec 1996 07:36:44 -0800
To: aprssig@tapr.org
Message-ID: <v03007800aec755d0f2ba@[129.46.92.34]>
Rendered body type: text/plain

Regarding what TNC/GPS to get, I will tell you that 2 weeks ago I ordered a PicoPacket. At $555 is was a difficult decision, however, David said it all below. I felt that given the flexibility, the features, the size, and Paccomm support it was the right decision. It has not arrived yet however :)

>David-
>
>
>I have configured many trackers and use several myself, so I thought I'd
>answer your message here in the SIG. Sorry that it is so lengthy but
>there's a lot to say.
>
>Many TNC manufaturers make nice mobile TNCs, including the KPC-3 you
>have. Most of them support some sort of stand alone GPS tracker mode as
>well. I have several of them. I've made suggestions to Kantronics as to
>improvements, but the responses I have received from them indicate that
>what we have is what we will continue to have.
>
>Not so with Paccomm. The Company is very in tune with APRS and gives us
>way more support than any other I have seen.
>
>In most stand alone trackers the GPS serial output is wired directly to
>the TNC's serial input. This makes it difficult to use when you
>ocassionaly want to run a PC in the car too. It can't be done without
>rewiring the setup. Even then, unless you want to add a second serial
>port to your PC, you must make or adapt an HSP (Hardware Serial Port)
>adapter to allow you to use both the TNC and the GPS together with your
>PC.
>
>Then when you want to go to Tracker mode again, you have to rewire and
>issue the GPS command and power the TNC off and back on. The effort
>discourages flexible operation.
>
>You asked about the Pico Packet. The Pico offers a several unique
>capabilities not found in any other TNC that makes it great for stand
>alone tracker use. It can be gotten with a second serial connection
>which is always connected to your GPS. The TNC is constantly receiving
>the GPS data, holding it and then sending it to the PC as requested.
>
>Both DOS and WIN APRS support this mode by sending a special character to
>the TNC when a position report is desired. The TNC stops sending TNC
>data for a moment, substituting the desired GPS string. I have had
>perfect operation with intervals as short one second (the quickest APRS
>will request it). I use this fast operation when updating maps with GPS
>history.
>
>Because the GPS is always connected to the second serial port, the Pico
>can do another unique trick. Since the Pico knows APRS is operating
>because of the periodic position requests sent to it, it can tell if you
>take the PC away or the PC battery dies or otherwise. After a user
>controllable period of having no requests from the PC, the Pico
>reconfigures itself right into a stand alone tracker. It then uses
>beacon path and interval settings that you have pre loaded . Your entry
>in the APRS P list even gets changed to a   / prefix (indicating a
>tracker) from an @ symbol (which indicates that a computer is controlling
>the positions). Your Icon on everyone's map also changes color to that
>of a tracker. I think this is light gray, but can't remember.
>
>I've tried trackers made from every TNC I can find and really believe
>that these features currently make the Pico the best arrangement for a
>mobile unit.   Be sure to get the one with the second serial port.
>
>To be fair, I have to blast them a little for not yet having remote sysop
>commands (even the PK12 from AEA has a limited way to do this. Very
>limited, though!) They (Paccomm) are always adding features, so I am
>expecting remote commands and automatic posit rate control based on speed

>to be forthcoming soon. Remember that Paccomm's main business is
>commercial TNCs and Vehicle location, so we Hams benefit from all the
>development they do for that market. This is a case where a person's
>hobby (Ham packet) became a business and now the business developments
>help give something back to the Hams (continued development).
>
>One last thing- the Pico is also available with a built in GPS and
>external active antenna. Up until recentyl, the GPS did not send the
>$GPRMC sentence that gives speed and heading info. As an example of
>Paccomm's excellent user support they are going to be upgrading earlier
>versions of the GPS that lacked this and other sentences.
>
> I'm sure you can get more details from gwyn@paccomm.com.
>
>Gosh... it sounds like I work there. I don't ! I just feel that they
>currently give a level of user support unseen from other TNC
>manufacturers. My only other connection is that I gave Linda (Ms.
>Paccomm) a ride to the Amateur testing sessions at the Tampa Hamfest last
>Saturday. That's right- soon she'll be a Ham too. So congratulate and
>encourage her when you call to place your order   ;-)
>
>
>73
>
>Ralph
>rwf@mindspring.com
>
>
>
> David/Roxanne McCarthy writes:
>>I am considering getting a second TNC. I currently have a KPC-3 amd
>like the way it works. I want to put together a tracker and wonder if
>the PicoPacket with internal GPS would be the way to go. Any feedback
>>about the performance about the PicoPacket with or without internal GPS
>will be appreciated. Thanks in advance.
>>--
>>David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ

Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link Software Engineer
Internal Web --> <http://qcwww/~rparry/>
External Web --> <http://www.qualcomm.com/~rparry>
----

6. Re: [APRSSIG:6844] Starting WinAprs' HSP mode

From: Joe Agrelo <jagrelo@cris.com>
Date: Sun, 01 Dec 1996 11:49:30 -0800
To: aprssig@tapr.org
Message-ID: <32A1E14A.25D4@cris.com>
Rendered body type: text/plain

ko6xs@ko6xs.ampr.org wrote:
>
> GM all,
> Hope Turkey day was good for u.
> Finally got a chance to play with WinAprs 116. I'm trying to setup a complete
> tracking station in my car using a laptop, Garmin 45, KPC-3 TNC and a Kenwood
> th79ad HT. But when I enable HSP mode in the "settings-serial port" command,
> I get a strange dialog box error message: "Can't SetControlLines. Function
> pointer is nil" I've never seen that one. Can anyone help me get this setup
> running?
> Any help at all would be appreciated.
>
> 73s de Jonathan
> ko6xs@ko6xs.ampr.org

Jonathen,

I had the same problem this weekend when I went to use the HPS mode. The
problem
is that you need the latest .DLL files included with WinAPRS 1.1.7
update, the new
serial .DLL file enables the "setcontrollines" command to work with the
DTR line used for
the switch.

Thanks to Mark Sproul for the solution to this problem over the weekend.

Hope this helps.

73 De Joe N2OOC-7

7. Re: [APRSSIG:6871] PacComm Kudos (was: PicoPacket w/ i

From: Roger Selers <rsellers@rockford.com>
Date: Sun, 01 Dec 1996 12:39:31 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961201123929.0068b248@rockford.com>
Rendered body type: text/plain

Hi Ralph,
In reference to your message to Linda at Paccomm. Nice post!
It's good to see some hams can still offer a kind word and assistance to
others. Locally here there's so many problems. You can't hardly say
anything to someone in the ham community without causing a rift somewhere.
Makes me kinda wish I liked in your part of the country. I thinks it's
great to see an optomist on the sig.

73,

Roger Sellers KB9LBU
email: Home rsellers@rockford.com
KB9LBU@juno.com
Work rsellers@snds.com

8. Re: [APRSSIG:6874] Re: Log File of Cross Country Trip

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Sun, 01 Dec 1996 13:34:02 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961201193402.006cd4e8@tbcnet.com>
Rendered body type: text/plain

I saw it...and WOW!!!!
It's incredible how many APRS stations there are in the US and S Canada!

jbl

At 09:32 12/1/96 -0600, you wrote:
>In <912738@bbs.ames.net>, on 11/30/96 at 04:43 PM,
> aprssig@tapr.org said:
>
>>http://www.bridge.net/~sdimse/trip.html
>
>Just and FYI...I tried it last night and couldn't get it to
>load the dosAPRS map with the OS/2 applet which works fine
>with soeast.html
>
>73,
>
>hasan schiers, N0AN
>---
>schiers@ames.net
>---
>

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

9. Help with Baycom setup.

From: "Carl " <ke6foa@elite.net>
Date: Sun, 1 Dec 1996 14:15:04 -0800
To: <aprssig@tapr.org>
Message-ID: <199612012213.OAA01175@almond.elite.net>
Rendered body type: text/plain

Help will be getting a baycom TNC, and need to know if it is set up
for APRS is the same as AEA KAM or other, and if there are any special
tricks, this will be used with Garmin GPS.
Thanks Carl, KE6FOA

73's

10. MIM & MIC-E

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sun, 1 Dec 1996 15:33:56 -0800

To: aprssig@tapr.org
Message-ID: <199612012333.PAA24164@poseidon.coastside.net>
Rendered body type: text/plain

ATTN Siggers..
Browsing some of the APRS WEB home pages, mentioned here on the sig, and notice a lack of referrels to the MIM or MIC-E APRs capabilites.
Clements WEB Page

"http://home.navisoft.com/agrelo/clement.htm"

is loaded with very interesting information, pictures and data on the Mim and Mic-E minature boards, and the new Ver 2.0 surface mounted even smaller minature TNC board.
May I suggest next time you HOME WEB PAGERS, upgrade your net info, you mentioned and give a small discription and the URL for the MIM/MIC-E products.
Could very will stir up more interest in APRS. A recent QST magazine even has a New Products article on the Mim chip.

P.S. for good black backgrounded maps, check out the DOS APRS VERSION OF APRS MAPS...Many outstanding maps of the USA areas.

73's & Enjoy, Bill/WB6LPG
NNNN

WBB/WB6LPG

---

11. (no subject)

From: smithal@ix.netcom.com (Arthur L. Smith)
Date: Sun, 1 Dec 1996 16:47:01 -0800
To: aprssig@tapr.org
Message-ID: <199612020047.QAA19813@dfw-ix2.ix.netcom.com>
Rendered body type: text/plain

TO ALL ON THE SIG:

I have accepted a new challenge (job) in Landstuhl Germany. The "RELAY" at my QTH, N39□37'01.5" / W104□45'41.2", on 145.79, will be off the air effective 12/9 until I return, and I will also un-subscribe before I leave. If I get a recripocal license I will try to initiate APRS in Germany from my QTH and vicinity . When I learn my new email address I will probably re-subscribe to the SIG, but unfortunately, none of the major players here in the states - Prodigy, AOL, Compuserve, Netcom, June, etc. - have points of presence(POP)connection in Germany! I will probably have email at work, but it probably will not be possible for me to subscribe to the SIG due to the volume of postings.

I am taking my APRS, 2m and HF gear with me if I get the license in time, so maybe you wil see me on 10.151 mhz. I requested info from ARRL on the 22nd but have had no answer yet on the license.

Art, KB1TX
at least for now - smithal@ix.netcom.com

---

12. Re: [APRSSIG:6879] Help with Baycom setup.

From: rwf@mindspring.com
Date: Sun, 01 Dec 1996 20:38:30 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961201203641.007241f8@mindspring.com>
Rendered body type: text/plain

Sorry, Carl-

Unless Baycom has come out with a TNC (I don't think so), you are out of luck right now. A Baycom is not a TNC- its only the Modem part of a TNC. The unit relies on software in your PC to do the rest of the job. It will not work with any version of APRS that is currently out here.

I recall a message from someone who (I think) mentioned that he was working on a program that uses APRS protocols and I think he mentioned a Baycom.

Go ahead and spring for a low cost regular TNC. You'll be able to stay on the map with APRS even when the computer is off.

Ralph- N4NEQ

At 04:18 PM 12/1/96 -0600, you wrote:
> Help will be getting a baycom TNC, and need to know if it is set up
>for APRS is the same as AEA KAM or other,
<snip>

---

13. Re: [APRSSIG:6155] APRS SIG Sign-up

From: gerardo arias <hk3gal@ibm.net>
Date: Sun, 01 Dec 1996 21:16:14 -0500
To: aprssig@tapr.org
Message-ID: <32A23BEE.1891@ibm.net>
Rendered body type: text/plain

>
>   "
>
>
>
>   "unsubscribe aprssig Gerardo , Arias. "
>
>>
>

---

14. Re: [APRSSIG:6827] Registration number for Vanity Call

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Dec 1996 09:48:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961202094624.1123G-100000@arctic>
Rendered body type: text/plain

On Fri, 29 Nov 1996, Dick Foster wrote:

> I have recently received my 5th district Vanity call XXXXX
>
> Since I am probably not the only one encountering this problem,
> you may want to post something at "aprssig".

APRSdos REPLY/COMMENT: The subject is coverd in both REGISTER.txt and in
the F1-HELP-VALIDATION help screen. Well, at least I think it is, hi
hi...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

15. What is a boy to choose

From: Dave Taylor <73563.3352@CompuServe.COM>
Date: 02 Dec 96 10:00:48 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <961202150047_73563.3352_FHD43-2@CompuServe.COM>
Rendered body type: text/plain

Hi

I have been fooling around with both aprs75c and winaprs117. Is there a
document which outlines the feature differences between these packages and also
between javaaprs. From my testing I seem to like winaprs but aprs seems to have
different features. Also how can I get better maps. I have rand mcnally
streetfinder and it would be interesting to convert those maps for aprs use. I
will also be getting the delorme kit which includes the gps. any ideas to
improve map granularity would be appreciated.

Thanks

Dave
N1fcc

---

16. Re: [APRSSIG:6885] What is a boy to choose

From: Mark Sproul <sproul@ap.org>
Date: Mon, 2 Dec 1996 10:33:38 -0500
To: aprssig@tapr.org
Cc: 73563.3352@compuserve.com
Message-ID: <v03007805aec8a69614ec@[165.1.27.20]>
Rendered body type: text/plain

>Hi
>
>I have been fooling around with both aprs75c and winaprs117. Is there a
>document which outlines the feature differences between these packages and
>also

>between javaaprs. From my testing I seem to like winaprs but aprs seems
>to have
>different features. Also how can I get better maps. I have rand mcnally
>streetfinder and it would be interesting to convert those maps for aprs
>use. I
>will also be getting the delorme kit which includes the gps. any ideas to
>improve map granularity would be appreciated.
>
>Thanks
>
>Dave
>N1fcc

THe intention of Mac/WinAPRS is to have all of the funtionality of APRS, I feel that we do have MOST of them. We do not have support for meteor scator or space mode and are probably not going to implement them anytime soon.

We have a CD-ROM full of maps down to the street level and we have been making more maps for people if they are not on the CD-ROM.

These maps for WinAPRS are down to the street level, VERY detailed and some very large.

I am working on documentation for WinAPRS a lot lately and will be adding some feature comparison info mainly for people used to APRS so they can find the equivilent in WinAPRS, this wont be done for awhile yet.

Mark

```
________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
________________________________________________________________________
```

17. APRS77e and config

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Dec 1996 11:04:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961202110059.1123R-100000@arctic>
Rendered body type: text/plain

I made a mistake in 77d which made it not save and load its config file properly. Hopefully I tried to fix that in 77e.

There seems to be lots of discussion, but if you start 77e from scratch (APRS77E/new) then all should be OK...

Some of the messages I have seen are confusing... If its still broke, tell me again... hi hi..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

18. APRSdos compressed maps

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Dec 1996 12:02:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961202113726.2658A-100000@arctic>
Rendered body type: text/plain

For years, APRSdos maps could be saved in either a normal or compressed format. The advantage of the compressed format is that the file was about 50% as big and loaded twice as fast from disk. The disadvantage was that I had never finished fixing MAPFIX.exe to be able to TASK-OVERLAY and TASK-IMPORT directly from a compressed map. You had to uncompress it first.

Since those mapfix commands are very powerful, I just continuted to distribute maps in the normal format so that I wouldnt be hampered in my mapmaking. Also, since my distribution files are ZIPPED, you achieved the same compressiong and so nothing was gained during distribution..

BUT now, over 3 days of TNXgiving, I finally fixed MAPFIX29 to fully handle the compressed map format, so I spent days loading and re-saving all of my standard MAPS to the compressed format. You will see these maps and the new MAPFIX in a week or so... the normal user will see NOTHING new, all of this is transparent to the user.... unless he is a mapmaker...

The formats are very similar, the only thing I do is convert the two, 3/4 digit X,Y values for every point into THREE ASCII characters. This gives an 8 to 4 (including the CR on each line) reduction in the number of bytes per map point...

```
ORIGINAL FORMAT:  XXX,YYY   Could be any +/- integer value but mapmakers
                            were encouraged to keep them between 0 and 999
                            to keep the number of bytes to 3 or less

NEW FORMAT:       abc       Where:  a = 27+INT(XXX/16)   Rx = remainder
                                    b = 27+INT(YYY/8)    Ry = remainder
                                    c = 27+(8*Rx + Ry)
```

Notice that I add 27 to all three characters so that the results are all printable ascii characters. This process places limits on the original XXX,YYY values as follows:

```
             XXXX had to be between    0 and 3600
             YYYY had to be netween    0 and 1800
```

My documentation has been saying for years to keep your points between 0 and 2048 and 1024, but on looking in detail, the above values to almost 3600 and 1800 are permitted. MAPFIX29 draws the yellow limit box to these new limits. If your map does not fit entirely within the yellow box, MAPFIX will not let you compress it (shift-F3).   Thats why I had to load EVERY one of my 300 maps and use the CHANGE-ORIGIN command on many of them to rescale all the points to fit within the limits.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

19. Re: [APRSSIG:6886] Re: What is a boy to choose

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 2 Dec 96 14:29:06 -0500
To: <aprssig@tapr.org>
Message-ID: <199612021929.OAA07282@newworld.bridge.net>
Rendered body type: text/plain

>>I have been fooling around with both aprs75c and winaprs117. Is there a
>>document which outlines the feature differences between these packages and
>>also
>>between javaaprs. From my testing I seem to like winaprs but aprs seems
>>to have
>>different features. Also how can I get better maps. I have rand mcnally
>>streetfinder and it would be interesting to convert those maps for aprs
>>use. I
>>will also be getting the delorme kit which includes the gps. any ideas to
>>improve map granularity would be appreciated.
>>
>>Thanks
>>
>>Dave
>>N1fcc

javAPRS is not intended as a competitor Mac/WinAPRS/dos. I would go nuts trying to match the feature sets in those programs, plus writing in Java provides some serious limitations, like no serial I/O! Interpreted Java is also very slow compared to compiled C used in Mac/WinAPRS and the compiled basic used in APRSdos.

Bob faces some serious limitations himself in programming APRSdos. Foremost is the dos limitations on 640k. Many of my MacAPRS maps are bigger than that, and all take more system memory when loaded (TSB [The Sproul Brothers] use triple buffering to speed up screen redraws for the maps). Java grabs 6 MBs on my system before it will even run a simple text applet. It is simply amazing how much Bob has been able to cram into APRSdos, espcially since, unlike TSB (or once upon a time myself), Bob is not a professional programmer. He would have been a great one! Unfortunately, bigger maps just aren't in the cards for APRSdos.

javAPRS likewise will never be able to open the large maps that Mac/WinAPRS support. It does, however, support a feature that allows it to display, on demand, a detailed street map of any area, obtained from the census bureau's TIGER map site. There are some (for now) serious limitations with this. See:

http://www.bridge/net/~sdimse/tiger.html

for a sample and discussion of the problems.

Everyone's ideal is to use a CD rom and have the maps draw as quickly with as much detail. The programming skill required to jam an entire US ATLAS on a CD ROM is enormous, and the companies that have done this have an enormous investment in their program. They won't just tell us how it's done so we can decode the data within our programs. There is one bright spot on the horizon though, one of the companies (Precision Mapping) does provide a programming kit that may be able to be incorporated into one or more of the APRS family of programs. If it is done, you can bet it will be announced on the SIG.

In any case, the final choice between WinAPRS and APRSdos comes down to a matter of taste. I've been doing APRS for more than 4 years now. I liked the program so much I actually bought a PC just to run it (quite a concession for a Mac guy). But being a Mac guy it drove me nuts not to be in a windowed environment. I also hated the black background. (A couple days ago someone rather crisply critisized TSB for the lack of this option, but it is entirely a matter of what you are used to. I had never considered drawing javAPRS maps on a black background until I released it with a light background typical of Mac/Windows programs and was promptly roasted by the legions of users who are accustomed to APRSdos.)
Mac/WinAPRS will eventually support almost all of what APRSdos does, but it is a matter of priorities. Remember that APRSdos has been around 5 years or so longer than WinAPRS, and be patient.

73 de Steve K4HG

---

20. Re: [APRSSIG:6888] APRSdos compressed maps

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 2 Dec 96 14:36:00 -0500
To: <aprssig@tapr.org>
Message-ID: <199612021935.OAA08036@newworld.bridge.net>
Rendered body type: text/plain

>
\>For years, APRSdos maps could be saved in either a normal or compressed
\>format. The advantage of the compressed format is that the file was about
>50% as big and loaded twice as fast from disk. The disadvantage was that
>I had never finished fixing MAPFIX.exe to be able to TASK-OVERLAY and
\>TASK-IMPORT directly from a compressed map. You had to uncompress it
\>first.
>

If you are planning to use maps with javAPRS, be sure to save a copy in uncompressed format, as javAPRS does not handle the compressed format. It may be twice as fast under APRSdos, but under java it would be slower. If enough of these maps are made I will update the program to handle them, but that will be a long time in the future, I have many other things to do the javAPRS and APRServe that are a much higher priority.

Steve K4HG

---

21. Re: javaAPRS vs WinAPRS vs dosAPRS

From: Mark Sproul <sproul@ap.org>
Date: Mon, 2 Dec 1996 15:14:19 -0500
To: aprssig@tapr.org
Message-ID: <v03007817aec8e6c52951@[165.1.27.20]>
Rendered body type: text/plain

-MUCH deleted

here here, very well said Steve, but you cant even get your own URL write, its

\>http://www.bridge.net/~sdimse/tiger.html
>

not
\>http://www.bridge/net/~sdimse/tiger.html
>
        (you had a / were a . belonged)

```
        dosAPRS came out in september 1992
        MacAPRS came out in 1994
        WinAPRS came out in early 96, so its 4 years, not 5
        X-APRS Hopefully will be out in 1997 (dont hold me to it)
```

xxxAPRS has evolved QUITE well over the last few years, Bob has done a wonderful job "marketing" the idea and getting it going in many aspects. Bob and us (The Sproul Brothers) have a very good relationship and work together on issues of protocol and compatibility which of course is paramount to our users. The future looks very good for all flavors, obviously as Steve pointed out, there will be some features that dos just cannot handle, but some laptops and other low-end machines just cant handle WinAPRS and some people just prefer dos. With the cooroperation that we have developed and the rather wonderful support we have from our followers things are looking very bright.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

22. WB0WNX-7 Schedule

From: Dave Kaplan <dkaplan@pionet.net>
Date: Mon, 2 Dec 1996 15:26:11 -0600
To: aprssig@tapr.org
Message-ID: <9612022126.AA28713@elwood.pionet.net>
Rendered body type: text/plain

Please remember, this is a tracker only. Running 2 watts into a rubber duck at an average of 16,000. Aircraft is Piper Mojave PA31P-350.

Tuesday Sioux City to Kansas City (Departing SUX 0700).

Wed Kansas City to Oklahoma City (Departing OJC 0630).

Thursday Oklahoma City to Kansas City to Sioux City. (departing Approx 1300)

Friday Sioux City to Cincinatti (Shrine Burn Hospital) to Sioux City.

Would appreciate any and all traks data files to be E-Mailed to me.

Dave
WB0WNX-7
Mojave Airmobile.
Listening 54 Simplex

23. Re: [APRSSIG:6891] Re: javaAPRS vs WinAPRS vs dosAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 2 Dec 96 18:06:43 -0500
To: <aprssig@tapr.org>
Message-ID: <199612022306.SAA08412@newworld.bridge.net>
Rendered body type: text/plain

>here here, very well said Steve, but you cant even get your own URL write,
>its
>
>>http://www.bridge.net/~sdimse/tiger.html
>>
True, but at least I know the difference between right and write! ;-)

Thanks for the correction, and the future is indeed bright (so bright I gotta wear shades!)

Steve K4HG

24. Re: [APRSSIG:6892] WB0WNX-7 Schedule

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 2 Dec 1996 15:16:59 -0800
To: aprssig@tapr.org
Message-ID: <199612022316.PAA24424@m1.sprynet.com>
Rendered body type: text/plain

We'll be watching throughout northwest Missouri tomorrow and look forward to
working you direct. Which "54" do you mean???

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

25. SE Alabama Digi

From: BordingK@aol.com
Date: Mon, 2 Dec 1996 19:22:34 -0500
To: aprssig@tapr.org
Message-ID: <961202192233_1587689243@emout20.mail.aol.com>
Rendered body type: text/plain

1. Good to see the Wiregrass area of SE Alabama now on APRS.

2. WD4ROJ appears to be up as a Wide digi in Enterprise, AL and the Florida
Panhandle as will as Columbus, GA are now visible in central Alabama.

de KF4COH
Ken (normally in Jax, but TDY at OZR!)

---

26. Tripmate init string?

From: Kevin Kelly <kkelly@radix.net>
Date: Mon, 02 Dec 96 19:49:27 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <199612030053.TAA14121@news1.radix.net>
Rendered body type: text/plain

-- [From: Kevin Kelly * EMC.Ver #3.1] --

Greetings SIG

With all the excitement over the Delorme "Tripmate" (I got mine today) I
thought you may find it useful to know that most all PacComm tnc's have a
command called GPSITEXT. It allows up to 40 characters to be sent to the
attached GPS immediately after the packet controller is powered on. This
command holds the setup command string to be sent via the asynchronous
serial port to the attached GPS. There are no constraints placed on the
content to the field by the packet controller except that the length not
exceed 40 characters. The TNC does need to be set to the GPS mode.

I am using the PacComm aftermarket GPS eprom for the Heathkit HK-21 pocket
tnc.

Anybody out there know what the Init string for the tripmate is? Hopefully
it isn't over 40 characters.

73,
Kevin Kelly/N6QAB
kkelly@radix.net

---

27. RE: [APRSSIG:6896] Tripmate init string?

From: Larry Griffin <largriff@swta.com>
Date: Mon, 2 Dec 1996 20:22:39 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBE08E.972B5D40@red132.onramp.net>
Rendered body type: text/plain

Kevin wrote:
>Anybody out there know what the Init string for the tripmate is?

Kevin, here is a repost from WB1HBU

Hello,

The unit seems to lock on the satellites reasonably fast.   I downloaded
the New England area onto my laptop and the moving map display is
neat.

I should also mention that this unit does not have any controls on it
so it cannot be used for hiking, etc unless you tote another computer
along.

I hooked it up to a comm analyzer and played alittle. Communications
are 4800 baud using ASCII characters so far. The serial port does not

assert handshaking signals so hardware handshaking should not be used.

Power control appears to be the DTR line. Asserting DTR powers up the unit and it sends three NMEA messages (PRWIRID, GPRMC, and PRWIZCH) then keeps sending a non-NMEA formatted character string until it receives a $IIGPQ message with the character string. I was able to program a function key on the windows terminal to send the string and NMEA sentences poured out of the receiver.

NMEA messages begining with P are reserved for manufactuer's messages. RWI, I believe, is Rockwell International

The II prefix on the computer response message is the NMEA code for Intergrated Instrumentation. I cannot get a listing for what a GPQ message is. The "non-NMEA formatted message" may be a valid way for a device to hand off talking to another unit under NMEA. NMEA only allows one talker at a time.

Some of the NMEA sentences:

PRWIRID seems to contain number of channels, version number and software build date RID could be a nmemonic for Receiver ID

PRWIZCH twelve sets of what seems to be satellite PRN and a single digit code. Could be a channel status.

GPRMC, GPGSA, GPGGA, GPGSV   Standard NMEA fare.

I need to log the output as no doubt almanac and other messages are sent. I also have a Garmin 45 and may set it up so I can log the output of both units and do some comparisons.

Wayne, WA2N/5 mentioned to me:
>Here's a good place for GPS info, NMEA specs and shareware:
> ftp://sundae.triumf.ca/pub/peter/index.html
> Also, check out the newsgroup sci.geo.satellite-nav

The newsgroup currently has discussions on SA 4.0 and Tripmate.

I have used several Delorme products for years. Street Atlas 1.0 was the reason I bought a CDROM Drive. I had a few problems with the software, but it is a great product that keeps getting better.

73 Eric eac@shore.net WB1HBU

---

28. Re: [APRSSIG:6894] Re: WB0WNX-7 Schedule

From: Dave Kaplan <dkaplan@pionet.net>
Date: Mon, 2 Dec 1996 21:06:10 -0600
To: aprssig@tapr.org
Message-ID: <9612030306.AA10807@elwood.pionet.net>
Rendered body type: text/plain

At 05:25 PM 12/2/96 -0600, you wrote:
>We'll be watching throughout northwest Missouri tomorrow and look forward to
>working you direct. Which "54" do you mean???
>
Small problem--I CAN'T FIND MY HANDHELD! Last time I used it was about a month ago. Could I have left it on the car top and driven away?

I will still be running the tracker but now looks like I will leave KC about 1700 for OKC tomorrow evening rather than waiting for Wed AM.

Dave

---

29. Re: [APRSSIG:6896] Tripmate init string?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Mon, 02 Dec 1996 22:17:45 -0400
To: kkelly@radix.net
Cc: Aprssig@tapr.org
Message-ID: <849583065-0-eac@shore.net>
Rendered body type: text/plain

The init string is "$IIGPQ,ASTRAL<cr/lf>", where <cr/lf> represent a carrage return and line feed characters. Also do not enter the " characters.

73 Eric Cottrell WB1HBU

30. X1J TheNet questions

From: vodall@juno.com
Date: Mon, 2 Dec 1996 14:53:04 MST
To: aprssig@tapr.org
Message-ID: <19961202.145308.4367.0.vodall@juno.com>
Rendered body type: text/plain

Is there any summary of how to configure an X1J node for digi use by
APRS?

Is there any way to force the packets out the RS232 port instead of the
HDLC
port? It would be helpful if there was a way to send the packets up on
one
frequency of a node stack and have them come out another.

73,
Bill - WA7NWP
vodall@juno.com

31. Virginia DIGI problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Dec 1996 21:46:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961202214403.25281D-100000@arctic>
Rendered body type: text/plain

While traveling to Charlottsville through Northern VA, I occassionally
QSY'ed the 2m voice rig with the Mic-E over to 145.79 so that I could
report my posit back home. What I heard in the Fredericksburg area was a
WIDE digi with a TXD of at least a full SECOND! Can someone down there
identify that and get the sysop to cut it back to something reasonable
like 300 ms or less. It is cutting channel capacity in half in that
area...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

32. Re: [APRSSIG:6867] Re: Colors on WinAPRS

From: "Don Murray" <james-m@ix.netcom>
Date: Mon, 2 Dec 1996 19:10:44 -0500
To: <aprssig@tapr.org>
Message-ID: <199612030618.WAA17803@dfw-ix11.ix.netcom.com>
Rendered body type: text/plain

Mark

My personal preference is for a black background. I like to leave the APRS
screen up all the time, and find that a black blackground is easier to
view. Grey would be little if any better than the current white screen.
Please don't implement this change just for me. I fully well understand
that you can not support all the requests that come into you, and
understand that you have to establish programming priorities.

I also now see that my first impression about your concern for potential
users and user of WinAprs was wrong. You evidently to concern yourself
with their suggestions and wants..

I will keep checking the features list, and who knows maybe one of these
days you can get caught up enough with the others features to make the
changing of screen colors an option in WinAprs, and I will then give it
another try..

Thanks
Don

> From: Mark Sproul <sproul@ap.org>
> To: Don Murray <james-m@ix.netcom.com>
> Subject: Re: [APRSSIG:6867] Re: Colors on WinAPRS
> Date: Monday, December 02, 1996 2:04 PM
>
> >Yes, I don't intend to register or use your program simply because of
the
> >colors.. That white background places a strain on my eyes, and it makes
> >all the other colors apear muddled. BTW I am using a NEC 2FGX monitor

and
> >there is nothing wrong with it..
> >
> >And to be quite honest with you mark, the manner in which you originally
> >answered my question leads me to believe that you don't really care much
> >for anyone suggesting that changes be made to your program.
> >
> >Now I may be wrong in my observation , and it really doesn't matter.
You
> >program it, you set it up the way you want it to look, and I, if I don't
> >like the looks of it, will simply not purchase or use it.. Simple
enough..
> >
> >Good luck with your program, it has some real nice features (I
particulary
> >like the Weather window), but for me it has one major drawback that
makes
> >me disregard it out of hand..
> >
> >Don
> >
> >
> >
>
> Don
>
> First and foremost, I DO listen to requests from users and I sincerely
> appologize if you got that impression, it was NOT inteneded.
>
>
> I looked back at my responses and I dont see how you thought that but it
> doesnt matter, your preciption of what I said is what matters and I did
NOT
> mean it that way. Please realize that I get over 100 emails a day and
> sometimes answer them short and to the point. If you have been reading
the
> sig about WinAPRS you should have seen that over the last month or two I
> have sent out EXPLICIT requests for input from users and there have been
> SEVERAL things which have changed recently directly from user input.
>
> As I stated earlier, your request for background colors was the 2nd
serious
> request, there have been three others that have said "it would be nice",
> thats a total of 5 requests. Dont get me wrong, I will consider it but
> there are many other things that I have much higher requests for. Do you
> specifically want BLACK or just something other than white (i.e. light
> grey).
>
> >From the VERY BEGINNING of WinAPRS, I have strived to follow proper
WINDOWS
> programming conventions and user interface conventions, while I admit
that
> I dont have them all perfect, I am doing the best that I can.
>
>
> Do you use Windows or primarily DOS? If you are using Windows, how have
> you gotten around white backgrounds in other programs? (maybe you know
> something I dont that could help out here).
>
>
> I am just getting started on the next major improvement which is MAP
> DISPLAY OPTIONS, this would be EXACTLY where background color would be
> setif I were to add that feature, if LIGHT GREY would do the trick for
you,
> where I can still draw text in black, I will try (not promise) to get in
> the next release. If you really need BLACK, its going to be much harder
> (as explained in my previous message).
>
>
> I hope I have made it clear that I do listen and implement whats
resonable
> and most requested.
>
>
> Sincerely
>
> Mark Sproul
>
>

```
>
___________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
>
___________________________________________________________________________
>
>
```

33. Re: [APRSSIG:6902] Re: Colors on WinAPRS

From: Demos Doulou <ddoulou@gte.net>
Date: Tue, 03 Dec 1996 02:48:42 -0500
To: aprssig@tapr.org
Message-ID: <32A3DB5A.1107@gte.net>
Rendered body type: text/plain

```
Don Murray wrote:
>
> Mark
>
> My personal preference is for a black background.  I like to leave the APRS
> screen up all the time, and find that a black blackground is easier to
> view.  Grey would be little if any better than the current white screen.
> Please don't implement this change just for me.  I fully well u

I to would like a black background.  I also would like to be able to
change the colors and fonts for all screens.


Demos  KR4US
kr4us@amsat.org
Pinellas County RACES Radio Officer
```

34. Tripmate GPS unit

From: Mark Sproul <sproul@ap.org>
Date: Tue, 3 Dec 1996 09:14:42 -0500
To: aprssig@tapr.org
Message-ID: <v03007802aec9e55642be@[165.1.27.20]>
Rendered body type: text/plain

```
I want everyone to know that Keith got the tripmate to work perfectecly
with Mac/WinAPRS, the next release (in about 2 weeks) will have full
support for it. So for those people who have yet to write to Santa Clause,
it will be a good stocking stuffer.


Mark


___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

35. Re: [APRSSIG:6903] Re: Colors on WinAPRS

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 03 Dec 1996 11:13:03 -0400
To: ddoulou@gte.net
Cc: Aprssig@tapr.org
Message-ID: <849629583-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

I would think that the program would take on the default background from
the color scheme so if you make the windows background black then
that would do it.  You would have to change some of the other
colors like text to white.

73 Eric WB1HBU  eac@shore.net
```

36. Re: [APRSSIG:6905] Re: Colors on WinAPRS

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 3 Dec 96 12:23:45 -0500
To: <aprssig@tapr.org>
Message-ID: <199612031723.MAA08726@newworld.bridge.net>
Rendered body type: text/plain

>I would think that the program would take on the default background from
>the color scheme so if you make the windows background black then
>that would do it. You would have to change some of the other
>colors like text to white.
>

Actually, what I had to go through to do it in java was much more involved. Don't forget, the icons need to be different...for the white background many have a black border that disappears on a black background. Also many of the map colors do not show as well, and need to be adjusted. I would guess it would be even worse to do for Windows.

Personally, I like white, and I would rather see Keith and Mark work on something more important to the operation of the program.

Steve K4HG

---

37. RE: Tripmate init string?

From: Ron Henderson <crh@hpcvscrh.cv.hp.com>
Date: Tue, 03 Dec 1996 9:36:46 PST
To: aprssig@tapr.org
Message-ID: <199612031736.AA060004606@hpcvscrh.cv.hp.com>
Rendered body type: text/plain

>With all the excitement over the Delorme "Tripmate" (I got mine today) I
>
>Anybody out there know what the Init string for the tripmate is? Hopefully
>it isn't over 40 characters.

The simplified startup sequence is:

1. assert DTR - powers up unit.
2. Tripmate responds with it's poweron ID and then sends
   ASTRALcrlf
   ASTRALcrlf

Repeatedly until you respond with

ASTRALcrlf
ASTRALcrlf

After sending the ASTRAL's, you can change the Tripmate's assumed position, date and time by sending the PWRIINIT string:

```
/*
 * TripMate initialization String
                  DDMM.sss   DDDMM.sss                      HHMMSS DDMMYY
 *  $PRWIINIT,V,,,4435.911,N,12315.536,W,100.0,0.0,M,0.0,T,015931,281196
 */
```

The time is in utc. The N refers to north latitude, use S for south.
The W refers to west longitude. Use E for east

The *XX checksum can be added, but it's not necessary.

Ron WA7TAS (crh@cv.hp.com)

---

38. Re: [APRSSIG:6869] trimble pcmcia gps

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Tue, 3 Dec 1996 10:36:25 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.961203102759.117H-100000@willow>
Rendered body type: text/plain

On Sat, 30 Nov 1996, George Kammerzell wrote:

> Has anyone out there used a trimble pcmcia gps with
> aprs..DOS or Windows...I have one(thru a hand me
> shell and they want $380 for their SDK that is just
> a collection of source code segments...would like

The SDK is more than just a collection of source code segments. It includes the necessary windows .dll's and sample code for Visual C/C++, Borland C/C++, and Visual Basic. This kit supports any TSIP compatible

Trimble sensor including the PC110 and the SV6 family. Complete documentation is included. I have the kit and am working on some of my own applications.
To be used with APRS it would require the various software authors to include some minimal code in their application to control the PC110 card. It is a very nice receiver and works well. It's nice to have GPS built into your laptop...

Chris, AA7WD
a229aa@email.mot.com

---

39. windows

From: Paul Plasters <PEPLASTERS@mail.rkd.snds.com>
Date: Tue, 03 Dec 1996 11:40:47 -0600
To: aprssig@tapr.org
Message-ID: <s2a4122e.026@mail.rkd.snds.com>
Rendered body type: text/plain

Can I "gut" a windows program so as to make winaprs run faster? I want to run it in a mobile setup on a "286" laptop. What files does WINAPRS need? Thanks, Paul WA9FFL wa9ffl@aol.com or aamfapp@snds.com

---

40. Communicating with GPS

From: COMPTEC95013@camins.Camosun.BC.CA
Date: Tue, 03 Dec 1996 09:59:54 -0700 (PDT)
To: aprssig@tapr.org
Message-ID: <01ICKI474GQA000TA0@camins.Camosun.BC.CA>
Rendered body type: text/plain

Hello
We have a serial connect from our computer and the Micrologic Admiral GPS
In the data string coming in some correct data is visible but there is alot of corruption in the strings. Our baud rate is correct, the data strings are corrupted in both the Windows Terminal Program and DOS APRS. Is there something we are setting incorrectly, our parity is non, our stop bit is 1, and our data bits are set to 8. Thank you for your help.

Jennifer MacLean
ve7ccd

---

41. Re: [APRSSIG:6872] Delorme Tripmate

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Tue, 3 Dec 1996 12:01:56 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961203115848.14396A-100000@jerryc>
Rendered body type: text/plain

Well, I am somewhat confused. I have been reading this sig about the Tripmate. Some were saying something about an upgrade from Delorme, other's like this one.
I have had V2 of Street Atlas for over a year (registered), and V3 for almost a month (also registerd, not an upgrade) but haven't rec'd any kind of upgrade notice from them.
Do I understand the 'street' price (Computer City) is as cheap as Delorme?

thanks and 73 de Don KA0JLF

On Sun, 1 Dec 1996, Irvin Feldman wrote:

> For everyones info, in the flyer I have from Computer City--Delorme
> Tripmate is on
> sale for $130 until Dec 6.
>
> Irv N0NOB
> irvinf@i1.net
>

---

42. Re: [APRSSIG:6909] windows

From: Mark Sproul <sproul@ap.org>
Date: Tue, 3 Dec 1996 13:27:01 -0500
To: aprssig@tapr.org
Cc: PEPLASTERS@mail.rkd.snds.com, wa9ffl@aol.com
Message-ID: <v03007808aeca20c83a38@[165.1.27.20]>
Rendered body type: text/plain

```
>Can I "gut" a windows program so as to make winaprs run faster?  I
>want to run it in a mobile setup on a "286" laptop.  What files does
>WINAPRS need?  Thanks, Paul WA9FFL   wa9ffl@aol.com  or
>aamfapp@snds.com


All you have to have is

        WinAPRS.exe
        serthunk.dll
        ser16dll.dll
and some MAPS in the map folder

You do have to install Win32S

___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

43. re: [APRSSIG:6909] windows

From: Jim Flanders <jimflanders@ti.com>
Date: Tue, 3 Dec 1996 12:44:37 -0600
To: aprssig@tapr.org
Message-ID: <BMSMTP84963857328a0198560@dshmail.itg.ti.com>
Rendered body type: text/plain

```
No - But if you run the older windows 3.0 on 286/386 machines, it will
run faster.  Just has less "features".
Jim W0oog/5

------------------
Original text

From: Paul Plasters <PEPLASTERS@mail.rkd.snds.com>, on 12/3/96 12:27 PM:
To: aprssig@tapr.org

Can I "gut" a windows program so as to make winaprs run faster?  I
want to run it in a mobile setup on a "286" laptop.  What files does
WINAPRS need?  Thanks, Paul WA9FFL   wa9ffl@aol.com  or
aamfapp@snds.com
```

44. Re: [APRSSIG:6904] Tripmate GPS unit

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 3 Dec 1996 13:07:28 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961203130655.21323A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
Where can I get one? Mail order? or Store?

On Tue, 3 Dec 1996, Mark Sproul wrote:

> I want everyone to know that Keith got the tripmate to work perfectecly
> with Mac/WinAPRS, the next release (in about 2 weeks) will have full
> support for it. So for those people who have yet to write to Santa Clause,
> it will be a good stocking stuffer.
>
>
> Mark
>
>
> ___________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
> ___________________________________________________________________________
>
>
```

45. Re: Delorme Tripmate

From: rkliman@juno.com
Date: Tue, 03 Dec 1996 14:55:37 EST
To: aprssig@tapr.org
Message-ID: <19961203.115438.14270.1.rkliman@juno.com>
Rendered body type: text/plain

Call Delorme; have your Street Atlas serial number handy; they will sell you a new 4.0 and a GPStrupmate package for $125 + $5 for shipping. YOU WILL be impressed when you see it.

---

46. Re: [APRSSIG:6906] Re: Colors on WinAPRS

From: schiers@ames.net
Date: Tue, 03 Dec 96 14:07:31 -0600
To: aprssig@tapr.org
Message-ID: <199612032011.OAA16688@tapr.org>
Rendered body type: text/plain

In <916527@bbs.ames.net>, on 12/03/96 at 11:21 AM,
aprssig@tapr.org said:

>Personally, I like white, and I would rather see Keith and Mark work on
>something more important to the operation of the program.

I agree...there are MANY more important things to work on than fine tuning the cosmetics.

One (less important) color feature I could see being fixed is the winds aloft. Apparently in the Mac version the winds aloft change color with intensity (higher winds, different colors), but the WinAPRS version doesn't. Mine are always blue. Maybe I'm hallucinating, but as I recall when Keith was out here in Ames, his showed different colors by velocity and he was surprised that WinAPRS did not.

Again, this is WAY down on my priority list, but at least is connected to the rational display of differing information, as opposed to pure aesthetics.

73,

hasan schiers, N0AN--
----
schiers@ames.net

---

47. Re: [APRSSIG:6911] Re: Delorme Tripmate

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 3 Dec 1996 15:15:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612032015.PAA07744@northshore.shore.net>
Rendered body type: text/plain

Hello,

Someone was able to get the special $125 price by reading the serial number on the CD to the person taking the order. So dig out those old copies.

I have problems in that I usually get two copies or more of stuff. I own several of Delorme's products.

73 Eric eac@shore.net

---

48. Re: [APRSSIG:6907] RE: Tripmate init string?

From: jkozak@erols.com (John W. Kozak)
Date: Tue, 3 Dec 1996 16:41:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612032141.QAA04398@smtp2.erols.com>
Rendered body type: text/plain

```
>The simplified startup sequence is:
>
>1.  assert DTR - powers up unit.
>2.  Tripmate responds with it's poweron ID and then sends
>    ASTRALcrlf
>    ASTRALcrlf
>
>Repeatedly until you respond with
>
>ASTRALcrlf
>ASTRALcrlf
```

```
>

>Ron WA7TAS  (crh@cv.hp.com)

While I am waiting for mine to arrive, I'm thinking about external power.
I'd like to leave the GPS turned on all the time in the car and not deal
with the INIT proceedures and lock-up delays at all. Obviously the batteries
won't stand for that and I'll need a 6 volt DC power source. Has anyone
checked out the wiring on the DB9 cable?  Are any of the wires in the cable
now wired for an external power source, or are there spares that may be
pressed into service for this purpose? External power would be a real plus
for this unit.

Thanks
John Kozak; N3AGG
jkozak@erols.com
```

49. Re: [APRSSIG:6918] RE: Tripmate init string?

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Tue, 03 Dec 1996 16:28:23 -0800
To: aprssig@tapr.org
Message-ID: <32A4C5A7.2F1C@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
John W. Kozak wrote:
> ...I'll need a 6 volt DC power source. Has anyone
> checked out the wiring on the DB9 cable?  Are any of the wires in the cable
> now wired for an external power source, or are there spares that may be
> pressed into service for this purpose? External power would be a real plus
> for this unit.

An earlier posting stated that external power could be applied to the
pin which corresponds to the RI signal. 6 Volts is the suggested voltage
to be applied. I don't have a description of which pin is which on the
9-pin connectors. I'm interested in finding out which is which as well.

--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  M/S: 264-580
 Voice: +1-818-393-1214            |  4800 Oak Grove Drive
 Pager: +1-818-423-2062            |  PASADENA CA 91109
```

50. Re: [APRSSIG:6913] re: windows

From: Bob Derderian <n2iph@cyberenet.net>
Date: Tue, 03 Dec 1996 18:32:52 -0500
To: aprssig@tapr.org
Message-ID: <32A4B8A4.4AB7@cyberenet.net>
Rendered body type: text/plain

```
I thought Win32S required a 386 or better, and to be running in
"Enhanced Mode", can't do that under Windows 3.0 or on a 286 as far as I
know.

Bob
```

51. BLNs received

From: WB9WOZ@aol.com
Date: Tue, 3 Dec 1996 21:01:50 -0500
To: aprssig@tapr.org
Message-ID: <961203210148_1651116939@emout14.mail.aol.com>
Rendered body type: text/plain

```
WHAT is this, and WHY do they have to be broadcast nationwide ???
It comes from the BOSTON GATEWAY. shows a packet address of W1EO@W1ON.MA
I have sent direct messages to the W1ON-3, with no ACK. Perhaps its an
unmanned station.



From:W1ON-3     To:BLN1
PORT DEFINITIONS APRS [6=10.151, 3=145.79] BBS [1=145.75]

From:W1ON-3     To:BLN2
STATs 6H>3V 2280 [37/hr] 3V>6H 105 [1/hr] 3V>3V 871 [14/hr] 1V>3V 56 [0/hr]

Bruce
Hinsdale,IL
wb9woz@aol.com
```

DuPage ARC/NIAN

---

52. Re: [APRSSIG:6373] Re: Got the Shirts

From: Glenn Little <glittle@awod.com>
Date: Tue, 03 Dec 1996 23:21:02 -0500
To: aprssig@tapr.org
Message-ID: <199612040307.WAA24529@sumter.awod.com>
Rendered body type: text/plain

Mike

How much are the shirts and what do they have on them??

73
Glenn Little
WB4UIV

WB4UIV@amsat.org
glittle@awod.com

---

53. Variable Position Reporting Rate

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Tue, 3 Dec 1996 21:08:18 -0600
To: aprssig@tapr.org
Message-ID: <9612032108.AA18275@oscar.telalink.net>
Rendered body type: text/plain

I finally came up with a circuit design to use with a standalone tracker. Switching the circuit on inhibits the PTT line for about 20 minutes and enables it for about 4 minutes. You can see this circuit at:

<http://www.telalink.net/~martinbw/vhf/APRStimer.html>

If you want a copy of the GIF, JPEG, PICT2, or MacDraw file I will be glad to e-mail it to you.

Bruce

```
--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net    *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                    *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733         *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W       *
* "Never ask what sort of computer a guy drives.               *
* If he's a Mac user, he'll tell you.                          *
* If not, why embarrass him?"    -- Tom Clancy                 *
****************************************************************
```

---

54. Re: [APRSSIG:6912] Re: windows

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 03 Dec 1996 22:27:06 -0400
To: sproul@ap.org
Cc: Aprssig@tapr.org
Message-ID: <849670026-0-eac@shore.net>
Rendered body type: text/plain

Hello,

I am reasonably sure Win32s needs a 386 or greater to work.

73 Eric eac@shore.net

---

55. Re: [APRSSIG:6914] Re: Tripmate GPS unit

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 03 Dec 1996 22:35:36 -0400
To: jratchf@bulldog.afsc.k12.ar.us
Cc: Aprssig@tapr.org
Message-ID: <849670536-0-eac@shore.net>
Rendered body type: text/plain

>Where can I get one? Mail order? or Store?

Both Store and Mail order!

If you have a copy of Street Atlas you can call Delorme up and give the Serial Number off the CD. This route is

```
$125 plus $5 S&H.  Computer City has a sale of these
things for $129 plus Sales Tax.  The problem I have
is the one nearby in Saugus, Massachusetts does not
even have SA 4.0!  They do have the 3-D explorer.

I do not know Delorme's regular price.  I seen reports
of from $150 (Microcenter) to $199 (Tiger Software)
for a non-sale price.


73 Eric eac@shore.net WB1HBU
```

---

56. Re: [APRSSIG:6919] RE: Tripmate init string?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 03 Dec 1996 22:49:02 -0400
To: hammock@wired.jpl.nasa.gov
Cc: Aprssig@tapr.org
Message-ID: <849671342-0-eac@shore.net>
Rendered body type: text/plain

```
>An earlier posting stated that external power could be applied to the
>pin which corresponds to the RI signal. 6 Volts is the suggested voltage
>to be applied. I don't have a description of which pin is which on the
>9-pin connectors. I'm interested in finding out which is which as well.

Pin 9 on the DB-9 (RI) appears to only go to the center pin of the
power connector.  So a jumper is needed to go between the center pin
and the + pin.

73 Eric eac@shore.net  WB1HBU
```

---

57. Re: [APRSSIG:6916] Re: Colors on WinAPRS

From: "Don Murray" <james-m@ix.netcom>
Date: Tue, 3 Dec 1996 20:54:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199612040402.UAA26867@dfw-ix6.ix.netcom.com>
Rendered body type: text/plain

```
I have difficulty reading the display with the white background, so just
for your information, for some of us the ability to change the color
background is a little more than aesthetics.

----------
> From: schiers@ames.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:6916] Re: Colors on WinAPRS
> Date: Tuesday, December 03, 1996 3:15 PM
>
> In <916527@bbs.ames.net>, on 12/03/96 at 11:21 AM,
>    aprssig@tapr.org said:
>
> >Personally, I like white, and I would rather see Keith and Mark work on
> >something more important to the operation of the program.
>
> I agree...there are MANY more important things to work on than fine
tuning
> the cosmetics.
>
> One (less important) color feature I could see being fixed is the winds
> aloft. Apparently in the Mac version the winds aloft change color with
> intensity (higher winds, different colors), but the WinAPRS version
> doesn't. Mine are always blue. Maybe I'm hallucinating, but as I recall
> when Keith was out here in Ames, his showed different colors by velocity
> and he was surprised that WinAPRS did not.
>
> Again, this is WAY down on my priority list, but at least is connected to
> the rational display of differing information, as opposed to pure
> aesthetics.
>
> 73,
>
> hasan schiers, N0AN--
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------

>
```

58. Re: [APRSSIG:6890] Re: APRSdos compressed maps

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Tue, 03 Dec 1996 22:29:36 -0600
To: aprssig@tapr.org
Message-ID: <199612040426.EAA121307@smtp-gw01.ca.us.ibm.net>
Rendered body type: text/plain

>If you are planning to use maps with javAPRS, be sure to save a copy in
>uncompressed format, as javAPRS does not handle the compressed format. It
>may be twice as fast under APRSdos, but under java it would be slower. If
>enough of these maps are made I will update the program to handle them,
>but that will be a long time in the future, I have many other things to
>do the javAPRS and APRServe that are a much higher priority.
>
>Steve K4HG

Steve,

Some (i.e. at least one) of the maps distributed with javAPRS are (is?)
compressed. In particular, the MN-WI-MI map is compressed. When I update,
I have to copy back over it with my uncompressed copy of the map.

Tony - AA0SM
Tony Drumm
ARS AA0SM

---

59. Tripmate DB-9 pinout

From: Gould Smith <ggsmith@USIT.NET>
Date: Tue, 03 Dec 1996 23:31:19 -0500
To: aprssig@tapr.org
Message-ID: <199612040437.XAA01312@smtest.usit.net>
Rendered body type: text/plain

For those interested I took the screws out of my Tripmate
and checked out the pinout.

pin	1	nc	
pin	2	RX	black wire
pin	3	TX	brown wire
pin	4	DTR	red wire, assert to turn on
pin	5	GND	orange wire, connects to GND of power
pin	6	nc	
pin	7	nc	
pin	8	nc	
pin	9	RI,	yellow wire, goes to the center pin of the power connector

73,
Gould, WA4SXM

---

60. Question on beacons

From: Steve Childress <stevech@pacbell.net>
Date: Tue, 3 Dec 1996 20:44:36 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BBE15A.CCBF0E80@ppp-206-170-117-156.sndg02.pacbell.net>
Rendered body type: text/plain

I've been away from ham radio for quite a while.
So please don't guffaw at the following...

I note that people are using beacons which transmit from an
unattended situation. Do the FCC regulations now allow one
to transmit in this manner, without a station operator present
nor a supervisory remote control link?

steve
WB6CSZ

---

61. Re: [APRSSIG:6916] Re: Colors on WinAPRS

From: BordingK@aol.com
Date: Tue, 3 Dec 1996 23:56:40 -0500
To: aprssig@tapr.org
Message-ID: <961203235637_639255919@emout04.mail.aol.com>
Rendered body type: text/plain

While on the subject of WinAPRS Colors, I've noted the following: In WinAPRS
under Win3.1 the maps have colors, ie blue for hydrographic info, black for
roads. However, now that I've moved up(?) to Win95, all maps are monocrome.

DOS maps are unchanged if they contain colors. Anyone know why?

de KF4COH
Ken

---

62. Tripmate Dec bug fix

From: Robert Winingham <kc5ejk@onramp.net>
Date: Tue, 3 Dec 1996 23:14:13 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aecab8cb4095@[199.1.11.151]>
Rendered body type: text/plain

We have posted an update for Tripmate on our Web page at:

http://www.delorme.com/support (Then -Tripmate Date & Time)

This update fixes problems with date and time identified and described in this newsgroup. Simply download the update and then run the executable. The Tripmate files will be updated automatically.

Although the time and date problem described below will happen each time you try initialize during December you can still use Tripmate without the update. In testing Monday morning I was able to aquire a GOOD fix within 2-3 minutes 7 times during 2 hours using the original software. Once one satellite is aquired the date and time will correct themselves. The problem will only occur during the month of December and only with the DeLorme Tripmate.

Please direct any questions to support@delorme.com

Thank you.

Tim Lavan
DeLorme
Manager,
Quality Assurance

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

63. Scanner with APRS:

From: jud <judlynn@norfolk.infi.net>
Date: Wed, 4 Dec 1996 00:31:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612040531.AAA25646@mh004.infi.net>
Rendered body type: text/plain

When I track I use a Garmin GPS45XL, KPC-3, and the HTX-202. I transmit every 10 or 15 seconds when doing the roads for updating the maps. To receive the data I take along another KPC-3, HTX-202 and a HP200LX Palmtop. I use the Trimble for an antenna. This configuration works great.

I have an old 10 Channel Bearcat Scanner that I haven't used in a long time and I wondered if it could be put into service. I took it along yesterday and put it in place of the second HTX-202 to do the receiving. It worked flawlessly.

If you are short one radio to go tracking but have an old scanner laying around, give it a try.

```
                                      73, Jud, KE4HFX
                              ))(((((
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

---

64. Re: [APRSSIG:6928] Re: APRSdos compressed maps

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 4 Dec 96 00:41:01 -0500
To: <aprssig@tapr.org>
Message-ID: <199612040541.AAA03431@newworld.bridge.net>

Rendered body type: text/plain

>Some (i.e. at least one) of the maps distributed with javAPRS are (is?)
>compressed. In particular, the MN-WI-MI map is compressed. When I update,
>I have to copy back over it with my uncompressed copy of the map.
>
Thanks...I didn't know that...guess I never use that one. Can you send me
the uncompressed one?

Steve

65. Re: [APRSSIG:6930] Question on beacons

From: Michael Beck <Mbeck@concentric.net>
Date: Wed, 04 Dec 1996 05:48:22 +0000
To: aprssig@tapr.org
Message-ID: <32A510A6.63C6@concentric.net>
Rendered body type: text/plain

Steve Childress wrote:
>
> I've been away from ham radio for quite a while.
> So please don't guffaw at the following...
>
> I note that people are using beacons which transmit from an
> unattended situation. Do the FCC regulations now allow one
> to transmit in this manner, without a station operator present
> nor a supervisory remote control link?
>
> steve
> WB6CSZ

Yes.

```
--
                    ///// \\\\\
                    (  o   o  )
-------------------oOO--(_)--OOo------------------
==================================================
Michael Beck / KE6JNO
mbeck@concentric.net / mbeck@globewireless.com
Montara, California U.S.A.
==================================================
```

66. Re: [APRSSIG:6925] Re: Tripmate GPS unit

From: jkozak@erols.com (John W. Kozak)
Date: Wed, 4 Dec 1996 09:01:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612041401.JAA14787@smtp1.erols.com>
Rendered body type: text/plain

Delorme will sell it to anyone for $149 +$5 S/H, which really upset the
CompUSA guy when he told me he had it for $179 + tax. I ordered mine from
Delorme and am waiting for delivery! All info is on their webpage at
www.delorme.com, including upgrade information.>
>
>>Where can I get one? Mail order? or Store?
>
>Both Store and Mail order!
>
>If you have a copy of Street Atlas you can call Delorme up
>and give the Serial Number off the CD. This route is
>$125 plus $5 S&H. Computer City has a sale of these
>things for $129 plus Sales Tax. The problem I have
>is the one nearby in Saugus, Massachusetts does not
>even have SA 4.0! They do have the 3-D explorer.
>
>I do not know Delorme's regular price. I seen reports
>of from $150 (Microcenter) to $199 (Tiger Software)
>for a non-sale price.
>
>
>73 Eric eac@shore.net WB1HBU
>
>
>
>

67. Re: [APRSSIG:6926] RE: Tripmate external power

From: jkozak@erols.com (John W. Kozak)
Date: Wed, 4 Dec 1996 09:14:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612041414.JAA16303@smtp1.erols.com>
Rendered body type: text/plain

```
>Pin 9 on the DB-9 (RI) appears to only go to the center pin of the
>power connector.  So a jumper is needed to go between the center pin
>and the + pin.
>
>73 Eric eac@shore.net  WB1HBU


Thanks to Eric's information and warning against applying 12 volts to the
GPS, I plan to build a 6 volt regulator board and install it in the battery
compartment of the GPS, thus allowing me to use any convenient voltage
source that I may have (12/24 volt) without worry. I plan on leaving the GPS
on all the time to avoid dealing with the init string and seek times
involved in power-up. This will make the unit much more flexible as far as
using it for moving map/APRS/tracker combinations.

JWK
```

---

68. Re: APRStimer

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Wed, 4 Dec 1996 09:41:03 -0600
To: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>, aprssig@tapr.org
Message-ID: <9612040941.AA03708@oscar.telalink.net>
Rendered body type: text/plain

```
> Hi, Bruce. Thanks for your information on the timer for APRS
> tracking systems. Just looked at it on your WEB page. However, it
> appears that in the schematic drawing that pin 3 of the 555 IC is
> grounded. That has to be an error! Other than that, it looks fine. It's
> a good looking schematic.
>
>    73  Claude Head
>        K5DTN
>        972-995-5040               office
>        972-386-8966               home
>        chead@cesadm.corp.ti.com   e-mail or
>        chead@exame2.dseg.ti.com
>
>
Thanks Claude,

I fixed the schematic and uploaded the new version just now. I had to move the
relay to get the resistor and the LEDs to fit and missed fixing one line. This
was the kind of project where I drew the basic schematic and as i changed
things on the prototype board or even in the PC board I had to run to the
computer and update the drawing. Thanks again for finding my error. I hope
others will catch it or see this and get the correction.

73,

Bruce


--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
*                                                              *
*   "If you are a typical experimentalist (physics) you have  *
*    a raft of PCs, maybe a UNIX workstation to impress       *
*    incoming graduate students, and a Mac hidden in your     *
*    office to actually do things."   -  Robert Austin        *
****************************************************************
```

---

69. Re: [APRSSIG:6906] Re: Colors on WinAPRS

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Wed, 04 Dec 1996 16:15:32 +0000
To: aprssig@tapr.org
Message-ID: <32A5A3A4.3FCB@netins.net>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> >I would think that the program would take on the default background from
> >the color scheme so if you make the windows background black then
> >that would do it.  You would have to change some of the other
> >colors like text to white.

>I would guess it would be even worse to do for Windows.
>
> Personally, I like white, and I would rather see Keith and Mark work on
> something more important to the operation of the program.
>
> Steve K4HG

I agree!

--
Bill Hays  - w0omv email:billh@netins.net
```

---

70. 1:2,000,000 CD Maps

From: "Theodore A. Antanaitis" <tedant@pipeline.com>
Date: Wed, 04 Dec 1996 12:33:01 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961204173301.2b6f94f2@pop.pipeline.com>
Rendered body type: text/plain

```
In 1995 the USGS changed the format of the 1:2,000,000 Optional Format DLG
CDrom. The changes consisted of a reorganization of the data (DLG data is in
state by state files) AND DLG coordinates are in X and Y offsets (not
latitude and longitude as in previous CDroms). The new CDrom is identified
as Mastered: 7/95.

The unfortunate result was that the APRSdos map generating programs (e.g.,
MAKEMAP) could not process the data on the new CDrom. While many maps had
been already made from the 1:2,000,000 CDrom, demand for new maps continues
(e.g., waterway maps, county-line maps).

This is to announce that an *UPDATED* version of the QBASIC programs which
process the DLG data on the new CDrom have now been posted to the APRSSIG
library. The new files, NU2MG30.ZIP and NU2MG30.TXT, are in
/tapr/SIG/aprssig/files/maps/PCMaps. Users of previous versions (i.e.,
NU_2MEGA.BAS and NU_2MEGB.BAS) are specifically encouraged to update.

NU2MG30 prepares map files from the new CDrom in a simplified process where
the user specifies the state of interest, map center point (latitude and
longitude), and range. *NEW* in this version is an improved algorithm for
more accurate conversion of X-Y coordinates to Latitude-Longitude
equivalents. Maps of varying detail may be created (e.g., roads, waterways,
political boundaries). *NEW* in this version is the ability to create maps
with only a single catagory of feature (e.g., maps with only boundaries).

Map files prepared by NU2MG30 generally must be finished off through the use
of MAPFIX where labels can be created and the total number of points editted
to the APRSdos limit.

IF you are interested in generating specialty maps, custom maps, or already
have the new USGS CDrom, NU2MG30 may be what you need.

My thanks to those who answered my earlier posts regarding coordinate
convertions,
your help allowed me to complete this project.

Address any queries to:

Ted Antanaitis WA7ZZB
email: tedant@pipeline.com
```

---

71. Re: [APRSSIG:6892] WB0WNX-7 Schedule

From: pmann@juno.com (PETER J MANN)
Date: Wed, 04 Dec 1996 11:44:14 EST
To: aprssig@tapr.org
Message-ID: <19961203.045801.10295.0.PMANN@juno.com>
Rendered body type: text/plain

```
here what I recored while at work.

WB0WNX-7  031709 @032311z3648.50N/09626.21W'GGA/NUL/raw*/GGA
FIX/ALT=4711.0
WB0WNX-7  031711 @032216z3850.75N/09443.53W'179/97./raw*/RMC Fix
WB0WNX-7  031718 @032320z3627.34N/09643.71W'GGA/NUL/raw*/GGA
FIX/ALT=4779.7
WB0WNX-7  031724 @032216z3850.75N/09443.53W'179/97./raw*/RMC Fix
WB0WNX-7  031724 @032326z3612.93N/09655.72W'GGA/NUL/raw*/GGA
```

```
FIX/ALT=4626.0
WB0WNX-7  031726 @032216z3850.75N/09443.53W'179/97./raw*/RMC Fix
WB0WNX-7  031727 @032329z3605.26N/09701.80W'GGA/NUL/raw*/GGA
FIX/ALT=4358.0
WB0WNX-7  031732 @032216z3850.75N/09443.53W'179/97./raw*/RMC Fix
```

Be looking for your return flight.

HAVE A GREAT DAY!

Pete
KF5RD

---

72. Re: [APRSSIG:6937] RE: Tripmate external power

From: Michael Lewis <mlewis@zebra.net>
Date: Wed, 04 Dec 1996 11:38:19 -0600
To: aprssig@tapr.org
Message-ID: <32A5B70B.649@zebra.net>
Rendered body type: text/plain

John W. Kozak wrote:
>
> >Pin 9 on the DB-9 (RI) appears to only go to the center pin of the
> >power connector. So a jumper is needed to go between the center pin
> >and the + pin.
> >
> >73 Eric eac@shore.net WB1HBU
>
> Thanks to Eric's information and warning against applying 12 volts to the
> GPS, I plan to build a 6 volt regulator board and install it in the battery
> compartment of the GPS, thus allowing me to use any convenient voltage
> source that I may have (12/24 volt) without worry. I plan on leaving the GPS
> on all the time to avoid dealing with the init string and seek times
> involved in power-up. This will make the unit much more flexible as far as
> using it for moving map/APRS/tracker combinations.
>
> JWK

I made just such a power supply (I used a 7808 regulator), it works
fine. The higher the voltage applied (up to 11.7), the better the
efficency, assuming a 12v (13.8) starting point.
I blew mine up before I knew better by testing it with 16 volts to
verify operation in an automotive environment. After replacing the Maxim
3.3 volt regulator inside the Tripmate, it works fine again.

Since the init string can be shortend from $IIGPQ,ASTRAL to ASTRAL, and
since the box repeatedly sends out ASTRAL's, I just short pins 2 and 3
together to auto-init the box after power on.

---

73. DLG Location System

From: Jim Olsen <JIM_OLSEN@novell.com>
Date: Wed, 04 Dec 1996 10:48:14 -0700
To: aprssig@tapr.org
Message-ID: <s2a55708.007@novell.com>
Rendered body type: text/plain

I have placed a screen shot and feature list of my GIS packet location
system onto the web. It can be viewed at:

http://www.ditell.com/~cavers/gispls.html

I thank the many people who responded with suggested features. I
have incorporated many of them including:

* Optional display of icon, name, AND/OR, track on a per station basis.
* Configureable colors for ALL features on map display.
* Conversion program to read optional format DLG files (1:100,000)
* Local station based configuring of icons for stations

I have a request to anyone who can help me. My area has VERY limited
APRS activity (Utah). Could someone from a very active area please
send me a raw text file of the APRS traffic in your area for a period of
time? This would help my development efforts greatly.

Thanks in advance,

Jim Olsen
jim_olsen@novell.com

74. DeLorme tripmate utility on CD

From: "Eric A. Cottrell" <eac@shore.net>
Date: Wed, 4 Dec 1996 14:05:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612041905.OAA05456@northshore.shore.net>
Rendered body type: text/plain

```
Hello,
I this up on the satellite newsgroup and have not tried it yet.

<begin forward>

I have just discovered 1) this ng and 2) an item in the SA4 CD-ROM \util
directory, yet another tripmate.exe, which shows and interprets the Tripmate
output stream, shows SV locations, etc.

I have been able to interpret everything on the display except for the third
column in the left window.  The first two columns are satellite altitude and
azimuth; the third seems to be some measure of signal merit.  Can anyone
enlighten me, or point to a source of info on this nifty but apparently
unadvertised tool?

mdr

<end forward>

73 Eric eac@shore.net  WB1HBU
```

---

75. Re: [APRSSIG:6943] DLG Location System

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Wed, 04 Dec 1996 13:15:05 -0800
To: aprssig@tapr.org
Message-ID: <32A5E9D9.52BF@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
Jim Olsen wrote:
> I thank the many people who responded with suggested features.  I
> have incorporated many of them including:
>
> * Optional display of icon, name, AND/OR, track on a per station basis.
> * Configureable colors for ALL features on map display.
> * Conversion program to read optional format DLG files (1:100,000)
> * Local station based configuring of icons for stations

I don't re-call if I sent this suggestion before or not, the ability to
work in UTM and/or LAT/LON is something that Search and Rescue teams
usually need. It seems that ground searches rely on UTM while air
searchers use LAT/LON or even CAP grids. At least this is the way the
search team I was associated with works.
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  M/S: 264-580
 Voice: +1-818-393-1214            |  4800 Oak Grove Drive
 Pager: +1-818-423-2062            |  PASADENA CA 91109
```

---

76. MIM Module Testing Update

From: Terrance Kealey <tkealey@mdc.com>
Date: Wed, 04 Dec 1996 14:37:49 -0600
To: aprssig@tapr.org
Message-ID: <s2a58d53.005@mdc.com>
Rendered body type: text/plain

```
This is a follow up to a previous posting I placed on the SIG about
MIM/GPS-20 problems I saw and my testing of the latest MIM controller.
The oddities I saw last week when testing it were due to my using an
old version of the configuration software. I originally purchased a MIM
1.04 and programmed it with the mic101.exe program. I needed
mic104d.exe to program the new MIM 1.06. I was able to download it
from the Clement Engineering web site.

 I programmed the MIM in MIC mode and the velocity problem is now
corrected.  When programmed in MIM mode, the position was
transmitted as programmed and not every few seconds as seen during
satellite acquisition with the GPS-20. I have not restested all
configurations, only the ones that I had previous problems with. A neat
feature added to this version of the MIM is the ability to set which GPS
message to transmit. For example if you want to use the MIM for a
balloon launch and wanted altitude transmitted, the GPGGA messge
could be specified.
```

In addition to the configuration software on Clement web site, there is
also a complete operator#s manual that can be downloaded. Both of
these may be of interest to the people who will be beta testing the MIC
Encoder and to anyone who wants to determine if the MIM is a TNC
option that they want to use.

The Clement Engineering web page is at -
http://home.navisoft.com/agrelo/clement.htm

One last comment for Bob (WB4APR). When using the MIC Encoder
with the GPS-20, I think you might want to consider putting an indicator
on the front panel to let the user know that the GPS data is valid. I have
seen other stand-alone trackers the area drive around for 30 minutes
outputting null position data and not knowing it. I think the 1PPS output
would work for this and would give the user feedback that GPS portion
(receiver and antenna) of the MIC Encoder was working properly.
Maybe this could be a future upgrade if the design is too far along.

Hopefully the above information is useful to everyone.

Terry, KI0BF

77. Garmin GPS II

From: n2xdd@juno.com (ed j wilson)
Date: Wed, 4 Dec 1996 16:22:20 PST
To: aprssig@tapr.org
Message-ID: <19961204.162223.8870.0.N2XDD@juno.com>
Rendered body type: text/plain

Anyone familiar w/ the Garmin GPS II?
Does it have a removable antennae?
NMEA output?

any other comments?

thanks in advance!
73 de N2XDD Ed Wilson

78. Re: [APRSSIG:6947] Garmin GPS II

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Wed, 04 Dec 96 22:00:41 UTC
To: aprssig@tapr.org
Message-ID: <10397@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

N2XDD asked

> Anyone familiar w/ the Garmin GPS II?
> Does it have a removable antennae?
> NMEA output?

The GPS-II is essentially a GPS-45XL laid on its side.
The antenna is removable. It does have NMEA output, Garmin's priopreitary
I/O, and RTCM inputs. The "on its side" "portrait vs landscape" can be
toggled. The only other funtional change is the addition of map zoom in/out
buttons.

73 de Tom, W3IWI

79. Re: [APRSSIG:6921] BLNs received

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 4 Dec 1996 17:18:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961204171148.15362A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Tue, 3 Dec 1996 WB9WOZ@aol.com wrote:

> WHAT is this, and WHY do they have to be broadcast nationwide ???

"WHY"?...beats me....try EGO (he does this on 145.79 as well as HF)
In addition every station he GATEs to VHF comes thru with 3 WIDEs in the
path.

> It comes from the BOSTON GATEWAY. shows a packet address of W1EO@W1ON.MA
> I have sent direct messages to the W1ON-3, with no ACK. Perhaps its an
> unmanned station.

> From:W1ON-3   To:BLN1
> PORT DEFINITIONS APRS [6=10.151, 3=145.79] BBS [1=145.75]
> From:W1ON-3   To:BLN2
> STATs 6H>3V 2280 [37/hr] 3V>6H 105 [1/hr] 3V>3V 871 [14/hr] 1V>3V 56 [0/hr]

These BLNs are upgraded *constantly* with new stats. So virtually *every* time I touch my keyboard, APRS prompts me to check the NEW BLN (when the only thing "new" is the STATs in his BLN2)

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

80. Re: [APRSSIG:6942] RE: Tripmate external power

From: "Eric A. Cottrell" <eac@shore.net>
Date: Wed, 4 Dec 1996 17:39:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612042239.RAA21311@northshore.shore.net>
Rendered body type: text/plain

Hello,

I would be careful as the caps on the input of the Maxim DC-DC converter are 10 volts. I consider 8 to be on the upper limit of the voltage. While the Maxim chip could stand 11.7 I doubt the caps would for long. Of course it looks like there may be 2 diode drops (diode and transistor switch) but I would still not go too much above 8 volts.

73 Eric eac@shore.net

---

81. Re: [APRSSIG:6902] Re: Colors on WinAPRS

From: Barbara Fehner <fehner@cts.com>
Date: Wed, 04 Dec 1996 15:15:38 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961204231538.006a1db0@mail.cts.com>
Rendered body type: text/plain

There are at least two people in the San Diego area who would like to use WAPRS but don't because of the background color. Most of the others here that use it have complained about the way the maps look. The problem is that when I make my maps I choose the colors according to the contrast with the black background. When the map is displayed on a white background the contrast is reversed making the less prominent features stand out and the important features wash out. I also would like to see the choice of a black or dark grey background.

Barbara KK6IB
E-Mail: fehner@cts.com

---

82. Re: [APRSSIG:6930] Question on beacons

From: rgervenack@juno.com (Robert W Gervenack)
Date: Wed, 4 Dec 1996 15:06:07 pst
To: aprssig@tapr.org
Message-ID: <19961204.151003.6439.3.rgervenack@juno.com>
Rendered body type: text/plain

How do you determine that the station is unattended?
Gervie, W7FEN

On Tue, 3 Dec 1996 22:45:10 -0600 (CST) Steve Childress
<stevech@pacbell.net> writes:
>I've been away from ham radio for quite a while.
>So please don't guffaw at the following...
>
>I note that people are using beacons which transmit from an
>unattended situation. Do the FCC regulations now allow one
> to transmit in this manner, without a station operator present
>nor a supervisory remote control link?
>
>steve
>WB6CSZ
>
>

---

83. Re: [APRSSIG:6949] Re: BLNs received

```
From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 4 Dec 96 18:46:10 -0500
To: <aprssig@tapr.org>
Message-ID: <199612042345.SAA13097@newworld.bridge.net>
Rendered body type: text/plain
```

```
>These BLNs are upgraded *constantly* with new stats. So virtually *every*
>time I touch my keyboard, APRS prompts me to check the NEW BLN (when the
>only thing "new" is the STATs in his BLN2)
>
Sounds like you need to budlist him. I did months ago. On the Mac, all
message to you and beacons are spoken aloud. Besides having no info I
care about, the format of his message results i being pronounced by
computer as a 30 secong long run-together sentence. Very annoying.
Setting the budlist cures all of this.

Steve K4HG
```

---

84. Re: [APRSSIG:6934] Re: APRSdos compressed maps

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Dec 1996 19:09:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961204190756.8237H-100000@arctic>
Rendered body type: text/plain
```

```
On Tue, 3 Dec 1996, Steve Dimse wrote:

> >Some (i.e. at least one) of the maps distributed with javAPRS are (is?)
> >compressed.  In particular, the MN-WI-MI map is compressed.
> >
> Thanks...I didn't know that...guess I never use that one. Can you send me
> the uncompressed one?

APRSdos REPLY/COMMENT:  I know he uses Mac's and not PC's but for
everyone else's info, anyone with a PC can just load the map into MAPFIX
and then re-save it uncompressed...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

85. W1ON-3

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 4 Dec 1996 19:44:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961204194244.8237Q-100000@arctic>
Rendered body type: text/plain
```

```
I agree, but BUDLISTING wont educate him to the problems he is causing.
SOmeone must make human contact and educate hiim.  He is totally wasting
bandwidth resources and QRMing most of the country. PERIOD.  It should be
stopped...

 On Wed, 4 Dec 1996, Steve Dimse wrote:

> >These BLNs are upgraded *constantly* with new stats. So virtually *every*
> >time I touch my keyboard, APRS prompts me to check the NEW BLN (when the
> >only thing "new" is the STATs in his BLN2)
> >
> Sounds like you need to budlist him. I did months ago. On the Mac, all
> message to you and beacons are spoken aloud. Besides having no info I
> care about, the format of his message results i being pronounced by
> computer as a 30 secong long run-together sentence. Very annoying.
> Setting the budlist cures all of this.
>
> Steve K4HG
>
>

APRSdos REPLY/COMMENT:

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

86. Re: [APRSSIG:6949] Re: BLNs received

```
From: Paul Stump <n0lrf@computer-services.com>
Date: Wed, 04 Dec 1996 18:45:21 -0800
To: aprssig@tapr.org
Message-ID: <32A63741.2D43@computer-services.com>
Rendered body type: text/plain
```

```
>
> > From:W1ON-3   To:BLN1
> > PORT DEFINITIONS APRS
>
> These BLNs are upgraded *constantly* with new stats. So virtually *every*
> time I touch my keyboard, APRS prompts me to check the NEW BLN

We are also flooded here in the Kansas City area. Perhaps (I hope)
he knows not what he does?  Does anyone know him? Maybe a nice chat
over a cold beer is advised...
```

---

87. Re: [APRSSIG:6951] Re: Colors on WinAPRS

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Thu, 05 Dec 1996 01:34:07 +0000
To: aprssig@tapr.org
Message-ID: <32A6268F.55A3@netins.net>
Rendered body type: text/plain

```
Barbara Fehner wrote:
>
> There are at least two people in the San Diego area who would like to use
> WAPRS but don't because of the background color. Most of the others here
> that use it have complained about the way the maps look. The problem is that
> when I make my maps I choose the colors according to the contrast with the
> black background. When the map is displayed on a white background the
> contrast is reversed making the less prominent features stand out and the
> important features wash out. I also would like to see the choice of a black
> or dark grey background.
>
> Barbara  KK6IB
> E-Mail: fehner@cts.com

However, when I print out a copy of my map on paper if the background
were white, WOW what a lot of black ink/toner would be wasted!
So as long as we do not have a choice I hope it remains white.
--
Bill Hays  - w0omv email:billh@netins.net
```

---

88. Re: [APRSSIG:6903] Re: Colors on WinAPRS

From: N2ZRC@gnn.com (Arte Booten)
Date: Wed, 04 Dec 1996 21:39:16
To: aprssig@tapr.org
Message-ID: <199612050240.VAA31949@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Tue, 3 Dec 1996 Demos Doulou wrote:

>I too would like a black background.

     In keeping with the spirit of "Hound Dogs In The Night,"
the white background is downright painful and diffucult to look
at when one first wakes up in the middle of the night.  In ad-
dition, the white screen is distracting and possibly dangerous
while mobile at night.

     However, I realize that the nature of this question may be
with how Windows itself operates and may be difficult, if not
impossible, for the Sprouls to implement given the higher pri-
orities of their ambitious plans.

     Mark, Keith, keep up the good work.  This is a very low
priority in my opinion and their are other things you're work-
ing on that are more dear to us.  73


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

---

89. Re: [APRSSIG:6957] Re: Colors on WinAPRS

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Thu, 05 Dec 1996 02:55:06 +0000
To: aprssig@tapr.org

Message-ID: <32A6398A.245A@netins.net>
Rendered body type: text/plain

John W.(Bill) Hays - w0omv wrote:
>
> Barbara Fehner wrote:
MUCH DELETED
> However, when I print out a copy of my map on paper if the background
> were white, WOW what a lot of black ink/toner would be wasted!
> So as long as we do not have a choice I hope it remains white.
> --
> Bill Hays - w0omv email:billh@netins.net
Above proves one should proof read. Hi "white" should be "black".
--
Bill Hays - w0omv email:billh@netins.net

90. Stations in "SUPCalls"

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Wed, 04 Dec 1996 18:59:33 -0800
To: aprssig@tapr.org
Message-ID: <32A63A95.75DF@ix.netcom.com>
Rendered body type: text/plain

For the sake of the finals in my transceiver and for a little sanity
(very little) here on the left Coast I have, for the first time in 11
years reluctantly put callsigns in my TNC's "SUPCALLS". Until today I
have been GATE'ing & DIGIpeating ALL APRS stations on 10.149.30 mark FSK
and on 145.010. In future, ANY station using a path thats over 12" long
............(Hi!) Seriously, one or two "WIDE" or "GATE" statements is
enough! I will be adding or removing calls in the "SUPCALLS" according
to the "DIGIPEATERS USED" list on a daily basis. As I'm typing this I
see one local VHF'er listing 7 wide digipeaters buy their callsigns, and
the last statement is "WIDE"... Gimme a break!

73 de Bill/LFM

91. Re: [APRSSIG:6956] Re: BLNs received

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 4 Dec 1996 19:22:57 -0800
To: aprssig@tapr.org
Message-ID: <199612050322.TAA25811@m1.sprynet.com>
Rendered body type: text/plain

At 18:51 12/4/96 -0600, you wrote:
>>
>> > From:W1ON-3   To:BLN1
>> > PORT DEFINITIONS APRS
>>
>> These BLNs are upgraded *constantly* with new stats. So virtually *every*
>> time I touch my keyboard, APRS prompts me to check the NEW BLN
>
>We are also flooded here in the Kansas City area. Perhaps (I hope)
>he knows not what he does? Does anyone know him? Maybe a nice chat
>over a cold beer is advised...
>

As of 2120 Hours CST this date W1ON-3 is Budlisted from the KC GATE. I hope
this will take care of the problem on our VHF system. I know there is also
a GATE operating up in Iowa and hope they catch on to the same idea...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

92. MIM Module and MIC-Encoder Revisions -- Published

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Wed, 04 Dec 1996 22:48:24 -0500
To: aprssig@tapr.org
Message-ID: <32A64608.A77@the-hermes.net>
Rendered body type: text/plain

I have just posted on my web page a complete list of MIM Module
and MIC-Encoder firmware revisions. This may be of interest to those
who have purchased units in the past and are wondering if an upgrade
is necessary. The file is in Microsoft Word 6.0 format and zipped
for download.

```
By the way, for those MIC-Encoder beta testers, the beta test firmware
is now complete ("MIC104e") and will leave my office shortly.

Regards,
  Will, N3XLM

|================================================|
|  Dr. William I. Clement, President             |
|  Clement Engineering, Inc.                     |
|  1261 Dogwood Road, Arnold, MD  21012-2220     |
|  (office) 410.518.6591 / (sales) 410.268.6736  |
|  (FAX) 410.268.4612                            |
|  mailto:wclement@the-hermes.net                |
|  http://home.navisoft.com/agrelo/clement.htm   |
|================================================|
```

93. BARC SEATTLE APRS DEMO

From: ddobbins@juno.com (David S Dobbins)
Date: Mon, 2 Dec 1996 19:40:27 PST
To: aprssig@tapr.org
Message-ID: <19961202.194641.4495.8.ddobbins@juno.com>
Rendered body type: text/plain

```
One last reminder for the Seattle area SIGsters: I'll be giving an APRS
demo at the Boeing Amateur Radio Club (BARC) monthly meeting on Saturday,
December 7th, at about 10:00 am, at their mtg place in Kent. I understand
there will be signs posted at key locations, and talk-in will be on
145.33 repeater. This is in the vicinity of 212th and Valley Hwy. Hope to
see you all there.

Will those of you who have APRS please have your stations OTA by 9:00.
Would like to see N7RIG mobile, if available, along with others, to show
some mobile capabilities.

David S. Dobbins/WH6YC
Greater Northwest APRS Coordinator
(Montana, Idaho, Oregon, Washington)
(360) 291-3707
ddobbins@juno.com
ddobbins@localaccess.com
```

94. RE: [APRSSIG:6952] Re: Question on beacons

From: Steve Childress <stevech@pacbell.net>
Date: Wed, 4 Dec 1996 20:54:36 -0800
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBE225.5C804C80@ppp-206-170-121-31.sndg02.pacbell.net>
Rendered body type: text/plain

```
The question came to mind from the fellow who'd built a timer to stop the beacon
from transmitting whilst his car was stationary for long periods of times.

----------
From:   Robert W Gervenack[SMTP:rgervenack@juno.com]
Sent:   Wednesday, December 04, 1996 9:23 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:6952] Re: Question on beacons

How do you determine that the station is unattended?
Gervie, W7FEN

On Tue, 3 Dec 1996 22:45:10 -0600 (CST) Steve Childress
<stevech@pacbell.net> writes:
>I've been away from ham radio for quite a while.
>So please don't guffaw at the following...
>
>I note that people are using beacons which transmit from an
>unattended situation. Do the FCC regulations now allow one
> to transmit in this manner, without a station operator present
>nor a supervisory remote control link?
>
>steve
>WB6CSZ
>
>
```

95. yet another java TNC server

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 5 Dec 96 0:20:08 EST

To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.849763208.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

http://www.cloud9.net/~alan/ham/aprs/aprsmon.tgz is a TNC monitor for
javAPRS that runs under Linux (you know, the OS Intel hardware was
meant for:-) It has configurable amount of packet backlog to save up
but no smarts to reduce the data at this point. Runs under Linux
2.0.0 with the Kernel-based ax.25 stack and axutils-2.0.12.

I'm currently using it with a TINY-2 in KISS mode and have tested it
with a BAYPAC with the recently-released Linux Baycom driver as well.
Since the kernel is doing the AX.25 low-level interface and uniformly
making it all look like KISS frames, even a lowly Baypac can look like
a "real" TNC.

I do not yet have an Internet-connected host running it (unless you
happen to telnet to my home machine right now while I'm typing
this:-).

It works great as a standalone means of monitoring the APRS net without
having to reboot the durn machine into DOS or Windoze. I run appletviewer,
which is part of the Java development kit (jdk) and have this param
in my html file:
<PARAM name = "dataFile1" value = "netc:14579:localhost">

It works with Netscape too, but appletviewer is a lot zippier.

Kudos to Steve for making that lousy excuse for a programming language
jump through hoops. Too bad he won't let us read his code and learn
from him:-(

aprsmon is free software (source code) under the usual Gnu public
license terms and is based in part on source code from axutils-2.0.12.

I've also included a modified version of axutils' "beacon" which is
what is causing N2YGK-8 to beacon every 120 minutes or so.

Still need to work on digipeating -- probably just a few mods to
axdigi.

73 de Alan N2YGK

PS: TIGER/Line 1995 CD ROMs started shipping a couple of months ago.
    They now use WGS-84 datum instead of NAD-27 so one less thing to
    have to get around to on tig2aprs:-) Unfortunately, my local
    library has not yet received them (more likely they are in the
    huge stack of received but not yet cataloged books....)
PPS: Got change of a $20? [New Columbia U greeting]

---

96. Re: [APRSSIG:6943] DLG Location System

From: vodall@juno.com
Date: Wed, 4 Dec 1996 23:32:12 MST
To: aprssig@tapr.org
Message-ID: <19961204.234713.10135.0.vodall@juno.com>
Rendered body type: text/plain

>I have a request to anyone who can help me. My area has VERY limited
>APRS activity (Utah). Could someone from a very active area please
>send me a raw text file of the APRS traffic in your area for a period
>of
>time? This would help my development efforts greatly.

Jim,

There's zilch local APRS activity here, but I monitor 10.151 LSB packet
and
digi it out to the local node. If you can get on there, you'll have
good
stuff coming in all day long from around the country.

Good Luck.

>
>Thanks in advance,
>
>Jim Olsen
>jim_olsen@novell.com

Bill, WA7NWP

---

97. Re: BLNs received

From: pmann@juno.com (PETER J MANN)
Date: Thu, 05 Dec 1996 01:47:28 EST
To: aprssig@tapr.org
Message-ID: <19961203.121433.3807.0.PMANN@juno.com>
Rendered body type: text/plain

I will do the same in Tulsa,OK

HAVE A GREAT DAY!
Pete

---

98. non-live javAPRS page

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 5 Dec 96 2:42:45 EST
To: aprssig@tapr.org
Cc: wecafolks: ;
Message-ID: <CMM.0.90.4.849771765.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

Just some local stuff using two or three dos maps generated from tiger files -- and with a nice white background:-) Shows N2AMP driving around the county with his MIM (with a real good demo of SA jumpiness:-) and N1HF just passin' through I guess (no doubt having a QSO on the low bands). Seems like Arte might have moved his car across the street, too (or just more SA jump).

http://www.cloud9.net/~alan/ham/aprs/java

I had to edit my valid APRSdos maps for javAPRS to successfully parse them. Just something to look out for. Namely, floating point map ranges break javAPRS as do multiline comments before the initial 0,0.

My kludge for multi-line labels to circumvent APRSdos 12 char limit shows up quite clearly too, just like in WinAPRS.

I'll be needing some extra Java at work tomorrow (er, this) morning.

73
/a

---

99. Re: [APRSSIG:6951] Re: Colors on WinAPRS

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Dec 1996 07:02:08 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961205065922.21088A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Paper maps, which I'm sure you've read before, are on white paper! Why not use the colors that Rand-McNally have been using for years? If a person can see the fetures of the program for the color of the background...... how does that go? Can't see the forest for the trees?

Don't take offense, this is just an opinion.

On Wed, 4 Dec 1996, Barbara Fehner wrote:

> There are at least two people in the San Diego area who would like to use
> WAPRS but don't because of the background color. Most of the others here
> that use it have complained about the way the maps look. The problem is that
> when I make my maps I choose the colors according to the contrast with the
> black background. When the map is displayed on a white background the
> contrast is reversed making the less prominent features stand out and the
> important features wash out. I also would like to see the choice of a black
> or dark grey background.
>
> Barbara KK6IB
> E-Mail: fehner@cts.com
>

---

100. Re: [APRSSIG:6955] W1ON-3

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 5 Dec 1996 07:05:32 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org

```
Message-ID: <Pine.LNX.3.91.961205070447.21088B-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain
```

```
Well said! I agree. The problem should not be avoided, but fixed!

On Wed, 4 Dec 1996, Bob Bruninga wrote:

> I agree, but BUDLISTING wont educate him to the problems he is causing.
> SOmeone must make human contact and educate hiim.  He is totally wasting
> bandwidth resources and QRMing most of the country. PERIOD.  It should be
> stopped...
>
>  On Wed, 4 Dec 1996, Steve Dimse wrote:
>
> > >These BLNs are upgraded *constantly* with new stats. So virtually *every*
> > >time I touch my keyboard, APRS prompts me to check the NEW BLN (when the
> > >only thing "new" is the STATs in his BLN2)
> > >
> > Sounds like you need to budlist him. I did months ago. On the Mac, all
> > message to you and beacons are spoken aloud. Besides having no info I
> > care about, the format of his message results i being pronounced by
> > computer as a 30 secong long run-together sentence. Very annoying.
> > Setting the budlist cures all of this.
> >
> > Steve K4HG
> >
> >
>
> APRSdos REPLY/COMMENT:
>
> Reply mail addr:  wb4apr@amsat.org
> See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
>
```

---

101. My X(mit) B(eacon) error

```
From: N2ZRC@gnn.com (Arte Booten)
Date: Thu, 05 Dec 1996 08:34:50
To: aprssig@tapr.org
Message-ID: <199612051335.IAA16907@mail-e2b.gnn.com>
Rendered body type: text/plain
```

```
Hi Bob, and the SIG,

     A few days ago I commented that it seemed like the X(mit) B(eacon) command in
7.7e was still broken.  I realized (after all, it was only staring me in the face)
that this had been changed to X S(tatus) so as to remain consistent with the move
of the former Alt-B command to the I(nput) M(y) submenu.  I had been pressing X B
so many times and wondering why I wasn't transmitting that I was about to rebuild
my TNC to radio cable!  This wouldn't have been so much of a problem if I'd had a
bulletin though, as that's what the X B command does now (this was formerly X(mit)
b(U)lletin.)  To this end I publicly, for all to see, humbly submit to the SIG my
heartfelt, apologetic DUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUHHHHHHHHHHHHHH! 73


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

---

102. Re: [APRSSIG:6970] Re: W1ON-3

```
From: schiers@ames.net
Date: Thu, 05 Dec 96 08:09:22 -0600
To: aprssig@tapr.org
Message-ID: <199612051410.IAA12388@tapr.org>
Rendered body type: text/plain
```

```
In <920597@bbs.ames.net>, on 12/05/96 at 07:00 AM,
   aprssig@tapr.org said:

>Well said! I agree. The problem should not be avoided, but fixed!

>On Wed, 4 Dec 1996, Bob Bruninga wrote:

>> I agree, but BUDLISTING wont educate him to the problems he is causing.
>> SOmeone must make human contact and educate hiim.  He is totally wasting
>> bandwidth resources and QRMing most of the country. PERIOD.  It should be
>> stopped...
```

```
>>
>>  On Wed, 4 Dec 1996, Steve Dimse wrote:
>>
>> > >These BLNs are upgraded *constantly* with new stats. So virtually *every*
>> > >time I touch my keyboard, APRS prompts me to check the NEW BLN (when the
>> > >only thing "new" is the STATs in his BLN2)
>> > >
>> > Sounds like you need to budlist him.

Budlisting doesn't solve the problem of using up precious HF bandwidth. He
is transmitting on HF for no purpose whatever. No one needs to know
ANYTHING he is transmitting on HF.

Aren't there any locals who know about HF that can call him on the phone
and ask him to stop? 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

103. Re: [APRSSIG:6959] Re: Colors on WinAPRS

From: schiers@ames.net
Date: Thu, 05 Dec 96 08:17:27 -0600
To: aprssig@tapr.org
Message-ID: <199612051417.IAA12630@tapr.org>
Rendered body type: text/plain

```
In <920067@bbs.ames.net>, on 12/04/96 at 08:47 PM,
   aprssig@tapr.org said:

>So as long as we do not have a choice I hope it remains white.

Hi Bill (w0omv)

I agree, if we don't have a choice to play with, I would like to see it
stay white.

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

104. Re: [APRSSIG:6970] Re: W1ON-3

From: Steve Dimse <sdimse@bridge.net>
Date: Thu, 5 Dec 96 09:18:16 -0500
To: <aprssig@tapr.org>
Message-ID: <199612051418.JAA26055@newworld.bridge.net>
Rendered body type: text/plain

```
>Well said! I agree. The problem should not be avoided, but fixed!
>
But you missed the point...I was responding to a local VHF user who _had_
tried to educate him. For whatever reason, this guy seems to be
completely unresponsive to any means to contact him.

Steve K4HG
```

---

105. Re: [APRSSIG:6959] Re: Colors on WinAPRS

From: schiers@ames.net
Date: Thu, 05 Dec 96 08:17:27 -0600
To: aprssig@tapr.org
Message-ID: <199612051426.IAA13000@tapr.org>
Rendered body type: text/plain

```
In <920067@bbs.ames.net>, on 12/04/96 at 08:47 PM,
   aprssig@tapr.org said:

>So as long as we do not have a choice I hope it remains white.

Hi Bill (w0omv)

I agree, if we don't have a choice to play with, I would like to see it
stay white.

73,
hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

106. Win95/Java Internet Exporer Question

From: schiers@ames.net
Date: Thu, 05 Dec 96 08:27:29 -0600
To: aprssig@tapr.org
Message-ID: <199612051430.IAA13083@tapr.org>
Rendered body type: text/plain

```
Yesterday I got my xyl's machine upgraded and put w95 on it. Using the
built in web browser, which I think is Internet Explorer v 3.01, I am
having great success going to wa4dsy et al.

One problem, both apr and dsy sites refer to opening the Java Console to
see incoming data or station lists. I can't find the procedure anywhere to
open a java console for the internet explorer. Can anyone help me with
this?

The java console works fine under Netscape/2 and the Warp4 applet  viewer
under OS/2, but W95 is a mystery to me. TIA

73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

107. Re: [APRSSIG:6974] Re: W1ON-3

From: schiers@ames.net
Date: Thu, 05 Dec 96 08:39:47 -0600
To: aprssig@tapr.org
Message-ID: <199612051440.IAA13677@tapr.org>
Rendered body type: text/plain

```
In <920716@bbs.ames.net>, on 12/05/96 at 08:15 AM,
   aprssig@tapr.org said:

>For whatever reason, this guy seems to be
>completely unresponsive to any means to contact him.

Ahhh...tnx info. Time for the old "pin through the coax"
solution....just kidding, folks. 73.

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

108. Re: [APRSSIG:6933] Scanner with APRS:

From: rwf <rwf@mindspring.com>
Date: Thu, 05 Dec 1996 07:00:44 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961204091051.006a8acc@mindspring.com>
Rendered body type: text/plain

```
You didn't say, but I'm assuming you are not using a laptop or other PC in
the car, right?


I update maps a lot using GPS too. When I track roads and have the laptop,
I set the posrate to 1 second and leave the transmit rate at the default
180 seconds.  The built in HSP of the pico can handle 1 second screen
updates and have not a single glitch. My old hardware HSP usually screwed
up every other position or APRS received posit (or got HSP timeout)
whenever the position rate was less than 5 seconds or so.

I just re read the above and need to clarify:  NO I am NOT transmitting
every 1 second, only screen updating.

Ralph


At 11:32 PM 12/3/96 -0600, you wrote:
```

```
>When I track I use a Garmin GPS45XL, KPC-3, and the HTX-202. I transmit
>every 10 or 15 seconds when doing the roads for updating the maps.  To
>receive the data I take along another KPC-3, HTX-202 and a HP200LX Palmtop.
>I use the Trimble for an antenna.  This configuration works great.
```

---

109. Re: [APRSSIG:6947] Garmin GPS II

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Thu, 5 Dec 1996 08:50:46 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961205085043.219fd51c@mailhost.primenet.com>
Rendered body type: text/plain

```
At 03:24 PM 12/4/96 -0600, ed j wilson wrote:
>Anyone familiar w/ the Garmin GPS II?
>Does it have a removable antennae?
>NMEA output?
>
>any other comments?
>
>thanks in advance!
>73 de N2XDD Ed Wilson
>

I too saw the GPS II (on Garmin's web page)and started salivating.  I went
to HRO, which carries Garmin GPS units, they had them listed, at $249.00,
but not yet in stock.  I went to Popular Outfitters (Good Phoenix based
camping/sporting goods store).  They had the flyer on them, but none on
display.  The manager saw the flyer in my hand and mentioned that the GPS II
sure was a neat unit, but Garmin had recalled all of Popular's stock, due to
a bug in the firmware.

Here are some spec's:

250 Waypoints, nearest 9 automatic
106 Map Datums
Coodinates of LAT/LON, UTM/UPS, plus 7 grids (including maidenhead)
NMEA 183 and RS-232 DGPS correction
2.32" x 5" x 1.62"
External antenna w/standard BNC connector
Power by 4 AA batteries or 10-36 volts DC @ .75 watts

Hope that helps.

73,

Mark KC7BXS
```

---

110. Re: [APRSSIG:6961] Re: BLNs received

From: Linda Mullen <ad4bl@beaches.net>
Date: Thu, 05 Dec 1996 10:07:45 -0600
To: aprssig@tapr.org
Message-ID: <32A6F351.7126@beaches.net>
Rendered body type: text/plain

```
We are also getting the bulletins here in North Florida...

Linda  AD4BL
```

---

111. ACARS & KCP-3

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Thu, 5 Dec 1996 12:42:03 -0500
To: "Sig APRS" <aprssig@tapr.org>
Message-ID: <199612051740.MAA14123@erinet.com>
Rendered body type: text/plain

```
Has anyone been able to use ACARS (APRSAIR.EXE)  with the
Kantronics KPC-3 with ver 6.0 GPS firmware?

If so, please share the details on how you set the TNC &
Software.

Thanks es Vry 73 de Tru K8JUG
truxenia@erinet.com
```

---

112. Re: [APRSSIG:6980] Re: BLNs received

From: "Paul E. Knupke Jr. (KR4YL)" <knupke@csee.usf.edu>
Date: Thu, 5 Dec 1996 12:48:53 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.SOL.3.95.961205124848.23472B-100000@babbage>
Rendered body type: text/plain

```
Paul Knupke, Jr.                   /  Pinellas County ARES Asst. EC
 knupke@babbage.csee.usf.edu      /         Pinellas County Skywarn
 Largo, FL USA                   /                Fidonet 1:3603/570
 Amateur Radio Callsign: KR4YL  /      Florida Contest Group Member
```

113. Re: FOOTBALL RUN

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Dec 1996 13:21:53 -0500 (EST)
To: ROBERT MARLEY <MARLEY@LU.LINCOLN.EDU>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961205131720.16501J-100000@arctic>
Rendered body type: text/plain

```
The FOotbal run tomorrow from Annapolis to Philadelphia starting at noon
will have 2 vans.  Both will have 1 watt APRS stations and 40 watt voice
radios with Mic Encoders.  They will both use the path of
RELAY,WIDE,WIDE.  If there are any local HAMS that wanted to shadow them
when they are far from a digipeater to provide a mobile
"RELAY" would be helpful.

They will pass through Baltimre about afternooon rush hour and proceed up
route 1 crossing into PA about 2200.  Arrive Philly about 0700 the next
morning.  Nobody much cares past midnight except for local comms between
footbal and the command post at Oxford PA...

 On Thu, 5 Dec 1996, ROBERT
MARLEY wrote:

> HELLO, I SAW YOU TESTING LAST NIGHT.  WHEN ZOOMED IN IT LOOKED LIKE YOU
> WENT SWIMMING A COUPLE OF TIMES.  IS THERE ANYTHING I CAN DO TO HELP
> WHEN YOU PASS THROUGH THE AREA?  IF SO LET ME KNOW AND I WILL TRY TO BE
> AVAILABLE.  WHEN DO YOU THINK YOU WILL BE COMMING INTO THE AREA?
> ALSO APR-11 SEEMS TO BE DOWN AGAIN.
>
>               73 de  N3OBQ  ROBERT MARLEY
>

APRSdos REPLY/COMMENT:

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

114. Re: registration info

From: BRETSKI <bap@storm.atms.purdue.edu>
Date: Thu, 5 Dec 1996 16:15:26 -0500 (EST)
To: APRS <aprssig@tapr.org>
Message-ID: <Pine.A32.3.93.961205161501.40604A-100000@storm.atms.purdue.edu>
Rendered body type: text/plain

```
Hello.
I really like the APRS software!
The other day I got about 15 hits -- even one from Puerto Rico!

I registered the software with you folk awhile back but I lost the
registration number you sent me along with the sheet about how to
enter the number in the program.

Could you please send it again?

Sorry.

:-(




BRET A. PENNINGTON / COMPUTER TECH /EARTH & ATMOSPHERIC SCIENCES
317-494-0678 / PURDUE UNIVERSITY  / WEST LAFAYETTE, INDIANA 47907
bap@storm.atms.purdue.edu         /     speaking only for myself.
/\/\/\/\/\/ __... /\/\/\/\/\ N9ZFF /\/\/\/\/\/ ...__ /\/\/\/\/\
```

115. Re: Port Definitions from W1ON-3

From: N2ZRC@gnn.com (Arte Booten)
Date: Thu, 05 Dec 1996 17:01:47
To: aprssig@tapr.org

Message-ID: <199612052202.RAA11054@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Richard,

On Wed, 4 Dec 1996 Richard Amirault replied to my e-mail:

>>   I hate to say it, but you're about as geographically close as anybody to this
>>fellow. Could you possibly give him (her?) a phone call and some gentle education?
>>I'm sure everybody from coast-to-coast on .79 and .151 would greatly appreciate it.

with

>There are a bunch of folks closer, but yes we are all in the Greater Boston area. I
>don't think I've ever talked with this person (his name is DOC) more than once or
>twice since I've had my ticket. I get the impression that he is an opionated old
>cuss from what I've heard others say over the air. I really don't think I have the
>social skills to aproach him on this matter.
>
>Maybe if I collected the sig msgs regarding his practices into one file and sent
>them to him... I've got to discuss this with some of the other locals first.

Perhaps we all could send them to him via PBBS. He'd probably be there all day downloading them at 1200 baud, seeing that QRM and channel overloading can work both ways ;-{(

Seriously, BUDListing somebody has to be considered as a "last resort." Doing so doesn't reduce the QRM on 30M as he's probably going to be unaware that he's no longer being ECHOed or DIGI'd. Also, let's not forget what happened to Bill a few weeks ago when HE was BUDListed. Doc (at least going by Richard's description) may not even CARE if some stations do so.

BTW, according to my 1994 callbook, W1ON is listed as Arthur P. Peardon, 139 Buckskin Path, Centerville MA 02632. Not that I'm suggesting any course of action by having this address, of course. 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

116. Re: [APRSSIG:6985] Re: Port Definitions from W1ON-3

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 05 Dec 1996 17:26:20 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961205232620.006deb14@tbcnet.com>
Rendered body type: text/plain

The Buckmaster Callsign Lookup sez:

W1ON is

MITRE BEDFORD AMATEUR RADIO CLUB (KB1JY-TR)
Mitre Corp 202 Burlington Rd
Bedford, MA 01730

Country of License : USA
Birth Date : 10/15/1942
Expiration Date : 08/01/2006
Email address unknown.

At 16:07 12/5/96 -0600, you wrote:

>
>   BTW, according to my 1994 callbook, W1ON is listed as Arthur P.
Peardon, 139
>Buckskin Path, Centerville MA 02632. Not that I'm suggesting any course
of action
>by having this address, of course. 73
>

---
J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

117. Re: [APRSSIG:6986] Re: Port Definitions from W1ON-3

From: Dayglo <dayglo@radix.net>
Date: Thu, 05 Dec 1996 19:29:30 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961206002930.00727c98@pop.radix.net>
Rendered body type: text/plain

Adding to this a bit QRZ (http://www.qrz.com) on the Internet had this to add about W1ON:

Trustee: KENNETH H WICKWIRE KB1JY

```
  Callsign: KB1JY
      Name: KENNETH H WICKWIRE
     Addr1: 232 NORTH RD 17
     Addr2: BEDFORD MA   01730
   Country: USA
     Class: Extra
 Effective: 23 Aug 1995
   Expires: 17 Sep 2001
      Born: 15 Oct 1942
  Location: 42.492 N   71.276 W   Middlesex County
```

At 05:30 PM 12/5/96 -0600, you wrote:
>The Buckmaster Callsign Lookup sez:
>
>W1ON is
>
>MITRE BEDFORD AMATEUR RADIO CLUB (KB1JY-TR)
>Mitre Corp 202 Burlington Rd
>Bedford, MA 01730
>
>Country of License : USA
>Birth Date : 10/15/1942
>Expiration Date : 08/01/2006
>Email address unknown.

118. APRS From TX

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Thu, 05 Dec 1996 19:05:59 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <32A78D97.2DBD@n-link.com>
Rendered body type: text/plain

Can anyone see us on there APRS Screen..
KC5UJH
We run ours here in Lampasas, TX 24hrs a day..

--
CUSTOM MUGS, 13 Dana drive, Lampasas Tx 76550-1113
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691   This is also a FAX Request line:)
We Print your Color Photos onto coffee mugs.... Check us out.

119. Garmin 20 problem

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Thu, 5 Dec 1996 17:15:57 -0800 (PST)
To: aprssig@tapr.org, mic-e@tapr.org
Message-ID: <Pine.GSO.3.95.961205170916.6174A-100000@oso.slonet.org>
Rendered body type: text/plain

My Garmin 20 obtained from TAPR works well when in continuous operation from an external power supply BUT on occasion simply refuses to display data. The serial data stream is there, but the device refuses to update. Simply breaking the 5 volt power which allows the unit to internally reset will again produce valid fix information for periods as long as a week.
   This one is going to be rather hard to fix, but have any other members found this situation occuring? At least this is a start. Cliff K7RR

120. Re: Question on beacons

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 05 Dec 96 20:46:14 EST
To: <aprssig@tapr.org>
Message-ID: <961206014614_71301.3106_FHJ77-1@CompuServe.COM>
Rendered body type: text/plain

```
Steve writes:

> I note that people are using beacons which transmit from an
> unattended situation. Do the FCC regulations now allow one
> to transmit in this manner, without a station operator present
> nor a supervisory remote control link?

Yes, and the answer is:

  97.221 Automatically controlled digital station.

    (b) A station may be automatically controlled while
    transmitting a RTTY or data emission on the 6m or shorter
    wavelength bands, and on... [numerous HF segments].

and:

  97.109 Station control.

    (d) When a station is being automatically controlled, the
    control operator need not be at the control point.
    ...[qualified station types, which includes the above]


So we're covered.

  ...mike/N0QBF (Official Observer)
     71301.3106@compuserve.com
```

---

121. Re: [APRSSIG:6947] Garmin GPS II

From: David Wells <davew@cruzio.com>
Date: Thu, 5 Dec 1996 21:07:03 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612051859.aa01132@bbs.cruzio.com>
Rendered body type: text/plain

```
At 03:24 PM 12/4/96 -0600, you wrote:
>Anyone familiar w/ the Garmin GPS II?
>Does it have a removable antennae?
>NMEA output?
>
>any other comments?
>
>thanks in advance!
>73 de N2XDD Ed Wilson
>
>.-
>

They have all been recalled for a software glitch.

Dave KD6TO
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
```

---

122. SUPCALLS & LLIST vs BUDCALLS & BUDLIST

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Thu, 05 Dec 1996 19:16:03 -0800
To: aprssig@tapr.org
Message-ID: <32A78FF3.5411@ix.netcom.com>
Rendered body type: text/plain

```
I see a lot of  references to "BUDLIST/BUDCALLS" to remove unwanted
stations from being displayed. "BUDLIST/BUDCALLS" will accomplish
this... but..! My experience (KAM+) shows that these stations continue
to be gated and digipeated. I have found "SUPCALLS/LLIST" to be much
more effective. The callsigns in "SUPCALLS" will continue to be logged
in your "DIGIPEATERS USED" list but will not show-up on screen, nor will
they be Gated or Digipeated.


Bill  KB6LFM
"Left Coast Gateway Station" in San Francisco
```

---

123. Re: [APRSSIG:6969] Re: Colors on WinAPRS

From: Barbara Fehner <fehner@cts.com>
Date: Thu, 05 Dec 1996 19:28:55 -0800

To: aprssig@tapr.org
Message-ID: <2.2.32.19961206032855.006f1bbc@mail.cts.com>
Rendered body type: text/plain

```
I would refer you to a basic textbook on optics dealing with the difference
between reflected light (the paper map) and transmitted light (the crt screen).
One should have a knowledge of the trees before trying to understand the forest.

No offence taken.

Barbara  KK6IB
E-Mail: fehner@cts.com

_____________________________________________________________________________
At 07:08 AM 12/5/96 -0600, you wrote:
>Paper maps, which I'm sure you've read before, are on white paper! Why
>not use the colors that Rand-McNally have been using for years? If a
>person can see the fetures of the program for the color of the
>background...... how does that go? Can't see the forest for the trees?
>
>Don't take offense, this is just an opinion.
>
>On Wed, 4 Dec 1996, Barbara Fehner wrote:
>
>> There are at least two people in the San Diego area who would like to use
>> WAPRS but don't because of the background color. Most of the others here
>> that use it have complained about the way the maps look. The problem is that
>> when I make my maps I choose the colors according to the contrast with the
>> black background. When the map is displayed on a white background the
>> contrast is reversed making the less prominent features stand out and the
>> important features wash out. I also would like to see the choice of a black
>> or dark grey background.
>>
>> Barbara  KK6IB
>> E-Mail: fehner@cts.com
>>
>
>
>
```

124. Help needed with getting on APRS with PICO Packet

From: WagWagnon@aol.com
Date: Thu, 5 Dec 1996 22:29:14 -0500
To: aprssig@tapr.org
Message-ID: <961205222913_1952637020@emout17.mail.aol.com>
Rendered body type: text/plain

```
Hi,

I am have a PICO Packet with an internal GPS which I am running on APRS using
a MFJ Packet Tranceiver.

I am not able to get it set up right to acknowledge the GPS. When I start up
the APRS program (ver 7.7e) it asks which port I am going to use. I then
assign it to COM 1. It then asks me if I am going to use another port and
this is where I am lost. If I answer "yes" then the system later on hangs up
on me when I set up the GPS. If I answer "No" then when I go to set up the
GPS, it says that I do not have any port available to install the GPS. The
GPS is internal and it supplies all the data on one port, so I am told.  I
have contacted PACOMM and they say that they are not that familiar with the
APRS program.

If anyone is using this PICO Packet with Internal GPS, I would greatly
appreciate it if you could furnish me the information on setting up the unit
with APRS.

Thanks,


Wag.... W9IUP
```

125. Re: [APRSSIG:6988] APRS From TX

From: dkaszubski@why.net (dkaszubski)
Date: Thu, 05 Dec 1996 22:40:10 -0800
To: aprssig@tapr.org
Message-ID: <32A7BFCA.6E93@why.net>
Rendered body type: text/plain

Tommie Taylor wrote:
>
> Can anyone see us on there APRS Screen..
> KC5UJH
> We run ours here in Lampasas, TX 24hrs a day..

We see you in the Dallas-Fort Worth area most of the time.

--
Dave Kaszubski WB3FYV
dkaszubski@why.net also: ustuia6v@ibmmail.com
Benbrook, Texas N 32 40.319' W 097 26.844'

President of the Texas Utilities Amateur Radio Club,
Comanche Peak Chapter
Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
Still experimenting with APRS...
http://users.why.net/dkaszubski/

---

126. RE: [APRSSIG:6990] Re: Question on beacons

From: Steve Childress <stevech@pacbell.net>
Date: Thu, 5 Dec 1996 21:06:38 -0800
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBE2F0.3517C800@ppp-206-170-121-32.sndg02.pacbell.net>
Rendered body type: text/plain

Thanks for the info - a more liberal FCC these days!

---

127. Re: [APRSSIG:6994] Help needed with getting on APRS with PICO Packet

From: rwf <rwf@mindspring.com>
Date: Thu, 05 Dec 1996 21:39:07 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961205213535.006a6d60@mindspring.com>
Rendered body type: text/plain

Tell it you have only 1 port (usually Com1), and that the TNC is a Pico.

You must have a GPS registration number for APRS from WB4APR. (I think you are still waiting on that - I sent him a message for ya)

Once you have done this, go to the terminal window screen (O C T) and set the command LGE $05 This will set the Pico up to talk to APRS. There are a few other things, but these are the ones that cause the most problems.

At 09:35 PM 12/5/96 -0600, you wrote:
>Hi,
>
>I am have a PICO Packet with an internal GPS which I am running on APRS using
>a MFJ Packet Tranceiver.

Ralph Fowler, N4NEQ S.E.R.A. ATV Technical
Advisor
rwf@mindspring.com
Atlanta, GA USA
Web: http://www.mindspring.com/~rwf for APRS, ATV, Balloon,
and Ham info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
Ask me how!

---

128. Flight of the EAGLE

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 06 Dec 1996 07:27:34 -0500
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <32A81135.1EE3@co.pinellas.fl.us>
Rendered body type: text/plain

Greetings!

For those who received the flight data from EAGLE 4 last night, here are the answers to your questions:

Eagle is the radio codename for the aircraft used by the Pinellas
County Sheriff's Office in Clearwater, Florida. Here is the
information on last night's mission:

1. Purpose: To test the use of a stand alone GPS tracker on APRS inside
a fast moving helicopter for the upcoming special event "Ride with the
Stars" on Saturday, December 7, 1996.

2. Equipment: Magellan XL GPS, KPC-3 TNC in GPS MODE, Motorola MT-1000
portable radio, 7 amp hour gel cell battery, and suction cup mount for
GPS antenna.

3. Aircraft: 1992 French made ASTAR jet helicopter, FAA ID N53SD
equipped with a 50,000 candlepower NightSun spotlight and Forward
Looking Infrared (FLIR) sensor.

```
4.  The crew:  Pilot:  Deputy Charles Tarrou
               Co-Pilot/Observer: Deputy Joseph Lawson
               Airborne Tracking Specialist:  Det. Kevin Heyboer KD4UYR
    Note:  Both Dep Tarrou and Dep Lawson are the combat veterans who
           were shot at during the recent riots in St. Petersburg.
```

5. The mission: GPS tracker test during routine patrol flight of the
Eagle.

6. The results: Quite impressive, actually.

7. Problems encountered:
     a. GPS took about 15 minutes to sync up on initial installation on
the ground.
     b. GPS lost satellite lock during high speed tight orbital turns
during a search for a prowler and did not sync up for several minutes
thereafter.
     c. Gel cell died after about 1 hour use.

Anyone interesting in obtaining a log of the flight may do so by sending
me a PRIVATE e-mail and I will send it as an attachment.

Watch for SANTA to travel from PIE to the very southern tip of Pinellas
County on Saturday, December 7, 1996 at some time between 0900 and 1000
Eastern Standard Time.

You can obtain more information on the Pinellas County Sheriff's Office
and Everett S. Rice, Sheriff of Pinellas County, at:

http://www.co.pinellas.fl/sheriff/index.html

```
--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

129. DeLorme Tripmate

From: Joe Scalet <jscalet@dound.net>
Date: Fri, 06 Dec 1996 08:49:14 -0800
To: aprssig@tapr.org
Message-ID: <32A84E8A.A6C@dound.net>
Rendered body type: text/plain

I'm a registered user of Delorme products but did not get an upgrade
flier prior to reading about it on this sig. I called them and got the
BE32 code for upgrade, sent them a check on 11/25/96 and recieved the
package on 12/5/96. So far I'm impressed with the service and the unit.
Its my fourth GPS, each one has been better and cheaper. There's no such
thing as too many toys.

130. [APRSSIG:6966] Re: DLG Location System -Reply

From: Jim Olsen <JIM_OLSEN@novell.com>
Date: Fri, 06 Dec 1996 07:57:10 -0700
To: aprssig@tapr.org
Message-ID: <s2a7d85c.050@novell.com>
Rendered body type: text/plain

OK thanks for the info on this....

Jim Olsen

```
jim_olsen@novell.com


>>> <vodall@juno.com> 12/04/96 11:48pm >>>


>I have a request to anyone who can help me.  My area has VERY
limited
>APRS activity (Utah).  Could someone from a very active area please
>send me a raw text file of the APRS traffic in your area for a period
>of
>time?  This would help my development efforts greatly.

Jim,

There's zilch local APRS activity here, but I monitor 10.151 LSB packet
and
digi it out to the local node.   If you can get on there, you'll have
good
stuff coming in all day long from around the country.

Good Luck.

>
>Thanks in advance,
>
>Jim Olsen
>jim_olsen@novell.com

Bill,  WA7NWP
```

---

131. W1ON-3

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Fri, 06 Dec 1996 10:33:50 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961206153350.00cc25a8@cassatt>
Rendered body type: text/plain

```
We're working on the W1ON-3 problem locally by trying to make contact though
lots of means currently.

 W1ON is a recently re-issued vanity callsign issued to a club, I believe,
at least there was another call on the station until recently. W1ON is a
club call with KB1JY as the trustee. However, I believe W1EO is the guy
responsible for the APRS stuff there.

 I recommend tactful messages by regular packet to w1eo@w1on.ma by packet
might help.

 73!

 -Tom Kinahan N1CPE


---------------------------------------------------------------------
Tom Kinahan                     Phone:          508-871-0305
US Robotics                     Fax:            508-870-1689
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

---

132. Re: [APRSSIG:6994] Help needed with getting on APRS with PICO Packet

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Dec 1996 11:14:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961206111229.20036B-100000@arctic>
Rendered body type: text/plain

```
On Thu, 5 Dec 1996 WagWagnon@aol.com wrote about his PICO TNC:

> I am not able to get it set up right to acknowledge the GPS. When I start up
> the APRS program (ver 7.7e) it asks which port I am going to use. I then
> assign it to COM 1. It then asks me if I am going to use another port and
> this is where I am lost. If I answer "yes" then the system later on hangs up
> on me when I set up the GPS. If I answer "No" then when I go to set up the
> GPS, it says that I do not have any port available to install the GPS. The
> GPS is internal and it supplies all the data on one port, so I am told.

APRSdos REPLY/COMMENT:  You should operate APRS with just a TNC on one
```

```
COMM port.  THen select alt-S-GPS-MODES-HSP.  THat tells aprs that ur GPS
will be combining its data with the TNC.  It has no dedicated port as far
as APRS is concerned...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

133. Re: [APRSSIG:6997] Re: Help needed with getting on APRS with PICO

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Dec 1996 11:20:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961206111840.20036D-100000@arctic>
Rendered body type: text/plain

```
On Thu, 5 Dec 1996, rwf wrote:

> Tell it you have only 1 port (usually Com1), and that the TNC is a Pico.
> Use alt-S-GPS-MODES-HSP
> then alt-S-SAVE to enter your GPS validation number
> Once you have done this, go to the terminal window screen (O C T ) and set
> the command  LGE $05     This will set the Pico up to talk to APRS.   There
> are a few other things, but these are the ones that cause the most problems.

APRSdos REPLY/COMMENT:  I edited Ralphs response a little to be more
sepecific..

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

134. Re: [APRSSIG:6999] DeLorme Tripmate

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 6 Dec 1996 11:35:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612061635.LAA11772@smtp1.erols.com>
Rendered body type: text/plain

```
Joe Scalet <jscalet@dound.net> wrote

>I'm a registered user of Delorme products but did not get an upgrade
>flier prior to reading about it on this sig. I called them and got the
>BE32 code for upgrade, sent them a check on 11/25/96 and recieved the
>package on 12/5/96. So far I'm impressed with the service and the unit.
>Its my fourth GPS, each one has been better and cheaper. There's no such
>thing as too many toys.
>
Well I just got mine yesterday. It installed fine on the home computer but
was touch and go on my laptop. Delorme says use a minimum of a 486DX with 8
meg memory and 10 meg swapfile. I've got it running (S L O W L Y) on a
386SX25 running Win 3.1 with 4 meg ram, corrupt swapfile, broken trackball
and a pretty full compressed 80 meg harddrive. Its amazing it works at all.
Next comes wiring up a regulator for the GPS. The 386 package takes forever
to boot and initialize, so I plan on leaving the whole works powered up most
of the time..

John Kozak; N3AGG
jkozak@erols.com
```

---

135. Re: [APRSSIG:6988] APRS From TX

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Fri, 6 Dec 1996 10:45:44 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961206104518.1863A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I think I've seen this call up here in the Ozarks.


On Thu, 5 Dec 1996, Tommie Taylor wrote:

> Can anyone see us on there APRS Screen..
> KC5UJH
> We run ours here in Lampasas, TX 24hrs a day..
>
> --
> CUSTOM MUGS, 13 Dana drive, Lampasas Tx 76550-1113
> http://www.web2.com/cmugs/
> Internet: tomcmugs@n-link.com / tomcmugs@juno.com
```

> Phone: (512) 556-4691   This is also a FAX Request line:)
> We Print your Color Photos onto coffee mugs.... Check us out.
>

---

136. Re: [APRSSIG:6998] Flight of the EAGLE

From: Neil Lauritsen <scout@gte.net>
Date: Fri, 06 Dec 1996 12:26:35 -0500
To: aprssig@tapr.org
Message-ID: <32A8574B.97C@gte.net>
Rendered body type: text/plain

Kevin Heyboer wrote:

> 6. The results: Quite impressive, actually.
>
> 7. Problems encountered:

IN ADDITION to those few problems listed by Kevin: The following was noted - We projected the DOSAPRS version through an overhead mounted video projector onto a large screen at our regular monthly ARES meeting so that it wa easily seen by all present. The helicopter symbol came up as expected and we following it on the map was very easy..however When I did a REPLAY on my home WinAPRS setup..the helicopter was only seen as a DOT..Not a helicopter as expected..since this is a stand alone tracker setup on the copter, is there a way for something to be put into the beacon strings which works for both the DOS and WIN versions so that the helicopter symbol is seen by all no matter which operating system version one is using??

TNX,

Watch for SANTA to travel from PIE to the very southern tip of Pinellas County on Saturday, December 7, 1996 at some time between 0900 and 1000 Eastern Standard Time. (TOMMORROW)

--
Neil - KA3DBK
EC Pinellas Co. FL. ARES
ka3dbk@w4dph.#tpa.fl.usa.na
email - "scout@gte.net"
Web Page(s) - "http://home1.gte.net/scout/index.htm"
Home Phone (813)441-3954
Sysop - ARES/RACES BBS!
        (813)464-5279
        (813)464-5280

---

137. Help w/ registration of APRS

From: sjking@juno.com (Steven J King)
Date: Fri, 6 Dec 1996 09:39:53 EST
To: bruninga@ncsa.navy.mil
Cc: aprssig@tapr.org
Message-ID: <19961206.133058.6583.0.SJKing@juno.com>
Rendered body type: text/plain

I'm not sure which is the correct address to ask this question so please forgive me if I am wrong.

Does the $30 registration fee cover all future releases of the DOS and Windows 3.1 version of APRS, or does it cover only the current version (7.7e)? I presume the $24 and $26 club rates for 10+ and 5+ users, respectively, is in addition to the $30 base price? Is that price the "initial order" or the "separate order" rate? When requesting the club rates, is the registration based on the club callsign or any one callsign or each of the callsigns, i.e., is there only one V# issued for the club rate or is each person issued their own V#?

Thank you for your help.

Steve KC6WCH

---

138. ooops...slight goof

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 06 Dec 1996 13:47:23 -0500
To: aprssig@tapr.org
Message-ID: <32A86A3B.1834@co.pinellas.fl.us>
Rendered body type: text/plain

```
For those who were interested ref the EAGLE and the Pinellas County
Florida Sheriff's Office, our home page is actually:

http://www.co.pinellas.fl.us/sheriff/index.html

I left the "us" off the original post....thanks
--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

139. Re: [APRSSIG:7006] Re: Flight of the EAGLE

From: Paul Stump <n0lrf@computer-services.com>
Date: Fri, 06 Dec 1996 13:18:15 -0600
To: aprssig@tapr.org
Message-ID: <32A87177.7091@computer-services.com>
Rendered body type: text/plain

```
> When I did a REPLAY on my home WinAPRS setup..the helicopter was only
> seen as a DOT..Not a helicopter as expected..since this is a stand alone
> tracker setup on the copter, is there a way for something to be put into
> the beacon strings which works for both the DOS and WIN versions so that
> the helicopter symbol is seen by all no matter which operating system
> version one is using??

You might try adding -6 to the end of your MYCALL.
Or, as the first three charactors of your BTEXT, use {X}.
```

140. A/Navy FBALL run underway

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 6 Dec 1996 15:07:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961206150417.26254B-100000@arctic>
Rendered body type: text/plain

```
We are using the path of RELAY,WIDE,WIDE on 145.79 MHz and hope that we
can work around the failed digipeater at Elk Neck (WB4APR-11).  Football
should arrive in Philly at 0700 tomorrow AM.  In anycase, if you have a
UHF scanner that can hear frequencies in the range of 260 MHz, then you
should be able to hear the packets direct, anywhere in the country.
Contact me for details...
```

141. Re: [APRSSIG:7008] ooops...slight goof

From: Neil Lauritsen <scout@gte.net>
Date: Fri, 06 Dec 1996 17:08:53 -0500
To: aprssig@tapr.org
Message-ID: <32A89974.674E@gte.net>
Rendered body type: text/plain

```
Kevin Heyboer wrote:
>
> For those who were interested ref the EAGLE and the Pinellas County
> Florida Sheriff's Office, our home page is actually:
>
> http://www.co.pinellas.fl.us/sheriff/index.html

Correction: "http://circuit6.co.pinellas.fl.us/sheriff.html"

Neil - KA3DBK
EC Pinellas Co. FL. ARES
ka3dbk@w4dph.#tpa.fl.usa.na
email - "scout@gte.net"
Web Page(s) - "http://home1.gte.net/scout/index.htm"
Home Phone (813)441-3954
Sysop - ARES/RACES BBS!
        (813)464-5279
        (813)464-5280
```

142. AEA Again

From: James Kerns <jkerns@usit.net>
Date: Fri, 6 Dec 1996 17:38:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612062238.RAA08446@smtest.usit.net>
Rendered body type: text/plain

Awhile back there was comments on
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

143. AEA Again

From: James Kerns <jkerns@usit.net>
Date: Fri, 6 Dec 1996 17:38:06 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612062238.RAA08450@smtest.usit.net>
Rendered body type: text/plain

Awhile back rgere were numerous msgs passed around about AEA going out of business. Naturally my AEA 232MBX just bit the dust. Called factory got phone been disconnected. Their Home Web Page doent answer.

Anyone on SIG know who they left to do their repairs?

Thanks for any help.
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

144. Re: [APRSSIG:7009] Re: Flight of the EAGLE

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 06 Dec 1996 18:05:37 -0500
To: aprssig@tapr.org
Message-ID: <32A8A6C0.1AEF@co.pinellas.fl.us>
Rendered body type: text/plain

Since the callsign of the Eagle was not an amateur call, no SSID was attached to it...we used the dosAPRS convention of placing the helicopter symbol in the btext, ie {X}....I do not know if this will work in the windows version...or perhaps you never received the btext as the path that went out wide,gate,gate,wide did not include that......

```
--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

145. Re: [APRSSIG:6914] Tripmate GPS unit

From: Bill Kearns <billk@inland.net>
Date: Fri, 6 Dec 1996 15:22:58 -0800
To: aprssig@tapr.org
Message-ID: <199612062322.PAA09341@ns1.inland.net>
Rendered body type: text/plain

Hello,

After reading about the Tripmate so much on the SIG. I finally broke down and bought the Delorme Tripmate at Computer City for $129.95. Seems to be a stout little unit....now to hook it up to my PacComm (mobile tracker). What we need here on this SIG are a couple of on-going manuals for newbies (and everyone else) to refer to when assembling their mobile trackers. I'll stick my neck out and get this one started and I'd sure appreciate it if some of you WIZZ_BANGS out there would critique my notes and re-edit and re-post this manual giving me (and everyone else) advice and corrections where needed.

PacComm Pinout:
Pin #1 Mike Audio
Pin #2 Ground
Pin #3 PTT
Pin #4 Recieve Audio
Pin #5 Squelch Input

TripMate Pinout:
Pin #1   nc

```
Pin #2       RX --Black wire
Pin #3       TX --Brown wire
Pin #4       DTR--Red wire, assert to turn on
Pin #5       GND--Orange wire, connects to GND of power
Pin #6       nc
Pin #7       nc
Pin #8       nc
Pin #9       RI --Yellow wire--goes to center pin of Power Connector.
                (Special thnx to Gould Smith WA4SXM for the above pinout)
```

```
Okay now for the interface. As I see it...
Tripmate- Pin #3 goes to PacComm  Pin #4  (tx to receive audio)
PacComm-- Pin #1 goes to Tripmate Pin #2  (mic audio to rx)
Tripmate  Pin #5 goes to PacComm  Pin #2  (ground to ground)
```

Is this how you see it? Assuming im using a separate power source for the Tripmate these are the only connections between the two units. (correct?)

```
Now for the software commands:  (TNC baud rate must be set to 4800)
                                (Commands listed below are variable..)

mycall        callsign-9
btext         "AnyHAM's Mobile Tracker"
location      every 1
beacon every  60
unproto       aprs via wide,wide
gps           on
```

I need the "ini" command for the tripmate and the TNC command to load it in.
Also FYI, DeLorme sells a Tripmate power adapter kit for about 39 dollars...
....goes into a cigarette lighter or your laptop. 1-800-452-5931.

Ps. In case anyone wants to call the above number and order a TripMate for $125.00 plus 5 shipping... here is the number off the back of my "Street Atlas USA" ver 4.0   700709   I don't know how many of you can order a tripmate using that number but at least one of you will. (the first one!) remember...these guys manning the phones are more than likely working on a commission and would love to have your business!!!   Good Luck!!

```
                Bill Kearns WB6JAR
                   909-678-6228

                      /// \\\
                    ///// \\\\\
                    (  0   0  )
-------------------oOO--(_)--OOo------------------
```

146. Re: [APRSSIG:7011] Re: ooops...slight goof

From: ttyamada@CCGATE.HAC.COM
Date: Fri, 06 Dec 96 15:37:05 PST8
To: aprssig@tapr.org
Message-ID: <9611068499.AA849916520@CCGATE.HAC.COM>
Rendered body type: text/plain

The one below didn't work, would you mean:
     http://circuit6.co.pinellas.fl.us/sheriff/specops.htm
     or
     http://circuit6.co.pinellas.fl.us/sheriff/index.htm
     ???

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7011] Re: ooops...slight goof
Author: aprssig@tapr.org at CCGATE
Date: 12/6/96 2:49 PM

Kevin Heyboer wrote:

>
> For those who were interested ref the EAGLE and the Pinellas County
> Florida Sheriff's Office, our home page is actually:
>
> http://www.co.pinellas.fl.us/sheriff/index.html

Correction: "http://circuit6.co.pinellas.fl.us/sheriff.html"

```
Neil - KA3DBK
EC Pinellas Co. FL. ARES
ka3dbk@w4dph.#tpa.fl.usa.na
email - "scout@gte.net"
Web Page(s) - "http://home1.gte.net/scout/index.htm"
Home Phone (813)441-3954
Sysop - ARES/RACES BBS!
        (813)464-5279
        (813)464-5280
```

147. Re: [APRSSIG:7015] Re: Tripmate GPS unit

From: Dick Mead <mead@hamal.usc.edu>
Date: Fri, 6 Dec 96 15:55:32 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.849916532.mead@hamal.usc.edu>
Rendered body type: text/plain

```
...snip..

>
> Okay now for the interface. As I see it...
> Tripmate- Pin #3 goes to PacComm  Pin #4  (tx to receive audio)
> PacComm-- Pin #1 goes to Tripmate Pin #2  (mic audio to rx)
> Tripmate  Pin #5 goes to PacComm  Pin #2  (ground to ground)
>
> Is this how you see it?  Assuming im using a separate power source for the
> Tripmate these are the only connections between the two units. (correct?)
>
>
>

I don't think you want to connect your Tripmate to the Radio port
of the TNC. You want the gps or terminal port.

Dick  WB6NGC
```

148. Re: [APRSSIG:7013] AEA Again

From: Bob Lorenzini <hwm@netcom.com>
Date: Fri, 6 Dec 1996 16:09:36 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961206160735.88C-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
On Fri, 6 Dec 1996, James Kerns wrote:

> Awhile back rgere were numerous msgs passed around about AEA going out of
> business.  Naturally my AEA 232MBX just bit the dust.  Called factory got phone
> been disconnected.  Their Home Web Page doent answer.
>
> Anyone on SIG know who they left to do their repairs?
>
> Thanks for any help.
> Jim Kerns
> N4PUQ
> jkerns@usit.net
> Oliver Springs, Tn.
> (just outside Oak Ridge where everyone glows in the dark!!)

  I don't know what your symtoms are, but the 232 is notorious for the
screw holding down the voltage regulator coming loose from heat cycling.
That regulator gets very warm.

Bob - wd6dod
```

149. Re: [APRSSIG:7004] Re: DeLorme Tripmate

From: bobj <bobj@tiac.net>
Date: Fri, 06 Dec 1996 19:29:04 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961207002904.0090f748@tiac.net>
Rendered body type: text/plain

```
At 10:38 AM 12/6/96 -0600, you wrote:
>Joe Scalet <jscalet@dound.net> wrote
>
>>I'm a registered user of Delorme products but did not get an upgrade
>>flier prior to reading about it on this sig. I called them and got the
>>BE32 code for upgrade, sent them a check on 11/25/96 and recieved the
>>package on 12/5/96. So far I'm impressed with the service and the unit.
```

>>Its my fourth GPS, each one has been better and cheaper. There's no such
>>thing as too many toys.
>>
>Well I just got mine yesterday. It installed fine on the home computer but
>was touch and go on my laptop. Delorme says use a minimum of a 486DX with 8
>meg memory and 10 meg swapfile. I've got it running (S L O W L Y) on a
>386SX25 running Win 3.1 with 4 meg ram, corrupt swapfile, broken trackball
>and a pretty full compressed 80 meg harddrive. Its amazing it works at all.
>Next comes wiring up a regulator for the GPS. The 386 package takes forever
>to boot and initialize, so I plan on leaving the whole works powered up most
>of the time..
>
>John Kozak; N3AGG
>jkozak@erols.com
>
Got mine a few days after the flyer arrived.. Gee Whiz it works GUD!
Now, any way of getting it to work with APRS? Init strings to feed it?.. Who
makes the board...... etc...

   DE N1EUY

Bob Johnson

Billerica, MA

---

150. Re: [APRSSIG:6995] Re: APRS From TX

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Fri, 06 Dec 1996 18:39:15 -0800
To: aprssig@tapr.org
Message-ID: <32A8D8D2.6EAD@n-link.com>
Rendered body type: text/plain

dkaszubski wrote:
>
> Tommie Taylor wrote:
> >
> > Can anyone see us on there APRS Screen..
> > KC5UJH
> > We run ours here in Lampasas, TX 24hrs a day..
>
> We see you in the Dallas-Fort Worth area most of the time.
>
> --
> Dave Kaszubski   WB3FYV
> dkaszubski@why.net   also: ustuia6v@ibmmail.com
> Benbrook, Texas N 32 40.319'   W 097 26.844'
>
> President of the   Texas Utilities Amateur Radio Club,
>   Comanche Peak Chapter
> Affiliated with RACES, ARES, TAPR, ARRL, SWOT, TPRS, Texas VHF FM Society
> Still experimenting with APRS...
> http://users.why.net/dkaszubski/
I think I remember seeing yours on my Screen...
Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http:\\www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691   This is also a FAX Request line

---

151. KPC3 - Tripmate

From: Demos Doulou <ddoulou@gte.net>
Date: Fri, 06 Dec 1996 19:58:11 -0500
To: aprssig@tapr.org
Message-ID: <32A8C123.7E73@gte.net>
Rendered body type: text/plain

Has anyone sucesfully interfaced the Tripmate with a KPC3?

Demos KR4US
ddoulou@amsat.org

---

152. Re: [APRSSIG:7013] AEA Again

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Fri, 06 Dec 1996 16:59:19 -0800
To: aprssig@tapr.org
Message-ID: <32A8C167.47B6@ix.netcom.com>

Rendered body type: text/plain

```
James Kerns wrote:
>
> Awhile back rgere were numerous msgs passed around about AEA going out of
> business.  Naturally my AEA 232MBX just bit the dust.  Called factory got phone
> been disconnected.  Their Home Web Page doent answer.
>
> Anyone on SIG know who they left to do their repairs?
>
> Thanks for any help.
> Jim Kerns
> N4PUQ
> jkerns@usit.net
> Oliver Springs, Tn.
> (just outside Oak Ridge where everyone glows in the dark!!)


KB6LFM WRITES:

To my knowledge (which is limited) AEA has made NO arrangements with
anyone to repair there products... We are on our own Jim.

73 de Bill/LFM
```

153. Re: [APRSSIG:7016] Re: ooops...slight goof

From: Neil Lauritsen <scout@gte.net>
Date: Fri, 06 Dec 1996 20:08:42 -0500
To: aprssig@tapr.org
Message-ID: <32A8C39A.C5E@gte.net>
Rendered body type: text/plain

```
ttyamada@CCGATE.HAC.COM wrote:
>
>      The one below didn't work, would you mean:
>      http://circuit6.co.pinellas.fl.us/sheriff/specops.htm
>      or
>      http://circuit6.co.pinellas.fl.us/sheriff/index.htm
>      ???

yes..Thanks!
--
Neil - KA3DBK
EC Pinellas Co. FL. ARES
ka3dbk@w4dph.#tpa.fl.usa.na
email - "scout@gte.net"
Web Page(s) - "http://home1.gte.net/scout/index.htm"
Home Phone (813)441-3954
Sysop - ARES/RACES BBS!
        (813)464-5279
        (813)464-5280
```

154. Re: [APRSSIG:7017] Re: Tripmate GPS unit

From: Bill Kearns <billk@inland.net>
Date: Fri, 6 Dec 1996 17:09:36 -0800
To: aprssig@tapr.org
Message-ID: <199612070109.RAA12451@ns1.inland.net>
Rendered body type: text/plain

```
Dick,

        the object is to have a complete manual...please edit the area that
needs correcting....this way we can maintain a complete manual instead of
several upon several corrective messages...simply edit the manual and repost
it....no snips.....

                Bill Kearns WB6JAR
                   909-678-6228

                      /// \\\
                    ///// \\\\\
                    (  0   0  )
-------------------oOO--(_)--OOo------------------
```

155. Re: [APRSSIG:7017] Re: Tripmate GPS unit

From: Bill Kearns <billk@inland.net>
Date: Fri, 6 Dec 1996 17:13:20 -0800
To: aprssig@tapr.org

Message-ID: <199612070113.RAA12536@ns1.inland.net>
Rendered body type: text/plain

```
slight goof on my part....showed the radio port instead of the rs-232
port....oh well....long day....(been up since 4:00am)...sorry

                Bill Kearns WB6JAR
                   909-678-6228

                      /// \\\
                    ///// \\\\\
                    (  0   0  )
-------------------oOO--(_)--OOo------------------
```

---

156. Re: [APRSSIG:7024] Re: Tripmate GPS unit

From: Dick Mead <mead@hamal.usc.edu>
Date: Fri, 6 Dec 96 17:31:48 PST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.849922308.mead@hamal.usc.edu>
Rendered body type: text/plain

```
> Dick,
>
>       the object is to have a complete manual...please edit the area that
> needs correcting....this way we can maintain a complete manual instead of
> several upon several corrective messages...simply edit the manual and repost
> it....no snips.....
>
>                 Bill Kearns WB6JAR
>                    909-678-6228
>
>                       /// \\\
>                     ///// \\\\\
>                     (  0   0  )
> -------------------oOO--(_)--OOo------------------
>
>
>

Well, if I had my Tripmate and associated TNC I would have. Since I
don't, the object was to point out a possible error.

Dick WB6NGC
```

---

157. Re: [APRSSIG:7021] KPC3 - Tripmate

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Fri, 06 Dec 1996 18:52:56 -0800
To: aprssig@tapr.org
Message-ID: <32A8DC08.2781@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
Demos Doulou wrote:
>
> Has anyone sucesfully interfaced the Tripmate with a KPC3?
>
> Demos KR4US
> ddoulou@amsat.org
 Hope to do so this weekend.  I see no problems at all in doing so. Just
have the KPC-3 send the ASTRAL string to the Tripmate using the GPS INIT
string command of the KPC-3.
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  M/S: 264-580
 Voice: +1-818-393-1214            |  4800 Oak Grove Drive
 Pager: +1-818-423-2062            |  PASADENA CA 91109
```

---

158. Re: [APRSSIG:7017] Re: Tripmate GPS unit

From: Bill Kearns <billk@inland.net>
Date: Fri, 6 Dec 1996 17:35:12 -0800
To: aprssig@tapr.org
Message-ID: <199612070135.RAA13175@ns1.inland.net>
Rendered body type: text/plain

```
ahhhHA!!

        shoot,,,after looking in 2 paccomm manuals...i cant find a pinout for
the DB-9 connecter. so i am borrowing one from the kantronics manual...

is this correct??
```

PacComm DB-9 Pinout:
Pin #1 audio
Pin #2 xcd (squelch)
Pin #3 PTT
Pin #4 nc
Pin #5 RX audio
Pin #6 GND
Pin #7 +12v
Pin #8 nc
Pin #9 GND

now....back to editing the manual and thanks to Dick Mead for pointing that out.... (i gotta get some sleep!!)

```
                Bill Kearns WB6JAR
                   909-678-6228

                      /// \\\
                    ///// \\\\\
                    (  0   0  )
-------------------oOO--(_)--OOo------------------
```

159. RE:Tripmate GPS unit

From: Bill Kearns <billk@inland.net>
Date: Fri, 6 Dec 1996 17:41:00 -0800
To: aprssig@tapr.org
Message-ID: <199612070141.RAA13626@ns1.inland.net>
Rendered body type: text/plain

Hello, this is the revised edition of the manual....any more mistakes?? feel free to criticize or edit...just repost it....

After reading about the Tripmate so much on the SIG. I finally broke down and bought the Delorme Tripmate at Computer City for $129.95. Seems to be a stout little unit....now to hook it up to my PacComm (mobile tracker). What we need here on this SIG are a couple of on-going manuals for newbies (and everyone else) to refer to when assembling their mobile trackers. I'll stick my neck out and get this one started and I'd sure appreciate it if some of you WIZZ_BANGS out there would critique my notes and re-edit and re-post this manual giving me (and everyone else) advice and corrections where needed.

PacComm DB-9 Connecter Pinout:
Pin #1 audio
Pin #2 xcd (squelch)
Pin #3 PTT
Pin #4 nc
Pin #5 RX audio
Pin #6 GND
Pin #7 +12v
Pin #8 nc
Pin #9 GND

TripMate Pinout:
Pin #1   nc
Pin #2   RX --Black wire
Pin #3   TX --Brown wire
Pin #4   DTR--Red wire, assert to turn on
Pin #5   GND--Orange wire, connects to GND of power
Pin #6   nc
Pin #7   nc
Pin #8   nc
Pin #9   RI --Yellow wire--goes to center pin of Power Connector.
(Special thnx to Gould Smith WA4SXM for the above pinout)

Okay now for the interface. As I see it...
Tripmate- Pin #3 goes to PacComm Pin #5 (tx to receive audio)
PacComm-- Pin #1 goes to Tripmate Pin #2 (mic audio to rx)
Tripmate Pin #5 goes to PacComm Pin #6 (ground to ground)

Is this how you see it? Assuming im using a separate power source for the Tripmate these are the only connections between the two units. (correct?)

Now for the software commands: (TNC baud rate must be set to 4800)
(Commands listed below are variable..)

```
mycall        callsign-9
btext         "AnyHAM's Mobile Tracker"
location      every 1
beacon every  60
unproto       aprs via wide,wide
gps           on
```

I need the "ini" command for the tripmate and the TNC command to load it in.
Also FYI, DeLorme sells a Tripmate power adapter kit for about 39 dollars...
....goes into a cigarette lighter or your laptop. 1-800-452-5931.

Ps. In case anyone wants to call the above number and order a TripMate for
$125.00 plus 5 shipping... here is the number off the back of my "Street
Atlas USA" ver 4.0   700709   I don't know how many of you can order a
tripmate using that number but at least one of you will. (the first one!)
remember...these guys manning the phones are more than likely working on
a commission and would love to have your business!!!   Good Luck!!

```
                Bill Kearns WB6JAR
                   909-678-6228

                      /// \\\
                    ///// \\\\\
                    (  0   0  )
-------------------oOO--(_)--OOo------------------
```

160. Re: [APRSSIG:7019] Re: DeLorme Tripmate

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Fri, 6 Dec 96 21:10:47 EST
To: aprssig@tapr.org
Cc: Who@hardees.rutgers.edu, <jscalet@dound.net>
Message-ID: <CMM-RU.1.5.849924647.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> At 10:38 AM 12/6/96 -0600, you wrote:
> >Joe Scalet <jscalet@dound.net> wrote
> >
> Now, any way of getting it to work with APRS? Init strings to feed it?..

WinAPRS and MacAPRS will have full support for the Tripmate in the next
release. (The code is already done and tested)
(This was announced a couple days before thanksgiving, but, due to all
of the other things going on at that time, you probably missed it).

I got a chance to play with one while in Texas visiting my dad and wrote
the code to support it..   I really liked the unit and promptly ordered
my one.. I just got my early this week.

> Who makes the board...... etc...

The board is made by Rockwell

This can be determined by the use of the $PRWxxx stuff in the NMEA data..

In 'NMEA-SPEAK', data sentences that start with $P are PROPRITARY
and the following two letters indicate the manufacturer.

i.e. $PRWxxx = ROCKWELL

Keith Sproul

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

161. Re: [APRSSIG:7028] Re: Tripmate GPS unit

From: Robert Winingham <kc5ejk@onramp.net>
Date: Fri, 6 Dec 1996 20:26:03 -0600

To: aprssig@tapr.org
Message-ID: <v03007800aece805fd623@[199.1.11.146]>
Rendered body type: text/plain

```
TripMate Pinout:
Pin #1  nc
Pin #2  RX --Black wire     (jump pin 2 to pin 3)
Pin #3  TX --Brown wire     (this wire to TNC)
Pin #4  DTR--Red wire, assert to turn on
Pin #5  GND--Orange wire, connects to GND of power
                            (and RS-232 Ground to TNC)
```

Jump and Tripmate pin-2 to Tripmate pin-3 and forget any init
strings. OK to leave connected after the Tripmate see's its own
output and auto-starts.

Run the Tripmate pin-3 (TX) to the TNC or APRS computer RS-232 input pin.
(no connection to TNC or APRS computer RS-232 output pin.)

Connect Tripmate pin-5 (gnd) to TNC or APRS computer RS-232 ground pin.

Connect Tripmate pin-4 (DTR) to TNC or APRS computer RS-232 DTR pin or
a RS-232 output that comes on when the TNC or computer is on.

Note to Bill, the RADIO I/O ports are your problem
and not part of the Tripmate manual.
Don't make ANY tripmate connections to the TNC RADIO port.
I have now seen two posting that are wrong !

I have the Tripmate and SA4 software running on my MAC, but I need
20 MEGS for Softwindows and I still get a few crashes.

I have tried Tripmate with MACaprs and it works.
I even see all 12 satellites in the display window.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

162. Re: [APRSSIG:7010] A/Navy FBALL run underway

From: Robert Jordan <n5rkn@apex2000.net>
Date: Fri, 06 Dec 1996 20:40:13 -0600
To: aprssig@tapr.org
Message-ID: <32A8D90D.47A8@apex2000.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> We are using the path of RELAY,WIDE,WIDE on 145.79 MHz and hope that we
> can work around the failed digipeater at Elk Neck (WB4APR-11). Football
> should arrive in Philly at 0700 tomorrow AM. In anycase, if you have a
> UHF scanner that can hear frequencies in the range of 260 MHz, then you
> should be able to hear the packets direct, anywhere in the country.
> Contact me for details...

I must have missed the original msg relating to this. But, I do have
260MHz capability on receive. What exact freq?
Robert

163. Re: [APRSSIG:7027] Re: KPC3 - Tripmate

From: Demos Doulou <ddoulou@gte.net>
Date: Fri, 06 Dec 1996 22:45:20 -0500
To: aprssig@tapr.org
Message-ID: <32A8E850.F69@gte.net>
Rendered body type: text/plain

Randy Hammock wrote:
>
> Demos Doulou wrote:
> >
> > Has anyone sucesfully interfaced the Tripmate with a KPC3?
> >
> > Demos KR4US
> > ddoulou@amsat.org
> Hope to do so this weekend. I see no problems at all in doing so. Just
> have the KPC-3 send the ASTRAL string to the Tripmate using the GPS INIT
> string command of the KPC-3.
> --
>

Well I did it. You need to install r48 in the KPC3 to force the DTR line
high so the tripmate will turn on. Then set gpsint to ASTRAL. Connect
the two with a NULL modem cable and your set. Now if I can just find
out why the tripmate has stopped sending GGA strings.

Demos KR4US
ddoulou@amsat.org

164. GPS 25 mcx conn...

From: Paul Stump <n0lrf@computer-services.com>
Date: Fri, 06 Dec 1996 22:50:03 -0800
To: aprssig@tapr.org
Message-ID: <32A9139B.45EE@computer-services.com>
Rendered body type: text/plain

Why did I buy those $6.00 MCX connectors, when all I had
to do was VERY GENTLY pry the MCX connector off the board?
Use a small screwdriver very slowly & DON'T pull up the
circuit traces. A magnifier lamp is good for those of us
in the bifocal age.

I then stripped & soldered abt four inches of RG 316 to the
exposed pads. Crimped a female BNC, bulkhead, connector to
the other end. Drill & mount the BNC in the mini-box & you're
rolling.

Works great! Should work on the GPS 20 board as well...
--
73, Paul, n0lrf@computer-services.com

165. Re: [APRSSIG:7016] Re: ooops...slight goof

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 07 Dec 1996 04:28:20 -0500
To: aprssig@tapr.org
Message-ID: <32A938B3.2276@co.pinellas.fl.us>
Rendered body type: text/plain

ttyamada@CCGATE.HAC.COM wrote:
>
>   The one below didn't work, would you mean:
>   http://circuit6.co.pinellas.fl.us/sheriff/specops.htm
>   or
>   http://circuit6.co.pinellas.fl.us/sheriff/index.htm
>   ???
>
> ______________________________ Reply Separator _________________________________
> Subject: [APRSSIG:7011] Re: ooops...slight goof
> Author: aprssig@tapr.org at CCGATE
> Date: 12/6/96 2:49 PM
>
> Kevin Heyboer wrote:
> >
> > For those who were interested ref the EAGLE and the Pinellas County
> > Florida Sheriff's Office, our home page is actually:
> >
> > http://www.co.pinellas.fl.us/sheriff/index.html
>
> Correction: "http://circuit6.co.pinellas.fl.us/sheriff.html"
>
> Neil - KA3DBK
> EC Pinellas Co. FL. ARES
> ka3dbk@w4dph.#tpa.fl.usa.na
> email - "scout@gte.net"
> Web Page(s) - "http://home1.gte.net/scout/index.htm"
> Home Phone (813)441-3954
> Sysop - ARES/RACES BBS!
>   (813)464-5279
>   (813)464-5280
>

Well....we will get it right sooner or later...., it is either:

http://circuit6.co.pinellas.fl.us/sheriff/index.htm

or

http://www.co.pinellas.fl.us/sheriff/index.htm pls note its note ".html" which always confuses me anyway

```
--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

---

166. Bob WD6DOD

From: James Kerns <jkerns@usit.net>
Date: Sat, 7 Dec 1996 08:16:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612071316.IAA22408@smtest.usit.net>
Rendered body type: text/plain

Bob I'll check that screw, thenks. When I turn on 232 the STA light lights and NOW ocassionally the baudot light, when I hit enter to make TNC talk to computer the goes to the CON instead of PCK as it used to. (using PKRATT) Ocassionaly now BAUDOT never come on and light goes to CON instead of PKT and program aborts.

Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

---

167. Tripmate -- MIM Module

From: Robert J Manak <rmanak@execpc.com>
Date: Sat, 07 Dec 1996 09:06:03 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19961207150603.006f19a0@mail.execpc.com>
Rendered body type: text/plain

Has anyone successfully interfaced the Tripmate with a MIM Module? This could make a nice small tracking package.

73 bob
aa9jw@amsat.org

---

168. Re: [APRSSIG:7034] GPS 25 mcx conn...

From: clark@tomcat.gsfc.nasa.gov
Date: Sat, 07 Dec 96 16:09:02 UTC
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <10752@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

I sure don't recommend removing the MCX connector from a PCB! Remember that those are multi-layer circuit boards and they are easy to damage. It takes less than 5 minutes to put an MCX connector on a piece of cable even without fancy tools.

73, Tom

---

169. Re: [APRSSIG:7036] Bob WD6DOD

From: Bob Lorenzini <hwm@netcom.com>
Date: Sat, 7 Dec 1996 09:32:47 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961207093014.214E-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

On Sat, 7 Dec 1996, James Kerns wrote:

> Bob I'll check that screw, thenks. When I turn on 232 the STA light lights
> and NOW ocassionally the baudot light, when I hit enter to make TNC talk to
> computer the goes to the CON instead of PCK as it used to. (using PKRATT)
> Ocassionaly now BAUDOT never come on and light goes to CON instead of PKT
> and program aborts.

The screw is not your problem then. I would try resetting the tnc and reseating any socketed chips. It sounds like it still alive but confused.

Bob - wd6dod

170. RE: [APRSSIG:7028] Re: Tripmate GPS unit

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Sat, 7 Dec 1996 13:41:30 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBE444.5E55A200@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Friday, December 06, 1996 2:48 PM, Bill Kearns[SMTP:billk@inland.net]
wrote:
>ahhhHA!!
>
>       shoot,,,after looking in 2 paccomm manuals...i cant find a pinout for
>the DB-9 connecter. so i am borrowing one from the kantronics manual...
>
>is this correct??
>
>PacComm DB-9 Pinout:
>Pin #1 audio
>Pin #2 xcd (squelch)
>Pin #3 PTT
>Pin #4 nc
>Pin #5 RX audio
>Pin #6 GND
>Pin #7 +12v
>Pin #8 nc
>Pin #9 GND
>
>now....back to editing the manual and thanks to Dick Mead for pointing
that
>out.... (i gotta get some sleep!!)
>
>                Bill Kearns WB6JAR
>                   909-678-6228
>
>                     /// \\\
>                   ///// \\\\\
>                   (  0   0  )
>-------------------oOO--(_)--OOo------------------
```

You really ought to get some sleep! Tell me which PacComm product manual
you have and I'll tell you which page number to turn to. The above is NOT
our pinout!

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com
Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(B<2`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"``````@`"```$$
MD 8`# $```$````,`````P``, (````+``\.```````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510``````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<```````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $`````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'``````P``.0``````+`$ Z`0````(!]@\!`````! ``
M``````(1+@$$@ $`*0```%)%.B!;05!24U-)1SHW,#(X72!293H@5')I<&UA
M=&4@1U!3('5N:70`+@P!!8 #``X```#,!PP`!P`-``"D``'@`&`$ !`2" `P`.
M````S <,``<`#0`H``0`!@`E`0$)@ $`(0```# Y-#DQ1C9$,S4U,$0P,3$X
M,$0U,# T,# U,CE"0T0W`-\&`0.0!@#T!0``%  ````L`(P```````P`F````
M```+`"D```````,`+@````````P`V```````! `#D`0%,M0V[DNP$>``' ``0``
M``D```!213H@6T%04E-324<Z-S R.%T@4F4Z(%1R:7!M871E($=04R!U;FET
M```````(!<0`!````%@````&[Y&Y"X6T?20I0-1'0@-4`0 4IO-<``!X``'@P!
M````!0```%--5% ```````'@`?# $`````1````9W=Y;D!P86-C;VUM+F-O;0``
M````#``80MY[F@P,`!Q#>`@```'@`($`````!E````3TY&4DE$$05DL1$5#14U"
M15(P-BPQ.3DV+"CHT.%!-+$)))3$Q+14%23E-;4TU44#IB:6QL:T!I;FQA;F0N
M5%=23U1%.D%(2$A!(05-(3T]4+"PL049415(@3$]/2TE.1R!)3B R(%!!0T-/
M`0D0`0````%@$``!4!`J@L``$Q:1G4%X'M_P`*`0\"%0*D#^0`^0%ZP*#`%3
M`U0"`&-H"L!S$S971N,@8`!L,"@S$1@<+(U(<3$@"%4`@S,$Q@S;/$@Q("0,@S(,]$
M-!3!Q,"@XU%H3T!6O9C84QQ&UNC 7IGT*@ C/"=D['-\(,3(X'?]E,C4U
M#P* "H$-L0M@;F<Q,(8S%+ +`VQI,S8-\)<+51;"# %C$N @3P.@`D8%$&1A
M>2P@1(T%D&4&T 20(# V) ``,3DY-B R.C30."!0320,0`0@,0`R ,2V4*P "
```

```
M6U--5,A0.F(EX6M "X A$8AD+FX2`%T@=P-@Z'1E.@J$/@M&%+(C`Y<`4!.@
M*"%C!4!A:"J0L$A!(2$*A")/,BC/'RG8*P\L'RTO#((@<VCJ;R@@+#(`80&
M)($<<&1O:PN 9R +@"4P($4*L&,%H&UM( .!=8D'0',N-%!I(&,`</4%0&8+
M@&0J<#-0"X (8!\TT06Q+C\O3S!?('1HXF4D$$(M.320`B GL.LJ4 20+C&@
M;S,`*G SP/T&X'(#8 /P,N$"(#EP`U+=.4-K-+$#8 ,`8P0@,^3_-%$V'S<O
M.#\]SS[?/^\S`#\$(#E01#$%H1S@*E _/_] _T(/0Q]%3T9?1V\E@ #0]PA0
M,[$YDU U<RA52-])[PM*^S,1(Q/0875D:3YO3/].#T\?4"02('AC434@*'-Q
M"E!L$; I+U#_4@]3'U D,R6 5%0/57]6CU>?4"0T(&YCKUE?6F];?U D-0?P
M6%"?CUW?7N]/RB4@1TY$85]'8F]C?U D-R K'Q!V_V4_9D]G7U D)7!=#VH?
M:R__4 8YP&4/;=]N[TA/<;]RSTLJ0C6 =S11+F(`T&OG.4 ZH F :70RTCE2
M,^1O*G U$3E0`'!K1$$ZH$0[//!WX$TF,#4@-=)P;_L+@'AE805 = ]U'W8O
M.Z#O-:!W<E30-(!G*" !D'_@KQ(`.H$'@#&@; G@<"K@_U5O?0]^'W/_@F^#
M?P5 A\X!)=D@5T(V2D%2'X2?A:^&OX?/C5$Y,#G0+38W.(Z0,A\@B?__BP^,
M'XU?DOB/+Y _D4^2__V7E"^8H ,PF..4#Y4?EB__EY^899BWF0^:'YLOG#^B
M-OXHHC ;<*-3@5^?SZ#?!4!"+:<_+6]/3Z=0**Q?*:=0J'!OIU\MH_:O(;\B
MR9/U"H59"& @'.#)!T!L>7\Q9V@Y,3J@N8!=(%15( ,@@+%W1'!G$;!+IRH!
M9'4J47CU>9NM@1' =CEP>6)))R7Q?R@P)?&R`K T"K" 4&S =7LD8W@!= AP
M`Z!X`#IP5!LY80&@;[)A1#%.3U1_?S%[`35S*O6LJ@K[&%(Q46C 1W=Y`Z!2
M">!DP2/Q5S%"14P*A4NV=4NQ:X!A4GJP83 2,7.I*#!M<ZRK9[G!0#-ECBXS
MD0J%KE!T<#J8H/IWOZ NOA\*A LW&F(!T'VYKTRZ[[O^ON^^**S$?0''D ,`
M$! ``````P`1$ ````! ``<P0+NM#V[DNP% ``@P0+NM#V[DNP$>`#T``0``
7``4```!213H@``````,`#33]-P``6=SD
`
end
```

---

171. Re: Win95/Java Internet Exporer Question

From: schiers@ames.net
Date: Sat, 07 Dec 96 13:08:12 -0600
To: aprssig@tapr.org
Message-ID: <199512071907.NAA01648@brain.ames.net>
Rendered body type: text/plain

```
In <1.5.4.32.19961207170233.0069fda0@pop3.galesburg.net>, on 12/07/96 at
11:02 AM,
   "Benjamin K. Derry" <derryb@galesburg.net> said:

>Hi. As far as I know Win95 comes with IE 1.0 which doesn't support java.
>Unless they remastered there CD or 3.5" Disks recently to include IE 3.0.


>Ben (N9VPU)

The lastest CD comes with version 3.1 and had good java support. Now, I
need to find why real audio doesn't work. The RA player comes up after I
click on a site with an RA icon, but nothing loads or plays. Anyone have
any suggestions? 73,


hasan schiers, N0AN
-------------------------------------------------------------
schiers@ames.net
-------------------------------------------------------------
```

---

172. Re: [APRSSIG:7041] Re: Win95/Java Internet Exporer Question

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 7 Dec 96 15:11:40 -0000
To: <aprssig@tapr.org>
Message-ID: <199612072011.PAA17668@newworld.bridge.net>
Rendered body type: text/plain

```
>The lastest CD comes with version 3.1 and had good java support. Now, I
>need to find why real audio doesn't work. The RA player comes up after I
>click on a site with an RA icon, but nothing loads or plays. Anyone have
>any suggestions? 73,
>
Buy a Mac!

Steve K4HG
```

---

173. Tripmate first impressions

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 7 Dec 96 15:50:32 -0000
To: <aprssig@tapr.org>
Message-ID: <199612072050.PAA20751@newworld.bridge.net>
Rendered body type: text/plain

```
Well, I went out and got one at Computer City for $149.95, minus a 20
coupon I had from them. DeLorme wouldn't accept my Mac registration
```

number for the direct upgrade.

I had to wire up a cable to the Mac, used the trick of connecting pins 2&3, and worked perfectly.

Cold time to first fix 2 min 10 sec. Sitting on the windowsill. Wow!

This must indeed be a 12 chan parallel receiver with that kind of lock up time. It is also very fast to track turns in the car, none of the lag you see in the single channel multiplexed units like the GPS 20/45/etc.

The unit does not have a clock that runs when the unit is powered down, so each power-up is a cold start...good thing it locks up fast. It does seem to store the last posit and the almanac...most of the startup time seem to be the search for the first sat to get the date/time, then it locks up fast.

The unit also reaquires the signal in a few seconds, again typical of multi channel units, important in a urban setting where signals get blocked by buildings.

Opening it up, the patch antenna is soldered to the top of the metal shielding, it will be tough to attach an external antenna. Lots of room to build in the power supply though. Anybody with a variable voltage power supply tried to see how low the power can go? It'd be nice to run off a simple 5v regulator, but it isn't much tougher to use a variable regulator to get 6v.

In summary, a great GPS for peanuts.

I sure wish I hadn't bought two of the GPS-20's. I'll keep one for the TAC, but if anyone wants to buy one (tested once, otherwise unused with virgin cables) I'll give you a great deal! Maybe for the next purchase TAPR could look into getting some of these Rockwell units. Strip off the software, serial cable, plastic case and antenna and DeLorme can't be paying more than $50 for these units. We couldn't buy as many, but still should be a lot less than the GPS-20.

Steve K4HG

---

174. Re: [APRSSIG:7038] Re: GPS 25 mcx conn...

From: Paul Stump <n0lrf@computer-services.com>
Date: Sat, 07 Dec 1996 15:40:22 -0800
To: aprssig@tapr.org
Message-ID: <32AA0066.4172@computer-services.com>
Rendered body type: text/plain

> I sure don't recommend removing the MCX connector from a PCB!
> Remember that those are multi-layer circuit boards and they are
> easy to damage. It takes less than 5 minutes to put an MCX
> connector on a piece of cable even without fancy tools.
>

Please bear in mind that the connector came off, leaving the traces intact. Like I said, "be slow and careful" -not for the faint of heart...

--
73, Paul, n0lrf@computer-services.com

---

175. Re: [APRSSIG:7043] Tripmate first impressions

From: Mark Humphrey <mark@y100.com>
Date: Sat, 07 Dec 1996 17:47:02 -0500
To: aprssig@tapr.org
Message-ID: <32A9F3E6.7708@y100.com>
Rendered body type: text/plain

Steve Dimse wrote:

> In summary, a great GPS for peanuts.
>

I ordered one a few days ago, haven't received it yet, but I appreciate the good reports!

The big question:
Has anyone taken the Tripmate in an aircraft yet, and does it have an upper speed limit like the Garmin 45? Any comments on the accuracy of the altitude reading?

I'm planning to demonstrate mobile APRS to a friend who is a pilot --
hope the Tripmate will work in place of my Garmin...

73, Mark KE3XY
mark@y100.com

---

176. APRSdos MAP needs

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 7 Dec 1996 17:59:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961207175118.27710A-100000@arctic>
Rendered body type: text/plain

WHile recently going through and re-saving all of my standard distro maps in Compressed format, I noted that some do not meet my current standards for the resons shown. While eventually, I may get around to fixing these, if there is anyone else with the 2,000,000 USGS data that wanted to fix these, then feel free to do so!

Emaps:	NYAlbany	tall format, not wide enough
	NYcentral	sparse
	ONQuebec	very sparse
SEmaps:	ALBrmham	tall format, not wide enough
	LAcentral	tall format, not wide enough
Cmaps:	NDNE	needs labels
	MTwest	needs labels
	NEOmaha	tall format, not wide enough
Wmaps:	NVVegas	tall format, not wide enough

If any of these maps are the only thing that covers your area, lemme know and I can then prioritize my time as to where to start, if no one else does it...

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

177. Re: [APRSSIG:7039] Re: Bob WD6DOD

From: James Kerns <jkerns@usit.net>
Date: Sat, 7 Dec 1996 19:21:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612080021.TAA04995@smtest.usit.net>
Rendered body type: text/plain

Bob how do you reset TNC am I dumb???
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

---

178. Re: KPC3 - Tripmate

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sat, 7 Dec 1996 19:25:48 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961207192550.2fe7b336@mailhost.primenet.com>
Rendered body type: text/plain

At 06:58 PM 12/6/96 -0600, Demos Doulou wrote:

>Has anyone sucesfully interfaced the Tripmate with a KPC3?
>

It <<SHOULD>> work great. The KPC-3 will interface to most NMEA standard GPS units unbuffered. My KPC-3 works fine (with a Magellan Trailblazer XL) just by attaching the NMEA data out (NMEA +) to pin 2 and the NMEA Ground to pin 7 of the KPC-3's serial connector. Of course the Tripmate requires a data input also, this goes to pin 3 on the serial connector. The KPC-3 can then send the proper initiation string to the Tripmate.

WARNING: The KPC-3 provides RS-232 voltage levels. I don't know if the Tripmate GPS can handle that voltage.

Has anyone out there tried it? I assume the Tripmate is robust enough to handle it.

Mark KC7BXS

---

179. Re: [APRSSIG:7045] Re: Tripmate first impressions

From: Demos Doulou <ddoulou@gte.net>
Date: Sat, 07 Dec 1996 21:35:08 -0500
To: aprssig@tapr.org
Message-ID: <32AA295C.5E5@gte.net>
Rendered body type: text/plain

```
Mark Humphrey wrote:
>
> Steve Dimse wrote:
>
> > In summary, a great GPS for peanuts.
> >
>

> The big question:
> Has anyone taken the Tripmate in an aircraft yet, and does it have an
> upper speed limit like the Garmin 45?  Any comments on the accuracy of
> the altitude reading?
>
>

I took a test drive with the Tripmate this weekend.  Excellent unit!!
Sitting on  the dash of my truck I had a lock on 5 or more sats for 80%
of the time and only lost lock for a couple of minutes during a four
hour drive.

Altitude readings were +- 400 ft most of the time and I am at sea
level.  This is the same altitude errors that my Garmin 45 gave me.

Overall a great unit. I will most likely be buying a couple of more.

73

Demos KR4US
Pinellas County Races Radio Officer
ddoulou@amsat.org
```

---

180. Re: [APRSSIG:7029] RE:Tripmate GPS unit

From: rwf <rwf@mindspring.com>
Date: Sat, 07 Dec 1996 22:02:28 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961207214746.0068a760@mindspring.com>
Rendered body type: text/plain

```
Bill-


At 07:56 PM 12/6/96 -0600, you wrote:

<SNIP>

>Okay now for the interface. As I see it...
>Tripmate- Pin #3 goes to PacComm  Pin #5 (tx to receive audio)
>PacComm-- Pin #1 goes to Tripmate Pin #2  (mic audio to rx)
>Tripmate  Pin #5 goes to PacComm  Pin #6  (ground to ground)


GPSs output serial data.  Why are you connecting Serial NMEA GPS data to
the audio inputs/outputs of the TNC? Should go to the RS232 port instead.


<SNIP>

>mycall        callsign-9
>btext         "AnyHAM's Mobile Tracker"
>location      every 1
>beacon every  60
>unproto       aprs via wide,wide



I think that LOC may only be a Pico command.  You are telling the Pico to
begin to transmit your position EVERY 10 SECONDS (or is it 6 seconds- I
forgot) if it doesn't get a position request via HSP from an attached APRS
program.  If you are standalone, you'll be transmitting so often that no
one else will get a packet in edgewise.
```

```
And beaconing a tracker every 10 seconds in any network is sure not gonna
make you very popular!

A path of RELAY,WIDE may work better for your tracker, especailly if your
DIGI is a WIDE-RELAY.  That way, a home station can still digi you too.
Many times, the WIDE will not hear you, but a home station may.


Ralph,  N4NEQ
rwf@mindspring.com
```

---

181. SANTA flight cancelled

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sat, 07 Dec 1996 23:23:49 -0500
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <32AA42D4.46EC@co.pinellas.fl.us>
Rendered body type: text/plain

```
My apologies to all but anyone watching for SANTA to fly aboard N53SD
ASTAR helicopter was sadly dissapointed.  The flight was cancelled due
to an incoming weather front causing a ceiling at or below 1000 feet.

Additionally, due to a minor mechanical function, the ASTAR helicopter
N53SD was replaced by the Bell Jet Ranger N1SD...with no prior planning
on tracker installation so we never got any signals from the tracking
unit.

Maybe next year.....

--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

---

182. 1997 Orlando HamCation & Computer Show

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Sun, 8 Dec 96 01:11 EST
To: aprs-fl@tapr.org
Cc: aprssig@tapr.org
Message-ID: <m0vWcSs-000QdhC@nevets.oau.org>
Rendered body type: text/plain

```
Reserve on your Calendar, February 15 & 16, 1997, for the finest hamfest
in the Southeast:  1997 Orlando HamCation and Computer Show

It has been many months in planning, and I actually feel we have outdone
ourselves.  Our planned Forums will be the best ever, as were fortunate to
have so many excellent volunteers, a star-studded line-up to help make it
possible.  To begin with, our APRS short forums will be from the experts.
Bob Bruninga, WB4APR, will be traveling here from Glen Burnie, Maryland to
present DosAPRS.  Keith Sproul, WU2Z, and Mark Sproul, KB2ICI, will be
joining with us to present MacAPRS and WinAPRS.  Steve Demise, K4HG, has
also promised to come and give us a talk on the Internet version, JavaAPRS.
There will be an APRS Demo Booth in the Commercial area, where attendees
can meet with the experts and obtain instant registrations.  Clustered in
the same area will be the Peet Bros Co. booth displaying home Weather
Stations, Joe Agrelo in person to answer questions about his DFjr and other
new products, along with Dr. Will Clement, manufacturer of MIM Modules.
This is only the beginning.  We have invited a famous NASA Female Astronaut
to speak on Saturday.  Our DX at its best will be the Kermadecs DX Adventure
ZL8RU by Al Hernadez, WA3YVN, a dangerous Polynesian voyage to the South
Pacific to a remote volcanic island.  Emmett Henry, will give a down to
earth type presentation on the Internet and the World Wide Web.  Dust off
that scanner in your closet. Bob Grove, publisher of Satellite Times and
Monitoring Times will be giving a talk or two on Shortwave Listening. If
time permits, he will tell you Who is Where in the Spectrum.  Dr. Leslie
Kramer, WA3SGZ, "Professor", of newly-formed LMARS Ham Radio University
will be leading a Homebrew Ham Radio VHF SWR Meter construction on Sunday
and participants will get to take one home.  We have an Antenna Workshop
forum demonstration of adding elements to Quad and Yagi Antennas - How
many is enough? We will add them till we see diminishing returns. Weather
Fax Image Downloads over the radio using homemade Loop Yagi and Quadrifillar
Antennas will be demonstrated by Jesse Johnson, KB4IVO.  Grounding for
Lightning, How to Do it Right, will be presented by the wireman, Press Jones.
```

At the Radio Evaluation Booth, a Tektronix Communication Test Set, tracable
to the National Bureau of Standards, will scope your radio for output into
a precision load, measure frequency, depth of modulation, receiver sensitivity
and signal to noise ratio in one minute. We will not tune it or fix it, but
will tell you enough about your radio that you will know if it is still at
original company specs. If that is not enough, our Ladies Programs in
the Social Hall will have an interesting set of forums on Saturday morning
and afternoon to keep your Spouse occupied.

Taking place on February 14, 15, and 16, 1997, at the Central Florida
Fairgrounds, 4603 West Colonial Drive, Orlando, Florida, it will begin
on Friday from 5pm to 9pm in the swap table area and end on Sunday at 4pm.

We have planned 150+ Commercial Exhibits, over 500 swap tables, and the
largest tailgate area in Florida. There will be hourly prizes given, and
testing on Saturday and Sunday, and QSL Card Verification. RV Overnight
parking with Electric & Water is available.

A Fox Hunt is planned, with a very nice prize for the winner. Contact
me for further details.

We just began mailing out our flyers on this event. If you do not get
one in a week, send me an email message, or check out our Homepage:

http://www.cycat.com/users/oarc/hamcat.htm

I hope to see you there!

Geoffrey Dick, WA4IKQ
Forums Chairman,
Orlando HamCation and Computer Show
wa4ikq@nevets.oau.org

183. Re: [APRS-FL:726] 1997 Orlando HamCation & Computer Show

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 8 Dec 96 08:38:20 -0500
To: <aprs-fl@tapr.org>, <aprssig@tapr.org>
Message-ID: <199612081338.IAA27185@newworld.bridge.net>
Rendered body type: text/plain

>To begin with, our APRS short forums will be from the experts.
>Bob Bruninga, WB4APR, will be traveling here from Glen Burnie, Maryland to
>present DosAPRS. Keith Sproul, WU2Z, and Mark Sproul, KB2ICI, will be
>joining with us to present MacAPRS and WinAPRS. Steve Demise, K4HG, has
>also promised to come and give us a talk on the Internet version, JavaAPRS.

ARRRG...That's Dimse, not Demise...In residency they called me Dr.
Demise...but that's another story...

Also, it's javAPRS instead of JavaAPRS...a guy gets pretty touchy about
the name of his baby...and Bob prefers APRSdos.

No matter what you call it, I'm sure looking forward to this!

Steve K4HG

184. APRS Manual

From: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Date: Sun, 8 Dec 1996 10:02:19 -0500
To: <aprssig@tapr.org>
Message-ID: <199612081502.KAA13841@nebula.ispace.com>
Rendered body type: text/plain

I am actually working on a printed manual for APRS. This manual is actually
120 pages with table of content, schematics, drawings and an index for any
subject you need to find. The manual was made using the readme files
supplied by Bob, WB4APR and should be available by the end of December.
Will have copies at HAMCATION 97, the Orlando hamfest. The cost will be
around $15.00 plus shipping and handling. If you are interested send E-Mail
to sender directly.
Jacques Voisin, KD4TWB

185. SPELLING TEST & READING COMPREHENSION

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Sun, 8 Dec 96 12:34 EST
To: aprs-fl@tapr.org, aprssig@tapr.org, sdimse@bridge.net
Cc: kd4jqr@aol.com, stevez@cycat.com
Message-ID: <m0vWn7A-000QdhC@nevets.oau.org>

Rendered body type: text/plain

On Sunday, 8 Dec 1996 07:41:36 -0600 (CST) Steve Dimse wrote:
> Subject: [APRSSIG:7053] Re: [APRS-FL:726]
> 1997 Orlando HamCation & Computer Show

The following was a reading comprehension and spelling test:

> > To begin with, our APRS short forums will be from the experts. Bob Bruninga, WB4APR, will be traveling here from Glen Burnie, Maryland to present DosAPRS. Keith Sproul, WU2Z, and Mark Sproul, KB2ICI, will be joining with us to present MacAPRS and WinAPRS. Steve Demise, K4HG, has also promised to come and give us a talk on the Internet version, JavaAPRS.
>
> ARRRG...That's Dimse, not Demise...In residency they called me Dr. Demise...but that's another story...

I didn't hear that story yet; now we all know. -) Don't worry, you were the only person to notice it and write about it. Now we all know. hi hi

Nobody, but us, noticed the big misspelling of Bob's name in the ad that appeared in the AES Catalog a month ago.

> Also, it's javAPRS instead of JavaAPRS...a guy gets pretty touchy about the name of his baby...and Bob prefers APRSdos.

Blame it on the Sproul Brothers. They have chosen a pattern of naming their program in a most understandable way, I simply followed suit and was caught up in the trap at 1am in the morning when everything was quiet in our household. I should have known better to not to write this after spending Saturday with our club applying labels to 36,000 flyers.

> No matter what you call it, I'm sure looking forward to this!
>
> Steve K4HG

I am glad to hear this. For us the work is just beginning, and we have more flyers to distribute.

Geoffrey Dick, WA4IKQ
Forums Chairman,
1997 Orlando HamCation and Computer Show
wa4ikq@nevets.oau.org

186. Resetting TNC

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Dec 1996 12:53:17 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961208125150.8743A-100000@arctic>
Rendered body type: text/plain

On Sat, 7 Dec 1996, James Kerns wrote:

> Bob how do you reset TNC am I dumb???

APRSdos REPLY/COMMENT: Most have the command RESET or RESTORE or something similar. RESET is like a new POWER on, RESTORE re-configures the TNC to factory defaults. ALso remiving the internal backup battery will work too.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

187. Update on GPS-20 Purchase

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 8 Dec 1996 13:15:41 -0600
To: "APRS SIG list mailing"<aprssig@tapr.org>,
"TAPR-BB list mailing"<tapr-bb@tapr.org>
Message-ID: <v03007803aed0c2ddecd6@[208.134.134.42]>
Rendered body type: text/plain

For those on the current TAPR GPS-20 group purchase.

TAPR currently has 50 units on order. 75 are required to place the order for 100 units with Garmin.

Full details:
http://www.tapr.org/gps/index.html

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
----
e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
----

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

188. Re: [APRSSIG:7054] APRS Manual

From: "Jay K. Jeffries" <bottmgun@emi.net>
Date: Sun, 8 Dec 1996 14:56:14 -0500
To: <aprssig@tapr.org>
Message-ID: <199612082103.QAA20376@florence.emi.net>
Rendered body type: text/plain

Jacques,
I am interested in a copy of the manual, please let me know the final
cost. Thank you.

Respectfully,
Jay K. Jeffries
Technology Evangelist

"Heavier-than-air flying machines are impossible"
-- Lord Kelvin, president Royal Society, 1895

> From: Jacques C. VOISIN <jvoisin@nebula.ispace.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7054] APRS Manual
> Date: Sunday, December 08, 1996 10:06 AM
>
> I am actually working on a printed manual for APRS. This manual is
actually
> 120 pages with table of content, schematics, drawings and an index
for any
> subject you need to find. The manual was made using the readme
files
> supplied by Bob, WB4APR and should be available by the end of
December.
> Will have copies at HAMCATION 97, the Orlando hamfest. The cost
will be
> around $15.00 plus shipping and handling. If you are interested
send E-Mail
> to sender directly.
> Jacques Voisin, KD4TWB

189. read the not-so-fine print!!

From: Bob Derderian <n2iph@cyberenet.net>
Date: Sun, 08 Dec 1996 15:26:24 -0500
To: APRS dicussion group <aprssig@tapr.org>
Message-ID: <32AB2470.3F5A@cyberenet.net>
Rendered body type: text/plain

> around $15.00 plus shipping and handling. If you are interested
send E-Mail
> to sender directly.
> Jacques Voisin, KD4TWB

Notice how it says to e-mail DIRECTLY ? That doesn't mean directly to
the SIG, it means DIRECTLY to the originator of the msg, so the rest of
us do not have to wade through mountains of mail meant for one person.

Hopefully the balance of the responders will not make the same error.

climbing down off my soapbox now...73

Bob, n2iph@cyberenet.net

190. Re: [APRSSIG:7056] Resetting TNC

From: schiers@ames.net
Date: Sun, 08 Dec 96 14:45:31 -0600
To: aprssig@tapr.org
Message-ID: <199612082045.OAA00395@brain.ames.net>
Rendered body type: text/plain

```
In <Pine.GSO.3.95.961208125150.8743A-100000@arctic>, on 12/08/96 at 12:04
PM,
   Bob Bruninga <bruninga@nadn.navy.mil> said:

>APRSdos REPLY/COMMENT:  Most have the command RESET or RESTORE or
>something similar.  RESET is like a new POWER on, RESTORE re-configures
>the TNC to factory defaults.  ALso remiving the internal backup battery
>will work too.

There is also the RESTART command, which will restart the tnc with current
set (but not yet in force) values as defaults.

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

191. 100k maps from USGS ftp

From: Al Zelna <ldajz@epix.net>
Date: Sun, 08 Dec 1996 21:14:51 -0800
To: aprssig@tapr.org
Message-ID: <32ABA04B.4EE4@epix.net>
Rendered body type: text/plain

```
It may have been mentioned here before, but can the 100k map info
available from   ftp://edcftp.cr.usgs.gov/PUB/DATA/DLG   be used for
generating APRS maps?  (I realize the 2,000,000:1 files are usable for
32 mile maps).

Any limitations in trying to use this "free" method before I Santa for
the CD-ROM????


73 de N3KAE
```

---

192. (Revised) 100k maps from USGS ftp

From: "Al Zelna, N3KAE" <ldajz@epix.net>
Date: Sun, 08 Dec 1996 21:37:04 -0800
To: aprssig@tapr.org
Message-ID: <32ABA580.28ED@epix.net>
Rendered body type: text/plain

```
Sorry... I had the wrong HTML for the USGS in the previous message

It may have been mentioned here before, but can the 100k map info
available from   ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K   be used
for
generating APRS maps?  (I realize the 2,000,000:1 files are usable for
32 mile maps).

Any limitations in trying to use this "free" method before I Santa for
the CD-ROM????


73 de N3KAE
```

---

193. Re: [APRSSIG:7054] APRS Manual

From: bgrantha@orednet.org (bob g. grantham)
Date: Sun, 8 Dec 1996 14:55:05 -0800
To: aprssig@tapr.org
Message-ID: <199612082255.AA20138@ednet1.orednet.org>
Rendered body type: text/plain

```
Please put me on your list for a manual.
Advise cost and shipping via e-mail.
thank you inadvance
Bob G.
bgrantha@orednet.org


--
Bob Grantham
```

In down-town Waldport, Or.

194. Re: [APRSSIG:7033] Re: KPC3 - Tripmate

From: "John Kozak" <jkozak@erols.com>
Date: Sun, 8 Dec 1996 18:29:25 -0500
To: <aprssig@tapr.org>
Message-ID: <199612082329.SAA25187@smtp1.erols.com>
Rendered body type: text/plain

```
----------
> From: Demos Doulou <ddoulou@gte.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7033] Re: KPC3 - Tripmate
> Date: Friday, December 06, 1996 10:46 PM
>
> Well I did it. You need to install r48 in the KPC3 to force the DTR line
> high so the tripmate will turn on.  Then set gpsint to ASTRAL.  Connect
> the two with a NULL modem cable  and your set.  Now if I can just find
> out why the tripmate has stopped sending GGA strings.
>
> Demos KR4US
> ddoulou@amsat.org
>

The reason that you lost the GGA strings is that by just using ASTRAL
as the init string, the GPS only sends the $GPRMC and $PRWIZCH strings.

I built an interface box this weekend that:

1) uses a 5 volt regulator to feed pin 9 (ran all weekend on just under 5
volts)
2) Switches 5 volts to pin 4 (this turns on the GPS)
3) Switches pins 2 & 3 together so GPS inits itself (this produces the
above
    mentioned two string output).

I was going to install the regulator in the GPS but decided to keep the
extra
heat out of it. I also installed two blocking diodes from the batteries and
the
5 volt supply so that the batteries will keep the unit powered up while I
move
it from one vehicle to another and then the 5 volt regulator takes over. I
haven't hooked it to the KPC3 yet.

John Kozak; N3AGG
jkozak@erols.com
```

195. A few MIC-E Beta Spots Open

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 8 Dec 1996 17:39:11 -0600
To: "TAPR   APRS SIG"<aprssig@tapr.org>,
        "TAPR-BB list   mailing"<tapr-bb@tapr.org>
Message-ID: <v0300780daed0ff1f193f@[208.134.134.42]>
Rendered body type: text/plain

```
TAPR has room for a few additional beta-testers in the MIC-E beta test.

Submit an application using the MIC-E Beta Application, which can be found on:

http://www.tapr.org/tapr/html/mic-e.html

TAPR is only taking applications until Wed Dec 11th (5pm).

Anyone wanting to participate in these beta slots will have to pay with the
TAPR office by Visa/Mc ***once notified of being accepted*** by Friday (Dec
13th).

Do not call the TAPR office about the Beta spots until notified.

We will send out messages to everyone who submits an application by Thursday.

-----------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
-----------------------------------------------------------------------
e-mail: TAPR@TAPR.ORG  ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
-----------------------------------------------------------------------
```

196. Re: [APRSSIG:7060] Re: Resetting TNC

From: "Gary Wells" <gwells@nbn.net>
Date: Sun, 8 Dec 1996 18:35:48 -0500
To: <aprssig@tapr.org>
Message-ID: <199612082336.SAA30661@mail.nbn.net>
Rendered body type: text/plain

```
----------
> From: schiers@ames.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:7060] Re: Resetting TNC
> Date: Sunday, December 08, 1996 15:51 PM
>
> In <Pine.GSO.3.95.961208125150.8743A-100000@arctic>, on 12/08/96 at 12:04
> PM,
>    Bob Bruninga <bruninga@nadn.navy.mil> said:
>
> >APRSdos REPLY/COMMENT:  Most have the command RESET or RESTORE or
> >something similar.  RESET is like a new POWER on, RESTORE re-configures
> >the TNC to factory defaults.  ALso remiving the internal backup battery
> >will work too.
>
> There is also the RESTART command, which will restart the tnc with
current
> set (but not yet in force) values as defaults.
>
> hasan schiers, N0AN
> -----------------------------------------------------------
> schiers@ames.net
>
My PK-232MBX hangs up os often that I installed a small switch on the
front, in series with the backup battery.  It allows reset if all else
fails, with out taking the cover off (with the main power off, of course).
When you turn it back on, you will need to type several *s th set the
auto-baud with the computer.
Gary Wells, N3HCP
```

197. Re: [APRSSIG:7065] A few MIC-E Beta Spots Open

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 8 Dec 1996 17:34:27 -0800
To: aprssig@tapr.org
Cc: kb0uzq@kcaprs.org
Message-ID: <199612090134.RAA29040@m1.sprynet.com>
Rendered body type: text/plain

```
Greg....


Just a note about the status of things here in Kansas City.  As you are
already aware, Bill Young, KB0UZQ, is dropping out of amateur radio for a
time and will not be participating in the beta test team here.  He is also
the treasurer (having resigned) of the KCAWG and we are in the middle of
trying to get the money out of Bill's account and into ours at this time.

Nothing funny going on, so please don't read anything into this message!

Our Board of Directors has asked Bill to draw a money order for payment of
the two remaining units which we are designated to receive ($190.00).  That
payment is supposed to be mailed to Dorothy Monday morning.  I will advise
you of the status of the payment tomorrow by EMail.

My NDA went out in the mail earlier this week and should be in the TAPR
office in the next couple of days barring an avalanche of Christmas cards
and packages inundating Phoenix! <snicker>

I have not had any success with accessing the FTP site for MIC-E
information. Would you send along the instruction for access once again?

Thanks and
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

198. Re: [APRSSIG:7067] Re: A few MIC-E Beta Spots Open

From: rwf <rwf@mindspring.com>
Date: Sun, 08 Dec 1996 21:14:35 -0500

To: aprssig@tapr.org
Message-ID: <3.0.32.19961208211431.006ba33c@mindspring.com>
Rendered body type: text/plain

```
At 07:40 PM 12/8/96 -0600, you wrote:
>Greg....
>
>Just a note about the status of things here in Kansas City.


Bill-  While you are wtiting to Greg, why not prod him to PLEASE change the
list to not default replies to itself.  Then your message would not have
gone to all of us.

;-)    Ralph
```

---

199. Ol'e reliable trackers

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Dec 1996 23:21:32 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961208230914.20927A-100000@arctic>
Rendered body type: text/plain

```
DUring the Army/Navy footbal run this year, the mids wanted to have HF,
MARS, and UHF SATCOM in addition to APRS for the chase vehicle.  What they
overlooked is the amount of effort involved, hi hi....  I built an
aluminum plate which matched the mounting holes of the glove box lid
hinges and mounted ALL of the non-APRS radios to that.  Just four screws
and everything was installed with a single cable going to clip leads on
the battery.  Total installation time about 30 minutes with antennas....

The purpose of this note is to brag a little about my APRS bread pans.
These are just upside down baking pans with the GPS, TNC, and radio all
inside.  We just duct tape them to the roof, tape a cable down the
windshield to the battery and your on the air (as a stand-alone) or flip a
switch and run a second cable through a window to a laptop and you have
full APRS...  The cable from the tracker to the computer also includes 12
volt power for the laptop, so there are no cigarette lighter cords.

Its not pretty, but its quick..  Just thought you'd be interested... hi hi

P.S these are the same ole' ones we used in 93.  If I had to do it over, I
would put 10-25 watt mobile rigs inside instead of 1 watt HT's...  But I
tstill think this is the best design for rapid reaction installations.
Probably not the best for your psersonal tracker, but a good idea for club
and special event trackers...

Reply mail addr: wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

200. Re: [APRSSIG:7067] Re: A few MIC-E Beta Spots Open

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 8 Dec 1996 19:49:31 -0800
To: aprssig@tapr.org
Message-ID: <199612090349.TAA27635@m1.sprynet.com>
Rendered body type: text/plain

```
Sorry about sending the personal to Greg via the SIG.  I'm a little
delirious tonight with the flu!  SHAME ON ME!!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

201. Re: [APRSSIG:7064] Re: KPC3 - Tripmate

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sun, 08 Dec 1996 21:33:23 -0400
To: jkozak@erols.com
Cc: Aprssig@tapr.org
Message-ID: <850098803-0-eac@shore.net>
Rendered body type: text/plain

```
>The reason that you lost the GGA strings is that by just using ASTRAL
>as the init string, the GPS only sends the $GPRMC and $PRWIZCH strings.

According to my NMEA logs the GPS will not send the GGA strings on a
cold start (no init string) until it locks onto a satellite and gets a
```

```
valid
ephemeris.

73 Eric eac@shore.net
```

---

202. Delorme Tripmate FAQ uploaded

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sun, 08 Dec 1996 21:45:32 -0400
To: amsat-bb@amsat.org, Bitbucket@primenet.com, aprssig@tapr.org
Message-ID: <850099532-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

I uploaded a FAQ file on the Delorme Tripmate to Peter Bennett's FTP site
at:

ftp://sundae.triumf.ca/pub/peter/index.html

It is invisible in the incoming directory, but should be posted within a
few days.

73 Eric eac@shore.net  WB1HBU
```

---

203. Re: [APRSSIG:7070] Re: A few MIC-E Beta Spots Open

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Mon, 09 Dec 1996 05:09:11 -0800
To: aprssig@tapr.org
Message-ID: <32AC0F77.56BE@n-link.com>
Rendered body type: text/plain

```
Jim Duncan wrote:
>
> Sorry about sending the personal to Greg via the SIG.  I'm a little
> delirious tonight with the flu!  SHAME ON ME!!!
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail:  ku0g@kcaprs.com
> EMail:  ku0g@sprynet.com
Jim, Hope you get better.. I had it for 2 weeks and just now getting
over it..
Tommy KC5UJH
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line
```

---

204. Re: [APRSSIG:7071] Re: KPC3 - Tripmate

From: jkozak@erols.com (John W. Kozak)
Date: Mon, 9 Dec 1996 09:02:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612091402.JAA25665@smtp1.erols.com>
Rendered body type: text/plain

```
>>The reason that you lost the GGA strings is that by just using ASTRAL
>>as the init string, the GPS only sends the $GPRMC and $PRWIZCH strings.
>
>According to my NMEA logs the GPS will not send the GGA strings on a
>cold start (no init string) until it locks onto a satellite and gets a
>valid
>ephemeris.
>
>73 Eric eac@shore.net

I realized my mistake right after I sent that message. I had the GPS
sitting on the windowsill and hadn't let it run long enough to lock on
any birds. However I noticed that, when INIT'ed with the Tripmate.exe
program, the GPS starts sending more than the two cold start strings
back immediatly. Obviously that program is telling the GPS more then ASTRAL.

Anyway thanks for the info..

John Kozak: N3AGG
jkozak@erols.com
```

205. Re: [APRSSIG:7071] Re: KPC3 - Tripmate

From: Demos Doulou <ddoulou@gte.net>
Date: Mon, 09 Dec 1996 09:32:26 -0500
To: aprssig@tapr.org
Message-ID: <32AC22FA.1B2B@gte.net>
Rendered body type: text/plain

```
Eric A. Cottrell wrote:
>
> >The reason that you lost the GGA strings is that by just using ASTRAL
> >as the init string, the GPS only sends the $GPRMC and $PRWIZCH strings.
>
> According to my NMEA logs the GPS will not send the GGA strings on a
> cold start (no init string) until it locks onto a satellite and gets a
> valid
> ephemeris.
>
> 73 Eric eac@shore.net


Yup, all I had to do was wait a few minutes and it started sending the
GGA strings.


73
Demos KR4US
kr4us@amsat.org
```

---

206. Re: [APRSSIG:7066] Re: Resetting TNC

From: schiers@ames.net
Date: Mon, 09 Dec 96 08:52:47 -0600
To: aprssig@tapr.org
Message-ID: <199612091451.IAA01719@brain.ames.net>
Rendered body type: text/plain

```
In <199612082336.SAA30661@mail.nbn.net>, on 12/08/96 at 05:46 PM,
   "Gary Wells" <gwells@nbn.net> said:

>My PK-232MBX hangs up os often that I installed a small switch on the
>front, in series with the backup battery.  It allows reset if all else
>fails, with out taking the cover off (with the main power off, of
>course).  When you turn it back on, you will need to type several *s th
>set the auto-baud with the computer.

I have the very same thing installed in mine for the same reason. It just
disconnects the battery backup, so the 232 can get unhung.

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

207. W1ON-3 Digi

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Mon, 09 Dec 1996 10:05:48 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961209150548.00c3f268@cassatt>
Rendered body type: text/plain

```
I've contacted the Trustee of W1ON, and he indicated that the situation
would improve shortly.

73,

 Tom Kinahan N1CPE


-------------------------------------------------------------------
Tom Kinahan                      Phone:          508-871-0305
US Robotics                      Fax:            508-870-1689
Massachusetts R&D Lab            Email:          kinahan@mass-usr.com
4 Technology Drive               Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

---

208. AEA APRS cabel w/ KPC-3

From: ko6xs@ko6xs.ampr.org
Date: Mon, 09 Dec 96 09:31:15 PST
To: aprssig@tapr.org

Message-ID: <9594@ko6xs.ampr.org>
Rendered body type: text/plain

I'm trying to run WinAPRS 117 w/ KPC-3 on a laptop 486 and a Garmin 45 and I
have problem. I tried hooking up the tnc and gps45 to an AEA APRS Cable but
the port won't open. How do I get the APRS Cable to work. The KPC-3 and the
GPS 45 work great separately w/ the computer, but not together using the
APRS Cable. Any help wwould be greatly appreciated.
73 de Jon

TNX & 73s de ko6xs, Jon

```
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
□ □□□  ax25  ko6xs@kk6yo.#soca.ca.usa      □□□ □
□ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

---

209. Re: [APRSSIG:7074] Re: KPC3 - Tripmate

From: "Eric A. Cottrell" <eac@shore.net>
Date: Mon, 9 Dec 1996 13:06:08 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612091806.NAA12385@northshore.shore.net>
Rendered body type: text/plain

Hello,

SA 4.0 sends the time/date and last position to the unit after the ASTRAL.
On a cold start without this init string the Tripmate does not have the
correct time. After it recieves a satellite and gets it's ephemeris it then
has the correct time so it starts outputing the other strings. Before the
receiver has a real position alot of the fields are blank. Note that the
position valid field in RMC is set to invalid, but it still outputs a position.

73 Eric eac@shore.net WB1HBU

---

210. Re: [APRSSIG:7076] Re: Resetting TNC

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Mon, 9 Dec 1996 10:22:32 -0800 (PST)
To: schiers@ames.net
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961209101827.12128E-100000@oso.slonet.org>
Rendered body type: text/plain

Interesting comment regarding the disconnect switch on the PK 232. In my
case I used the switch formerly used to reverse mark/space on UO11!
Now that AEA seems unable to provide chips for APRS would you suggest
what might be done to use the PK232 without the AEA provided chip?
Of course on 10.151 MHz no mods are required but what can be done on VHF?
Cliff Buttschardt K7RR
On Mon, 9 Dec 1996 schiers@ames.net wrote:

```
> In <199612082336.SAA30661@mail.nbn.net>, on 12/08/96 at 05:46 PM,
>    "Gary Wells" <gwells@nbn.net> said:
>
> >My PK-232MBX hangs up os often that I installed a small switch on the
> >front, in series with the backup battery.  It allows reset if all else
> >fails, with out taking the cover off (with the main power off, of
> >course).  When you turn it back on, you will need to type several *s th
> >set the auto-baud with the computer.
>
> I have the very same thing installed in mine for the same reason. It just
> disconnects the battery backup, so the 232 can get unhung.
>
> hasan schiers, N0AN--
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------
>
>
```

---

211. Mic-E Repeater TNC for muting

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Dec 1996 13:50:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961209132947.7202D-100000@arctic>
Rendered body type: text/plain

Remember last week that the guys in Charlottsville, VA discovered that
the internal software DCD of the KPC-3 cannot be used for repeater
muting at the same time as the external XCD signal for CSMA on the
digital channel.

This means you can have packet MUTING on the voice repeater (using
software CD) *OR* CSMA colision avoidance on the APRS packet channel
using the XCD signal....

BUT NOT BOTH AT THE SAME TIME..

Even if Kantronics had allowed the XCD and software CD to both be active,
this wont work either because you would be MUTING voice sylables whenever
there were ANY packets on the APRS channel!!

This makes the standard PacComm Tiny-2 TNC with the add on True-DCD
state machine still the best solution. There are 2 reasons for this:

1) both the True DCD and radio-squelch external input are active at the
   same time..

2) the output of the True-DCD circuit is INDEPENDENTLY available for
   voice rpeeater muting independent of what is going on via the
   radio-squelch circuit on the APRS packet channel.

I assume that a series diode may be needed to provide this muting output
independent of the squelch external input. Can someone who has the
experience with these state machine true DCD circuits publish the details
needed to accomplish this objective.. I have never seen one...

P.S. YOu have heard me say that the muting is not so important... well,
after listening to 12 hours of the Mic-E being used for the Army/Navy
football run, I agree, it gets tiring!   Of course, this was worst case
scenario since we had the path set to RELAY,WIDE,WIDE whcih DOUBLED the
length of the packets... ALso the deviation was too high.. which further
added to the insult..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

212. Mic-E scanner method

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Dec 1996 14:41:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961209143347.27855A-100000@arctic>
Rendered body type: text/plain

When you get your Mic-E and want to be tracked by everyone immediately,
even before any of your local repeaters install TNC digipeaters, you have
2 choices:

1) simply dial in 145.79 occasionally and kerchunk your Mic whenever you
want to report your position.

2) Put a TNC at your house listening to the voice repeater output and
digipeating over to 145.79.

Actually, you can extend this to a scanner, scanning several of your
favorite repeaters. If it hears your packet on any of the repeaters, then
it will digipeat over to 145.79.. The only disadvantage is if all of the
repeaters stay kinda busy, then the scanner maybe on the wrong freq at the
wrong time... But it will work nicely for relatively quiet repeaters.

Just a thought...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html

---

213. NMEA/GPS questions...

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Mon, 9 Dec 1996 14:03:28 -0600 (CST)
To: tapr aprssig <aprssig@tapr.org>
Message-ID: <Pine.LNX.3.91.961209135405.27687A-100000@jerryc>
Rendered body type: text/plain

I see the NMEA GPS lat/long is in ddmm.mmmm format. Are these truely
decimal minutes? Would .0001 be .0001 of a minute?

Does this sound right? From the refernces I have found, it says one degree is made up of 60 minutes. One minute is made of 60 seconds. It says one second at the equater is 1 nautical/geographic mile. One nautical mile is 6080 feet. So 60 x 6080 = 364800 feet (at the equator - long. I think). Now .0001 x 364800 = 36.84 feet. Am I on the right track? If so what do you do when you move away from the equator? What about Lat.?

Wouldn't that mean that APRS uses .01 as the smallest amount of procession, wouldn't that be 3648 feet? The 80 meter filter would be 264 feet so, I must be wrong.

Can anyone help clear this up for me?

Confused (must be another out of mind experience) ;^)

73 de Don KA0JLF (not it's really not me but someone trying to make me look bad (duh) ;^)

Thanks

214. Re: [APRSSIG:7078] AEA APRS cabel w/ KPC-3

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Mon, 09 Dec 1996 12:10:33 -0800
To: aprssig@tapr.org
Message-ID: <32AC7239.7F59@ix.netcom.com>
Rendered body type: text/plain

```
ko6xs@ko6xs.ampr.org wrote:
>
> I'm trying to run WinAPRS 117 w/ KPC-3 on a laptop 486 and a Garmin 45 and I
> have problem. I tried hooking up the tnc and gps45 to an AEA APRS Cable but
> the port won't open. How do I get the APRS Cable to work. The KPC-3 and the
> GPS 45 work great separately w/ the computer, but not together using the
> APRS Cable. Any help wwould be greatly appreciated.
> 73 de Jon
>
> TNX & 73s de ko6xs, Jon
>
>
>          ÉÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ»
>          º ²±°  smtp  ko6xs.ampr.org. 44.16.1.241   °±² º
>          º ²±°  ax25  ko6xs@kk6yo.#soca.ca.usa      °±² º
>          º ²±°  email ko6xs@wwcb.earthlink.net      °±² º
>          ÈÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍÍ¼
```

KB6LFM Writes:

Hello Jon. I'm running the same AEA APRS cable, TNC & GPS-45 and I have no problems with them. I also use the APRS cable on my KAM+.. again no problems. Suggest you check the cable/software for trouble.

GL Bill/LFM

215. MIC-E Applications

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 9 Dec 1996 15:00:58 -0600
To: "APRS SIG list   mailing"<aprssig@tapr.org>
Message-ID: <v03007820aed22da5785f@[208.134.134.42]>
Rendered body type: text/plain

I screwed up last night and installed the old application script. I didn't put the updated one back on the system. :-(Sorry about that.

Thus, we had a number of forms sent, but mangled by my code.

Here are the applications I have.

wb8cxo@aol.com
d.lees@ftel.co.uk
mark.endicott@nashville.com
ke4hor@one.net

If you are not on the list, accept my apologies and please resubmit again.

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas

wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

216. Re: [APRSSIG:7081] APRSSIG digest 796

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 9 Dec 96 17:27:16 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.850170436.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

Bob, who has now had to listen to his packets for a while:-), said:

>I assume that a series diode may be needed to provide this muting output
>independent of the squelch external input. Can someone who has the
>experience with these state machine true DCD circuits publish the details
>needed to accomplish this objective.. I have never seen one...

Following based on a TINY-2:

The "true DCD" modification kit from TAPR just sits in between the FSK modem DCD output and the DCD input to the Z80. Basically, the TCM3105 claims to see DCD for any old reason (like overdriven audio or 1200/2200 Hz speech components). The DCD state machine uses that as a starting point to look more closely at the signal and then asserts it's DCD output based on real NRZI data being seen. You hook it up by just sticking it in between the jumpers that choose between internal DCD (TCM3105 output) and external RFDCD.

Note, following is from memory so I don't have the necessarily correct jumper numbers listed:

So, before, for a vanilla TINY-2:

```
external RFDCD  -----* 1
                   2 *-----> DCD in to Z80 I guess...
TCM3105 DCD out -----* 3
```

Jumper 1&2 together for RFDCD. Or jumper 2&3 together for TCM3105 DCD.

```
------------------------------------------------------------------------
After installing DCD state machine:

external RFDCD  -----* 1
true DCD out     +---*-----> DCD in to Z80 I guess...
TCM3105 DCD out ----+* 3
                 |  |
                 |  |
                 |  +--->DCD state machine input
                 +------<DCD asserted by state machine
                    ...  bunch of other places the state machine hooks
                         to the TNC guts to actually look at the bit
                         stream, obtain power, clock, etc.
```

NO jumper permited anymore between 1&2 or 2&3. External RFDCD no longer an option without internal rewiring.

So, yeah, you need to make it so that the mute comes from the true DCD out with a diode before ORing in the RF DCD detect from the 145.79 receiver.

Since external DCD is no longer allowed, one might consider stealing it for the repeater mute line:-) I would recommend diode-protecting this for obvious reasons.

It would be truly nice to only cause packet transmit holdoff when 145.79 is busy. Currently, this one TNC killing two birds stuff means that holdoff happens more than it should -- when packets are being received from mobiles on the repeater as well as when packets are being heard on 145.79.

/a

217. Re: [APRSSIG:7083] NMEA/GPS questions...

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 9 Dec 96 17:43:02 -0500
To: <aprssig@tapr.org>
Message-ID: <199612092243.RAA02461@newworld.bridge.net>

Rendered body type: text/plain

>From: Don Pfister KA0JLF, donp@jerryc.tyrell.net
>Reply-To: aprssig@tapr.org
>To: aprssig@tapr.org
>
>I see the NMEA GPS lat/long is in ddmm.mmmm format. Are these truely
>decimal minutes? Would .0001 be .0001 of a minute?
>

Right so far

>Does this sound right? From the refernces I have found, it says one
>degree is made up of 60 minutes. One minute is made of 60 seconds. It
>says one second at the equater is 1 nautical/geographic mile. One nautical
>mile is 6080 feet. So 60 x 6080 = 364800 feet (at the equator - long. I
>think).
>
>Now .0001 x 364800 = 36.84 feet. Am I on the right track? If so
>what do you do when you move away from the equator? What about Lat.?
>

Still OK, if I understand what you are trying to say. One second of latitude is always a nautical mile. One second of longitude varies with the latitude (roughly, this assumes the earth is a perfect sphere):

distance-of-longitude(in nautical miles) =
seconds-of-longitude*cos(latitude)

>Wouldn't that mean that APRS uses .01 as the smallest amount of
>procession, wouldn't that be 3648 feet? The 80 meter filter would be 264
>feet so, I must be wrong.
>

APRS protocol uses three decimal places, roughly 360 feet precision, max error would be half that value. Conveniently close to the accuracy (not the precision) of GPS. The filter (in javAPRS, and I guess in other APRS programs) is applied to the GPS input data, which is the 4 decimal place data you describe above.

So, any time a station sending its position with the APRS protocol (3 decimal places) changes at all it will be over the 80 meter limit (unless in the extreme north/south and the change is only longitude). However, it had to get its data from somewhere, namely a GPS, with it's 4 digit precision, and that is where the filter is applied.

Of course, if the station is transmitting data from a stand-alone tracker, then the filter is applied at the receiving station.

Hope this helps...I get confused too...

Steve K4HG

---

218. Some little Tripmate stats

From: Dick Mead <mead@usc.edu>
Date: Mon, 09 Dec 1996 15:05:04 -0800
To: aprssig@tapr.org
Message-ID: <32AC9B20.D15@usc.edu>
Rendered body type: text/plain

Trip attached to 6VDC power supply:

Current drain OFF = 0.13mA
Current drain ON = 98Ma (approx)

If the Tripmate is on and voltage is reduced from 6 to 5VDC, current drain INCREASES to 120mA (approx)

If you fire up Atlas4.0 and Tripmate, the GPS is NOT powered off when you exit the program. You will have to power down the PC or unplug the Tripmate. I see no mention of this in the docs...

FYI

Dick WB6NGC

---

219. Re: [APRSSIG:7083] NMEA/GPS questions...

From: jim.person@juno.com
Date: Mon, 9 Dec 1996 23:22:09 PST
To: aprssig@tapr.org
Message-ID: <19961209.232210.9494.0.jim.person@juno.com>
Rendered body type: text/plain

On Mon, 9 Dec 1996 14:05:41 -0600 (CST) Don Pfister KA0JLF
<donp@jerryc.tyrell.net> writes:
>I see the NMEA GPS lat/long is in ddmm.mmmm format. Are these truely
>decimal minutes? Would .0001 be .0001 of a minute?
>
>Does this sound right? From the refernces I have found, it says one
>degree is made up of 60 minutes. One minute is made of 60 seconds. It
>says one second at the equater is 1 nautical/geographic mile. One
>nautical
>mile is 6080 feet. So 60 x 6080 = 364800 feet (at the equator - long.
>I
>think). Now .0001 x 364800 = 36.84 feet. Am I on the right track? If
>so
>what do you do when you move away from the equator? What about Lat.?
>
>Wouldn't that mean that APRS uses .01 as the smallest amount of
>procession, wouldn't that be 3648 feet? The 80 meter filter would be
>264
>feet so, I must be wrong.
>
>Can anyone help clear this up for me?
>
>Confused (must be another out of mind experience) ;^)
>
>73 de Don KA0JLF (not it's really not me but someone trying to make me
>
>look bad (duh) ;^)
>
>Thanks
>
Don etal
I think that you computed the number of feet in a degree and multiplied
by
.0001 rather than start out with a minute.
If you multiply the feet in a minute by .0001 you get .6 feet as an
answer;
6076 x .0001
This holds true for latitude or for distances on the face of the earth.
However longitude because of convergence towards the poles diminishes the

further north or south you go. The way to compute the distance of
longitude
at a given latitude is to multiply the length at the equator by the
Cosine of
the latitude. i.e. a minute (6076')at the equator times the cosign of
the
latitude for example 45 degrees (0.707107) would equal 4296.4 feet.
A easy quick reference is that one second (1/60 of a minute) of latitude
is
about 101.2 feet or at 45 degrees north or south 101.2 x .7071 = 71.6
feet.
I hopes this helps.

de Wd0GUX - Jim

---

220. Help with HSP and U2000/KPC-3

From: "Don Murray" <james-m@ix.netcom>
Date: Mon, 9 Dec 1996 18:37:23 -0500
To: <aprssig@tapr.org>
Message-ID: <199612092337.PAA08371@dfw-ix8.ix.netcom.com>
Rendered body type: text/plain

Thanks for reading this..

I am attempting to get my KPC3/U2000/AES HSP cable up and running. I am
having a problem getting it all to work together. Here is what I am
doing,
and I am open for any and all suggestions..

1) Have the AES HSP cable connected to the back of the Kpc-3, and have a
cable running from the back of the AES HSP to my computer.
2) I removed the plug that came on the HSP cable and replaced it with a
db9
connection to allow me to connect the U2000 to the HSP GPS connection. I

am pulling the signal off of the grn and black wires from the U2000.
3) I load up APRS and set HSP on from the gps selection. I get a HSP
timeout error from aprs with this setup..

I can go to the tnc terminal mode and toggle hsp F-8, and I get a string
of
characters mostly JJJJJJJJs scrolling accross the screen. Makes me think
I
have the baud rate set wrong, I have tried everything I can to set the
baud
rates correctly and have had no luck..

I have attempted to plug the HSP cable directly into the computer and then
cable back to the TNC.. I get nothing when I then toggle HSP with the F-8
key form the tnc terminal.. This makes me thing their is something wrong
with the signal power..

If anyone is using an AES hsp cable with a U2000, please let me know how
they are doing it..

Again thanks for any and all help with this..

Don Murray
AE4BR

221. Re: [APRSSIG:7079] Re: KPC3 - Tripmate

From: Demos Doulou <ddoulou@gte.net>
Date: Mon, 09 Dec 1996 19:00:43 -0500
To: aprssig@tapr.org
Message-ID: <32ACA82B.3952@gte.net>
Rendered body type: text/plain

Eric A. Cottrell wrote:
>
> Hello,
>
> SA 4.0 sends the time/date and last position to the unit after the ASTRAL.

Thanks For the info.

73

Demos KR4US
kr4us@amsat.org

222. Re: [APRSSIG:7088] Some little Tripmate stats

From: Dick Mead <mead@usc.edu>
Date: Mon, 09 Dec 1996 16:37:44 -0800
To: aprssig@tapr.org
Message-ID: <32ACB0D8.51FA@usc.edu>
Rendered body type: text/plain

Dick Mead wrote:
> If you fire up Atlas4.0 and Tripmate, the
> GPS is NOT powered off when you exit
> the program. You will have to power down
> the PC or unplug the Tripmate. I see no
> mention of this in the docs...

This was on a Windows 3.1 laptop. Win95 may act differently.

Dick

223. Re: [APRSSIG:7090] Help with HSP and U2000/KPC-3

From: rwf@mindspring.com
Date: Mon, 09 Dec 1996 20:37:28 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961209203713.00763330@mindspring.com>
Rendered body type: text/plain

Don Murray-

You can't do HSP with a WX station. WX must have its own port on your PC.
HSP is for combining a GPS and a TNC into 1 RS232 port.
Sorry

At 05:42 PM 12/9/96 -0600, you wrote:
>Thanks for reading this..
>
> I am attempting to get my KPC3/U2000/AES HSP cable up and running. I am
> having a problem getting it all to work together. Here is what I am
>doing,
> and I am open for any and all suggestions..

224. APRS Articles

From: N2ZRC@gnn.com (Arte Booten)
Date: Mon, 09 Dec 1996 20:37:50
To: aprssig@tapr.org
Message-ID: <199612100139.UAA06844@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Jaques,

Here are those articles. 73

The Automatic Position Reporting System
An Overview and Introduction
by Arte Booten N2ZRC

Many of you have heard discussions about a packet radio program called The Automatic Position Reporting System, (also called APRS.) It's a system which, unlike PBBS's, nodes and DX clusters, uses an unconnected protocol to transmit your exact position, a symbol denoting the type of station you're running and a brief comment about it. It also uses direct keyboard-to-keyboard "chatting," has direction-finding capabilities and much more.

How does it work? In a simplistic form you transmit a packet which contains your callsign, exact latitude and longitude, information on your transmitter's power, your antenna's height, gain and pattern as well as a brief comment of your choosing along with some symbols necessary to make the system work. With this information your station appears graphically on a map (actually, one in a series of many maps) on the monitor as would other stations that are on frequency. Since this is an UNCONNECTED protocol, on-air packets can be kept to a minimum.

Consider this: When you connect to a local station using standard AX.25, you send a connect request to that station, they acknowledge that packet, send you a connected packet which you must then acknowledge. The same thing happens with EVERY packet you, or the other station, sends. With APRS you only send ONE packet to convey your information. If it's not received on the first transmission, APRS retransmits it using a decaying time delay (that is, the second packet is sent twenty seconds after the first, the third forty seconds later, the fourth a minute later, the fifth two minutes later etc. until, after a day, you're only sending six packets a day!) This makes more efficient use of the frequency.

APRS uses four different kinds of digipeaters, which use the aliases RELAY, WIDE, ECHO and GATE. RELAY stations (the default setting) are base stations used to digipeat low-power portable and mobile stations. WIDE stations will digipeat packets addressed either to their specific callsign or the generic WIDE to other VHF stations and WIDEs. An ECHO performs a similar function on HF and a GATE digipeats either from VHF to HF, HF to VHF or HF to HF. When setting up APRS for your location you'll set your digipeater path based on the situation at that QTH and where you want your information to go. When using APRSDos (and soon WinAPRS and MacAPRS) for keyboard-to-keyboard communications, which are the only comms in which *ACK*'s are used, you can also set alternate digipeater paths. Not only does this direct your message via the shortest possible route, but it also reduces QRM.

The program also interfaces with popular weather stations such as those made by Davis and Peet Brothers, thus allowing for real-time weather data which is available at the touch of a key. The potential for this during a SKYWARN situation is obvious. You'll get wind speed and direction, temperature, rainfall amounts by the hour and 24-hour period and, in some cases, barometric readings. Such weather data can also be entered manually if a station has the information but not the hardware.

There is also a Direction-Finding mode which can be used by stations with either a beam or omni antenna! When the "fox" transmits, stations can call, by voice (on another frequency!) or keyboard their beam headings and/or signal strength. Using the antenna gain figures for these stations, circles are drawn on the map. The "fox" will usually be located where these circles converge. If you have one of the many "doppler" antenna systems it can also be used.

If DX-ing is your thing, there's also a "DX-mode" which also uses the UI protocol by simply monitoring the DX cluster frequency. As new spots are posted, they appear on the map with their callsign. Their location is based on the callsign prefix of the spot. Obviously, since you're not connected to the cluster, this isn't meant as a replacement to your normal AX.25 program, and you can't SEND messages, you can receive them (the program will flag yours and display them when asked.) It's just another tool for your county- or country-hunting efforts.

If, like me, you have a Global Positioning System (GPS) receiver with NMEA-0183 output this, too, can be utilized with amazing results! Your mobile or portable position can be regularly updated. Using such a "stand-alone tracker" you don't even need a computer. All you'd need is an H-T, TNC and GPS! Think about the possibilities for such a setup in something like a marathon, walkathon or even for someone shadowing an important official.

APRSDos was written to be able to run on just about any PC compatible computer from the latest Pentium Pro down to a lowly 8086. Heck, I know several people that use it with a Hewlett-Packard HP-200 palmtop! Maps are available from a large-scale map of the whole world to extremely detailed street-level maps. There's even a mail-reflector about it to which you can subscribe. It's lots of fun, has many potential ARES / RACES / SKYWARN uses and I'm sure you'll enjoy playing with it!

SOME REALLY SIMPLE BASIC INSTRUCTIONS ON GETTING APRS ON THE AIR NOW

If you don't use Windows, but have PKZIP204g, put the APRS disk into the floppy drive of your choice (I'll call it drive A) then expand the APRS files by using the following commands on the hard drive of choice:

```
     Make an appropriate directory     MD APRS
     Change to this directory          CD \APRS
     Switch to the A drive             A:
     Run PKUNZIP with directories      PKUNZIP -d APRS99z.zip C:
```

Don't forget to use that "-d" switch, which allows for the creation of those necessary subdirectories!

If you use WINZIP, change to drive A and double-click on APRS75.zip, click expand button, tell it where you want it and follow onscreen directions.

**************************** VERY IMPORTANT ****************************
IF YOU ARE USING A KANTRONICS TNC, OPEN THE FILE "INITTAPR.TNC" (it's in the "SYSTEM" folder) AND, USING ANY TEXT VIEWER, CHANGE THE LINE THAT SAYS "PAR 0" TO "PAR NONE". IF YOU DON'T DO THIS, YOUR TNC WON'T UNDERSTAND ANYTHING THE PROGRAM WILL TELL IT!!
****

Make sure your TNC is in Terminal or Command mode (whatever it's called by the manufacturer.) At the C:\> prompt, go to your chosen APRS folder and type "APRS99Z.exe". If you're using Windows, just double-click on that file and "maximize" it. This brings you to the LOGO screen. Enter your callsign. Tell it what kind of TNC you're using. Answer the other various questions. When you're done, the main map screen will appear.

Now press M(aplist) then C(hange), and tell it you want the appropriate maplist for your region. Use the arrows or mouse to bring the cursor to your approximate location (keep your eye on the upper left part of the screen which shows latitude/longitude of the cursor.) Then press HOME to center the screen on it. Use the PgDN key to zoom in a few screens and tweak the cursor to your EXACT QTH. You may have to zoom in to a very small scale to get the necessary resolution. Once the cursor is at the right spot hit the HOME key again.

Press I(nput) M(y) P(osition) and confirm your lat/long, choose a symbol for yourself, type in a brief comment, and verify it. Once you press that "Y" you're essentially ready to go on the air. In it's most basic form, you're configured! Tune the radio to 145.79, hook it up and see what you can see. It might take a few minutes for other stations to appear (assuming there are some) but if you get a little impatient, try pressing O(perations) Q(uery) and give it a radius such as 64 to force position reports from others.

Look for stations whose symbol is a green star. THESE ARE THE WIDE DIGIPEATERS! Is there one fairly close to you? If there is, press the "D" key. If an asterisk (*) appears next to a callsign (hopefully that nearby WIDE) then you're hearing it directly. Make a note of that nearby WIDE station's digipeater path.

Now you're going to set YOUR digipeater path. Press U(nproto). If you heard that WIDE station directly, enter it's call sign and ssid, if any. Follow this with a comma, then type in "WIDE". For example: "WA2JNF-4,WIDE" would be how I'd enter it here in The Bronx, but the nearest WIDE to YOU is what YOU'RE looking for.

Next you want to set your Power-Height-Gain figures. Press I(nput) P(ower) and tell it how many watts you're using, your antenna's height above AVERAGE terrain (look at a topographical map of your area,) the gain in dBd and the antenna's directional pattern in degrees or 0 (zero)for an omnidirectional antenna.

Finally, set your Beacon Text by pressing I(nput) M(y) S(tatus) and typing in a short comment different than the text you used for your Position Text earlier. At this point, you're about as far as you need to go for now.

I hope to see you all on my screen in the VERY near future. Look for me at cruise missile coordinates 4052.71N/07354.06W.

APRS: Using It

(or: Now that I've got it set up, how do I make it work for me?)
by Arte Booten N2ZRC

In previous articles I've described what The Automatic Position Reporting System is and how to get it set up on your computer and radio. So you're now probably telling yourself "OK, great. I've got these stations appearing on my screen. Now what do I do?"

One of the features in APRS is the ability to send what we call one-liners; that is, one-line messages from station to station either direct or by using digipeaters. >From the main APRS screen press S(end), and type the stations call and <cr>. Then type your message and another <cr>. You'll know when they got it when you receive an *ACK* which replaces the first five characters of your message. These one-liners are the only situation when APRS uses anything other than UI packets.

When you send a message in this manner it will be sent via the same digipeater path as your position and ID packets. If your intended recipient is someplace else you can STILL send it there by specifying any of a dozen alternate digipeater paths which the program can store for you. If you press O(perations)-D(igipath)-S(ave), you'll be prompted to enter a two letter code for that path via whatever path you choose, such as:

```
NJ VIA N2SF,WA2JNF-4,W2HOB
```

to get to Southern New Jersey from Westchester. To see the paths you've stored, press O(perations)-D(igipath)-L(ist). The prime purpose of these alternate paths is to keep the QRM to a minimum and to use the most direct and, sometimes, the only feasible path.

The weather systems feature of APRS allows you to see various weather information in real-time which is transmitted by stations with a Peet Bros. or Davis Weather Station. Depending on which version of APRS you're using (as of now, late December, it's 7.7e) and the options the weather station has, you can get different kinds of information including temperature, rainfall amounts (to the 1/100th inch) in the past hour and 24 hour periods, wind speed, direction and gusts and barometric pressure. By pressing W(eather), you'll see a list of options to choose from. These have changed (for the better) in the last few versions, so I can't be specific.

If at any time you wish to cease transmitting without actually shutting down the program, simply touch C(ommands) X(mit). This will disable the timer within APRS. You will still send out whatever the TNC itself is set to transmit at the predetermined periods. Press them again when you want to resume transmissions. When you want to send a specific packet (most often your position), you can do so by pressing X(mit) P(osition) [or B(eacon), M(essage), S(tatus), O(bject) or A(ll), as the case may be.]

In order to find a station on the screen, you can always use the O(perations)-F(ind) (what else!) command. If you'd like to see something really neat, try O(perations)-R(eplay) with a mobile station. You'll see the station's track being replayed. To access your TNC you'd use O(perations)-C(omms)-T(NC) which leads you to a very basic terminal screen. To get stations to appear on your screen faster (within two or three minutes) you'd use O(perations)-Q(uery), followed by a radius in miles from you.

Now that you've been on the air with APRS for a few hours, you don't necessarily want to wait for all those stations to reappear if, for some reason, you have to exit the program. No problem. Next time you fire it up, press F(iles)-L(oad), then type BACKUP.BK, or whatever you'd like to call it. Every time you shut APRS down it'll save a BACKUP.BK file, replacing the previous copy. Be aware, though, that all of those packets are timed, and any station in this backup that was heard more than two hours ago will "gray-out" (APRS considers them to be inactive and makes room for more stations that way.)

One thing to remember when playing APRS is that the best way to learn, as with anything else, is by doing. You can play with the commands as much as you want. You're not going to BREAK anything! About the worst thing that can happen is a lockup, and this is a rare thing. Usually the three-fingered-salute (Ctrl-Alt-Del) will get you out of it and you'll have to start over. So play with the thing. I mean, how do you think I learned about APRS, by reading about it?

Speaking of reading about it, yes I did. It's right there in the APRS distribution zip file. You can always read those files by pressing F1-F(iles) and typing in the name of the file you want to see. One suggestion: if you're a slow reader, press the down-arrow button once in a while as APRS seems to get impatient with you when it just sits there while you re-read that paragraph for the umpty-umph time and shoves you back into the program.

There are dozens of these readme files in the "README" folder. You can also see them (at your leisure and there for the printing) by using any old text editor. Many of the answers to your questions can be found there, sometimes buried deep and not quite as visible as you'd like.

I hope you enjoyed this series on APRS and hope to see you on the map in the near future. Whenever I see a new station on the screen I try to send them a one-liner welcoming them to APRS and offering live assistance and advice. Feel free to take advantage of this, or ask questions of any station on the air at that time. We're all very excited about this program and think that "the more, the merrier" is the way to go. We've gotten a lot of "converts" in the last few years and this situation can only improve, so come and join us on 145.790! 73

As with most of the stuff I've written about APRS, I place these in the Public Domain, free for the use of anybody. Post them on your APRS website. Print 'em up and distribute them at APRS demonstrations. Include them in distributions of AOL, errr, APRS disks. All I ask is that you give me credit for them. That's all.
73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

225. Re: [APRSSIG:7093] Re: Help with HSP and U2000/KPC-3

From: BordingK@aol.com
Date: Mon, 9 Dec 1996 21:40:07 -0500
To: aprssig@tapr.org
Message-ID: <961209213852_1919716647@emout07.mail.aol.com>
Rendered body type: text/plain

Well, why can't we use a HSP with a weather station? I may be missing the point, but the data flow from a GPS and a WX station is not that much different. It sure would make wx reporting a lot more affordable to those stuck with single com port computers!

de KF4COH

---

226. Re: [APRSSIG:7095] Re: Help with HSP and U2000/KPC-3

From: rwf@mindspring.com
Date: Mon, 09 Dec 1996 22:23:51 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961209222347.0072a498@mindspring.com>
Rendered body type: text/plain

I am speaking of Dos APRS, by the way. I haven't got any idea if WinAPRS allows it on the HSP. I do know that Bob requires wx on its own port, though. Probably something to do with the dribbling nature of the serial data from the U-II WX unit.
Half the time, it can't even finish a sentence until the beginning of the next one. Maybe the U-2000 output is more reliable.

Of course I could be 180 degrees out of phase here, I'm sure Bob will set me straight.

ralph

```
At 08:42 PM 12/9/96 -0600, you wrote:
>Well, why can't we use a HSP with a weather station?  I may be missing the
>point, but the data flow from a GPS and a WX station is not that much
>different.  It sure would make wx reporting a lot more affordable to those
>stuck with single com port computers!
>
>de KF4COH
>
>
```

227. MFJ-8621 and APRS

From: BordingK@aol.com
Date: Mon, 9 Dec 1996 22:33:11 -0500
To: aprssig@tapr.org
Message-ID: <961209223302_2017446512@emout13.mail.aol.com>
Rendered body type: text/plain

```
Considering using MFJ-8621's for remote weather sites.  Anyone had either
really good luck or REALLY bad luck using these transceivers?

de KF4COH
Ken in Jax
```

228. RE: [APRSSIG:7062] (Revised) 100k maps from USGS ftp

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Tue, 10 Dec 96 02:40:31 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199612100349320300@msn.com>
Rendered body type: text/plain

```
de kb4xf author of mk100kv3
Yes, the code will make maps from data files downloaded and expanded from the
USGS ftp site.  These files are sent using a "grz" compression format.  You
need to first download the GRZ software so that the downloaded files can be
expanded.  Be sure to download the "optional format" files.  Answer the
question about using the CD or ftp data correctly and you will be off and
running.
jack kb4xf
cjcavanagh@msn.com
```

229. RE: [APRSSIG:7083] NMEA/GPS questions...

From: "Carolyn Cavanagh" <cjcavanagh@msn.com>
Date: Tue, 10 Dec 96 02:31:36 UT
To: aprssig@tapr.org
Message-ID: <UPMAIL02.199612100349300979@msn.com>
Rendered body type: text/plain

```
Ref conversion from nautical mile and degress of latitude
The reference or its interpretation is wrong.
 1 minute of latitude = 1 nautical mile
  0.01 minute of latitude = 60.8 ft approx

A minute of latitude is about one nautical mile at the equator, the poles and
in between to a good enough approximation unless you are trying to measure
continental drift or target ICBM's.

The conversion for longitude is a different story.  It depends of the
latitude. At the equator (lat=0 deg) 1 minute of longitude is 1 nautical mile.
 At any other
latitude it is cos( lat) nautical miles.
jack kb4xf
cjcavanagh@msn.com
```

230. Re: [APRSSIG:7097] MFJ-8621 and APRS

From: "Gary Wells" <gwells@nbn.net>
Date: Mon, 9 Dec 1996 23:25:47 -0500
To: <aprssig@tapr.org>
Message-ID: <199612100429.XAA13493@mail.nbn.net>
Rendered body type: text/plain

```
----------
> From: BordingK@aol.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:7097] MFJ-8621 and APRS
> Date: Monday, December 09, 1996 22:40 PM
>
> Considering using MFJ-8621's for remote weather sites.  Anyone had either
> really good luck or REALLY bad luck using these transceivers?
```

```
>
> de KF4COH
> Ken in Jax
I have been using MFJ-86212 full time for APRS for about 2 months.
Transmit is fine, but the receiver, in my unit at least, seems poor.  I can
only hear a very local digi(Kenwood TH-215 HT has much better receive).
That's OK for my use, and would be fine for remote WX.  Very low
current-25ma in receive-is a plus.
Gary Wells, N3HCP
Schaefferstown, PA
40 17.48 North
78 17.77 West
```

231. Re: [APRSSIG:7097] MFJ-8621 and APRS

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Tue, 10 Dec 1996 07:14:43 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961210071130.14434A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I have 3. Two as digi's and one fer da mobile. NO PROLEMS! As a matter of
fact, I am going out today and purchasing a 4th for the QTH.

I've been using them for almost 2 years, without any problems what so ever.
By the way, they are all coupled with a KPC-3.

Good Luck.



On Mon, 9 Dec 1996 BordingK@aol.com wrote:

> Considering using MFJ-8621's for remote weather sites.  Anyone had either
> really good luck or REALLY bad luck using these transceivers?
>
> de KF4COH
> Ken in Jax
>
```

232. Street Atlas 4 and Tripmate

From: Joe Scalet <jscalet@dound.net>
Date: Tue, 10 Dec 1996 08:09:40 -0800
To: aprssig@tapr.org
Message-ID: <32AD8B44.35C0@dound.net>
Rendered body type: text/plain

```
For those who might be interested I have Street Atlas 4 and the
Tripmate GPS running on a 386/SL25 Compudyne, 8mb ram, 80mb hard drive. I
have two states loaded (KS & MO). I had to gut Windows and DOS to do it
and maintain a large enough swap file on the disk. I am not using Double
Space ( too slow ). If you want a list of the required files drop me a
private message ( not to the sig) and I'll forward it.
```

233. Re: APRS Articles

From: N2ZRC@gnn.com (Arte Booten)
Date: Tue, 10 Dec 1996 09:33:29
To: aprssig@tapr.org
Message-ID: <199612101435.JAA14522@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

     Okay, okay, I'm guilty!  I pressed the wrong button and sent that big humongous
series of articles to the SIG, when I meant to reply directly.  My apologies to all.


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

234. Re: MFJ-8621 sensitivity

From: N2ZRC@gnn.com (Arte Booten)
Date: Tue, 10 Dec 1996 09:35:20
To: aprssig@tapr.org

Message-ID: <199612101435.JAA15466@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Mon, 9 Dec 1996 Gary Wells replied:

>... the receiver, in my unit at least, seems poor ...

I seem to remember The Bob'ser addressing this either on the SIG or in THE DOCS, suggesting a fix. (Or was that Buck Rogers in 73 ... can't remember!) 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

235. Re: [APRSSIG:7103] Re: APRS Articles

From: rwf@mindspring.com
Date: Tue, 10 Dec 1996 10:31:26 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961210103107.006e8808@mindspring.com>
Rendered body type: text/plain

But I enjoyed them! ;-)

Sure would be nice if the Mailing list defaulted to the Sender. Pretty
simple to fix. Admin needs to change the default "Reply-To:" field.

Ralph

At 08:40 AM 12/10/96 -0600, Arte wrote:
>
> Okay, okay, I'm guilty! I pressed the wrong button and sent that big
humongous
>series of articles to the SIG, when I meant to reply directly. My
apologies to all.
>

---

236. True DCD MUTE mod for Repeaters

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Dec 1996 10:39:46 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961210095606.28856E-100000@arctic>
Rendered body type: text/plain

I have modified Alan Crosswell's schematic with my guess as to how it
could work. Can anyone confirm or test this?

```
> The "true DCD" modification kit from TAPR just sits in between the FSK
> modem DCD output and the DCD input to the Z80.  In the Tiny-2 its Jumper
> JPD.  Here is what it looks like after installing DCD state machine and
> my two suggested ORing diodes and MUTE output.
>                                 D1
> external RFDCD  -----* 1  X----|<----+
>                                      |
>                      *---------------*-------> DCD in to Z80 I guess...
>                                      |
> TCM3105 DCD out ----+* 3             |      D2
>                     |                +------>|-------+-------> Mute out
>                     |                                |
>                     +--->DCD state machine input     |
>                          DCD out fm state machine>---+
>        > - - - ... ----->bunch of other places the state machine hooks
>                          to the TNC guts to actually look at the bit
>                          stream, obtain power, clock, etc.
>
```

Alan also said:

> It would be truly nice to only cause packet transmit holdoff when
> 145.79 is busy. Currently, ORing the two means that holdoff happens...
> both when packets are being received from mobiles on the repeater as well

```
> as when packets are being heard on 145.79.

**** But this should certainly not be a problem, because the ONLY thing it
is "holding off" are the packets being heard on the voice channel. and
waiting for a clear packet channel.  THere are no packets to hold off
during the occasionaly 0.2 second burst on the voice channel...

Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

237. Re: [APRSSIG:7097] MFJ-8621 and APRS

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Tue, 10 Dec 1996 09:46:23 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961210094419.4237A-100000@jerryc>
Rendered body type: text/plain

```
I use an MFJ-8621X (APRS crystal), I'm reall happy with it. I use it for
APRS no WX yet. MFJ has been real helpful. I got the 145.01 radio, they
exchanged it for me for the 145.79 APRS version, with $20 difference in
price.

73 de Don KA0JLF

On Mon, 9 Dec 1996 BordingK@aol.com wrote:

> Considering using MFJ-8621's for remote weather sites.  Anyone had either
> really good luck or REALLY bad luck using these transceivers?
>
> de KF4COH
> Ken in Jax
>
```

---

238. Re: [APRSSIG:7097] MFJ-8621 and APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Dec 1996 11:07:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961210110516.28856L-100000@arctic>
Rendered body type: text/plain

```
On Mon, 9 Dec 1996 BordingK@aol.com wrote:

> Considering using MFJ-8621's for remote weather sites.  Anyone had either
> really good luck or REALLY bad luck using these transceivers?

APRSdos REPLY/COMMENT:  I got 5 of the very early models....  THey all had
marginal receive sensitivity around 1 microvolt.  BUT OTHERS have said
that MFJ found a problem with the TR diode and have restored the design to
its original specs of a few tenths of a microvolt.  Can anyone confirm
this.  Mine are still a little deaf, because It will be forever till I go
climb the tower to get them back to send back for the mods...


Reply mail addr:  wb4apr@amsat.org
See  APRS  LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
```

---

239. Dual Alias EPROM's

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Tue, 10 Dec 1996 10:17:30 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aed2e4362032@[138.87.2.109]>
Rendered body type: text/plain

```
Which TNC's take the TAPR ver 1.1.9 EPROM's?  I have a PK-80, PK-88, TINY-2
and MFJ-1270B's on the APRS network.  I want to put the dual alias EPROM in
them.

I can't determine for certain that the ver 1.1.9 has dual aliases. Is there
a list of commands for that chip somewhere besides the printout?

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

240. Re: [APRSSIG:7103] Re: APRS Articles

From: Richard Parry <rparry@qualcomm.com>
Date: Tue, 10 Dec 1996 08:27:07 -0800
To: aprssig@tapr.org
Message-ID: <v03007802aed33fc27b1e@[129.46.159.136]>
Rendered body type: text/plain

I glad you sent it to the sig, very useful!!! Thanks

>Hi All,
>
>   Okay, okay, I'm guilty! I pressed the wrong button and sent that big
>humongous
>series of articles to the SIG, when I meant to reply directly. My
>apologies to all.
>
>
>Mr. Arte Booten (N2ZRC @ gnn.com)
>Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>
>Cruise Missile Coordinates 4052.71N/07354.06W
>
>.. Coordinates laid in. Engaging at warp six ...

Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link
Intranet --> <http://web/~rparry>
Internet --> <http://www.qualcomm.com/~rparry>

---

241. APRS KPC-3 Icom GP-22

From: Rob Swanson <rswanson@csinet.net>
Date: Tue, 10 Dec 1996 11:38:13 -0600
To: aprssig@tapr.org
Message-ID: <32ADA005.52DE@csinet.net>
Rendered body type: text/plain

I need some help getting my GP-22 GPS unit tied into my aprs setup.

I have APRS stup and running on a 486dx2-66 with my Ultimeter 2 feeding data just fine.

Now I have a HSP cable I bought from Kantronics, but no pinouts for the Icom GP-22. I have the interface kit that has the nmea port on it. WHat I need are the correct hookup for that port.

Any info would be helpfull.

Rob Swanson
N9RVR
rswanson@csinet.net
La Porte IN

---

242. Re: [APRSSIG:7111] APRS KPC-3 Icom GP-22

From: rwf@mindspring.com
Date: Tue, 10 Dec 1996 16:39:02 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961210163807.00759a74@mindspring.com>
Rendered body type: text/plain

All HSP adapter cables need power to run. Many laptops do not provide power on the same pin of the RS232 connector that the HSP is looking for it on. On my second HSP cable, I rewired it to get power from a pin on the KPC-3. PacComm's cable looks for power on a TNC pin as well as a pin on the PC, but sometimes even that one doesn't work at first. This is because TNCs, HSP cables and Laptops all vary between each other.

Start by finding out where the cable YOU have requires power. I have seen the AEA and PacComm, but not the Kantronics.   You can install a jumper in the KPC-3 that allows powering it from pin 25. If you fuse it properly, you can get power there to run the circuit in the cable. I doubt this is the way the standard Kantronics cable is built, though.

The early PacComm cables looked for power on pin 6 of the laptop. Later they added a power wire from the TNC, too. I think also on pin 6. I think it was an orange wire.

Good luck

Ralph N4NEQ
rwf@mindspring.com

At 11:42 AM 12/10/96 -0600, you wrote:
>I need some help getting my GP-22 GPS unit tied into my aprs setup.
>
>I have APRS stup and running on a 486dx2-66 with my Ultimeter 2 feeding
>data just fine.
>
>Now I have a HSP cable I bought from Kantronics, but no pinouts for the
>Icom GP-22. I have the interface kit that has the nmea port on it. WHat
>I need are the correct hookup for that port.
>
>Any info would be helpfull.
>
>Rob Swanson
>N9RVR
>rswanson@csinet.net
>La Porte IN
>
>

---

243. Re: [APRSSIG:7109] Dual Alias EPROM's

From: rwf@mindspring.com
Date: Tue, 10 Dec 1996 16:39:01 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961210163829.00759a74@mindspring.com>
Rendered body type: text/plain

I think your Tiny 2 and MFJ should take them just fine, as long as you have
enough memory.
The AEA's are in their own little world, as are Kantronics.

I didn't know about the dual aliases myself. I thought the TNC-2 close
solution was to use TheNet.

I think PacComm may have a chip either now or soon with LOTS of APRS
functionality. There was even talk of a real live APRS DIGI EPROM.

73

Ralph N4NEQ
rwf@mindspring.com

At 10:32 AM 12/10/96 -0600, you wrote:
>Which TNC's take the TAPR ver 1.1.9 EPROM's? I have a PK-80, PK-88, TINY-2
>and MFJ-1270B's on the APRS network. I want to put the dual alias EPROM in
>them.
>
>I can't determine for certain that the ver 1.1.9 has dual aliases. Is there
>a list of commands for that chip somewhere besides the printout?
>
>/\
> Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
> EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
>\/
>
>
>

---

244. Re: [APRSSIG:7112] Re: APRS KPC-3 Icom GP-22

From: Rob Swanson <rswanson@csinet.net>
Date: Tue, 10 Dec 1996 16:08:30 -0600
To: aprssig@tapr.org
Message-ID: <32ADDF5E.CFD@csinet.net>
Rendered body type: text/plain

After 2 calls to Icom I was able to get the info I needed.
With the GP-22 in order to have the NMEA port you need the interface
unit. It gives you the NMEA port and the external ANT. jack.
I needed to know how the plug was wired on the interface unit.
Ends up it is just a 1/8th inch Mono plug Tip Positive Sleave Ground.
the HSP Cable I have from Kantronics had 3 wires for the GPS one
Positive one Negitive and an extra ground wire I didn't even hookup.
Worked great after I set the TNC's baudrate down to the 4800 and turned
HSP on in aprs.

rwf@mindspring.com wrote:
>
> All HSP adapter cables need power to run. Many laptops do not provide
> power on the same pin of the RS232 connector that the HSP is looking for it
> on. On my second HSP cable, I rewired it to get power from a pin on the
> KPC-3. PacComm's cable looks for power on a TNC pin as well as a pin on
> the PC, but sometimes even that one doesn't work at first. This is because
> TNCs, HSP cables and Laptops all vary between each other.
>
> Start by finding out where the cable YOU have requires power. I have seen
> the AEA and PacComm, but not the Kantronics.   You can install a jumper in
> the KPC-3 that allows powering it from pin 25. If you fuse it properly,
> you can get power there to run the circuit in the cable. I doubt this is
> the way the standard Kantronics cable is built, though.
>
> The early PacComm cables looked for power on pin 6 of the laptop. Later
> they added a power wire from the TNC, too. I think also on pin 6. I think
> it was an orange wire.
>
> Good luck
>
> Ralph N4NEQ
> rwf@mindspring.com
>

245. Re: [APRSSIG:7088] Some little Tripmate stats

From: Gerald J Creager <gerry@cs.tamu.edu>
Date: Tue, 10 Dec 1996 16:33:42 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199612102233.QAA16364@solar.cs.tamu.edu>
Rendered body type: text/plain

Dick Mead sez:
>
> Current drain OFF = 0.13mA
> Current drain ON = 98Ma (approx)
>
> If the Tripmate is on and voltage is
> reduced from 6 to 5VDC, current drain
> INCREASES to 120mA (approx)

OK, so they used a low-drop regulator, and when you reduce it to 5 volts, it
gets a bit unhappy. If you didn't smoke the regulator, it sounds like even
that was pretty well designed.

73, gerry

--
Gerry Creager N5JXS
Research Assistant, Mapping Sciences Laboratory, Texas A&M University
n5jxs@.tamu.edu   gerry@rsgis3.tamu.edu
409.845.9425
"Not an Official Document of Texas A&M or the Mapping Sciences laboratory"

246. Standard C508A...

From: Paul Stump <n0lrf@computer-services.com>
Date: Tue, 10 Dec 1996 16:36:58 -0600
To: aprssig@tapr.org
Message-ID: <32ADE60A.45C5@computer-services.com>
Rendered body type: text/plain

Say,

Any insight on using the Standard C508A xcvr as a stand-alone? Would
look pretty nifty with a MIM and a GPS board...

--
73, Paul, n0lrf@computer-services.com

247. Re: [APRSSIG:7103] Re: APRS Articles

From: N2ZRC@gnn.com Tue Dec 10 17:30:28 1996
Date: Tue, 10 Dec 1996 18:29:09 +0000
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <199612102330.SAA00804@home.winc.com>
Rendered body type: text/plain

```
Date:          Tue, 10 Dec 1996 08:40:54 -0600 (CST)
Reply-to:      aprssig@tapr.org
From:          N2ZRC@gnn.com (Arte Booten)
To:            aprssig@tapr.org
Subject:       [APRSSIG:7103] Re: APRS Articles

Hi All,

     Okay, okay, I'm guilty!  I pressed the wrong button and sent that big humongous
series of articles to the SIG, when I meant to reply directly.  My apologies to all.


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

.. Coordinates laid in.  Engaging at warp six ...

why are there 4 copies of this particular piece of junk in my mailbox

seems like a lot of duplicates on this server-- can someone fix

bruce wa8pgd akron ohio--i am interested inb this stuff--anyone in
akron on it??????    73's all
```

---

248. Re: [APRSSIG:7115] Re: Some little Tripmate stats

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 10 Dec 1996 18:34:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961210183306.4161C-100000@arctic>
Rendered body type: text/plain

```
On Tue, 10 Dec 1996, Gerald J Creager wrote:

> Dick Mead sez:
> >
> > Current drain ON = 98Ma (approx)
> > If the Tripmate is on and voltage is reduced from 6 to 5VDC, current
> > drain INCREASES to 120mA (approx)
>
> OK, so they used a low-drop regulator, and when you reduce it to 5 volts, it
> gets a bit unhappy.  If you didn't smoke the regulator, it sounds like even
> that was pretty well designed.

APRSdos REPLY/COMMENT:  No, I would say it is a DC/DC regulator that
re-generates the DC.

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
```

---

249. Re: [APRSSIG:7103] Re: APRS Articles

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 10 Dec 1996 16:48:21 -0800
To: aprssig@tapr.org
Message-ID: <199612110048.QAA27633@m1.sprynet.com>
Rendered body type: text/plain

```
At 08:40 12/10/96 -0600, you wrote:
>Hi All,
>
>     Okay, okay, I'm guilty!  I pressed the wrong button and sent that big
humongous
>series of articles to the SIG, when I meant to reply directly.  My
apologies to all.
>
>
>Mr. Arte Booten  (N2ZRC @ gnn.com)
>Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>
>Cruise Missile Coordinates 4052.71N/07354.06W
```

```
>
>.. Coordinates laid in.  Engaging at warp six ...
>
Get out the wet-noodles, everyone....<snicker>

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

250. Re: [APRSSIG:7115] Re: Some little Tripmate stats

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 10 Dec 1996 21:04:37 -0400
To: gerry@cs.tamu.edu
Cc: Aprssig@tapr.org
Message-ID: <850269877-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

The chip is a Maxium DC to DC converter that outputs 3.3 volts.  It looks
like about 2 diode drops so 5 volts is 3.6 for
chip input.  I do not remember what the minimum voltage to the thing is.

If you calculate the power input at 6 volts it is 0.588 watts and at 5 it
is 0.6 watts so it does not look too bad.

I wonder what the current drain at 7.2 volts is?  If it is about 81 mA
then it may be slightly better to go with a 7.2 volt
Nicad pack.

73 Eric eac@shore.net
```

---

251. Yet another Wx program!

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Tue, 10 Dec 1996 20:54:33 -0600
To: aprssig@tapr.org
Message-ID: <199612110251.CAA21644@smtp-gw01.ca.us.ibm.net>
Rendered body type: text/plain

```
I've been spending my "spare" moments writing a Windows 3.1 program to
interface to my U2000 and APRS.  It's main purpose is to report weather data
in more detail than APRS does for my home station including some showing
some graphs.  I still wanted to be able to post my data to the APRS network
so it does that, too.  Meanwhile, I'm learning a bit more about Windows and
C++ (been programming C for many, many moons!).

I've just uploaded it to tapr's ftp area in software_lib/upload and it will
hopefully migrate to software_lib/weather.  There are still several things
on my to-do list, but I thought there might be others who would be
interested in trying it.  I'm most proud of it's plug-n-play ability - it
finds the weather port and TNC port and figures out your callsign, unproto
path, and lat/long by itself (assuming you've been using APRS recently).

Let me know if you try it.
73.
Tony Drumm
ARS AA0SM
```

---

252. TCM3105 min tx pinout?

From: Jay Olson <jolson@mail.gte.net>
Date: Tue, 10 Dec 1996 20:10:43 -0800
To: aprssig@tapr.org
Message-ID: <32AE3443.3CCE@mail.gte.net>
Rendered body type: text/plain

```
I would dearly appreciate it if some kind soul would e-mail me a
minimum configuration for using the TCM3105 as an FSK tone generator
with no receive capabilities. As TI has no data sheets or ap notes left
on their website I am kinda running blind here. I need to know what to
do with a mess of unused pins.
   Actually, if anybody has PDF files of data sheets or ap notes I might
get by that way. What is the difference between the NL and JL suffixes,
anyway?? Thanks in advance.........Jayo WQ7P
```

---

253. Re: [APRSSIG:7121] Yet another Wx program!

From: Paul Stump <n0lrf@computer-services.com>
Date: Tue, 10 Dec 1996 22:19:49 -0800
To: aprssig@tapr.org
Message-ID: <32AE5285.A33@computer-services.com>
Rendered body type: text/plain

```
Tony Drumm wrote:
>
> I've been spending my "spare" moments writing a Windows 3.1 program to
> interface to my U2000 and APRS.  It's main purpose is to report weather data
> in more detail than APRS does for my home station including some showing
> some graphs.  I still wanted to be able to post my data to the APRS network
> so it does that, too.

Hey Tony, I'm VERY interested if it might also accept Ultimeter II data
(I don't know the data differences). I've been running a separate laptop
for
years on my WX line just so I can see the last 20 hour graphs, and still
run
APRS on my "big" computer. I'd LOVE to run APRS and collect WX data
24hrs per
day on one computer.

Thanks 4 your efforts,

--
73, Paul, n0lrf@computer-services.com
```

---

254. APRS in NWS Offices....

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 10 Dec 1996 20:50:10 -0800
To: aprssig@tapr.org
Message-ID: <199612110450.UAA06362@m1.sprynet.com>
Rendered body type: text/plain

```
The Kansas City APRS Working Group is attempting to get an APRS station
going at the National Weather Service office (NEXRAD site) here.  The area
Skywarn Coordinator, Dennis Carpenter (KA0SXY), has requested that I provide
him with information on what other NWS sites are doing with APRS in
conjunction with Skywarn activities and so forth.

Would you kindly EMail Mr. Carpenter DIRECT and CC the message(s) to me with
all of the information that you are able to provide on your experience(s)
with APRS in the local weather service offices.

We are particularly looking for the following information:

1)  How does APRS fit in to your overall Skywarn network?

2)  What unique benefits has the installation of an APRS position with your
local WSO presented with regard to Skywarn and other weather operations?

3)  What equipment you are using...

4)  Where you are located...

5)  Number of remote WX sensing sites (i.e. Ultimeters, Davis Bros., etc.)
that are within the service area of your WSO as well as your area APRS network.

6)  Number of spotters using APRS to aid in tracking of severe weather
events, mobile location, etc. along with the number of stations using full
laptop mobile/GPS, stand-alone tracker or MIC-E modules.

7)  Did the NWS provide your station equipment or what were the sources of
the APRS equipment at your NWS site?

8)  Any other pertinent, useful information that you can pass along to Mr.
Carpenter that will assist him in making a commitment to posting an APRS
station in our WSO and in planning for the on-air operations.

Thank you for your assistance and we appreciate your efforts!  Please
respond as soon as absolutely possible!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

255. Ultimeter II and KPC-3

From: "Gary Wells" <gwells@nbn.net>
Date: Wed, 11 Dec 1996 00:44:01 -0500
To: <aprssig@tapr.org>
Message-ID: <199612110544.AAA04922@mail.nbn.net>
Rendered body type: text/plain

```
Has anyone had any success with an U-II and a KPC-3 as a stand alone WX
station?  Yes, I have read the APRS help files and (believe it or not) the
KPC-3 manuals!  I set the GPSHEAD parameter to "*",but the TNC doesn't
store the string from the U-II in the LT buffer. The baud rates also match
at 2400, the LPT and BLT parameters are set.  It will beacon a test msg
stored in LT buffer 2.  Any ideas, anyone?
Thanks,
Gary Wells, N3HCP
Schaefferstown, PA
40 17.48 North
78 17.77 West
```

---

256. Re: [APRSSIG:7124] APRS in NWS Offices....

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 11 Dec 1996 07:46:05 -0500
To: aprssig@tapr.org
Message-ID: <32AEAD0D.4BB1@global2000.net>
Rendered body type: text/plain

```
Jim Duncan wrote:
>
> The Kansas City APRS Working Group is attempting to get an APRS station
> going at the National Weather Service office (NEXRAD site) here.  The area
> Skywarn Coordinator, Dennis Carpenter (KA0SXY), has requested that I provide
> him with information on what other NWS sites are doing with APRS in
> conjunction with Skywarn activities and so forth.
>
> Would you kindly EMail Mr. Carpenter DIRECT and CC the message(s) to me with
> all of the information that you are able to provide on your experience(s)
> with APRS in the local weather service offices.
>
> We are particularly looking for the following information:
>
> 1)  How does APRS fit in to your overall Skywarn network?
>
> 2)  What unique benefits has the installation of an APRS position with your
> local WSO presented with regard to Skywarn and other weather operations?
>
> 3)  What equipment you are using...
>
> 4)  Where you are located...
>
> 5)  Number of remote WX sensing sites (i.e. Ultimeters, Davis Bros., etc.)
> that are within the service area of your WSO as well as your area APRS network.
>
> 6)  Number of spotters using APRS to aid in tracking of severe weather
> events, mobile location, etc. along with the number of stations using full
> laptop mobile/GPS, stand-alone tracker or MIC-E modules.
>
> 7)  Did the NWS provide your station equipment or what were the sources of
> the APRS equipment at your NWS site?
>
> 8)  Any other pertinent, useful information that you can pass along to Mr.
> Carpenter that will assist him in making a commitment to posting an APRS
> station in our WSO and in planning for the on-air operations.
>
> Thank you for your assistance and we appreciate your efforts!  Please
> respond as soon as absolutely possible!!
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail:  ku0g@kcaprs.com
> EMail:  ku0g@sprynet.com


Would everyone please reply to this post ON the sig to benifit as many
of us as posible.

TNX & 73

John
```

--

John M Domblewski N2OJY
Wendy S Helm N2XXX
503 Middle Grove Rd
Middle Grove New York 12850-1107
518-584-6554
e mailto:wendysue@global2000.net

---

257. Help with Pico Packet GPS

From: schiers@ames.net
Date: Wed, 11 Dec 96 07:49:56 -0600
To: aprssig@tapr.org
Message-ID: <199612111352.HAA21163@brain.ames.net>
Rendered body type: text/plain

Like a dummy, I misplaced my manual. My PICO has dropped out of GPS mode while in the car in stand alone mode. I can't recall the command to put it back into gps mode.

Also, if you could pass along the other gps settings like sentence, etc for the PICO...I know that manual is around somewhere, but I want to get my mobile setup back on the air.

Can't figure out why it dropped out of gps mode just sitting there, but it has happened before. Wonder if it is a firmware problem?

73,

hasan schiers, N0AN--
----
schiers@ames.net

---

258. Gutted Windows for 386

From: jkozak@erols.com (John W. Kozak)
Date: Wed, 11 Dec 1996 09:02:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612111402.JAA26360@smtp1.erols.com>
Rendered body type: text/plain

Joe Scalet wrote...

>For those who might be interested I have Street Atlas 4 and the
>Tripmate GPS running on a 386/SL25 Compudyne, 8mb ram, 80mb hard drive. I
>have two states loaded (KS & MO). I had to gut Windows and DOS to do it
>and maintain a large enough swap file on the disk. I am not using Double
>Space (too slow). If you want a list of the required files drop me a
>private message (not to the sig) and I'll forward it.

Joe,

I would like to see your list of files, but any mail I send to you gets returned as undeliverable...

John Kozak; N3AGG
jkozak@erols.com

---

259. Re: [APRSSIG:7125] Ultimeter II and KPC-3

From: rwf <rwf@mindspring.com>
Date: Wed, 11 Dec 1996 09:06:25 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961211085602.0071c520@mindspring.com>
Rendered body type: text/plain

The thing I screwed up on mine was not using the WX symbol " _ " in the Position statement.

Aside from that, I just set the header to match (I think it was *). Some versions of the U-II used a # for the beginning string.

Did you make sure to use a null modem cable (swap pins 2 and 3). The U-II cable will not work directly into the KPC-3.

Good Luck

```
Ralph N4NEQ
rwf@mindspring.com   http:///www.mindspring.com/~rwf for lots of APRS info




At 11:47 PM 12/10/96 -0600, you wrote:
>
>Has anyone had any success with an U-II and a KPC-3 as a stand alone WX
>station?
```

260. Re: APRS and weather charts

From: Mark Sproul <sproul@ap.org>
Date: Wed, 11 Dec 1996 09:11:23 -0500
To: aprssig@tapr.org
Message-ID: <v03007805aed47148a45a@[165.1.27.20]>
Rendered body type: text/plain

```
>Tony Drumm wrote:
>>
>> I've been spending my "spare" moments writing a Windows 3.1 program to
>> interface to my U2000 and APRS.  It's main purpose is to report weather data
>> in more detail than APRS does for my home station including some showing
>> some graphs.  I still wanted to be able to post my data to the APRS network
>> so it does that, too.
>



WinAPRS will have weather graphs built in shortly, these already exist in
MacAPRS but we have not gotten the graphs ported to Windows yet.


Mark

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

261. Re: [APRSSIG:7124] APRS in NWS Offices....

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Wed, 11 Dec 1996 07:21:57 -0700
To: aprssig@tapr.org
Message-ID: <32AEC384.749@goodnet.com>
Rendered body type: text/plain

```
I'd be interested in this information to help sell it to our local
Skywarn/NWS office.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord."  Jos 24:15
```

262. Re: [APRSSIG:7125] Ultimeter II and KPC-3

From: Paul Stump <n0lrf@computer-services.com>
Date: Wed, 11 Dec 1996 08:41:11 -0600
To: aprssig@tapr.org
Message-ID: <32AEC807.6DC6@computer-services.com>
Rendered body type: text/plain

```
Gary Wells wrote:
>
> Has anyone had any success with an U-II and a KPC-3 as a stand alone WX
> station?  Yes, I have read the APRS help files and (believe it or not) the
> KPC-3 manuals!  I set the GPSHEAD parameter to "*",but the TNC doesn't
> store the string from the U-II in the LT buffer. The baud rates also match
> at 2400, the LPT and BLT parameters are set.  It will beacon a test msg
> stored in LT buffer 2.  Any ideas, anyone?

I had the EXACT same problem---until I realized that my 25-pin connector
was
wired wrong and WX data was not getting into the KPC-3. Seems like the
input
```

is an odd pin number---try pin 2 or pin 3 (I think)...

--
73, Paul, n0lrf@computer-services.com

263. WinAPRS and NWS Offices....

From: Mark Sproul <sproul@ap.org>
Date: Wed, 11 Dec 1996 09:42:29 -0500
To: aprssig@tapr.org
Message-ID: <v03007809aed47881563f@[165.1.27.20]>
Rendered body type: text/plain

I have added a lot of weather specific enhancements recently to WinAPRS,
weather graphs will be in shortly and there are lots more weather releated
enhancements comming.

Mark

```
_________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
_________________________________________________________________________
```

264. re:aprs in NWS office....

From: John M Domblewski <wendysue@global2000.net>
Date: Wed, 11 Dec 1996 09:46:18 -0500
To: aprssig@tapr.org
Message-ID: <32AEC93A.2B43@global2000.net>
Rendered body type: text/plain

Hi All

Would you reply on the sig to the questions about this thread as to
benifit as many of us as posible.

TNX & 73

John
--

John M Domblewski N2OJY
Wendy S Helm N2XXX
503 Middle Grove Rd
Middle Grove New York 12850-1107
518-584-6554
e mailto:wendysue@global2000.net

265. Re: [APRSSIG:7118] Re: Some little Tripmate stats

From: Douglas Brumm <dbbrumm@mtu.edu>
Date: Wed, 11 Dec 1996 09:50:04 -0500
To: aprssig@tapr.org
Message-ID: <961211095125.ZM4431@eefac-pc5.ee.mtu.edu>
Rendered body type: text/plain

```
On Dec 10,  5:47pm, Bob Bruninga wrote:
> Subject: [APRSSIG:7118] Re: Some little Tripmate stats
> On Tue, 10 Dec 1996, Gerald J Creager wrote:
>
> > Dick Mead sez:
> > >
> > > Current drain ON = 98Ma (approx)
> > > If the Tripmate is on and voltage is reduced from 6 to 5VDC,
current
> > > drain INCREASES to 120mA (approx)
> >
> > OK, so they used a low-drop regulator, and when you reduce it to 5
volts, it
> > gets a bit unhappy.  If you didn't smoke the regulator, it sounds
like even
> > that was pretty well designed.
>
> APRSdos REPLY/COMMENT:  No, I would say it is a DC/DC regulator that
> re-generates the DC.
```

```
>
> Reply mail addr:   wb4apr@amsat.org
> See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
>-- End of excerpt from Bob Bruninga


Either a DC-DC converter or some types of low dropout regulators can
have this type of behavior. Those two data points alone are not
sufficient to be sure which type of regulator it has.

73,
Doug Brumm     K8LHM    Calumet, MI       dbbrumm@mtu.edu
```

266. Re: [APRSSIG:7130] Re: APRS and weather charts

From: Paul Stump <n0lrf@computer-services.com>
Date: Wed, 11 Dec 1996 09:30:56 -0600
To: aprssig@tapr.org
Message-ID: <32AED3B0.500D@computer-services.com>
Rendered body type: text/plain

```
Mark Sproul wrote:

> WinAPRS will have weather graphs built in shortly, these already exist in
> MacAPRS but we have not gotten the graphs ported to Windows yet.
>
> Mark

BLESS YOU oh great guru! THAT's what I really need...
Thanks,

--
73, Paul, n0lrf@amsat.org
```

267. Re: [APRSSIG:7127] Help with Pico Packet GPS

From: Bob Powers <bob@ia-ngnet.army.mil>
Date: Wed, 11 Dec 1996 10:26:55 -0600
To: aprssig@tapr.org
Message-ID: <9612111024.aa09187@ngbia5.ia-ngnet.army.mil>
Rendered body type: text/plain

```
Hasan,

I don't have that info with me here at work, but do at home.  I have a Pico
also but haven't messed with it to much lately and can never remember the
commands.  I think I have a file/script that I use in my commo program to
set it up for tracker mode.


Bob Powers
Amateur Radio Operator - N0YKX
Internet: bob@ia-ngnet.army.mil (primary)
          n0ykx@juno.com        (secondary)
Packet:   n0ykx@ki0q


----------

| Like a dummy, I misplaced my manual. My PICO has dropped out of GPS mode
| while in the car in stand alone mode. I can't recall the command to put
it
| back into gps mode.
```

268. Garmin GPS20 Problem

From: Chan Siu Kwing Albert <askchan@HK.Super.NET>
Date: Thu, 12 Dec 1996 01:18:17 +0800
To: aprssig@tapr.org
Message-ID: <32AEECD6.6474@hk.super.net>
Rendered body type: text/plain

```
Hello everybody!
I live on a compartment type building in Hong Kong and I had bought a
GPS 20 from TAPR. Only one side of my flat open to air and here I setup
a Maldol HDX-30 wide band antenna (100Mhz - 1500Mhz) to the GPS 20. I
had tried both the GPSy and MacAPRS GPS related program. I get nothing
from the GPSy and I saw that the percentage good box increased at the
heads up dispaly from the MacAPRS at the first time. But after that I
got nothing change again. I had tried the programs many times and at
```

different time slot. I make sure that both the program receive data from
the GPS. Below is some data collected from a NMEA log:

```
$GPRMC,165546,V,,,,,,,111296,,*38
$GPGGA,165546,,,,,0,00,,,M,,M,,*63
$GPGSA,A,1,,,,,,,,,,,,,,,,*1E
$GPGSV,1,1,01,03,00,000,,,,,,,,,,,,,*4B
$PGRME,,,,,,*4D
$GPVTG,,T,,M,,N,,K*4E
```

Only the time field changes all the time. Does the GPS 20 have problem
or I collect no data from the air under my testing condition?

---

269. Software for APRS and Weather

From: Don Hilman <hilman@camosun.bc.ca>
Date: Wed, 11 Dec 1996 21:17:46 -0800
To: aprssig@tapr.org
Message-ID: <32AF957A.3954@camosun.bc.ca>
Rendered body type: text/plain

Have read several recent messages from individuals doing various
interfaces to APRS. I am an instructor of computer Science and sponsor
our College Station VE7CCD . We have underatken to write a variety of
APRS interface code as part of an interfacing course I teach. This
quarter just finshing we have created a few useful tools for sig members
and when I learn how to properly post them I will FTP them to the site.

The code so far ,(and source will be included) is as follows:

A general NMEA 0183 test program for Win95..written in C++
This program allows you to view raw data from any NMEA 0183   device for
testing purposes.

A Davis instruments interface to most any other O/S..reads Davis data
and re formats it for display in a variety of GUI's. So far the GUI
support includes WIn95 and QNX (Photon).

Programs still being worked on but will conclude in the Spring include
a JAVA based display for wind instrument data. The APRS piece is still
being written.

Real time Internet posting of aprs data using a more detailed map
overlay (in color) from a Cnandian digital chart family. Weather
intsrument interfaces will also be included and are expected to support
the Ultimenter and Davis as a start. Various incarnations of this
software will be posted on our WEB site after Christmas break. I will
post the URL after the site has been tested.

Merry Christmas to all

VE7FBI

All software is caveat emptor as it is student code but is of quite
good quality in my opinion and represents a great place to start for
SIG members intersted in software but are having a difficult time
getting off the mark.

---

270. Digest is good!

From: "Les Owles" <lesowles@tgis.co.uk>
Date: Wed, 11 Dec 1996 17:21:17 -0000
To: <aprssig@tapr.org>
Cc: <alan@niplag.demon.co.uk>
Message-ID: <199612111723.RAA06236@tgis.co.uk>
Rendered body type: text/plain

Hi,
I saw a couple of messages on the sig recently about using "digest"
mode on
TAPR . I am using Win95 Internet Mail program, trouble was the
"find" facility would only search the message that was currently on
display (Eudora didn't have this restriction) . However, if you opt
for "digest" on the sig you receive one long bulletin that contains
the listing and then the message contents, if you now use the "find"
facility the program will search the current "digest" for any keyword
. Very usefull if you need to refer to someone or something but can't
recall where it was you saw it. Not sure how big the digest gets
before it splits into parts though.
--
Les Owles [G4IRJ]
e-mail   lesowles@tgis.co.uk
Packet   G4IRJ @ GB7RDG

271. Re: [APRSSIG:7128] Gutted Windows for 386

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Wed, 11 Dec 1996 09:29:49 -0800 (PST)
To: aprssig@tapr.org
Cc: jkozok@erols.com
Message-ID: <Pine.GSO.3.95.961211092755.23334A-100000@oso.slonet.org>
Rendered body type: text/plain

```
As you, I am interested in knowing of those files.  You might post them
here if your server is giving difficulty...Cliff K7RR

On Wed, 11 Dec 1996, John W. Kozak wrote:

> Joe Scalet wrote...
>
> >For those who might be interested I have Street Atlas 4 and the
> >Tripmate GPS running on a 386/SL25 Compudyne, 8mb ram, 80mb hard drive. I
> >have two states loaded (KS & MO). I had to gut Windows and DOS to do it
> >and maintain a large enough swap file on the disk. I am not using Double
> >Space ( too slow ). If you want a list of the required files drop me a
> >private message ( not to the sig) and I'll forward it.
>
> Joe,
>
> I would like to see your list of files, but any mail I send to you gets
> returned as undeliverable...
>
> John Kozak; N3AGG
> jkozak@erols.com
>
>
```

272. APRS KPC-3

From: Paul Plasters <PEPLASTERS@mail.rkd.snds.com>
Date: Wed, 11 Dec 1996 11:40:07 -0600
To: aprssig@tapr.org
Message-ID: <s2ae9e1d.014@mail.rkd.snds.com>
Rendered body type: text/plain

```
I am getting "HSP TIMED OUT" when I press F8.  It does this using the
Kantronics HSP cable, and it also does it using Joe Agrelo's Multi port
adaptor.  Both previously worked.  Any ideas?  Paul WA9FFL Email to
wa9ffl@aol.com
```

273. Re: [APRSSIG:7135] Re: Some little Tripmate stats

From: "Eric A. Cottrell" <eac@shore.net>
Date: Wed, 11 Dec 1996 13:25:04 -0400
To: dbbrumm@mtu.edu
Cc: Aprssig@tapr.org
Message-ID: <850328704-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

The tripmate uses The Maxium MAX763A  DC-DC converter with 3.3 volt output.

73 Eric eac@shore.net
```

274. Re: [APRSSIG:7138] Garmin GPS20 Problem

From: Paul Stump <n0lrf@amsat.org>
Date: Wed, 11 Dec 1996 13:12:54 -0600
To: aprssig@tapr.org
Message-ID: <32AF07B6.7A65@amsat.org>
Rendered body type: text/plain

```
Chan Siu Kwing Albert wrote:

> I live on a compartment type building in Hong Kong and I had bought a
> GPS 20 from TAPR. Only one side of my flat open to air and here I setup
> a Maldol HDX-30 wide band antenna (100Mhz - 1500Mhz) to the GPS 20. I

I would suspect your antenna is not suited for circular polarized GPS
signals...maybe...

73, Paul, n0lrf@amsat.org
```

275. Re: [APRSSIG:7141] Re: Gutted Windows for 386

From: "David W. McNeil" <ki5vm@flash.net>
Date: Wed, 11 Dec 1996 13:23:30 -0600
To: aprssig@tapr.org
Message-ID: <32AF0A32.7E29@flash.net>
Rendered body type: text/plain

```
Clifford Buttschardt wrote:
>
> As you, I am interested in knowing of those files.  You might post them
> here if your server is giving difficulty...Cliff K7RR
>
> On Wed, 11 Dec 1996, John W. Kozak wrote:
>
> > Joe Scalet wrote...
> >
> > >For those who might be interested I have Street Atlas 4 and the
> > >Tripmate GPS running on a 386/SL25 Compudyne, 8mb ram, 80mb hard drive. I
...snip..
For those having difficulty in obtaining this list.
There is a typo in the return address.
should be  jscalet@sound.net   .
de Dave KI5VM
ki5vm@flash.net
```

---

276. Re: [APRSSIG:7132] Re: Ultimeter II and KPC-3

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 11 Dec 96 14:47:23 -0500
To: <aprssig@tapr.org>
Message-ID: <199612111947.OAA21460@newworld.bridge.net>
Rendered body type: text/plain

```
>> Has anyone had any success with an U-II and a KPC-3 as a stand alone WX
>> station?  Yes, I have read the APRS help files and (believe it or not) the
>> KPC-3 manuals!  I set the GPSHEAD parameter to "*",but the TNC doesn't
>> store the string from the U-II in the LT buffer. The baud rates also match
>> at 2400, the LPT and BLT parameters are set.  It will beacon a test msg
>> stored in LT buffer 2.  Any ideas, anyone?
>
>I had the EXACT same problem---until I realized that my 25-pin connector
>was
>wired wrong and WX data was not getting into the KPC-3. Seems like the
>input
>is an odd pin number---try pin 2 or pin 3 (I think)...
>
Actually, what this is about is DCE vs DTE, sort of the electical
equivalent of male and female connectors. Both the U-II and KPC are DCE
(Data Communications Equipment). Normally a DCE is attached to a DTE
(Data Terminal Equipment) like a computer. To connect two DCE's you need
to use a null modem cable, which flips pins 2 and 3. Using a regular
RS-232 cable connects the two inputs to each other, and the two outputs
together, so nothing works.

Null modem cables flip several other lines as well, but for this
application you only need to connect pin 3 on the U-II cable to pin 2 on
the TNC, and of course signal ground, pin 7 on each.

Radio Shack sells a null modem adapter you can use with a regular cable,
or you can buy a null modem cable, or wire your own.

Steve K4HG
```

---

277. W1ON-3 Gate now QRT

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Wed, 11 Dec 1996 13:04:06 -0500
To: aprssig@tapr.org
Cc: n1cpe@amsat.org, aps@ieee.org, bruce@testware.com, aardvark@krl.com,
    eparish@netcom.com, eric@waaf.com, jorvedahl@aol.com,
    koisj@ziplink.net, jgarrett@world.std.com,
    neil%starfleet.bbn.com@bbn.com, phil@temples.com,
    amirault@laraby.tiac.net, pozerss@polaroid.com,
    schwarm@spectre.mitre.org, kd1sm@ziplink.net, n1qpr@amsat.org,
    n1kxj@juno.com, isham@jeremy.ecs.umass.edu
Message-ID: <3.0.32.19961211130255.006c79a4@cassatt>
Rendered body type: text/plain

```
The trustee of W1ON reported to me that thet W1ON-3 gateway is currently
QRT (the HF transciever has been powered off). Shortly, they'll take a look
at fixing whatever software is in there and returning it to operation, we
expect, in a more friendly mode.
```

```
 Thanks for everyone's patience.

- Tom Kinahan N1CPE


---------------------------------------------------------------------
Tom Kinahan                     Phone:          508-871-0305
US Robotics                     Fax:            508-870-1689
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
```

278. Re: Garmin GPS20 Problem

From: Terrance Kealey <tkealey@mdc.com>
Date: Wed, 11 Dec 1996 15:07:19 -0600
To: aprssig@tapr.org
Message-ID: <s2aecf21.018@mdc.com>
Rendered body type: text/plain

```
>From what you have stated, you have two potential problems that will
inhibit satellite acquisition. First, you need to get an antenna designed
specifically for GPS.  I am not familiar with your wideband antenna, but
it does not have the gain required for GPS. The GPS signal is at 1575
MHz and is circularly polarized. You can make a simple 1/4 wave
antenna that is 4.8 cm long. This type of antenna would have 3 dB
polarization loss, but would be far better that your wideband antenna.

The second problem is your view of the sky. If you do have building
obstructions, try placing the antenna on the south side of the building is
possible. At your location, the worst satellite coverage is to the north.

Terry, KI0BF

>>> Chan Siu Kwing Albert <askchan@HK.Super.NET> 12/11/96
11:17am >>>
Hello everybody!
I live on a compartment type building in Hong Kong and I had bought a
GPS 20 from TAPR. Only one side of my flat open to air and here I
setup a Maldol HDX-30 wide band antenna (100Mhz - 1500Mhz) to the
GPS 20.
```

279. Re: [APRSSIG:7147] W1ON-3 Gate now QRT

From: Paul Stump <n0lrf@amsat.org>
Date: Wed, 11 Dec 1996 15:53:45 -0600
To: aprssig@tapr.org
Message-ID: <32AF2D69.3FC0@amsat.org>
Rendered body type: text/plain

```
Tom Kinahan wrote:
>
> W1ON-3 gateway is currently QRT
>
>  Thanks for everyone's patience.
>
> - Tom Kinahan N1CPE

Thank YOU for your help, Tom.

--
73, Paul, n0lrf@amsat.org
```

280. Re: [APRSSIG:7147] W1ON-3 Gate now QRT

From: schiers@ames.net
Date: Wed, 11 Dec 96 16:15:19 -0600
To: aprssig@tapr.org
Message-ID: <199612112214.QAA28211@brain.ames.net>
Rendered body type: text/plain

```
In <3.0.32.19961211130255.006c79a4@cassatt>, on 12/11/96 at 02:55 PM,
   Tom Kinahan <kinahan@cassatt.Mass-USR.COM> said:

> Thanks for everyone's patience.

Your a prince, Tom. Thanks...and you make great modems. I
have 3...two 33.6K Sporters and one V.Everything flash rom.
Can't wait to get the X2 code for it! 73

hasan schiers, N0AN
```

```
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

281. Compacted W3.1 and DOS

From: Joe Scalet <jscalet@sound.net>
Date: Wed, 11 Dec 1996 20:58:08 -0600
To: aprssig@tapr.org
Message-ID: <32AF74C0.4044@sound.net>
Rendered body type: text/plain

```
I've had so many requests for my proceedure to get Street Atlas 4 loaded
and running on my laptop with 80mb drive that I've decided to post it
here. This is very much a work in progress and any further input would
be appreciated. Please understand that the purpose of this is to get one
program , Street ATLAS 4 with GPS, running on a laptop that is available
because no longer is usefull with the current generation of software. At
one time I had a list of the files that Win 3.0 required but it is out
of date. I've been unable to get a similar list for W3.1X or for the 32
bit extensions.

The attached file lists the current settup. I would imagine that this
would also be usefull for WINAPRS to allow space for more files.

A note of caution ! If you experiment move the files you want to remove
to a temporary directory first and then reload Windows and test your
software. Good Luck @ 73  Joe WK0G
```
[Attachment: Mincfg.txt; text/plain; 16,506 bytes]

282. Oops, I left out the address!

From: Jim Duncan <ku0g@sprynet.com>
Date: Wed, 11 Dec 1996 20:11:28 -0800
To: aprssig@tapr.org
Message-ID: <199612120411.UAA28946@m1.sprynet.com>
Rendered body type: text/plain

```
The Email address for Dennis Carpenter, KA0SXY, is

srstech@kcnet.com

(this would be regarding my posting of yesterday about APRS and Skywarn)

Sorry....It was late when I typed the request...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

283. QRZ Index File

From: ke4sop@netwide.net (Ed Unrein)
Date: Thu, 12 Dec 1996 09:23:21 -0500
To: aprssig@tapr.org
Message-ID: <32B01559.7EEE@netwide.net>
Rendered body type: text/plain

```
Does someone know the file name and the URL of where I can obtain the
QRZ index file for WINAPRS?

Thanks,
73's
ke4sop@netwide.net
```

284. NMEA and GPS units

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 12 Dec 1996 09:54:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961212092516.4299A-100000@arctic>
Rendered body type: text/plain

```
OK.  We need to fill in this table.  These are the NMEA sentences used by
APRSdos.  (Keith, does Mac/Win use any others?)

If you have a different GPS, please send in your data.
Preferably by pasting your data on the end and replying the message...

                Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
```

GPS UNIT	GLL	GGA	VTG	RMC	GSV	PGRMZ	PMGLB	HDM
Magln 5000	X	X	X	.	?		?	.
Garmin45 v1.5	X	.	X	X	.	.	.	.
v2.0	X	X	.	X	X	X	.	.
Garmin GPS-20	.	X	X	X	X	.	.	.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

285. Re: [APRSSIG:7154] NMEA and GPS units

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Thu, 12 Dec 1996 09:21:03 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961212092022.18624A-100000@jerryc>
Rendered body type: text/plain

Hey Bob what about the Garmin GPS-25? I would guess it is the same as the GPS-20. Thanks and 73 de Don KA0JLF

On Thu, 12 Dec 1996, Bob Bruninga wrote:

> OK. We need to fill in this table. These are the NMEA sentences used by APRSdos. (Keith, does Mac/Win use any others?)
>
> If you have a different GPS, please send in your data.
> Preferably by pasting your data on the end and replying the message...
>
> | | Pos | Pos/Alt | Cse/Spd | Pos/Cse/Spd | Az/El | Alt | Alt | Hdg |
> |---|---|---|---|---|---|---|---|---|
> | GPS UNIT | GLL | GGA | VTG | RMC | GSV | PGRMZ | PMGLB | HDM |
> | Magln 5000 | X | X | X | . | ? | | ? | . |
> | Garmin45 v1.5 | X | . | X | X | . | . | . | . |
> | v2.0 | X | X | . | X | X | X | . | . |
> | Garmin GPS-20 | . | X | X | X | X | . | . | . |
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

286. Re: [APRSSIG:7155] Re: NMEA and GPS units

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Thu, 12 Dec 1996 09:44:59 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961212094318.18624C-100000@jerryc>
Rendered body type: text/plain

Well I READ this finally. My GPS-25 has a $LCGLL is that compatible with the GLL you have listed? Or is it looking for something other than $LC?
73

On Thu, 12 Dec 1996, Don Pfister KA0JLF wrote:

> Hey Bob what about the Garmin GPS-25? I would guess it is the same as the GPS-20. Thanks and 73 de Don KA0JLF
>
> On Thu, 12 Dec 1996, Bob Bruninga wrote:
>
> > OK. We need to fill in this table. These are the NMEA sentences used by APRSdos. (Keith, does Mac/Win use any others?)
> >
> > If you have a different GPS, please send in your data.
> > Preferably by pasting your data on the end and replying the message...
> >
> > | | Pos | Pos/Alt | Cse/Spd | Pos/Cse/Spd | Az/El | Alt | Alt | Hdg |
> > |---|---|---|---|---|---|---|---|---|
> > | GPS UNIT | GLL | GGA | VTG | RMC | GSV | PGRMZ | PMGLB | HDM |
> > | Magln 5000 | X | X | X | . | ? | | ? | . |
> > | Garmin45 v1.5 | X | . | X | X | . | . | . | . |
> > | v2.0 | X | X | . | X | X | X | . | . |
> > | Garmin GPS-20 | . | X | X | X | X | . | . | . |

```
> > Reply mail addr:   wb4apr@amsat.org
> > See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
> > GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
> >
>
```

287. Mir passes nearby

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 12 Dec 1996 11:18:58 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961212110758.4299K-100000@arctic>
Rendered body type: text/plain

If you "listen" to packet as I do (I just gotta hear those little beeps to know what is REALLY going on on the channel)... THen you may be noticing a station comming on occassionally in the afternoon to midnight time frame that seems to be chirping a lot of very brief packets.

Well, that is MIR who is now on our APRS frequency (145.803 at start of pass and 145.797 near end of pass). Of course it doesnt bother APRS because the signals are far weaker than our terrestrial net, BUT if you simply tune up 10 KHz to the middle of the passband, then you may see a few DX grid square stations! I saw 2 yesterday in New England.

THe very brief packets you hear are of course REJ-BUSY packets to all of the stations trying to connect to MIR (a useless exercise since only one station in the world can be connected at a time)... The longer packets may be someone reading the BBS (very rare due to all the QRM) or, an occassional UI BEACON from someone.

Anyway, since they are on our frequency now, you might find it entertaining to watch. OF COURSE, I DO NOT ENCOURAGE the use of APRS via MIR, but if you are so compelled to send a UI frame via R0MIR, then you may as well make it very brief and may as well put something useful in it like a 6 digit grid square... (alt-SETUP-FORMATS-SPACE)

```
Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
```

288. Re: [APRSSIG:7154] NMEA and GPS units

From: Mike Heskett <mheskett@startext.net>
Date: Thu, 12 Dec 1996 10:31:30 -0600
To: aprssig@tapr.org
Message-ID: <32B03362.4B64@mail.startext.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> OK.  We need to fill in this table.  These are the NMEA sentences used by
> APRSdos.  (Keith, does Mac/Win use any others?)
>
> If you have a different GPS, please send in your data.
> Preferably by pasting your data on the end and replying the message...
>
>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
> GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM
> -------------   --- ------- ------- ----------- ----- ----- ----- ---
> Magln 5000       X     X       X         .        ?           ?    .
> Garmin45 v1.5    X     .       X         X        .     .     .    .
>          v2.0    X     X       .         X        X     X     .    .
> Garmin GPS-20    .     X       X         X        X     .     .    .

  Icom GP-22       X     X       X         .        .     .     .    .
  w/OPK-4
--
==/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
Mike Heskett    email   mheskett@startext.net
WB5QLD          packet  WB5QLD@WO5H.#DFW.TX.USA.NOAM
Hurst, TX
O-
```

289. Watch your screens for APRS DX!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 12 Dec 1996 11:42:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961212113928.4299O-100000@arctic>
Rendered body type: text/plain

```
Apparently the Geminids hit on Sunday the 15th.  Each morning you wake up,
look at your APRS screen for DX stations.  If you see someone unusual,
look at their path on the D-Screen.

You may not have heard them direct, but you may have heard one of their
DIGIPEATS via direct MScatter.  Your judgment...

Read README\METEOR.txt
```

---

290. WX and KPC-3 info and SIG Searching

From: barrettd@crpl.cedar-rapids.lib.ia.us
Date: Thu, 12 Dec 1996 10:48:07 -0600
To: aprssig@tapr.org
Message-ID: <32B03747.1B9E@crpl.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
I've seen a few questions that are ones that pop up from time to time,
and while there may not be an FAQ the next best thing is using TAPR's
new list search engine. It's a great addition and a super tool.
Just point your Web Browser to:
http://www.tapr.org/cgi-bin/iform.tapr?APRSSIG

Date: Tue, 16 Jul 96 17:47 EST
From: Miami Network <0004818186@mcimail.com>
To: aprssig
Subject: Re: [APRSSIG:3049] Ultimeter II and KPC-3
Message-Id: <63960716224736/0004818186NA3EM@MCIMAIL.COM>

Connecting the Ultimeter 2000 (if that is the same as the II)
is straight forward:

Pin #3 from the Ultimeter is Data Out
Pin #5 from the Ultimeter is Ground

Pin #3 from the Ultimeter goes to Pin #2 of the KPC-3
Pin #5 from the Ultimeter goes to Pin #7 of the KPC-3

Set the TNC as follows:

GPSHEAD 1 !!      /* This is the string that the Utimeter sends out /*
LTP 1 APRS WIDE   /* This is your path for the transmitted information
/*
BLT 1 every 00:05:00 /* Sets timer 1 for every 5 minutes /*
LT 1  /* will have the Information from the Ultimeter /*
INT GPS  /* Put the TNC into GPS Mode Turn it off and then ON /*

It will work unattended and without a PC connected to it or
without the APRS software.  We have several in Miami that are
set up this way for automatic Wx reporting to the National
Hurricane Center.


73, Seymour, KC4NMY
```

---

291. Re: [APRSSIG:7156] Re: NMEA and GPS units

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 12 Dec 1996 11:53:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961212115218.4299Q-100000@arctic>
Rendered body type: text/plain

```
On Thu, 12 Dec 1996, Don Pfister KA0JLF wrote:

> Well I READ this finally. My GPS-25 has a $LCGLL is that compatible with
> the GLL you have listed? Or is it looking for something other than $LC?

APRSdos REPLY/COMMENT:  I doubt it is $LCGLL which would be from a
LORAN-C; but more like a $GPGLL which is from a GPS unit.  Anyway, doesnt
matter, APRS ignores the "sending" device nomenclature.

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
```

---

292. Re: [APRSSIG:7154] NMEA and GPS units

From: bob <w2g3zfj@unix.asb.com>
Date: Thu, 12 Dec 1996 12:18:26 -0500
To: aprssig@tapr.org

Message-ID: <199612121718.MAA01879@unix.asb.com>
Rendered body type: text/plain

The Magnavox MX4200 outputs; GGA, GLL and VTG plus several other propriatory messages.

By the way, if anyones interested, I use a small microcontroller to synthesize an RMC sentence from the GGA/VTG output of the MX4200. Saves bandwidth.
Let me know if anyone needs details.

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com

PS I presume we want this posted to the SIG?

At 08:55 12/12/96 -0600, you wrote:

```
>OK.  We need to fill in this table.  These are the NMEA sentences used by
>APRSdos.  (Keith, does Mac/Win use any others?)
>
>If you have a different GPS, please send in your data.
>Preferably by pasting your data on the end and replying the message...
>
>                Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
>GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM
>-------------   --- ------- ------- ----------- ----- ----- ----- ---
>Magln 5000       X     X       X         .        ?           ?    .
>Garmin45 v1.5    X     .       X         X        .     .     .    .
>         v2.0    X     X       .         X        X     X     .    .
>Garmin GPS-20    .     X       X         X        X     .     .    .
>
>
>Reply mail addr:   wb4apr@amsat.org
>See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
>GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
>
>
>
```

293. U-II and KPC-3

From: "Gary Wells" <gwells@nbn.net>
Date: Thu, 12 Dec 1996 14:04:06 -0500
To: <aprssig@tapr.org>
Message-ID: <199612122053.PAA03151@mail.nbn.net>
Rendered body type: text/plain

Many thanks to all those who replied to my message about connecting the U-II to the KPC-3. With your help the system is up and running. I hope to use it as a self contained, portable WX reporting station that can be put up in a few minutes when and where needed.
Once again, thanks to all :-)
Gary, N3HCP

294. Re: NMEA and GPS units

From: Charles Dapples <ccdapple@wtp.net>
Date: Thu, 12 Dec 1996 14:29:17 -0700
To: APRSsig <aprssig@tapr.org>
Message-ID: <9612122129.AA31538@wtpprod1.wtp.net>
Rendered body type: text/plain

From:ccdapple@wtp.net
Date:12/12/96 14:26:08
To:aprssig@tapr.org
Subject:Re: NMEA and GPS units

On Thu, 12 Dec 1996, Bob Bruninga wrote:

```
> OK.  We need to fill in this table.  These are the NMEA
sentences used by
> APRSdos.  (Keith, does Mac/Win use any others?)
>
> If you have a different GPS, please send in your data.
> Preferably by pasting your data on the end and replying
the message...
>
>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El
Alt   Alt  Hdg
> GPS UNIT        GLL   GGA     VTG       RMC      GSV
```

```
PGRMZ PMGLB HDM
> -------------   --- ------- ------- ----------- -----
----- ----- ---
> Magln 5000       X     X       X         .        ?
     ?    .

  Magln XL         X     X       X         X        .
.     .    .
> Garmin45 v1.5    X     .       X         X        .
.     .    .
>          v2.0    X     X       .         X        X
X     .    .
> Garmin GPS-20    .     X       X         X        X
.     .    .
>
>
> Reply mail addr:   wb4apr@amsat.org
> See  APRS  LIVE:
http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio:
http://www.tapr.org/tapr.html/mic-e.html
>
```

---

295. APRS/Skywarn info @ NEXRAD sites

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Thu, 12 Dec 1996 22:43:05 +0000
To: srstech@kcnet.com
Cc: ku0g@kcaprs.com, aprssig@tapr.org
Message-ID: <32B08A79.5B17@netins.net>
Rendered body type: text/plain

We are particularly looking for the following information:

1) How does APRS fit in to your overall Skywarn network?

We use voice FM repeaters to exchange WX info to/from the NWS site as our primary means of info exchange, at least for now. The secondary means used, because we do not have very many stations on the air yet, is APRS.

2) What unique benefits has the installation of an APRS position with your local WSO presented with regard to Skywarn and other weather operations?

It allows for dissemination of both the nature of the WX and its position info to be sent from the NWS office and also to be recieved in a visual format. Later when more hams have voice and GPS equipment installed in their spotter vehicles it will provide a very rapid accurate, return of position and type of WX info to the NWS and simultaneously to other APRS equipped stations.

3) What equipment you are using...

The local club furnished two radios, one for voice and one for APRS, a power supply, and two verticle antennas mounted on a tower furnished by the NWS that we share space on. We use our HT's to hit a local repeater so we monitor at least two voice VHF frequencies and APRS. A 386 (I believe, using LINUX OS for the display and routing of AFOS auto WX data) computer provided by the NWS on our operating desk together with a 486 box at the second ops desk we share space at.

4) Where you are located...

We are provided two operating desks in the main NEXRAD building. One for our sole use that is in the NEXRAD operations room but out of their way and the second in an adjacent partioned cubby-hole that we share with regular WX admin. and/or research function use.

5) Number of remote WX sensing sites (i.e. Ultimeters, Davis Bros., etc.) that are within the service area of your WSO as well as your area APRS network.
We only have three 24 hour sites and two additional part time sites at present.

6) Number of spotters using APRS to aid in tracking of severe weather events, mobile location, etc. along with the number of stations using full laptop mobile/GPS, stand-alone tracker or MIC-E modules.

So far, just two laptop/GPS stations.

7) Did the NWS provide your station equipment or what were the sources of the APRS equipment at your NWS site?

The NWS provided two CPU's. A 386 CPU and monitor full time and we share the use of a 486 box running Windows 95. The NWS (I suspect the Meteorologist In Charge and perhaps one or more of the employees) paid or offered to pay for the WinAPRS software registration. Mark and Keith when asked about method of payment provided a registration number free of charge to the NWS at our site. The local club had earlier purchased a copy of the regular APRS program for use by the club remote U-II site/s.
The 386 box has LINUX installed by Ron Luse, KD9KX. He has it set up to act as a router to extract certain WX products from the AFOS system, route it to the monitor at our main voice ops desk and also to the 486 box running WinAPRS thence to the TNC and out on 145.79 Mhz.

8) Any other pertinent, useful information that you can pass along to Mr. Carpenter that will assist him in making a commitment to posting an APRS station in our WSO and in planning for the on-air operations.

The only drawback to the automatic WX products on 145.79 Mhz is that a few of the APRS stations are using the DOS version.
When the auto WX is sent it appears at the bottom of the screen then the 2nd line of auto WX appears below the 1st and pushes the 1st line up which blanks out the bottom approx 1/4 inch of the map. Each succeeding line pushes/scrolls the text data up obscuring more of the map until eventually there is no map visible.. This can be eliminated by hitting the space bar and forcing a redraw of the map. Of course the minute the next auto WX data is sent the screen begins to be blanked out again.
WinAPRS and MacAPRS are not negatively affected this way.
Ron is working on a solution.
It takes a little more training to use APRS and or WinAPRS than the voice system. I'd recommend having at least two ops one for voice and one for APRS. But I've seen situations when four operators could have been used. They all would have been busy!!

--
Bill Hays - w0omv email:billh@netins.net
I am located in Davenport, Iowa and work with the NWS with QTH
at the Davenport airport. I think the site is "DVN" in WX service
parlay. Don't know what the new 4 character ID is yet.
Hope this is of some help.

---

296. Re: [APRSSIG:7158] NMEA and GPS units - Data Added

From: birksd@cadvision.com (David R. Birks)
Date: Thu, 12 Dec 1996 16:23:29 -0700
To: aprssig@tapr.org
Message-ID: <199612122323.QAA11210@huey.cadvision.com>
Rendered body type: text/plain

```
>Bob Bruninga wrote:
>>
>> OK.  We need to fill in this table.  These are the NMEA sentences used by
>> APRSdos.  (Keith, does Mac/Win use any others?)
>>
>> If you have a different GPS, please send in your data.
>> Preferably by pasting your data on the end and replying the message...
>>
>>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
>> GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM
>> -------------   --- ------- ------- ----------- ----- ----- ----- ---
>> Magln 5000       X     X       X         .        ?           ?    .
>> Garmin45 v1.5    X     .       X         X        .     .     .    .
>>          v2.0    X     X       .         X        X     X     .    .
>> Garmin GPS-20    .     X       X         X        X     .     .    .
>> Garmin GPS-55    x     .       .         X        .     X     .    .   **
>> Garmin GPS95XL   X     .       .         X        .     X     .    .   **
>>  Icom GP-22      X     X       X         .        .     .     .    .
>  w/OPK-4
>--

============================================================================

** The Garmin 55 and 95XL also output the following sentences:
        GPBWC, GPRMB, GPROO, GPXTE and GPWPL
```

73 de Dave VE6MJR

297. GPS NMEA...

From: Paul Stump <n0lrf@amsat.org>
Date: Thu, 12 Dec 1996 19:04:12 -0800
To: aprssig@tapr.org
Message-ID: <32B0C7AC.6E58@amsat.org>
Rendered body type: text/plain

```
>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
> GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM
> -------------   --- ------- ------- ----------- ----- ----- ----- ---
> Magln 5000       X     X       X         .        ?           ?    .
> Garmin45 v1.5    X     .       X         X        .     .     .    .
>          v2.0    X     X       .         X        X     X     .    .
> Garmin GPS-20    .     X       X         X        X     .     .    .
  GARMIN GPS 25    .     X       X         X        X     .     .    .
***
> Garmin GPS-55    x     .       .         X        .     X     .    .    **
> Garmin GPS95XL   X     .       .         X        .     X     .    .    **
  GARMIN GPS 130   X     X       X         X        X     X     .    .
****
>  Icom GP-22      X     X       X         .        .     .     .    .
>  w/OPK-4
> ============================================================================
>
> ** The Garmin 55 and 95XL also output the following sentences:
>         GPBWC, GPRMB, GPROO, GPXTE and GPWPL

  *** Also:
    GSA: Dopler & active Sat's
  LCGLL: Loran Talker ID Lat/Long/UTC
  LCVTG: Loran Talker ID track & velocity

  *** Also:
    GSA, RMB, RTE, WPL, BOD

ICU,
--
73, Paul, n0lrf@amsat.org
```

---

298. Re: [APRSSIG:7166] Re: NMEA and GPS units - Data Added

From: William Nolle <wa8inz@concentric.net>
Date: Thu, 12 Dec 1996 19:21:50 -0800
To: aprssig@tapr.org
Message-ID: <32B0CBCE.D06@concentric.net>
Rendered body type: text/plain

```
David R. Birks wrote:
>
> >Bob Bruninga wrote:
> >>
> >> OK.  We need to fill in this table.  These are the NMEA sentences used by
> >> APRSdos.  (Keith, does Mac/Win use any others?)
> >>
> >> If you have a different GPS, please send in your data.
> >> Preferably by pasting your data on the end and replying the message...
> >>
> >>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
> >> GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM
> >> -------------   --- ------- ------- ----------- ----- ----- ----- ---
> >> Magln 5000       X     X       X         .        ?           ?    .
> >> Garmin45 v1.5    X     .       X         X        .     .     .    .
> >>          v2.0    X     X       .         X        X     X     .    .
> >> Garmin GPS-20    .     X       X         X        X     .     .    .
> >> Garmin GPS-55    x     .       .         X        .     X     .    .    **
> >> Garmin GPS95XL   X     .       .         X        .     X     .    .    **
> >>  Icom GP-22      X     X       X         .        .     .     .    .
> >> Magln 5000DX     X     X       X         X        .     .     .    .    **
>
> ============================================================================
>
> ** The Magellan NAV 5000DX also output the following:
>    BWC,APA,GLL,RMB,BWC,XTE,GLL,APB
> --
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

299. Tripmate Power

From: William Nolle <wa8inz@concentric.net>
Date: Thu, 12 Dec 1996 19:32:05 -0800
To: aprssig@tapr.org
Message-ID: <32B0CE35.1C31@concentric.net>
Rendered body type: text/plain

Chip Fleming wrote:

> Hi,
>
> Here is a DC regulator design that I built into my Tripmate battery compartment, thereby voiding the warranty. I am going to AZ on vacation next week, and I couldn't wait for DeLorme. If you would like to build your own, here is the design.
>
> Components can be ordered from DigiKey, 1-800-344-4539:
>
> | REF | Qty | Part Number | Price | Description |
> |---|---|---|---|---|
> | J1 | 1 | CP-5-ND | $1.83 | female 5.5 x 2.1 mm jack w/sw |
> | CR1 | 1 | 1.5KE18AGICT-ND | $1.28 | 18V transient absorbing zener |
> | CR2 & CR3 | 2 | 1N4001CT-ND | $0.60ea. | rectifier diode |
> | CR4 | 1 | P6KE6.8AGICT-ND | $0.84 | 6.8V transient absorbing zener |
> | C1 | 1 | P2077-ND | $2.01 | 4.7 uF 50V tantalum cap |
> | C2 | 1 | P2034-ND | $0.33 | 2.2 uF 16V tantalum cap |
> | U1 | 1 | NJM7806FA-ND | $0.88 | 6V 1A positive voltage reg |
>
> I built it on a piece of Radio Shack 276-150 ($1.19) Multipurpose PC Board that I cut out with an old pair of dikes.
>
> Theory: J1 is a female 5.5 x 2.1 mm jack with a built-in switch. I installed it in the side of my Tripmate on the cord end. (I also glued a pair of Radio Shack 64-1877 magnets on the bottom of the Tripmate, with electrical tape on the bottom to protect my car--keep those bad boys away from your floppies and your laptop!) The switch is on the sleeve side, not the pin side, so I used it to interrupt the negative (black lead) side of the battery, since I didn't want the alkaline batteries to see the output of U1 for extended periods. When the mating plug is plugged in all the way, the connection between J1-2 and J1-3 is broken. The center of the plug mates with J1-1 (positive); the sleeve with J1-3 (negative). The wall wart (e.g. Radio Shack 273-1455) or cigarette lighter adapter (e.g. Radio Shack 270-1533) supplies +VDC on the inside contact and -VDC on the outside contact.
>
> CR1 and CR4 are transient absorbing zener diodes. Their function is to provide spike protection to U1 and to the Tripmate respectively. CR1 limits the DC input range to less than about 15 VDC. CR4 cuts in at about 6.4 to 7.1 VDC in case anything makes it past CR1 and thru U1. Someone else commented they thought 8V would be about as high as you'd want to go on the Tripmate Rockwell board.
>
> C1 is an input filter for U1 (pin 1). The voltage rating of 50V is conservative given the presence of CR1, but automobile power is so bad, why not. C2 is there to clean things up a little bit on the output of U1 (pin 3). U1 seems tame with it on the other side of CR3. I wish I'd put in a good ceramic high-frequency cap as well, but I cut a corner on that one.
>
> I also wish I'd had room for a filter inductor on the input of U1. You can add it if you're even more leery of automobile power than I am.
>
> CR3 is there because I decided I didn't want the battey pack supplying voltage to the output of U1 when the external power is disconnected, and CR2 is there to compensate for the voltage drop of CR3 by providing the same drop on the ground lead of U1 (pin 2). This may seem kind of hokey, but it seems to work OK.
>
> I tested it with the wall wart and with my Honda Accord (about two hours of driving). It didn't smoke, heck, it didn't even get warm. And it didn't fry my Tripmate. And with the magnet mount, it stays on the car at 65 mph. (But it's not completely waterproof...yet.)
>
> I'd suggest fusing the cigarette lighter adapter with a 0.5A fuse, just in case.
>
> Comments welcome, as long as they're constructive. Sorry, no construction help--this is for the folks who have already burned their fingers a few times.
>

```
> Schematic is in GIF format.  Hope everyone can read it.
>
> 73, Chip Fleming, N3USL
>
>     -------------------------------------------------------------

I hope this comes through ok. Was posted on sci.geo.satellite-nav

--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

300. Tripmate ext. antenna?

From: Anthony Hickey <fhickey@neosoft.com>
Date: Thu, 12 Dec 1996 20:13:53 -0600
To: aprssig@tapr.org
Message-ID: <32B0BBE1.6194@neosoft.com>
Rendered body type: text/plain

```
I've been following the mail about the tripmate and I am wondering if it
is possible to modify it to use an external antenna.  I don't quite like
the idea of setting it on the dashboard for several reasons, especially
because of its bright color.  Please, I would like to find out before I
go out and purchase one.

                                Thanks, Anthony AB5QR
```

---

301. Re: [APRSSIG:7170] Tripmate ext. antenna?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Thu, 12 Dec 1996 23:03:01 -0400
To: fhickey@neosoft.com
Cc: Aprssig@tapr.org
Message-ID: <850449781-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

Basically you need to dig the unit out of the box, disconnect
the patch antenna, and rig up a connector.

The problem is that there is no voltage supply for a preamp.  There
is the network for it, but from the material on the chip set I read the
power is feed thru the chip.  I am not sure if I could get enough
information on how to modify it to feed in preamp power.
Given that unimplemented features like 1 PPS is just a tiny pin
on a surface mount chip I bet the Preamp supply is the same
way.

73 Eric eac@shore.net
```

---

302. Tripmate GPQ command

From: "Eric A. Cottrell" <eac@shore.net>
Date: Thu, 12 Dec 1996 23:12:20 -0400
To: aprssig@tapr.org
Message-ID: <850450340-0-eac@shore.net>
Rendered body type: text/plain

```
I finally got the Zodiac (Tripmate) serial I/O docs.  One
interesting note is that GPQ is a valid NMEA command.  GPQ
queries for a sentence.  You can turn off all the messages
and just send $IIGPQ,RMC<cr><lf> if you want a RMC
message.  I noticed if you send a query for a sentence
that is not valid (like GSV if not navigating) it will not
send a reply.

What is strange is that it is mentioned in the begining of
the docs but it is not listed as an input command and
does not have a details page.

The other interesting thing of note is before the unit is
navigating but has a valid time it will include satellites
below the horizon in the search. The manual notes
that in the elevation field of the GSV message satellites
below the horizon have a null field (,,) because the
NMEA spec does not mention that negative numbers
could be used there.  The tripmate.exe program on the
```

SA 4.0 CD puts these satellites at the horizon circle. I
would have preferred outside the horizon circle.

73 Eric eac@shore.net WB1HBU

303. HF on 4 watts (or 20)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Dec 1996 00:07:03 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213000016.1241F-100000@arctic>
Rendered body type: text/plain

I just bought an MFJ 30 meter transceiver ($189) for experimenting with low power APRS on 10.151 and will add a RAMSEY 20 Watt PA ($49 kit).

Will let you know results. Initial impression is good. (5 minutes out of box and not connected to 30m ant yet).

On random wire, there is quite noticible bleed through of a SW station into the 6MHz IF.. and it doesnt tune to 10.151. Will tweak that tomorrow.... ANyone else have one of these?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

304. Hold on, thar!!!

From: Jim Duncan <ku0g@sprynet.com>
Date: Thu, 12 Dec 1996 21:13:18 -0800
To: aprssig@tapr.org
Message-ID: <199612130513.VAA04385@m1.sprynet.com>
Rendered body type: text/plain

A cloud of dust, a click of the keys and a hearty hi-ho Redstone....

Could it be, YES it IS!!!!

It's the LOOOOOOOOONE DERANGER!

Welcome back, Bill...... (that would be Bill Nolle, of course, folks!)

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

305. Re: [APRSSIG:7170] Tripmate ext. antenna?

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 13 Dec 96 02:51:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199612130751.CAA13297@newworld.bridge.net>
Rendered body type: text/plain

>I've been following the mail about the tripmate and I am wondering if it
>is possible to modify it to use an external antenna. I don't quite like
>the idea of setting it on the dashboard for several reasons, especially
>because of its bright color. Please, I would like to find out before I
>go out and purchase one.
>

The tripmate is mounted in a plastic enclosure, looks somewhat weather resistant, which opens easily to change the batteries. Three interior screws sealed with nail polish to void warrantee reveal the gps board mounted in an rf shield. The antenna is mounted to the top of the shield, I think with double sided tape. The antenna connects to the patch antenna with a soldered connection.

I _think_ it would be possible to remove the antenna and wire some sort of connector to the case for an external antenna. I have not checked to see if any voltage for a preamp is supplied on the antenna connection. If not the antenna options would be pretty limited. In any case, it would be pretty major surgery....

Steve K4HG

306. Help wiring up my Kantronics 9612. Kenwood TM733a for one radio operation

From: james-m@ix.netcom.com (Don Murray AE4BR)
Date: Fri, 13 Dec 1996 04:22:16 -0800

To: aprssig@tapr.org
Message-ID: <199612131222.EAA18938@dfw-ix6.ix.netcom.com>
Rendered body type: text/plain

```
Hello and thanks for reading this..

I am in need of help setting up my Kantronics 9612, and TM733a for one radio
operation.  I am not even sure if this is possible.  What I would like to do is
wire the radio and TNC so that I can get both 1200 and 9600 baud operation on
the single 733.

I would also appreaciate if if someone could confirm my wiring by posting the
output pin assignment for the TM733 in regards to the 9600 baud port of the
9612 and the 1200 port of the 9612.

Anyone else handling both ports thru one radio?? Is it even possible.  The 9612
has a "oneradio" setting.  But the manual doesn't go into detail about it.

Any and all help will be greatly appreciated
```

307. Re: [APRSSIG:7173] HF on 4 watts (or 20)

From: schiers@ames.net
Date: Fri, 13 Dec 96 08:04:41 -0600
To: aprssig@tapr.org
Message-ID: <199612131404.IAA24736@brain.ames.net>
Rendered body type: text/plain

```
In <Pine.GSO.3.95.961213000016.1241F-100000@arctic>, on 12/12/96 at 11:04
PM,
   Bob Bruninga <bruninga@nadn.navy.mil> said:

>I just bought an MFJ 30 meter transceiver ($189) for experimenting with
>low power APRS on 10.151 and will add a RAMSEY 20 Watt PA ($49 kit).

Bob, be sure to give us a full report...I have my Kenwood TS-870s tied up,
and while that is fine during the day when I'm not there, the rest of the
time it is a "bit" much, don't you think? I would be willing to keep my
MOSFet amp on and I'm sure the 20w would drive it to a nice solid 250w
out, which I believe is the legal limit on 30m. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

308. AEA PK-12 problems with APRS

From: "John S. Seybold" <JSSeybold@smtpgate.read.tasc.com>
Date: Fri, 13 Dec 1996 09:07:59 -0500
To: APRSSIG@tapr.org
Message-ID: <s2b11d2b.021@smtpgate.read.tasc.com>
Rendered body type: text/plain

```
To all,

Apologies for posting a mundane request for help - I do not know who
else to ask.

I am using a PK-12 with WINAPRS117 and find that if I power off the PC
and leave the TNC and radio up, when I come back, I am unable to
communicate with the TNC.  I finally had to disconnect the internal battery
in the TNC and completely reset it last night to get back in.  I'd like to be
able to leave my station up without the PC and my PK-12 manual says that
I can do this.  I tried the triple control C from the TNC window incase it
was in host mode, but no effect.  Any suggestions will be greatly
appreciated.

73,
John S. Seybold
K4PRC
jseybold@tasc.com
```

309. Gateway TNC after AEA Demise?

From: schiers@ames.net
Date: Fri, 13 Dec 96 08:18:04 -0600
To: aprssig@tapr.org
Message-ID: <199612131418.IAA24893@brain.ames.net>
Rendered body type: text/plain

Now that it appears that AEA is going into the bit bucket, what would the two major software authors, (Bob and Mark/Keith), suggest as a replacement for the DSP2232.

Is there a non-AEA TNC out there that will do dual port simultaneous and run in the gateway mode AND be compatible with WinAPRS specificially and possibly dosAPRS?

```
hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

310. Re: [APRSSIG:7174] Hold on, thar!!!

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 13 Dec 1996 08:24:57 -0800
To: aprssig@tapr.org
Message-ID: <32B18359.244D@concentric.net>
Rendered body type: text/plain

Jim Duncan wrote:
>
> A cloud of dust, a click of the keys and a hearty hi-ho Redstone....
>
> Could it be, YES it IS!!!!
>
> It's the LOOOOOOOOONE DERANGER!
>
> Welcome back, Bill...... (that would be Bill Nolle, of course, folks!)
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@kcaprs.com
> EMail: ku0g@sprynet.com

Well Jim, in one of my messages I did write that I never left the sig and have been reading all postings right along. I just haven't been so vocal Hi as i was before. Also since I invested in a Tripmate I feel this is a good place to discuss it also. On the topic of Tripmate wouldn't it be great if APRS could be interfaced to SA4 what a setup that would be. I realy love Tripmate so much I bought a brandnew 130Mhz laptop to run it on.

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

311. Re: [APRSSIG:7175] Re: Tripmate ext. antenna?

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 13 Dec 1996 08:31:37 -0800
To: aprssig@tapr.org
Message-ID: <32B184E9.9CC@concentric.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >I've been following the mail about the tripmate and I am wondering if it
> >is possible to modify it to use an external antenna. I don't quite like
> >the idea of setting it on the dashboard for several reasons, especially
> >because of its bright color. Please, I would like to find out before I
> >go out and purchase one.
> >

Why would anyone want a external antenna for the Tripmate, If so why not just glue some magnets on the bottom of the receiver and place it on top of the vehicle it looks like it's water tight. Personally with what testing I have done with the receiver on the dash works just great in fact much better then my Magellan ever did.

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

312. GPS STRINGS UPDATE

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 13 Dec 1996 09:46:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612131446.JAA22274@smtp2.erols.com>
Rendered body type: text/plain

```
>>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
>> GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM  **
>> -------------   --- ------- ------- ----------- ----- ----- ----- ---  --
>> Magln 5000       X     X       X         .        ?           ?    .
>> Magln 5000DX     X     X       X         X        .     .     .    .    1
>> Garmin GPS-20    .     X       X         X        X     .     .    .
>> GARMIN GPS 25    .     X       X         X        X     .     .    .    2
>> Garmin45 v1.5    X     .       X         X        .     .     .    .
>> Garman45 v2.0    X     X       .         X        X     X     .    .
>> Garmin GPS-55    x     .       .         X        .     X     .    .    3
** Garman GPS 90    SOON
>> Garmin GPS95XL   X     .       .         X        .     X     .    .    3
>>  Icom GP-22
>>    w/OPK-4       X     X       X         .        .     .     .    .
>> Tripmate         .     X       .         X        X     .     .    .    4
>--

===========================================================================

**
1- Magellan NAV 5000DX also outputs :  APA,APB,BWC,RMB,XTE
2- Garman 25 also outputs           :  BOD,GSA,RMB,RTE,WPL
3- Garmin 55 and 95XL also outputs  :  BWC,RMB,ROO,XTE,WPL
4- Delorme Tripmate also outputs    :  GSA,PRWRCH


   APA : ?
   APB : ?
   BOD : ?
   BWC : ?
   GSA : Dopler & active Sat's
  LCGLL: Loran Talker ID Lat/Long/UTC
  LCVTG: Loran Talker ID track & velocity
   RMB : ?
   ROO : ?
   RTE : ?
   WPL : ?
   XTE : ?
```

---

313. Re: [APRSSIG:7178] AEA PK-12 problems with APRS

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Fri, 13 Dec 1996 08:48:58 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <m0vYYv9-0000nWC@ernest.itg.ti.com>
Rendered body type: text/plain

> I am using a PK-12 with WINAPRS117 and find that if I power off the PC
> and leave the TNC and radio up, when I come back, I am unable to
> communicate with the TNC. I finally had to disconnect the internal battery
> in the TNC and completely reset it last night to get back in. I'd like to be
> able to leave my station up without the PC and my PK-12 manual says that
> I can do this. I tried the triple control C from the TNC window incase it
> was in host mode, but no effect. Any suggestions will be greatly
> appreciated.

I use a PK-12 with dosAPRS and don't have this problem. It probably has to do with flow control. Make sure flow control is turned off. When the PC is down, the PK-12 will still spew packets out the serial port. It might be hung waiting for an XON or something.....

```
--
Alan Edmonds, KB5ZUY                          Texas Instruments, Inc.
System Administrator, Composer Development    M/S 8515
Phone: +1-972-575-6427                        6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                    Plano, TX, USA  75023
```

---

314. Re: [APRSSIG:7178] AEA PK-12 problems with APRS

From: Mark Sproul <sproul@ap.org>
Date: Fri, 13 Dec 1996 09:45:07 -0500
To: aprssig@tapr.org

Message-ID: <v03007802aed71c1d416e@[165.1.27.20]>
Rendered body type: text/plain

```
>To all,
>
>Apologies for posting a mundane request for help - I do not know who
>else to ask.
>
>I am using a PK-12 with WINAPRS117 and find that if I power off the PC
>and leave the TNC and radio up, when I come back, I am unable to
>communicate with the TNC.  I finally had to disconnect the internal battery
>in the TNC and completely reset it last night to get back in.  I'd like to be
>able to leave my station up without the PC and my PK-12 manual says that
>I can do this.  I tried the triple control C from the TNC window incase it
>was in host mode, but no effect.  Any suggestions will be greatly
>appreciated.
>
>73,
>John S. Seybold
>K4PRC
>jseybold@tasc.com



WinAPRS does not put the TNC into HOST mode, HOST mode is a special mode
that AEA has for communication with their software.  If you were running
something like PC-PACRAT that puts it into host mode, then you normally
have to use that same software to take it OUT of host mode.


Mark

__________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

315. Re: [APRSSIG:7179] Gateway TNC after AEA Demise?

From: Mark Sproul <sproul@ap.org>
Date: Fri, 13 Dec 1996 09:57:36 -0500
To: aprssig@tapr.org
Message-ID: <v03007804aed71f480026@[165.1.27.20]>
Rendered body type: text/plain

```
>Now that it appears that AEA is going into the bit bucket, what would the
>two major software authors, (Bob and Mark/Keith), suggest as a replacement
>for the DSP2232.
>
>Is there a non-AEA TNC out there that will do dual port simultaneous and
>run in the gateway mode AND be compatible with WinAPRS specificially and
>possibly dosAPRS?
>
>


The KAM Plus I think

__________________________________________________________________________
Mark Sproul                        |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                      |Work: 609-860-7120
North Brunswick, NJ                |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

316. [APRSSIG:7184] Re: AEA PK-12 problems with APRS -Reply

From: "John S. Seybold" <JSSeybold@smtpgate.read.tasc.com>
Date: Fri, 13 Dec 1996 10:39:33 -0500
To: aprssig@tapr.org
Message-ID: <s2b132b5.065@smtpgate.read.tasc.com>
Rendered body type: text/plain

```
Thanks Mark,

This was actually a situation where I was in WinAPRS, gracefully exited
the program and turned the PC off.  When I came back later, I could not
```

get back intothe TNC using WinAPRS (or anything else for that matter).
So I do not think that it was put into host mode, unless WINAPRS did it
when I exited, or the power off transients did it.

Perhaps Alan Edmonds suggestion about flow control will solve the
problem, what do you think? Would I turn flow control off from the
terminal window before I exit WinAPRS? How do I get it turned back on
when I re-enter WinAPRS?

On message length; someone told me that DOS APRS is 64 characters
and WInAPRS in 53. I have found that if I use the whole text window in
WinAPRS, it gets cut off.

Thanks for your help.

73,

John S. Seybold
jsseybold@tasc.com

317. Re: Tripmate ext. antenna?

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Fri, 13 Dec 96 11:01:13 EST
To: aprssig@tapr.org
Message-ID: <CMM.0.90.4.850492873.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

Eric wrote:

>Basically you need to dig the unit out of the box, disconnect
>the patch antenna, and rig up a connector.

>The problem is that there is no voltage supply for a preamp. There
>is the network for it, but from the material on the chip set I read the
>....

Isn't it just the case of capacitively coupling the antenna feedline
to the GPS and putting some DC on it?

```
---| |---+------> coax toward remote antennna
         |
         +--- +V
```

Presumably, if you're going to this much trouble to void your warranty
you've already added an external power source...

Don't flame me too hard if I am off base here. I do admit being
weeded out of EE very early (Omar Wing's Circuits class) and going
into CS:-) EE's know what CS really stands for.

73 de Alan N2YGK

318. Re: [APRSSIG:7175] Re: Tripmate ext. antenna?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 13 Dec 1996 11:04:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612131604.LAA21849@northshore.shore.net>
Rendered body type: text/plain

Hello,

No voltage is supplied to the antenna connection. It does look
like at least the output side components are there. The problem
is where to fed the power into to come out on the output side as
I think preamp power is fed through the RF chip.

73 Eric eac@shore.net WB1HBU

319. Re: [APRSSIG:7181] Re: Tripmate ext. antenna?

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 13 Dec 1996 11:18:44 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612131618.LAA05593@smtp2.erols.com>
Rendered body type: text/plain

As per previous message..

>> >I've been following the mail about the tripmate and I am wondering if it

```
>> >is possible to modify it to use an external antenna.  I don't quite like
>> >the idea of setting it on the dashboard for several reasons, especially
>> >because of its bright color.  Please, I would like to find out before I
>> >go out and purchase one.

>Why would anyone want a external antenna for the Tripmate, If so why not
>just glue some magnets on the bottom of the receiver and place it on top of
>the vehicle it looks like it's water tight. Personally with what testing I
>have done with the receiver on the dash works just great in fact much
>better then my Magellan ever did.
>--
>      \////
>      (0 0)
> *--o0-(_)-0o--*
> wa8inz@amsat.org
> wa8inz@cris.com

I do not consider the Tripmate to be water tight. Water resistant maybe. I
am running on external power and am not using the batteries, so I plan on
replacing the bottom half of the case with a flat plate and magnet and
SEALING the unit. This will give the unit a lower profile and make it stay
in place better. It does work very well on the dash in my van. I leave mine
on the dash and powered all the time, so it is soon to get a less noticable
color. The yellow has to go! Be sure to use a NON-metallic paint if you do
this! If you aren't sure of your paint, spray a peice of plastic or whatever
and watch your signal strength as you hold it over the GPS.

John Kozak; N3AGG
jkozak@erols.com
```

---

320. Great APRS HF for $189!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Dec 1996 11:27:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213104508.15652B-100000@arctic>
Rendered body type: text/plain

```
Ordered MFJ 30m HF transceiver Monday, got it Thurs (regular UPS) and
bench tested it today. I'm still very happy!  Looks like it will make a
GREAT APRS HF packet rig:

  VFO - 10.100-150 (actual 10.098-155) (worst case dial error abt 2.5Khz)
  BFO - Factory set to 780 Hz.  Screwdriver adj for 2125 HZ packet
  IF  - 6 MHz.  490 Hz (3dB) passband!
                570 Hz (6dB) Couldn't measure lower due to AGC
                             VERY NARROW 4 pole XTAL ladder filter
                             Specs claim 750 Hz (probably 60dB pts)
  RIT - 900Hz measured.  1500 Hz claimed
  SENS- 2 uv for 20 dB SNR  (estimated.  Sine wave looked 90% perfect)

Receive Current - 50 ma   (50 hours on a set of AA's!)

It is important to note that this is a true SSB Hetrodyne transceiver with
6 MHz IF and CW width XTAL filters (4 MHz VFO).  Considering the QRM on HF
packet (not necessarily on 10.151 which is clean) this narrow filter is
like an 8 dB improvement in noise performnce and even better in the
presence of QRM.  Remember, most of us run VOICE SSB radios with a 2.7 KHz
filter even though packet is only 400 HZ wide.  Even if you switch in the
CW filter on most rigs, they are fixed at 750 Hz and cannot be used for
packet at 2125 Hz.

TRANSMITTER:  > 4 Watts at 13.8v  untested
                1 amp at 13.8  untested

NOTE:  To transmit packet, you will need to take the TXD data from your
modem disconnect header in your TNC and run it to a varactor diode to FSK
this CW transmitter.  I will work up the mods to change the RIT circuit
into a XMTR FSK circuit.  WIll report more then...

But so far I am very impressed for $189 (wired and tested)
... (YOUR MILAGE MAY VARY!)  Remember, I still havent hooked it up for
packet nor begun the XMT mods...


DISADVANTAGES:
   QRP 4 watts.  I plan to add the Ramsey 20 Watt amp ($49 Kit)
   VFO freq drift expect to be a problem when human not present
   XMT FSK mods required (probably just a pot and connectors)
   IF  feedthrough (I could hear a 6MHz SW station bleeding through theIF)
```

but couldnt test the isolation because my sig gen only goes >10 MHz

If all you want to do is operate an HF gate, then only using the RECEIVER
is perfect, rather than having your $1000 HF rig at risk during lightening
storms etc...

PROJECTS FOR SOMEONE:

Replacing the VFO cap (which is simply connected to an NE602 chip) with an
XTAL circuit for 10.151 should improve any freq drift.

FSK mods

PA mods

Hey this is fun. I wouldnt touch my $1200 HF rig, but this is a tweakers
delight. This takes me back to the good ole days of modifying equipment
for fun and perfection...

OBJECTIVE: A 25 watt HF mobile rig for APRS.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

---

321. Re: [APRSSIG:7179] Gateway TNC after AEA Demise?

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Fri, 13 Dec 1996 09:52:54 -0800
To: aprssig@tapr.org
Message-ID: <32B197F6.50E0@cjnetworks.com>
Rendered body type: text/plain

schiers@ames.net wrote:
>
> Now that it appears that AEA is going into the bit bucket, what would the
> two major software authors, (Bob and Mark/Keith), suggest as a replacement
> for the DSP2232.
>
> Is there a non-AEA TNC out there that will do dual port simultaneous and
> run in the gateway mode AND be compatible with WinAPRS specificially and
> possibly dosAPRS?
>
> hasan schiers, N0AN--
> --
> schiers@ames.net
> --
Check out kantronics.com when you get some time. I think they have what
you are looking for. I have never used an AEA, so can not advise you on
features specific. However, the Kantronics line is a fine TNC, and they
have EXCELLANT TECH SUPPORT!

---

322. DEEYENDA MADDICK VIRUS (fwd)

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 13 Dec 1996 11:42:00
To: aprssig@tapr.org
Message-ID: <199612131642.LAA06701@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

I received this today via my ARES/RACES mail-reflector:

>Date: Thu, 12 Dec 1996 16:35:55 -0500 (EST)
>From: Barry Schwartz <godzilla@panix.com>

>Thought the below may be of interest to all....it came from the MARS list.
>---------- Forwarded message ----------
>Date: Thu, 12 Dec 96 09:42:44 GMT
>**
>
>VIRUS OVER THE INTERNET!!!
>
>VERY IMPORTANT INFORMATION, PLEASE READ!
>
>There is a computer virus that is being sent across the Internet. If you receive an
>email message with the subject line "Deeyenda", DO NOT read the message, DELETE it
>immediately!
>
>Some miscreant is sending email under the title "Deeyenda" nationwide, if you get

```
>anything like this DON'T DOWNLOAD THE FILE!  It has a virus that rewrites your hard
>drive, obliterates anything on it. Please be careful and forward this e-mail to
>anyone you care about.
>
>Please read the message below.
>
>FCC WARNING!!!!! -----DEEYENDA PLAGUES INTERNET
>
>The Internet community has again been plagued by  another computer virus.  This
>message is being spread throughout the Internet, including USENET posting, EMAIL,
and other Internet activities.
>
>The reason for all the attention is because of the nature of this virus and the  po-
>tential security risk it makes.Instead of a destructive Trojan virus (like most vi-
>ruses!), this virus referred to as Deeyenda Maddick, performs a comprehensive search
>on your computer, looking for valuable information, such as email and login pass-
>words, credit cards, personal info., etc.
>
>The Deeyenda virus also has the capability to stay memory resident while running a
host of applications and operation systems, such as Windows 3.11 and Windows 95. What
>this means to Internet users is that when a login and password are send to the ser-
>ver, this virus can copy this information and SEND IT OUT TO AN UNKNOWN ADDRESS
>(varies).
>
>The reason for this warning is because the Deeyenda virus is virtually undetectable.
>Once attacked your computer will be unsecure.  Although it can attack any O/S this
>virus is most likely to attack those users viewing Java enhanced Web Pages (Netscape
>2.0+ and Microsoft Internet Explorer 3.0+ which are running under Windows 95). Re-
>searchers at
>Princeton University have found this virus on a number of World Wide Web pages and
>fear its spread.
>
>Please pass this on, for we must alert the general public at the security risks.
>
>..........end of virus warning........

=====================================================================================

     I don't know whether or not this is for real, or merely one of those crackpot
virus warnings that show up from time to time.  You be the judge.  But "forewarned
is forearmed."  73


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

---

323. APRSdos interface to Delorme etc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Dec 1996 11:55:49 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213114418.15652H-100000@arctic>
Rendered body type: text/plain

```
On Fri, 13 Dec 1996, William Nolle wrote:

> ... On the topic of Tripmate wouldn't it be great if APRS could be
> interfaced to SA4 what a setup that would be. I realy love Tripmate so
> much I bought a brandnew 130Mhz laptop to run it

APRSdos REPLY/COMMENT:  I just updated my DOCS yestdy to reduce the
optional Delorme interface from $39 to $9. (I never sold any anyway,hihi)

What this does, is allow you to run APRS on an old PC as a communications
front end to Delorme or any other software that accepts a NMEA input.
What APRS does is to output via its 2nd serial port, NEMA data for any
object on your APRS MAP.  Of course no callsign or symbol characters will
cross the interface, but you will see a dot or posit on the other maping
software wherever there is an APRS posit.

To select which opbject is sent over to the other Maping Program conputer,
use any of the APRS methods for selecting (hooking) objects:

     Mover cursor and hit ENTER
     +/- keys to scan entire P-List
     <>  Keys to scan only Stns/Object on the current display
     N   Key for next WX station
     TRACK - By marking a station on the P-LIST for tracking, then
             EVERY new posit from that station will be passsed over
             the serial port to the other PC...

Since no one has ever bought this interface, caveat emptor.  But if any of
the above does not work, then I will fix it in the next version, hi hi...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
```

---

324. prototype APRS node (on Linux)

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Fri, 13 Dec 96 11:55:37 EST
To: aprssig@tapr.org
Cc: n2amp@weca.org, n2fmc@weca.org, n2sf@weca.org, wb2vvs@weca.org
Message-ID: <CMM.0.90.4.850496137.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
Hello,

N2YGK-8 in FN31cd is running a prototype APRS node that does conventional
digipeating as well as SSID-based digipeating.  The flood (WIDE-N) mode
will be added to it hopefully this weekend.  If you happen to have a MIC-E
or would just like to simulate it and can reach my station direct (that
means KD1DU, N2SF, N2FMC, and N2AMP if you drive up here again;-) give it a
shot.  If any of the rest of you are APRS mobile in Westchester
County,  I should hear you direct in the vicinity of Briarcliff Manor
on the Taconic State Parkway, which is in the same valley as my house:-(

N2YGK-8 is listening on 145.79 for SSID to-addresses of APRS and VOX
(I think) as well as the usual RELAY alias for conventional stuff and
will repeat this out with an unproto path of WIDE-n for SSID's below 8
and with various directional paths for SSID's above 7 as described in
the MIC-E.TXT.  It will only respond to SSID-based packets if the digi
list is *empty* as that is the whole point of SSID routing!

To simulate a MIC-E, set your UNPROTO path to APRS-n (*no* VIA), where
n is 1 thru 7 for WIDE-1 thru WIDE-7 flooding (but no other digis in the
area implement flooding so it won't get you anywhere).
Use 8 thru 15 for N, S, E, W, N+wide, S+wide, E+wide, W+wide paths.

The directional paths I've set up are:

N: KD1DU-15 WA1LOU-15 (sorry, but that's as due north as I can get!)
S: N2SF WA2JNF-4
E: KD1DU-15 KD1LY
W: KD1DU-15 N2MH-15

I'll make the code available shortly.  It only runs on a Linux system.
Not exactly something to colocate with a repeater, but a good way to
try out some ideas.
/a
```

---

325. Re: [APRSSIG:7188] Re: Tripmate ext. antenna?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Dec 1996 12:10:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213120552.15652L-100000@arctic>
Rendered body type: text/plain

```
I cannot for the life of me understand why anyone would want to add an
external antenna to the tripmate and add the complexity of RF cables,
connectors, DC biasing, and and an external antenna.  And then being
limited to RF cable length etc.

The tripmate sounds like it is an ideal package with GPS and antenna all
in one and you can have an infinitly long DC/DATA cable to it.  Just stick
it on the roof or wherever you would normally plan on putting the antenna!

If it is not WX proof, then solve that with some epoxy.  If you dont like
the color, paint it.  I havent seen one, so these statements may come back
to haunt me as a fool, but The BEST GPS units for APRS are all-in-ones
where there is NO RF cable and you can put it ANYWHERE you can string a
small DC/DATA cable...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
```

GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

---

326. Re: [APRSSIG:7192] DEEYENDA MADDICK VIRUS (fwd)

From: Gary Arnold <garnold@naples.net>
Date: Fri, 13 Dec 1996 17:14:31 -0800
To: aprssig@tapr.org
Message-ID: <32B1FF77.35E4@naples.net>
Rendered body type: text/plain

```
Arte Booten wrote:
>
> Hi All,
>
>      I received this today via my ARES/RACES mail-reflector:
>
> >Date:  Thu, 12 Dec 1996 16:35:55 -0500 (EST)
> >From:  Barry Schwartz <godzilla@panix.com>
>
> >Thought the below may be of interest to all....it came from the MARS list.
> >---------- Forwarded message ----------
> >Date: Thu, 12 Dec 96 09:42:44 GMT
> >*******************************************************************
> >
> >VIRUS OVER THE INTERNET!!!
> >
> >VERY IMPORTANT INFORMATION, PLEASE READ!
> >
> >There is a computer virus that is being sent across the Internet.  If you receive an
> >email message with the subject line "Deeyenda", DO NOT read the message, DELETE it
> >immediately!
> >
> >Some miscreant is sending email under the title "Deeyenda" nationwide, if you get
> >anything like this DON'T DOWNLOAD THE FILE!  It has a virus that rewrites your hard
> >drive, obliterates anything on it. Please be careful and forward this e-mail to
> >anyone you care about.
> >
> >Please read the message below.
> >
> >FCC WARNING!!!!! -----DEEYENDA PLAGUES INTERNET
> >
> >The Internet community has again been plagued by  another computer virus.  This
> >message is being spread throughout the Internet, including USENET posting, EMAIL,
> and other Internet activities.
> >
> >The reason for all the attention is because of the nature of this virus and the  po-
> >tential security risk it makes.Instead of a destructive Trojan virus (like most vi-
> >ruses!), this virus referred to as Deeyenda Maddick, performs a comprehensive search
> >on your computer, looking for valuable information, such as email and login pass-
> >words, credit cards, personal info., etc.
> >
> >The Deeyenda virus also has the capability to stay memory resident while running a
> host of applications and operation systems, such as Windows 3.11 and Windows 95. What
> >this means to Internet users is that when a login and password are send to the ser-
> >ver, this virus can copy this information and SEND IT OUT TO AN UNKNOWN ADDRESS
> >(varies).
> >
> >The reason for this warning is because the Deeyenda virus is virtually undetectable.
> >Once attacked your computer will be unsecure.  Although it can attack any O/S this
> >virus is most likely to attack those users viewing Java enhanced Web Pages (Netscape
> >2.0+ and Microsoft Internet Explorer 3.0+ which are running under Windows 95). Re-
> >searchers at
> >Princeton University have found this virus on a number of World Wide Web pages and
> >fear its spread.
> >
> >Please pass this on, for we must alert the general public at the security risks.
> >
> >..........end of virus warning........
>
> ==================================================================================
>
>      I don't know whether or not this is for real, or merely one of those crackpot
> virus warnings that show up from time to time.  You be the judge.  But "forewarned
> is forearmed."  73
>
> Mr. Arte Booten  (N2ZRC @ gnn.com)
> Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>
> Cruise Missile Coordinates 4052.71N/07354.06W
>
```

> .. Coordinates laid in. Engaging at warp six ...

It's a hoax. For info on this one and others see:

http://ciac.llnl.gov/ciac/CIACHoaxes.html

That site also provides help in detecting hoaxes.

73 and Happy Holidays!
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered
French Toast during the Renaissance."
-- Steven Wright, perpipheral visionary

---

327. Re: [APRSSIG:7181] Re: Tripmate ext. antenna?

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 13 Dec 96 12:35:08 -0500
To: <aprssig@tapr.org>
Message-ID: <199612131735.MAA21793@newworld.bridge.net>
Rendered body type: text/plain

No I didn't write this. If you are going to put someone's name on a
quotation, please make sure you are attributing to the correct party.

Start of quote from WA8INZ:

Steve Dimse wrote:
>
> >I've been following the mail about the tripmate and I am wondering if it
> >is possible to modify it to use an external antenna. I don't quite like
> >the idea of setting it on the dashboard for several reasons, especially
> >because of its bright color. Please, I would like to find out before I
> >go out and purchase one.
> >

End of quote...

---

328. Re: [APRSSIG:7181] Re: Tripmate ext. antenna?

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 13 Dec 96 12:41:38 -0500
To: <aprssig@tapr.org>
Message-ID: <199612131741.MAA22356@newworld.bridge.net>
Rendered body type: text/plain

No, I didn't write this. Please, if you are going to attribute a quote to
someone, make sure it is the right person! I was answering this question
from another person.

>Steve Dimse wrote:
>>
>> >I've been following the mail about the tripmate and I am wondering if it
>> >is possible to modify it to use an external antenna. I don't quite like
>> >the idea of setting it on the dashboard for several reasons, especially
>> >because of its bright color. Please, I would like to find out before I
>> >go out and purchase one.
>> >
>
>Why would anyone want a external antenna for the Tripmate, If so why not
>just glue some magnets on the bottom of the receiver and place it on top of
>the vehicle it looks like it's water tight. Personally with what testing I
>have done with the receiver on the dash works just great in fact much
>better then my Magellan ever did.
>--

```
>      \////
>      (0 0)
> *--oO-(_)-0o--*
```

> wa8inz@amsat.org
> wa8inz@cris.com

```
>
As hard as it is for you to realize, some people have different needs
than you do. For example, I work in a high crime inner city area. Leaving
anything in plain view invites theft. That means to use the Tripmate as
part of a tracker, I'd need to set the thing up every time I drive. What
I want is to have an antenna mounted in my convertible top and have the
whole thing auto-power up when I turn on the ignition. The Tripmate is a
great GPS for little money, and I would like to use it with an external
antenna. I was sharing what I had learned on the subject with others who
had similar plans to mine. Is this OK with you, or do we need to do it
your way or not at all?

Steve K4HG
```

---

329. Re: [APRSSIG:7178] AEA PK-12 problems with APRS

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 13 Dec 1996 12:41:23
To: JSSeybold@smtpgate.read.tasc.com
Cc: aprssig@tapr.org
Message-ID: <199612131741.MAA29540@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi John,

On Fri, 13 Dec 1996 you wrote:

>... if I power off the PC and leave the TNC and radio up, when I come back, I am
>unable to communicate with the TNC ... I'd like to be able to leave my station up
>without the PC ...

     If you were running APRSDos, I'd suggest you edit the file "RESTORE.TNC" which
is located in the "SYSTEM" folder.  I'm not sure if WinAPRS has such an animal, which
sends your selected series of commands to your TNC when APRS is shutting down.  73


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

---

330. Re: [APRSSIG:7192] DEEYENDA MADDICK VIRUS (fwd)

From: Steve Hall <steve.hall@lerc.nasa.gov>
Date: Fri, 13 Dec 1996 13:14:45 -0500
To: aprssig@tapr.org
Message-ID: <32B19D15.1908@lerc.nasa.gov>
Rendered body type: text/plain

```
This is a hoax.  We had a notice at NASA about this last week.

Plus the FCC has nothing to do with investigating such things.

More info at following site:

http://ciac.llnl.gov/ciac/bulletins/h-05.shtml

Arte Booten wrote:
>
> Hi All,
>
>      I received this today via my ARES/RACES mail-reflector:
>
> >Date:  Thu, 12 Dec 1996 16:35:55 -0500 (EST)
> >From:  Barry Schwartz <godzilla@panix.com>
>
> >Thought the below may be of interest to all....it came from the MARS list.
> >---------- Forwarded message ----------
> >Date: Thu, 12 Dec 96 09:42:44 GMT
> >*******************************************************************
> >
> >VIRUS OVER THE INTERNET!!!
> >
> >VERY IMPORTANT INFORMATION, PLEASE READ!
> >
> >There is a computer virus that is being sent across the Internet.  If you receive an
> >email message with the subject line "Deeyenda", DO NOT read the message, DELETE it
> >immediately!
> >
```

> >Some miscreant is sending email under the title "Deeyenda" nationwide, if you get
> >anything like this DON'T DOWNLOAD THE FILE! It has a virus that rewrites your hard
> >drive, obliterates anything on it. Please be careful and forward this e-mail to
> >anyone you care about.
> >
> >Please read the message below.
> >
> >FCC WARNING!!!!! -----DEEYENDA PLAGUES INTERNET
> >
> >The Internet community has again been plagued by another computer virus. This
> >message is being spread throughout the Internet, including USENET posting, EMAIL,
> and other Internet activities.
> >
> >The reason for all the attention is because of the nature of this virus and the po-
> >tential security risk it makes.Instead of a destructive Trojan virus (like most vi-
> >ruses!), this virus referred to as Deeyenda Maddick, performs a comprehensive search
> >on your computer, looking for valuable information, such as email and login pass-
> >words, credit cards, personal info., etc.
> >
> >The Deeyenda virus also has the capability to stay memory resident while running a
> host of applications and operation systems, such as Windows 3.11 and Windows 95. What
> >this means to Internet users is that when a login and password are send to the ser-
> >ver, this virus can copy this information and SEND IT OUT TO AN UNKNOWN ADDRESS
> >(varies).
> >
> >The reason for this warning is because the Deeyenda virus is virtually undetectable.
> >Once attacked your computer will be unsecure. Although it can attack any O/S this
> >virus is most likely to attack those users viewing Java enhanced Web Pages (Netscape
> >2.0+ and Microsoft Internet Explorer 3.0+ which are running under Windows 95). Re-
> >searchers at
> >Princeton University have found this virus on a number of World Wide Web pages and
> >fear its spread.
> >
> >Please pass this on, for we must alert the general public at the security risks.
> >
> >..........end of virus warning........
>
> ===
>
>   I don't know whether or not this is for real, or merely one of those crackpot
> virus warnings that show up from time to time. You be the judge. But "forewarned
> is forearmed." 73
>
> Mr. Arte Booten (N2ZRC @ gnn.com)
> Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>
> Cruise Missile Coordinates 4052.71N/07354.06W
>
> .. Coordinates laid in. Engaging at warp six ...

---

331. Re: [APRSSIG:7195] Re: Tripmate ext. antenna?

From: "Lee Walden" <lwalden@ebmud.com>
Date: Fri, 13 Dec 1996 10:31:20 -0800
To: <aprssig@tapr.org>
Message-ID: <9612131826.AA07894@phantasm>
Rendered body type: text/plain

Bob, the URL listed in your signature for the GPS on Any radio isn't any
good. I just tried it and got a 404.

> GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html
>

---

332. HF APRS cheap

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Dec 1996 13:55:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213134917.18326B-100000@arctic>
Rendered body type: text/plain

Went to lunch, came back and rig had drifted 90 Hz. That is typical of
some of the better analog VFO's (100 Hz per hour) but not good enough for
packet without operator interaction. Ill need to get a XTAL to replace
the VFO for hands off under-the-seat operation.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

333. Re: [APRSSIG:7201] Re: Tripmate ext. antenna?

From: Robert Winingham <kc5ejk@onramp.net>
Date: Fri, 13 Dec 1996 12:59:33 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aed757fb364f@[199.1.11.112]>
Rendered body type: text/plain

```
>Bob, the URL listed in your signature for the GPS on Any radio isn't any
>good.  I just tried it and got a 404.
>
>> GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
>>


Try   http://www.tapr.org/tapr/html/mic-e.html


Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

---

334. Re: [APRSSIG:7201] Re: Tripmate ext. antenna?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 13 Dec 1996 14:13:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213141246.18326E-100000@arctic>
Rendered body type: text/plain

```
On Fri, 13 Dec 1996, Lee Walden wrote:

> Bob, the URL listed in your signature for the GPS on Any radio isn't any
> good.  I just tried it and got a 404.
>
> > GPS on ANY radio:  http://www.tapr.org/tapr.html/mic-e.html
                                               ^
                                               /

APRSdos REPLY/COMMENT:  Thanks!  should be a / not a .!  Ill fix it...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

335. USAF copies APRS

From: Bob Lorenzini <hwm@netcom.com>
Date: Fri, 13 Dec 1996 11:12:18 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961213111029.96A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
---------- Forwarded message ----------
Date: Fri, 13 Dec 1996 12:41:40 -0500
From: Radiomatt@aol.com
To: wun@grove.net
Subject: [WUN] AF GPS in E-Mail?

This month's MILITARY & AEROSPACE ELECTRONICS reports that the AF will equip
all C-5, C-141 and KC-10 aircraft with GPS data transmission capability that
will append such "information to all cockpit E-mail messages. This will give
Air Force Air Mobility Command the ability to locate airlift and refueling
craft and get instant crew and cargo status information anywhere in the
world."

Are E-mails sent on HF?
This suggests the possibility of decoding such information (GPS data output
is a standard format) and getting much more info out of each intercept.
Really not too much above what ACARS does for the commercial flight world.

Matt



=====
This is the WUN mailing list.
To post to the list, send a e-mail to :   wun@grove.net
To unsubscribe the list, send a mail to:  majordomo@grove.net
with only "unsubscribe wun" in the BODY of the e-mail.
=====
```

---

336. Re: [APRSSIG:7196] Re: DEEYENDA MADDICK VIRUS (fwd)

From: Bob Lorenzini <hwm@netcom.com>
Date: Fri, 13 Dec 1996 11:14:25 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961213111338.96E-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

The hoax is the virus and we all got it.

Bob - wd6dod

---

337. Re: [APRSSIG:7198] Re: Tripmate ext. antenna?

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 13 Dec 1996 14:17:50 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612131917.OAA01191@smtp2.erols.com>
Rendered body type: text/plain

>As hard as it is for you to realize, some people have different needs
>than you do. For example, I work in a high crime inner city area. Leaving
>anything in plain view invites theft. That means to use the Tripmate as
>part of a tracker, I'd need to set the thing up every time I drive. What
>I want is to have an antenna mounted in my convertible top and have the
>whole thing auto-power up when I turn on the ignition. The Tripmate is a
>great GPS for little money, and I would like to use it with an external
>antenna. I was sharing what I had learned on the subject with others who
>had similar plans to mine. Is this OK with you, or do we need to do it
>your way or not at all?
>
>Steve K4HG
>

Not trying to be smart....
I would think that the GPS would work under the seat in a convertible. It might not see the horizon, but should see a lot of the sky. In this situation, I'd just hang the whole thing under the ragtop. The cable is about the same size as the coax would be and it would sure save a lot of work. But I'd still get rid of the yellow! :)

John Kozak; N3AGG
jkozak@erols.com

---

338. Re: [APRSSIG:7189] Re: Tripmate ext. antenna?

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 13 Dec 1996 13:26:02 -0600
To: aprssig@tapr.org
Message-ID: <32B1ADCA.6D02@amsat.org>
Rendered body type: text/plain

John W. Kozak wrote:

> color. The yellow has to go! Be sure to use a NON-metallic paint if you do
> this! If you aren't sure of your paint, spray a peice of plastic or whatever
> and watch your signal strength as you hold it over the GPS.

I've found that Rustoleum Brand, flat black works well...

73, Paul, n0lrf@amsat.org

---

339. GPS STRINGS UPDATE

From: Tyler Parsons <tparsons@peak.org>
Date: Fri, 13 Dec 1996 11:57:30 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961213195730.00695660@peak.org>
Rendered body type: text/plain

```
>>> Garmin45 v1.5    X     .      X        X        .     .     .    .
>>> Garman45 v2.0    X     X      .        X        X     X     .    .
```

Are the versions in the above representative of the software version displayed in the GPS, ie v2.43 would send strings represented above as the Garmin45 v2.0?

Thanks

Tyler Parsons PLS
WB7DDL   USMA '68
tparsons@peak.org
http://www.peak.org/~parsont/

Ray Bradbury: "We are an impossibility in an impossible universe."

340. Re: DEEYENDA MADDICK VIRUS

From: Tyler Parsons <tparsons@peak.org>
Date: Fri, 13 Dec 1996 11:57:28 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961213195728.0069f910@peak.org>
Rendered body type: text/plain

Gee folks, one original posting and 2 additional postings about this
hoax virus that contained the complete text of the original. This
hoax is spreading quite well, thank you.

Please don't forward messages about viruses unless you investigate
whether or not they are real. There are a number of sources, including
the McAfee and Symantec web pages that give information about real viruses
as well as the common hoaxes such as Irina, Deeyenda, and Good Times.

If you actually get a virus, then we will be willing to hear of it, and
in particular, how you got rid of it.

And please, you will be doing the rest of the mailing list a favor if
you will cut out the irrelevant parts of messages before replying.

Thanks

Tyler Parsons PLS
WB7DDL   USMA '68
tparsons@peak.org
http://www.peak.org/~parsont/
Ray Bradbury: "We are an impossibility in an impossible universe."

341. RE: [APRSSIG:7208] Re: Tripmate ext. antenna?

From: CHEAD@CESADM.CORP.ti.com
Date: Fri, 13 Dec 1996 13:49:19 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@CESADM.CORP.ti.com
Message-ID: <961213134919.2c00262d@CESADM.CORP.TI.COM>
Rendered body type: text/plain

Relative to the flat black paint for the Tripmate. Anyone have an idea how
a black painted Tripmate will fare during a Texas summer? I think it would
get pretty hot!

  73 Claude Head
     K5DTN
     chead@cesadm.corp.ti.com

342. Re: [APRSSIG:7192] DEEYENDA MADDICK VIRUS (fwd)

From: "Kent Hufford" <khufford@erols.com>
Date: Fri, 13 Dec 1996 15:06:48 -0500
To: <aprssig@tapr.org>
Message-ID: <199612132001.PAA07793@smtp2.erols.com>
Rendered body type: text/plain

I HAVE BEEN TOLD THAT THIS IS A FAKE MESSAGE.

YOU SHOULD CHECK WITH THE REAL SOURCES..

CHECK MCAFEE OR NORTON WEB PAGES

```
----------
> From: Arte Booten <N2ZRC@gnn.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7192] DEEYENDA MADDICK VIRUS (fwd)
> Date: Friday, December 13, 1996 11:50 AM
>
> Hi All,
>
>      I received this today via my ARES/RACES mail-reflector:
>
> >Date:        Thu, 12 Dec 1996 16:35:55 -0500 (EST)
> >From:        Barry Schwartz <godzilla@panix.com>
>
> >Thought the below may be of interest to all....it came from the MARS
list.
> >---------- Forwarded message ----------
> >Date: Thu, 12 Dec 96 09:42:44 GMT
> >*******************************************************************
```

> >
> >VIRUS OVER THE INTERNET!!!
> >
> >VERY IMPORTANT INFORMATION, PLEASE READ!
> >
> >There is a computer virus that is being sent across the Internet. If
you receive an
> >email message with the subject line "Deeyenda", DO NOT read the message,
DELETE it
> >immediately!
> >
> >Some miscreant is sending email under the title "Deeyenda" nationwide,
if you get
> >anything like this DON'T DOWNLOAD THE FILE! It has a virus that
rewrites your hard
> >drive, obliterates anything on it. Please be careful and forward this
e-mail to
> >anyone you care about.
> >
> >Please read the message below.
> >
> >FCC WARNING!!!!! -----DEEYENDA PLAGUES INTERNET
> >
> >The Internet community has again been plagued by another computer
virus. This
> >message is being spread throughout the Internet, including USENET
posting, EMAIL,
> and other Internet activities.
> >
> >The reason for all the attention is because of the nature of this virus
and the po-
> >tential security risk it makes.Instead of a destructive Trojan virus
(like most vi-
> >ruses!), this virus referred to as Deeyenda Maddick, performs a
comprehensive search
> >on your computer, looking for valuable information, such as email and
login pass-
> >words, credit cards, personal info., etc.
> >
> >The Deeyenda virus also has the capability to stay memory resident while
running a
> host of applications and operation systems, such as Windows 3.11 and
Windows 95. What
> >this means to Internet users is that when a login and password are send
to the ser-
> >ver, this virus can copy this information and SEND IT OUT TO AN UNKNOWN
ADDRESS
> >(varies).
> >
> >The reason for this warning is because the Deeyenda virus is virtually
undetectable.
> >Once attacked your computer will be unsecure. Although it can attack
any O/S this
> >virus is most likely to attack those users viewing Java enhanced Web
Pages (Netscape
> >2.0+ and Microsoft Internet Explorer 3.0+ which are running under
Windows 95). Re-
> >searchers at
> >Princeton University have found this virus on a number of World Wide Web
pages and
> >fear its spread.
> >
> >Please pass this on, for we must alert the general public at the
security risks.
> >
> >..........end of virus warning........
>
>
==
=========
>
>   I don't know whether or not this is for real, or merely one of those
crackpot
> virus warnings that show up from time to time. You be the judge. But
"forewarned
> is forearmed." 73
>
>
> Mr. Arte Booten (N2ZRC @ gnn.com)

```
> Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>
> Cruise Missile Coordinates 4052.71N/07354.06W
>
> .. Coordinates laid in.  Engaging at warp six ...
>
```

---

343. Re: [APRSSIG:7179] Gateway TNC after AEA Demise?

From: bob <w2g3zfj@unix.asb.com>
Date: Fri, 13 Dec 1996 15:31:56 -0500
To: aprssig@tapr.org
Message-ID: <199612132031.PAA03262@unix.asb.com>
Rendered body type: text/plain

```
Hi Hasan

I used a PK232 initially but for the last 3 years of GATE operation I have
used the Kantronics KAM Plus with both dosAPRS and for the last 6 months
with winAPRS with no problems. Works fine.

73 de bob w2/g3zfj
Long Island Gate


At 08:22 13/12/96 -0600, you wrote:
>Now that it appears that AEA is going into the bit bucket, what would the
>two major software authors, (Bob and Mark/Keith), suggest as a replacement
>for the DSP2232.
>
>Is there a non-AEA TNC out there that will do dual port simultaneous and
>run in the gateway mode AND be compatible with WinAPRS specificially and
>possibly dosAPRS?
>
>
>hasan schiers, N0AN--
>------------------------------------------------------------
>schiers@ames.net
>------------------------------------------------------------
>
>
>
```

---

344. APRS in Austin

From: Mark Rennebaum <markr@itexchsrv1.phx.mcd.mot.com>
Date: Fri, 13 Dec 1996 13:07:49 -0700
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <c=US%a=_mot%p=mot%l=ITEXCHSRV1-961213200749Z-3416@itexchsrv1.phx.mcd.mot.com>
Rendered body type: text/plain

```
I'll be in Austin TX on business but plan to take APRS with. Is there
anyone on the sig from Austin that can tell me if there is significant
APRS activity in the greater Austin area?

Thanks,

- Mark



------------------------------------------------------------------------
----------------------------------------------------
 Mark Rennebaum  KC7KMP
Information Technology
 Motorola MCG
  Phone:  602-438-3176
 2900 South Diablo Way
Pager:   1-800-759-8888

                           Pin # 1085466
 Tempe, Arizona 85282
Fax:       602-438-5627
 Mail Drop AZ43 - DW284
markr@phx.mcd.mot.com
------------------------------------------------------------------------
----------------------------------------------------
```

---

345. NMEA/GPS additional DATA

From: bbliss@juno.com (William B. Bliss)
Date: Fri, 13 Dec 1996 15:10:53 EST
To: aprssig@tapr.org
Message-ID: <19961213.121016.2151.0.bbliss@juno.com>
Rendered body type: text/plain

```
All you SIGGERS,
    My addition to NMEA/GPS DATA...

Subject: GPS NMEA..adittonal DATA Info.....

                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
 GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB HDM
 -------------   --- ------- ------- ----------- ----- ----- ----- ---
 Magln 5000       X     X       X         .        ?           ?    .
 Garmin45 v1.5    X     .       X         X        .     .     .    .
          v2.0    X     X       .         X        X     X     .    .
 Garmin GPS-20    .     X       X         X        X     .     .    .
  GARMIN GPS 25   .     X       X         X        X     .     .    .
***
 Garmin GPS-55    x     .       .         X        .     X     .    .
**
 Garmin GPS95XL   X     .       .         X        .     X     .    .
**
  GARMIN GPS 130  X     X       X         X        X     X     .    .
****
  Icom GP-22      X     X       X         .        .     .     .    .
     w/OPK-4
-----------------------My addition.................
****
 Motorola
     TRAXAR       X     X       .          X   (RMB/C, APA, BWC, XTE)
 Interphase
    Pilot GPS     X     .       X          X   (RMB, BWC, APA, APB)
  -------------------------------------------
   The NMEA 0183 data sentences are:
$GPRMC,224317,A,3657.55,N12203.80,W00.1,325,140491,15.5,E*7A
$GPRMB,A,0.02,R.STRT,WEST,3657.54,N12303.80,W,047.9,270,00.1,V*01
$GPGLL,3657.55,N,12203.80,W
$GPBWC,224317,3657.54,N12303.80,W,270,T,255,M,047.9,N,WEST
$GPVTG,325,T,309,M,00.1,N,00.2,K
$GPAPA,A,A,O.O2,R,N,V,V,255,M,WEST
$GPAPB,A,A,0.02,R,N,V,V,255,M,WEST,255,M
---------------------------------------------------
Glossary:
  APA..Autopilot Sentence, BWC..Bearing & Distance to Waypoint,
  GGA..Global Positioning System Fix Data,
  GLL..Geographic Position--Latitude/Longitude (Loran Data)
  RMB/C..Recommended Minimum Navigation Information.
  XTE.. Cross track Error.,  APB..??????, VTG,,????
------------------------------------------------------- End adittion.

> ** The Garmin 55 and 95XL also output the following sentences:
>         GPBWC, GPRMB, GPROO, GPXTE and GPWPL

  *** Also:
    GSA: Dopler & active Sat's
  LCGLL: Loran Talker ID Lat/Long/UTC
  LCVTG: Loran Talker ID track & velocity

  *** Also:
    GSA, RMB, RTE, WPL, BOD

ICU,
--
-------------------------------------------------------------------------
  73's & Enjoy, Bill/WB6LPG bbliss@juno.com & wbliss@coastside.net

NNNN
```

346. $GPRMC Sentence

From: bbliss@juno.com (William B. Bliss)
Date: Fri, 13 Dec 1996 15:26:53 EST
To: aprssig@tapr.org
Message-ID: <19961213.122622.2151.2.bbliss@juno.com>
Rendered body type: text/plain

```
Hi SIGgers,
     Additional breakdown of RMC SENTENCE
```

Attn: GPS users...   Filed: 170500GMT MAR 96

Following protocol from Motorola Tech Support. May be of interst to APRS GPS MOBILE fans, posted several times past two years..

$GPRMC PROTOCOL, RMC GPS Message. Gives Time, Position, Course/Speed. Best for APRS use, plots your mobile unit as you move, for all to see on their maps.

```
       1      2 3       4 5        6 7     8    9      10 11 12
$GPRMC,xxxxxx,A,xxxx.xx,N,xxxxx.xx,W,xx.xx,xxx.,xxxxxx,xx.,E*xx<CR><LF
```

No.	Field	Units/Range
1	Time, UTC	Hours, Minutes, Seconds/
2	Status	A=Valid, V= Invalid
3	Latitude	Degrees, Minutes and Hundredths/ 00-90, 00-59, 00-99
4	Direction	N= North, S = South,
5	Lontitude	Degrees, Minutes and Hundredths/ 00-180, 00-59, 00-99,
6	Direction	E = East, W = West
7	Speed over ground	Knots/ 00.0 - 99.9
8	Course over ground	Degrees in referenced to True North/ 000-999 (000-359)
9	Date	Day, Month, Year/ 00-31, 00-12, 00-99/
10	Variation	Degrees/ 00-99
11	Variation sense	E = East, W = West
12	Mandatory Checksum	Hex - 7F

The above protocol data is as sent on a single Packet UI fram, like so:

```
WB6LPG-9
$GPRMC,095302,A,3727.39,N,12226.29,W,04.58,160.14,021094,15.45,E*4E
```

It is received as a plot/fix on you APRS Map as a Car&Call and heading line/flag, in the correct position and in your Position Log as foll:

```
WB6LPG   021094z020953/3727.39N/12226.29W>160/1.4/raw*/RMC Fix
```

If desired can send the $GPGGA sentence, for Time, Position, Altitude only.
but very similiar fields.

73's & Enjoy, Bill/WB6LPG (wbliss@coastside.net) Half Moon Bay, Calif.
NNNN

---

347. $GPGGA Sentence breakdown FYI

From: bbliss@juno.com (William B. Bliss)
Date: Fri, 13 Dec 1996 16:07:44 EST
To: aprssig@tapr.org
Message-ID: <19961213.130410.2151.6.bbliss@juno.com>
Rendered body type: text/plain

Attn: SIGgers..
And here is the GGA sentence breakdown..

All GPS/APRS USERS.   From Motorola Tech Support..

NMEA-0183 protocol/sentences for the $GPGGA data string, giving time, position, altitude.

```
       1      2       3 4        5 6 7 8   9    10 11  12 13
$GPGGA,xxxxxx,zzzz.zz,N,zzzzz.zz,W,x,x,xxx,uxx,M,uxxx,m*xx<CR><LF>
```

No	Field	Units/Range
1	Time/UTC of Posit.	Hours, Minutes, Seconds/ 00-24, 00-59, 00-59
2.	Latitude	Degrees, Minutes and Hundredths/ 00-90, 00-59, 00-99
3.	Direction	N = North, S = South
4.	Longitude	Degrees, Minutes and Hundredths/ 00-180, 00-59, 00-99
5.	Direction	E = East, W = West,
6.	GPS Quality Indicator	0 = GPS not Available 1 = GPS available.
7.	Number of Satellites Being used..	no units/ 2 - 4
8.	HDOP	no units/ ? - ? (Don't know what means, don't ask)

```
  9.    Antenna Height         meters/
                               -99 to 99 where u is sign if minus.
  10.   Units                  M for meters.
  11.   Geoidal Height         meters/
                               -99 to 99 where u is sign if minus
  12.   Units                  M for meters
  13.   Checksum (optional)    Hex 00-7F

   If you notice the above format in a packet message, this will give you
some information on what the position report means.
   For APRS the $GPRMC sentence is more acceptable as it give Time,
Position, Course, and speed.
   Whereas this $GPGGA data string, only give Time, Position and Height,
which I have been told is not accurate height MSL on GPS receivers,
below about 2000 feet.

    73's & Enjoy, Bill/WB6LPG   @ wbliss@coastside.net

NNNN
```

---

348. Re: [APRSSIG:7211] Re: Tripmate ext. antenna?

From: jkozak@erols.com (John W. Kozak)
Date: Fri, 13 Dec 1996 16:18:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612132118.QAA21004@smtp2.erols.com>
Rendered body type: text/plain

```
>Relative to the flat black paint for the Tripmate. Anyone have an idea how
>a black painted Tripmate will fare during a Texas summer? I think it would
>get pretty hot!
>
>  73 Claude Head
>     K5DTN
>     chead@cesadm.corp.ti.com
>
If it's sitting on the dash for any length of time, I doubt that the peak
temp would be much different no matter what color it is! I've had clear
plastic cassette cases curl up like they were paper. I think that it would
only heat up faster if it was black. I'm sure a NON-metalic sun shade would
be helpful when parked, but I'd rather bake my Tripmate than my Garman 90! :)


John Kozak; N3AGG
jkozak@erols.com
```

---

349. Re: [APRSSIG:7211] Re: Tripmate ext. antenna?

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 13 Dec 1996 15:32:57 -0600
To: aprssig@tapr.org
Message-ID: <32B1CB89.441A@amsat.org>
Rendered body type: text/plain

```
CHEAD@cesadm.corp.ti.com wrote:
>
> Relative to the flat black paint for the Tripmate. Anyone have an idea how
> a black painted Tripmate will fare during a Texas summer? I think it would
> get pretty hot!

There's a good question: What is the max temp rating for the housing
material? I don't think the color will affect the solar heating of an
object on the dashboard very much, in fact some paints can minutely
insulate thermal emission.

Dashboard objects run around 150 degrees F, on an 85 degree F day, on
a sunny Mid Western summer day.

But I admit that Texas is much closer to the equator...  (-:

--
73, Paul, n0lrf@amsat.org
```

---

350. Re: [APRSSIG:7178] AEA PK-12 problems with APRS

From: rbost@itexas.net (Roy Bost)
Date: Fri, 13 Dec 1996 16:06:13 -0600
To: <aprssig@tapr.org>
Message-ID: <19961213220712262.AAA160@rbost.itexas.net>
Rendered body type: text/plain

See what your manual says about leaving the monitor command on when not connected to the 'puter. I understand that on some TNC's when left unattended the buffers will fill up and lock up the TNC. I am probably wrong but check it out.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

---

351. Re: [APRSSIG:7195] Re: Tripmate ext. antenna?

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 13 Dec 1996 16:37:07 -0800
To: aprssig@tapr.org
Message-ID: <32B1F6B3.10D8@concentric.net>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> I cannot for the life of me understand why anyone would want to add an
> external antenna to the tripmate and add the complexity of RF cables,
> connectors, DC biasing, and and an external antenna. And then being
> limited to RF cable length etc.
>
> The tripmate sounds like it is an ideal package with GPS and antenna all
> in one and you can have an infinitly long DC/DATA cable to it. Just stick
> it on the roof or wherever you would normally plan on putting the antenna!
>
> If it is not WX proof, then solve that with some epoxy. If you dont like
> the color, paint it. I havent seen one, so these statements may come back
> to haunt me as a fool, but The BEST GPS units for APRS are all-in-ones
> where there is NO RF cable and you can put it ANYWHERE you can string a
> small DC/DATA cable...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio: http://www.tapr.org/tapr.html/mic-e.html

Exactly. The Tripmate is watertight (Or resistant) and I don't mean to a dept of 100 feet, so don't pick this apart ;-). Just take the little rubber feet of the bottom and go to Rat shack and get 4 magnets with the adhesive backing and you have an external gps receiver. But then again WHY. I used mine several times with it sitting on my pickup dash and never last a single position, i did get a few yellow arrows but that didn't effect the accuracy at all.

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

352. Re: [APRSSIG:7197] Re: Tripmate ext. antenna?

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 13 Dec 1996 16:40:19 -0800
To: aprssig@tapr.org
Message-ID: <32B1F773.75C4@concentric.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> No I didn't write this. If you are going to put someone's name on a
> quotation, please make sure you are attributing to the correct party.
>
> Start of quote from WA8INZ:
>
> Steve Dimse wrote:
> >
> > >I've been following the mail about the tripmate and I am wondering if it
> > >is possible to modify it to use an external antenna. I don't quite like
> > >the idea of setting it on the dashboard for several reasons, especially
> > >because of its bright color. Please, I would like to find out before I
> > >go out and purchase one.
> > >
>
> End of quote...

Sorry Steve, but this isn't my writing either Hi. I know your name was in the posting somewhere.

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

353. Re: [APRSSIG:7198] Re: Tripmate ext. antenna?

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 13 Dec 1996 16:46:48 -0800
To: aprssig@tapr.org
Message-ID: <32B1F8F8.165A@concentric.net>
Rendered body type: text/plain

```
Steve Dimse wrote:
>
> No, I didn't write this. Please, if you are going to attribute a quote to
> someone, make sure it is the right person! I was answering this question
> from another person.
>
> >Steve Dimse wrote:
> >>
> >> >I've been following the mail about the tripmate and I am wondering if it
> >> >is possible to modify it to use an external antenna.  I don't quite like
> >> >the idea of setting it on the dashboard for several reasons, especially
> >> >because of its bright color.  Please, I would like to find out before I
> >> >go out and purchase one.
> >> >
> >
> >Why would anyone want a external antenna for the Tripmate, If so why not
> >just glue some magnets on the bottom of the receiver and place it on top of
> >the vehicle it looks like it's water tight. Personally with what testing I
> >have done with the receiver on the dash works just great in fact much
> >better then my Magellan ever did.
> >--
> >      \////
> >      (0 0)
> > *--o0-(_)-0o--*
> > wa8inz@amsat.org
> > wa8inz@cris.com
> >
> As hard as it is for you to realize, some people have different needs
> than you do. For example, I work in a high crime inner city area. Leaving
> anything in plain view invites theft. That means to use the Tripmate as
> part of a tracker, I'd need to set the thing up every time I drive. What
> I want is to have an antenna mounted in my convertible top and have the
> whole thing auto-power up when I turn on the ignition. The Tripmate is a
> great GPS for little money, and I would like to use it with an external
> antenna. I was sharing what I had learned on the subject with others who
> had similar plans to mine. Is this OK with you, or do we need to do it
> your way or not at all?
>
> Steve K4HG

Here we go again!. Of course you can do whatever you want, but again specially
in a convertible, and that you want to keep it hidden is even more reason to
leave it just the way it comes out of the box, well almost i would paint the
thing another color.
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

354. Re: [APRSSIG:7185] Re: Gateway TNC after AEA Demise?

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Fri, 13 Dec 1996 17:45:46 -0500
To: <aprssig@tapr.org>
Message-ID: <199612132252.RAA01301@grumpy.magg.net>
Rendered body type: text/plain

```
KAM Plus is the only thing! I have spoken so a lovley little lady at
PacComm in the past <grin> and the GATE feature is possible. Now that
Kantronics is the only player this may be a bit of an incentive for them to
start the fire burning on a GAZTE type TNC of their own!

----------
> From: Mark Sproul <sproul@ap.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7185] Re: Gateway TNC after AEA Demise?
> Date: Friday, December 13, 1996 10:32 AM
>
> >Now that it appears that AEA is going into the bit bucket, what would
the
> >two major software authors, (Bob and Mark/Keith), suggest as a
replacement
> >for the DSP2232.
> >
> >Is there a non-AEA TNC out there that will do dual port simultaneous and
> >run in the gateway mode AND be compatible with WinAPRS specificially and
> >possibly dosAPRS?
> >
> >
>
>
> The KAM Plus I think
>
>
____________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
>
____________________________________________________________________________
>
```

355. Re: [APRSSIG:7191] Re: Gateway TNC after AEA Demise?

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Fri, 13 Dec 1996 17:48:10 -0500
To: <aprssig@tapr.org>
Message-ID: <199612132254.RAA01414@grumpy.magg.net>
Rendered body type: text/plain

```
You must have been lucky, my army of TNC's include two KAM's and I will
never purchase another Kantronics product again! I have found their tech
support to be very poor, mostly that they will not even want to listen to
what needs to be fixed but also just plain old support.

----------
> From: Ross McClain <aa0mm@cjnetworks.com>
> To: aprssig@tapr.org
> > ------------------------------------------------------------
> Check out kantronics.com when you get some time. I think they have what
> you are looking for. I have never used an AEA, so can not advise you on
> features specific. However, the Kantronics line is a fine TNC, and they
> have EXCELLANT TECH SUPPORT!
>
```

356. Re: [APRSSIG:7207] Re: Tripmate ext. antenna?

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 13 Dec 96 18:18:02 -0500
To: <aprssig@tapr.org>
Message-ID: <199612132318.SAA29078@newworld.bridge.net>
Rendered body type: text/plain

```
>Not trying to be smart....
> I would think that the GPS would work under the seat in a convertible. It
>might not see the horizon, but should see a lot of the sky. In this
>situation, I'd just hang the whole thing under the ragtop. The cable is
>about the same size as the coax would be and it would sure save a lot of
>work. But I'd still get rid of the yellow! :)
>
You missed the point...if you can see it, they will steal it. I want it
mounted _inside_ the roof...and the roof is too thin (and too weak) for
the whole unit.

It wouldn't work under the seat, only 20 or 30 degrees of sky would be in
view and much of that obstructed by the occupants. It does work mounted
under the rear deck, but the degredation of signals and obstruction of
part of the sky limit the number of satellites seen. The roof is the best
option.

Steve K4HG
```

357. Re: [APRSSIG:7213] Re: Gateway TNC after AEA Demise?

From: schiers@ames.net
Date: Fri, 13 Dec 96 17:17:19 -0600
To: aprssig@tapr.org
Cc: bob <w2g3zfj@unix.asb.com>
Message-ID: <199612132323.RAA01553@brain.ames.net>
Rendered body type: text/plain

```
In <199612132031.PAA03262@unix.asb.com>, on 12/13/96 at 02:13 PM,
   bob <w2g3zfj@unix.asb.com> said:

>I used a PK232 initially but for the last 3 years of GATE operation I
>have used the Kantronics KAM Plus with both dosAPRS and for the last 6
>months with winAPRS with no problems. Works fine.

Now that is a novel thought! How can the 232, which doesn't support dual
port (simultaneous) operation be used as a dual port gateway tnc? I have
one sitting here with the latest firmware and I see no indication that it
has any prayer of working in that mode.

Thanks so much for your 2nd comments about the Kam +...that is exactly the
kind of info I was looking for: "I have one, I use it the way you intend
with the software you are going to use and it works." I couldn't have
asked for more. At least now I know when the 2232 craps out and it can't
be fixed, (also knowing it will no longer be supported), I can go get a
KAM + and be happy. I hope the KAM + is a good performer.

Actually, it is a bit of a joke to say AEA ever supported the 2232. They
misrepresented its development from the first day. Made excuses, blamed
others and promised the moon. They delivered on very little, except some
very minor prom upgrades. They blew it. A marvelous dsp engine is inside
that thing and they botched it.

If I seem bitter...I am. 1 kilobuck in the toilet.

I would be very interested to hear about the KAM + performance on hf and
any other feedback about using it in gateway dual port mode with WinAPRS.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

358. Re: [APRSSIG:7179] Gateway TNC after AEA Demise?

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Fri, 13 Dec 1996 17:59:11 -0600
To: aprssig@tapr.org
Message-ID: <199612132355.XAA146224@smtp-gw01.ca.us.ibm.net>
Rendered body type: text/plain

```
>Now that it appears that AEA is going into the bit bucket, what would the
>two major software authors, (Bob and Mark/Keith), suggest as a replacement
>for the DSP2232.
>

BTW - is there some way to eliminate the "p1:" that precedes every packet
received on the 2232?  We have one at a club station and when I've played
around with it and APRS, all the calls get logged with that prefix.  I
couldn't find anything in the manual that told how to get rid of it.

Thanks.
Tony Drumm
ARS AA0SM - Rochester, MN
```

---

359. Re: [APRSSIG:7225] Re: Gateway TNC after AEA Demise?

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Fri, 13 Dec 1996 16:03:06 -0800
To: aprssig@tapr.org
Message-ID: <32B1EEBA.305B@ix.netcom.com>
Rendered body type: text/plain

```
Richard F. Garcia wrote:
>
> You must have been lucky, my army of TNC's include two KAM's and I will
> never purchase another Kantronics product again! I have found their tech
> support to be very poor, mostly that they will not even want to listen to
> what needs to be fixed but also just plain old support.
```

```
>
> ----------
> > From: Ross McClain <aa0mm@cjnetworks.com>
> > To: aprssig@tapr.org
> > > ----------------------------------------------------------
> > Check out kantronics.com when you get some time. I think they have what
> > you are looking for. I have never used an AEA, so can not advise you on
> > features specific. However, the Kantronics line is a fine TNC, and they
> > have EXCELLANT TECH SUPPORT!
> >


Kantronics has Excellent Tech Support! The KAM+ is (in my opinion) one
of the best Multi-mode TNC's available. Must confess that I don't care
for there software. I have 3 KPC-3's and 2 KAM's. I bought one of the
very first KPC-3's and a KAM's to hit the market. Over the years, I have
up-graded both of them as the up-grades became available. They (both)
are performing as you would expect a new current version to perform.

The firmware/hardware chips in the up-grades were easily installed, and
have performed flawlessly..! For my money, Kantronics TNC's are
peerless.

GL.

Bill  KB6LFM
West Coast APRS Gateway Station in SFO
```

360. Re: [APRSSIG:7214] APRS in Austin

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Fri, 13 Dec 1996 18:09:37 -0800
To: aprssig@tapr.org
Message-ID: <32B20C61.2EDE@n-link.com>
Rendered body type: text/plain

```
Mark Rennebaum wrote:
>
> I'll be in Austin TX on business but plan to take APRS with. Is there
> anyone on the sig from Austin that can tell me if there is significant
> APRS activity in the greater Austin area?
>
> Thanks,
>
> - Mark
>
> -----------------------------------------------------------------------
> ---------------------------------------------------
>  Mark Rennebaum  KC7KMP
> Information Technology
>  Motorola MCG
>   Phone:  602-438-3176
>  2900 South Diablo Way
> Pager:   1-800-759-8888
>
>                            Pin # 1085466
>  Tempe, Arizona 85282
> Fax:       602-438-5627
>  Mail Drop AZ43 - DW284
> markr@phx.mcd.mot.com
> -----------------------------------------------------------------------
> ---------------------------------------------------
Mark I live in Lampasas TX 63 miles north of Austin, I drive and work in
Austin... There is APRS activity 145.790 and I do run a tracker...
Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line
```

361. Re: [APRSSIG:7228] Re: Gateway TNC after AEA Demise?

From: schiers@ames.net
Date: Fri, 13 Dec 96 18:08:55 -0600
To: aprssig@tapr.org
Message-ID: <199612140008.SAA02135@brain.ames.net>
Rendered body type: text/plain

```
In <199612132355.XAA146224@smtp-gw01.ca.us.ibm.net>, on 12/13/96 at 06:02
PM,
   TonyDrumm@ibm.net (Tony Drumm) said:

>BTW - is there some way to eliminate the "p1:" that precedes every packet
>received on the 2232?  We have one at a club station and when I've played
>around with it and APRS, all the calls get logged with that prefix.  I
>couldn't find anything in the manual that told how to get rid of it.

I use mine with WinAPRS and it is not bothered by the P1 P2 business. In
fact, I would think it absolutely needed to see those prefixes or it
wouldn't know how to assign HF or VHF as the source of the data.

I can't speak for dosAPRS because I never succeeded in getting it to run
properly with it. Maybe someone else can help you with that part. 73

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

362. Re: Tripmate ext. antenna?

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Fri, 13 Dec 1996 16:32:46 -0800
To: aprssig@tapr.org
Message-ID: <199612140032.QAA29219@netcom19.netcom.com>
Rendered body type: text/plain

```
Actually someone mentioned the best reason to put an external antenna
on it:  the temperature that anything exposed to the sun gets in some
climates.  On the other hand, the Tripmate would be expected to be
exposed to the sun in the designed application.  So, what's its
maximum specified operating temprature?

73, doug
```

363. RE: [APRSSIG:7229] Re: Gateway TNC after AEA Demise?

From: rwhart@ix.netcom.com
Date: Fri, 13 Dec 96 19:39:40 est
To: aprssig@tapr.org
Message-ID: <Chameleon.850524054.rwhart@pc.wa3mez.netcom.com>
Rendered body type: text/plain

```
I agree 100%. I have an older Kam that has been
updated several times. The Kantronics folks have
always been nice tow work with and the TNC is a real
jewel.
-------------------------------------
Name: Roderick W. Hart
E-mail: rwhart@ix.netcom.com
Amateur Radio Station WA3MEZ
US ARMY MARS Station AAR3DQ
Date: 12/13/96
Time: 7:39:40 PM
-------------------------------------
```

364. Re: [APRSSIG:7227] Re: Gateway TNC after AEA Demise?

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 13 Dec 1996 18:52:54 -0800
To: aprssig@tapr.org
Message-ID: <32B21686.7E8D@amsat.org>
Rendered body type: text/plain

```
schiers@ames.net wrote:

> I would be very interested to hear about the KAM + performance on hf and
> any other feedback about using it in gateway dual port mode with WinAPRS.

FYI, I've been running an old KAM for about 3 years now on VHF, HF and
occasionally APRS VHF/HF GATE, and never had a problem (which I couldn't
fix after READING THE MANUAL, DUH)...

I'm quite happy with their products.

--
73, Paul, n0lrf@amsat.org
```

365. Re: [APRSSIG:7228] Re: Gateway TNC after AEA Demise?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 13 Dec 1996 20:14:30 -0400
To: TonyDrumm@ibm.net
Cc: Aprssig@tapr.org
Message-ID: <850526070-0-eac@shore.net>
Rendered body type: text/plain

Hello,

Look at the CUSTOM command in the manual. You may have to look in the
upgrade
documentation sheets.

73 Eric eac@shore.net WB1HBU

366. Message list dating in WinAPRS

From: ko6xs@ko6xs.ampr.org
Date: Fri, 13 Dec 96 17:49:04 PST
To: aprssig@tapr.org
Message-ID: <9921@ko6xs.ampr.org>
Rendered body type: text/plain

For some reason, The messages I'm receiving in WinAPRS are all displayed in
the message list window with the date of 12/31, even though the computer
clock has the right date. I even tried clearing message logs and restarting
WinAPRS. Any ideas about fixing this would be appreciated.

TNX & 73s de ko6xs, Jon

```
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ko6xs@kk6yo.#soca.ca.usa      □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

367. Re: [APRSSIG:7236] Message list dating in WinAPRS

From: Gary Arnold <garnold@naples.net>
Date: Fri, 13 Dec 1996 21:48:57 -0500
To: aprssig@tapr.org
Message-ID: <32B21599.7367@naples.net>
Rendered body type: text/plain

ko6xs@ko6xs.ampr.org wrote:
>
> For some reason, The messages I'm receiving in WinAPRS are all displayed in
> the message list window with the date of 12/31, even though the computer
> clock has the right date. I even tried clearing message logs and restarting
> WinAPRS. Any ideas about fixing this would be appreciated.
>
> TNX & 73s de ko6xs, Jon
>

Suddenly I am having a similar problem Win 1.1.7. No matter what I do,
the CMOS clock is right, and WinAPRS shows 12/31. Thought it was my
problem...am relieved to know other are finding it too. Any suggestions
would be appredicated!

73,
Gary
--
Gary Arnold, CEM
Collier County Emergency Management
E-mail: garnold@naples.net
Packet: wb2wpa@wb2wpa.#nap.fl.usa.noam

EM home page: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
My home page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"It doesn't matter what temperature a room is, it's always room
temperature."
        --Steven Wright, peripheral visionary

368. Deeyenda Hoax: Apology

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 13 Dec 1996 21:47:16
To: aprssig@tapr.org
Message-ID: <199612140248.VAA00325@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

     Well, once burned, twice shy.  I apologize to the SIG for posting what I since
have learned was a hoax without first investigating it.  73


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

---

369. Re: DEEYENDA MADDICK VIRUS (fwd)

```
From: kc7htk@juno.com (Casey T Lasley)
Date: Fri, 13 Dec 1996 21:56:24 EST
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <19961213.190837.11783.1.KC7HTK@juno.com>
Rendered body type: text/plain
```

```
This appears to be a variant of the" good times" hoax from greg frady to
a friend of his 10-15 years ago and got loose on the internet before he
could stop his buddy from placing it there. I received a similar e-mail
from my daughter approximately 2 months ago and talked directly with
greg. But i agree to be forewarned is to be forearmed. best bet it to
track down the original source if possible for verification.  :)
73"s
casey



On Fri, 13 Dec 1996 14:05:34 -0600 (CST) "Kent Hufford"
<khufford@erols.com> writes:
>I HAVE BEEN TOLD THAT THIS IS A FAKE MESSAGE.
>
>YOU SHOULD CHECK WITH THE REAL SOURCES..
>
>CHECK MCAFEE OR NORTON WEB PAGES
>
>----------
>> From: Arte Booten <N2ZRC@gnn.com>
>> To: aprssig@tapr.org
>> Subject: [APRSSIG:7192] DEEYENDA MADDICK VIRUS (fwd)
>> Date: Friday, December 13, 1996 11:50 AM
>>
>> Hi All,
>>
>>      I received this today via my ARES/RACES mail-reflector:
>>
>> >Date:       Thu, 12 Dec 1996 16:35:55 -0500 (EST)
>> >From:       Barry Schwartz <godzilla@panix.com>
>>
>> >Thought the below may be of interest to all....it came from the
>MARS
>list.
>> >---------- Forwarded message ----------
>> >Date: Thu, 12 Dec 96 09:42:44 GMT
>>
>>*********************************************************************
>> >
>> >VIRUS OVER THE INTERNET!!!
>> >
>> >VERY IMPORTANT INFORMATION, PLEASE READ!
>> >
>> >There is a computer virus that is being sent across the Internet.
>If
>you receive an
>> >email message with the subject line "Deeyenda", DO NOT read the
>message,
>DELETE it
>> >immediately!
>> >
>> >Some miscreant is sending email under the title "Deeyenda"
>nationwide,
>if you get
>> >anything like this DON'T DOWNLOAD THE FILE!  It has a virus that
>rewrites your hard
>> >drive, obliterates anything on it. Please be careful and forward
>this
```

>e-mail to
>> >anyone you care about.
>> >
>> >Please read the message below.
>> >
>> >FCC WARNING!!!!! -----DEEYENDA PLAGUES INTERNET
>> >
>> >The Internet community has again been plagued by another computer
>virus. This
>> >message is being spread throughout the Internet, including USENET
>posting, EMAIL,
>> and other Internet activities.
>> >
>> >The reason for all the attention is because of the nature of this
>virus
>and the po-
>> >tential security risk it makes.Instead of a destructive Trojan
>virus
>(like most vi-
>> >ruses!), this virus referred to as Deeyenda Maddick, performs a
>comprehensive search
>> >on your computer, looking for valuable information, such as email
>and
>login pass-
>> >words, credit cards, personal info., etc.
>> >
>> >The Deeyenda virus also has the capability to stay memory resident
>while
>running a
>> host of applications and operation systems, such as Windows 3.11 and
>Windows 95. What
>> >this means to Internet users is that when a login and password are
>send
>to the ser-
>> >ver, this virus can copy this information and SEND IT OUT TO AN
>UNKNOWN
>ADDRESS
>> >(varies).
>> >
>> >The reason for this warning is because the Deeyenda virus is
>virtually
>undetectable.
>> >Once attacked your computer will be unsecure. Although it can
>attack
>any O/S this
>> >virus is most likely to attack those users viewing Java enhanced
>Web
>Pages (Netscape
>> >2.0+ and Microsoft Internet Explorer 3.0+ which are running under
>Windows 95). Re-
>> >searchers at
>> >Princeton University have found this virus on a number of World
>Wide Web
>pages and
>> >fear its spread.
>> >
>> >Please pass this on, for we must alert the general public at the
>security risks.
>> >
>> >..........end of virus warning........
>>
>>
>==
>=========
>>
>>   I don't know whether or not this is for real, or merely one of
>those
>crackpot
>> virus warnings that show up from time to time. You be the judge.
>But
>"forewarned
>> is forearmed." 73
>>
>>
>> Mr. Arte Booten (N2ZRC @ gnn.com)
>> Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>>
>> Cruise Missile Coordinates 4052.71N/07354.06W
>>

```
>> .. Coordinates laid in.  Engaging at warp six ...
>>
>
>
```

370. Re: [APRSSIG:7237] Re: Message list dating in WinAPRS

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 13 Dec 1996 21:45:34 -0800
To: aprssig@tapr.org
Message-ID: <32B23EFE.49B9@amsat.org>
Rendered body type: text/plain

```
Gary Arnold wrote:

Suddenly I am having a similar problem Win 1.1.7.  No matter what I do,
> the CMOS clock is right, and WinAPRS shows 12/31.  Thought it was my
> problem...am relieved to know other are finding it too.  Any suggestions
> would be appredicated!
Me too.
Received word from Mark today that something may be awry...said he would
look into it this evening....let's stay tuned...

--
73, Paul, n0lrf@amsat.org
```

371. Re: [APRSSIG:7238] Deeyenda Hoax: Apology

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 13 Dec 1996 21:48:44 -0800
To: aprssig@tapr.org
Message-ID: <32B23FBC.4455@amsat.org>
Rendered body type: text/plain

```
Arte Booten wrote:

>      Well, once burned, twice shy.  I apologize to the SIG for posting what I since
> have learned was a hoax without first investigating it.  73

Ahhhh, Arte, you were just trying to be nice....we still LIKE YOU.

--
73, Paul, n0lrf@amsat.org
```

372. RE: [APRSSIG:7236] Message list dating in WinAPRS

From: Jerry Rector <jerryr49@magg.net>
Date: Fri, 13 Dec 1996 22:59:10 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBE949.44EBA940@wpb-160.magg.net>
Rendered body type: text/plain

```
ko6xs@ko6xs.ampr.org wrote:
>For some reason, The messages I'm receiving in WinAPRS are all displayed in
>the message list window with the date of 12/31, even though the computer
>clock has the right date. I even tried clearing message logs and restarting
>WinAPRS. Any ideas about fixing this would be appreciated.
>
>TNX & 73s de ko6xs, Jon
>
>
>         EIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII>
>         o ???  smtp  ko6xs.ampr.org. 44.16.1.241   ??? o
>         o ???  ax25  ko6xs@kk6yo.#soca.ca.usa      ??? o
>         o ???  email ko6xs@wwcb.earthlink.net      ??? o
>         EIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII?
>
>

Mine is doing the same thing, including in the Davis Wx Display
window....
Anyone have any ideas??

jerryr49@magg.net
Jerry Rector
```

373. Re: [APRSSIG:7218] Re: Tripmate ext. antenna?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 14 Dec 1996 00:04:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961213235345.691H-100000@arctic>

Rendered body type: text/plain

Someone wrote:
> >Relative to the flat black paint for the Tripmate. Anyone have an idea how
> >a black painted Tripmate will fare during a Texas summer?

Kozak replied:
> If it's sitting on the dash for any length of time, I doubt that the peak
> temp would be much different no matter what color it is! I've had clear
> plastic cassette cases curl up like they were paper.

COMMENT: Ignoring convection and conduction by air, the black will absorb
3 times as much as white paint but covering it with aluminum foil would
make it 10 times worse! WHITE is the only answer to keep it cooler.
Strangly, altthough the Aluminum reflects a lot of the radiation, it
RETAINS it due to very low emissivity (thats why you use aluminum foil for
insulation).

My first GPS tracker, in a baking pan on the roof, I thought
would reflect heat due to the flashy surface. WRONG. It got blazingly
hot. Painted it white and it is COOL to the touch even on the roof of a
BLACK car in JULY sun.

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

374. Re: [APRSSIG:7228] Re: Gateway TNC after AEA Demise?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 14 Dec 1996 00:11:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961214001007.691I-100000@arctic>
Rendered body type: text/plain

On Fri, 13 Dec 1996, Tony Drumm wrote:

> BTW - is there some way to eliminate the "p1:" that precedes every packet
> received on the 2232? We have one at a club station and when I've played
> around with it and APRS, all the calls get logged with that prefix.

APRSdos REPLY/COMMENT: Over a year ago, I started filtering that out. Are
you sure you were using something newer than version 6 of APRS?

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

375. Tripmate Power

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 13 Dec 1996 23:41:14 -0800
To: aprssig@tapr.org
Message-ID: <32B25A1A.247F@concentric.net>
Rendered body type: text/plain

Here is the GIF file of the power supply for the Tripmate that didn't get
included in the instruction message on how to build it. It's attached to
this posting.
--

```
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

[Attachment: TRIPPOW.GIF; image/gif; 2,625 bytes]

376. APRS onHF

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 14 Dec 1996 01:16:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961214011007.691T-100000@arctic>
Rendered body type: text/plain

Activity on HF seems down recently. SOmething wrong with my antenna? In
hooking up this MFJ to the antenna, it seemed like a full minute before I
heard a single packet on 10.151 today.

Exposing my lack of experience on the DC bands, I thought conditions got
better in the winter compared to the summer. I remember getting 5 full

```
pages every 2 hours this summer on weekends...(VHF and HF combined)

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

377. Linux APRS utils

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Sat, 14 Dec 96 1:25:18 EST
To: aprssig@tapr.org, linux-hams@vger.rutgers.edu
Message-ID: <CMM.0.90.4.850544718.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

```
See http://www.cloud9.net/~alan/ham/aprs/.  In there find, aprsmon.tgz.
But, first, you can just look at the man pages that are referenced
on the web page for beacon, aprsmon, aprsdigi.

To build these requires ax25-utils-2.0.12 to be located in the same
parent directory (see the Makefile).  I'd appreciate those of you
Linux/APRS-oriented to test this stuff out and get me bug reports
and total rewrites of my lame code(;-) so I can shake it out some
prior to submitting it as a patch for possible inclusion on the main
ax25-utils-whatever-is-current.  Terry -- I'll get that patch to you
after a few days....

Even just reading the man pages and commenting on that would be
appreciated.

For those APRS-types contemplating this linux thing, start by reading
the AX25-HOWTO at http://sunsite.unc.edu/pub/Linux/docs/HOWTO/AX25-HOWTO.
For those Linux-types see http://www.tapr.org/tapr/html/sigs.html for
a good starting point.

N2YGK-8 is currently running aprsdigi as a conventional digi with
alias RELAY as well as SSID and WIDE-n routing.

73 de Alan N2YGK
```

---

378. Re: [APRSSIG:7246] APRS onHF

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 14 Dec 96 02:01:23 -0500
To: <aprssig@tapr.org>
Message-ID: <199612140701.CAA06265@newworld.bridge.net>
Rendered body type: text/plain

```
>Activity on HF seems down recently.  SOmething wrong with my antenna? In
>hooking up this MFJ to the antenna, it seemed like a full minute before I
>heard a single packet on 10.151 today.
>
I've gotten 79 HF stations heard in the 14 hours since I turned on the
station down here in the Keys, seems pretty normal to me...

Steve K4HG
```

---

379. Re: [APRSSIG:7225] Re: Gateway TNC after AEA Demise?

From: "Sam Nabkey, K8SN" <snabkey@k8sn.org>
Date: Sat, 14 Dec 1996 02:58:36 +0000
To: aprssig@tapr.org
Message-ID: <199612140758.CAA00239@k8sn>
Rendered body type: text/plain

```
On 13 Dec 96 at 16:57, somebody wrote some senseless drivel:

> You must have been lucky, my army of TNC's include two KAM's and I
> will never purchase another Kantronics product again! I have found
> their tech support to be very poor, mostly that they will not even
> want to listen to what needs to be fixed but also just plain old
> support.

Poor Tech Support is better than:

1.Disconnected tech support.(Brand A)
2. "I dunno! RTFM" Tech Support (Brand M)
3. Rude Tech Support (Brand P)

My "army" of TNC's are ALL Kantronics (Brand K)  and I would not own anything
else.  Never had a bad experience yet. . . Too bad you got burned.
```

```
73

Sam
```

---

380. Re: [APRSSIG:7176] Help wiring up my Kantronics 9612. Kenwood TM733a for one radio operation

```
From: John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 14 Dec 1996 07:17:31 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612140753.A8930-0100000@bcfreenet>
Rendered body type: text/plain
```

```
I use my 9612 with a single radio, an Icom 275, and it works just fine.
The 9600 port is wired via 1/8" phone jack that I put into the right rear
corner, and the 1200 is wired in conventionally for AFSK.  I use a second
1/8" phone jack for the PTT.

The varactor portion sometimes interferes, with some stations only, with
the conventional AFSK side.  If so then I just reach around and unplug
the 9600 link from the 1/8" plug.

The rig works well.  To use 9600 I give the standard ~a before keying,
and to use 1200 I give the |a.

73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Fri, 13 Dec 1996, Don Murray AE4BR wrote:

> Hello and thanks for reading this..
>
> I am in need of help setting up my Kantronics 9612, and TM733a for one radio
> operation.  I am not even sure if this is possible.  What I would like to do is
> wire the radio and TNC so that I can get both 1200 and 9600 baud operation on
> the single 733.
>
> I would also appreaciate if if someone could confirm my wiring by posting the
> output pin assignment for the TM733 in regards to the 9600 baud port of the
> 9612 and the 1200 port of the 9612.
>
> Anyone else handling both ports thru one radio?? Is it even possible.  The 9612
> has a "oneradio" setting.  But the manual doesn't go into detail about it.
>
> Any and all help will be greatly appreciated
>
>
```

---

381. Re: [APRSSIG:7248] Re: APRS onHF

```
From: schiers@ames.net
Date: Sat, 14 Dec 96 08:01:11 -0600
To: aprssig@tapr.org
Message-ID: <199612141400.IAA01233@brain.ames.net>
Rendered body type: text/plain
```

```
In <199612140701.CAA06265@newworld.bridge.net>, on 12/14/96 at 01:08 AM,
   Steve Dimse <sdimse@bridge.net> said:

>>Activity on HF seems down recently.  SOmething wrong with my antenna? In
>>hooking up this MFJ to the antenna, it seemed like a full minute before I
>>heard a single packet on 10.151 today.
>>
>I've gotten 79 HF stations heard in the 14 hours since I turned on the
>station down here in the Keys, seems pretty normal to me...

>Steve K4HG

I have about 100 hf stations on the map and had at least that many last
night before I had to reboot.

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

382. [APRSSIG:7166] Re: NMEA and GPS units - Data Added -Reply

From: Paul Plasters <PEPLASTERS@mail.rkd.snds.com>
Date: Sat, 14 Dec 1996 08:16:31 -0600
To: birksd@cadvision.com, aprssig@tapr.org
Message-ID: <s2b262b3.033@mail.rkd.snds.com>
Rendered body type: text/plain

```
>>> David R. Birks <birksd%cadvision.com@internet.rkd.snds.com>
12/12/96 05:27pm >>>
>Bob Bruninga wrote:
>>
>> OK.  We need to fill in this table.  These are the NMEA sentences
used by
>> APRSdos.  (Keith, does Mac/Win use any others?)
>>
>> If you have a different GPS, please send in your data.
>> Preferably by pasting your data on the end and replying the
message...
>>
>>                 Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
>> GPS UNIT        GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB
HDM
>> -------------   --- ------- ------- ----------- ----- ----- ----- ---
>> Magln 5000       X     X       X         .        ?           ?    .
>> Garmin45 v1.5    X     .       X         X        .     .     .    .
>>          v2.0    X     X       .         X        X     X     .    .
>> Garmin GPS-20    .     X       X         X        X     .     .    .
>> Garmin GPS-55    x     .       .         X        .     X     .    .   **
>> Garmin GPS95XL   X     .       .         X        .     X     .    .   **
>>  Icom GP-22      X     X       X         .        .     .     .    .
>  w/OPK-4
>--
MAGNAVOX             X       X                 X

==========================================================Does any one have a copy of NMEA spec they
could share?  Thanks
Paul  WA9FFL
=================

** The Garmin 55 and 95XL also output the following sentences:
        GPBWC, GPRMB, GPROO, GPXTE and GPWPL

73 de Dave VE6MJR
```

---

383. Re: [APRSSIG:7228] Re: AEA TNC Port Channel

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sat, 14 Dec 1996 09:32:47 -0500
To: <aprssig@tapr.org>
Message-ID: <199612141439.JAA07617@grumpy.magg.net>
Rendered body type: text/plain

Try UBIT 18 OFF

```
----------
> From: Tony Drumm <TonyDrumm@ibm.net>
>
> BTW - is there some way to eliminate the "p1:" that precedes every packet
> received on the 2232?  We have one at a club station and when I've played
> around with it and APRS, all the calls get logged with that prefix.  I
> couldn't find anything in the manual that told how to get rid of it.
>
> Thanks.
> Tony Drumm
> ARS AA0SM - Rochester, MN
```

---

384. Re: [APRSSIG:7251] Re: APRS onHF

From: schiers@ames.net
Date: Sat, 14 Dec 96 08:40:30 -0600
To: aprssig@tapr.org
Message-ID: <199612141440.IAA01483@brain.ames.net>
Rendered body type: text/plain

```
In <199612141400.IAA01233@brain.ames.net>, on 12/14/96 at 08:06 AM,
   schiers@ames.net said:

>In <199612140701.CAA06265@newworld.bridge.net>, on 12/14/96 at 01:08 AM,
>   Steve Dimse <sdimse@bridge.net> said:

>>>Activity on HF seems down recently.  SOmething wrong with my antenna? In
```

```
>>>hooking up this MFJ to the antenna, it seemed like a full minute before I
>>>heard a single packet on 10.151 today.
>>>
>>I've gotten 79 HF stations heard in the 14 hours since I turned on the
>>station down here in the Keys, seems pretty normal to me...

>>Steve K4HG

>I have about 100 hf stations on the map and had at least that many last
>night before I had to reboot.

By the way, I will be off HF for my usual Saturday morning SSTV activity.
Should be back on about 11:30 a.m.

so anyone trying to test hf, don't be confused if I don't respond! 73,

>hasan schiers, N0AN
```

---

385. KAM+ and Other GATE TNC's

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sat, 14 Dec 1996 09:40:00 -0500
To: <aprssig@tapr.org>
Message-ID: <199612141446.JAA07890@grumpy.magg.net>
Rendered body type: text/plain

```
I thought I was happy with the KAM as a Preformer while it was the only HF
TNC I owned. I then bought a PK-900 and ran that for a while it it was able
to decode many more packets it seemed. I then ran 2 TS-850S/AT's into the
same antenna TX off of course! and both the PK-900 and KAM and KAM+ side by
side of different PC's.
Nothing scientific but I got more decoded packets with the PK-900 than
either the KAM or the upgraded one to KAM+. Bottom line for me is whatever
works better and the PK-900 does work better. It does stink that the
company left us but oh well, it happens!


----------
> From: Sam Nabkey, K8SN <snabkey@k8sn.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7249] Re: Gateway TNC after AEA Demise?
> Date: Saturday, December 14, 1996 3:03 AM
>
> On 13 Dec 96 at 16:57, somebody wrote some senseless drivel:
>
> > You must have been lucky, my army of TNC's include two KAM's and I
> > will never purchase another Kantronics product again! I have found
> > their tech support to be very poor, mostly that they will not even
> > want to listen to what needs to be fixed but also just plain old
> > support.
>
> Poor Tech Support is better than:
>
> 1.Disconnected tech support.(Brand A)
> 2. "I dunno! RTFM" Tech Support (Brand M)
> 3. Rude Tech Support (Brand P)
>
> My "army" of TNC's are ALL Kantronics (Brand K)  and I would not own
anything
> else.  Never had a bad experience yet. . . Too bad you got burned.
>
> 73
>
> Sam
```

---

386. Re: [APRSSIG:7244] Re: Gateway TNC after AEA Demise?

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Sat, 14 Dec 1996 09:23:53 -0600
To: aprssig@tapr.org
Message-ID: <199612141519.PAA63841@smtp-gw01.ca.us.ibm.net>
Rendered body type: text/plain

```
>On Fri, 13 Dec 1996, Tony Drumm wrote:
>
>> BTW - is there some way to eliminate the "p1:" that precedes every packet
>> received on the 2232?  We have one at a club station and when I've played
>> around with it and APRS, all the calls get logged with that prefix.
>
>APRSdos REPLY/COMMENT: Over a year ago, I started filtering that out.  Are
>you sure you were using something newer than version 6 of APRS?
```

>
No, I'm probably using an older version there! I'll try something newer.
Thanks.

Tony
Tony Drumm
ARS AA0SM - Rochester, MN

387. Re: APRS onHF and Lists

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sat, 14 Dec 1996 10:23:50 -0500
To: <aprssig@tapr.org>
Message-ID: <199612141530.KAA09651@grumpy.magg.net>
Rendered body type: text/plain

This brings up a good point, when will be have more pages for P and L
lists. For some of us where VHF is popular and we have HF coverage the
pages fill up in no time! We have lot's of activity on VHF here and I
shudder to think what the NE is like now.

> From: schiers@ames.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:7251] Re: APRS onHF
> Date: Saturday, December 14, 1996 9:05 AM
>
> In <199612140701.CAA06265@newworld.bridge.net>, on 12/14/96 at 01:08 AM,
>   Steve Dimse <sdimse@bridge.net> said:
>
> >>Activity on HF seems down recently. SOmething wrong with my antenna?
In
> >>hooking up this MFJ to the antenna, it seemed like a full minute before
I
> >>heard a single packet on 10.151 today.
> >>
> >I've gotten 79 HF stations heard in the 14 hours since I turned on the
> >station down here in the Keys, seems pretty normal to me...
>
> >Steve K4HG
>
> I have about 100 hf stations on the map and had at least that many last
> night before I had to reboot.
>
> hasan schiers, N0AN
> ---
> schiers@ames.net
> ---

388. Any NE New Jersey APRS on VHF?

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sat, 14 Dec 1996 10:28:06 -0500
To: <aprssig@tapr.org>
Message-ID: <199612141535.KAA00102@grumpy.magg.net>
Rendered body type: text/plain

I am planing a trip back to New Jersey in a couple of weeks, is there any
activity up there yet. I have not been up there in 18 months and at that
time I got occasional coverage running 50 watts.

I will be in Morris, Bergen, and Passaic County for about 1 week but this
time I will only be able to bring a HT and mag mount. Is it worth while for
me to even bother ? I am trying to travel light due to the holiday mess at
the airports!

Rich Garcia N2CZF
Jupiter Farms Florida
n2czf@magg.net
http://www.magg.net/~n2czf/aprs.html
http://www.magg.net/~n2czf/index.html

389. Re: [APRSSIG:7258] Any NE New Jersey APRS on VHF?

From: James Kerns <jkerns@usit.net>
Date: Sat, 14 Dec 1996 10:59:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612141559.KAA19307@smtest.usit.net>
Rendered body type: text/plain

snip.....
>I will be in Morris, Bergen, and Passaic County for about 1 week but this
>time I will only be able to bring a HT and mag mount. Is it worth while for
>me to even bother ? I am trying to travel light due to the holiday mess at
>the airports!
>
>
>Rich Garcia N2CZF
>Jupiter Farms Florida
>n2czf@magg.net
>http://www.magg.net/~n2czf/aprs.html
>http://www.magg.net/~n2czf/index.html
>
>Hey, Rich, long time no talk. Happy holidays to all.
My TNC is shot so not on APRS till I get 232 fixed or get another one.

What makes you think anyone wants you back in NJ since you pulled out and
deserted them?? (gg)

>
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

390. Re: NMEA and GPS units - Data Added -Reply

From: davidc@tbcnet.com (David Chesser)
Date: Sat, 14 Dec 1996 10:28:33 +0000
To: aprssig@tapr.org
Message-ID: <199612141628.KAA07551@tbc1.tbcnet.com>
Rendered body type: text/plain

>>> David R. Birks <birksd%cadvision.com@internet.rkd.snds.com>
12/12/96 05:27pm >>>
>Bob Bruninga wrote:
>>
>> OK. We need to fill in this table. These are the NMEA sentences
used by
>> APRSdos. (Keith, does Mac/Win use any others?)
>>
>> If you have a different GPS, please send in your data.
>> Preferably by pasting your data on the end and replying the
message...
>>

```
>>                   Pos Pos/Alt Cse/Spd Pos/Cse/Spd Az/El  Alt   Alt  Hdg
>> GPS UNIT         GLL   GGA     VTG       RMC      GSV  PGRMZ PMGLB
HDM
>> -------------    --- ------- ------- ----------- ----- ----- ----- ---
>> Magln 5000        X     X       X         .        ?           ?    .
>> Garmin45 v1.5     X     .       X         X        .     .     .    .
>>          v2.0     X     X       .         X        X     X     .    .
>> Garmin GPS-20     .     X       X         X        X     .     .    .
>> Garmin GPS-55     x     .       .         X        .     X     .    .   **
>> Garmin GPS95XL    X     .       .         X        .     X     .    .   **
>> Garmin GPSMAP-195 x     x       .         x        x     x     .    .   ***
>> Garmin GPSMAP-175 x     x       .         x        x     x     .    .   ***
>>  Icom GP-22       X     X       X         .        .     .     .    .
>  w/OPK-4
>--
MAGNAVOX             X     x                 X
```

==Does any one have
a copy of NMEA spec they could share? Thanks
Paul WA9FFL
=================

** The Garmin 55 and 95XL also output the following sentences:
        GPBWC, GPRMB, GPROO, GPXTE and GPWPL
____
*** The Garmin GPSMAP-195 (Avaition) & GPSMAP-175 (Marine) also output the
following sentences:
        GPRMB, GPWPL, PGRMM, PGBOD, GPGSA, PGRME,
David (KA9NHL)
____

391. RE: [APRSSIG:7249] Re: Gateway TNC after AEA Demise?

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Sat, 14 Dec 1996 11:42:35 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBE9B3.E7EB5CC0@gwyn.paccomm.com>
Rendered body type: text/plain

On Friday, December 13, 1996 9:03 PM, Sam Nabkey, K8SN[SMTP:snabkey@k8sn.org] wrote:
>Poor Tech Support is better than:
>
>1.Disconnected tech support.(Brand A)
>2. "I dunno! RTFM" Tech Support (Brand M)
>3. Rude Tech Support (Brand P)

Comment on #3: We have gotten rid of the rude dude. You won't get treated badly again.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(B80`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<`````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`-0```%)%.B!;05!24U-)1SHW,C0Y72!293H@1V%T97=A
M>2!43D,@869T97(@045!($1E;6ES93\`J0\!!8 #``X```#,!PP`#@`+`"H`
M(P`&`$L!`2" `P`.````S <,``X`"P`G`#L`!@!@`0$)@ $`(0```#5&,31&
M0S4S.40U-40P,3$X,$0U,# T,# U,CE"0T0W``,'`0.0!@#\`P``% ````L`
M(P```````P`F```````+`"D```````,`+@```````P`V``````! `#D`@+<W
MS]WINP$>`' ``0```#4```!213H@6T%04E-324<Z-S(T.5T@4F4Z($=A=&5W
M87D@5$Y#(&%F=&5R($%%02!$96UI<V4_``````(!<0`!````%@````&[Z=W/
M-U/\%&!5G1'0@-4`0 4IO-<``!X`'@P!````!0```%--5% `````'@`?# $`
M```1````9W=Y;D!P86-C;VUM+F-O;0`````#``80:8U.: ,`!Q!)`0``'@`(
M$ $```!E````3TY&4DE$05DL1$5#14U"15(Q,RPQ.3DV.3HP,U!-+%-!34Y!
M0DM%62Q+.%-.4TU44#I33D%"2T590$LX4TY/4D=74D]413I03T]25$5#2%-5
M4%!/4E1)4T)%5%1%4E1(04XZ,0````"`0D0`0```%("```!.`@``>00``$Q:
M1G6P/-M _P`*`0\"%0*D`^0%ZP*#`% 3`U0"`&-H"L!S971N,@8`!L,"@S($
M1@(`<+!R<3$@"%4"@S,#Q><3@Q(@#_]F-!3,!Q,"@^XU%,H3T!6M?0J ",\)
MV2([&P\Q,C@<+V4R/#4U`H *@0VQ"V!N9Q@Q,#,4L L#;&DS7C8-\ M5%L(,
M`6,2X" *3P.@1@409&%Y+#0@1 6090;0!) @,0(S(C Q.3DV(#EB.A^0(%!-
M(C &$&T3![ !H&ME(B%+.%,`3EM33510.G.B;B130&LX)6 N!; 09UT@=P-@
M=&4Z_0J%/@M&%+(A,P!0$Z FH5)C!4!0;P6Q5 60:%$&`'5P<!JQ( 0`(-<B
MH ) (K%T$<!N)M8@?W\2("=?*&DK+RP_+4\HX3',+D0$``6@;FXHT0F "RK
M*7)S*<0N*$)R\P!P,K!!*2Z/+Y\PKRCA`#(N("))(&1U"3)0;R$'\%1&32)[
M*5PSI4TT+S4_-D\HTC.Y-Z!2=0VP.+\STE Z&&\+&2#Y/V4(4&T'@ (P(($"
M(" C,SH@5SW@]1' =CW@9R:@)K #H"'A[4(P9BK!/>!R/<(W\ VP73>@60A@
M)G "("<%0&<7$@`JP!L083*28F%DH&QY(&%G"W$N/V4#.BT84C$W($=W>14#
MH%()X&0B(5<Q0O1%3#]E4 #00<)*8B1PI05 4D9P:6\2,7,FL%1M<T<L9TD!
M0#^08UL%H$'@+DV1/V5H`D!PT#HO+W=.\"Y-;SJ/7T$H'\]0OPK!&C$`5(
M``,`$! ``````P`1$ ````! ``<P(!XE<MWINP%``@P(!XE<MWINP$>`#T`
M:`0````4```!213H@``````,`#33]-P``K@KI
`
end
```

---

392. BayComm / APRS ????

From: kr4ol@juno.com
Date: Sat, 14 Dec 1996 12:15:26 PST
To: aprssig@tapr.org
Message-ID: <19961214.121544.5375.0.KR4OL@juno.com>
Rendered body type: text/plain

Greetings! I have a friend that wishes to get on APRS using a
BAYCOMM TNC. For those of you that have experience in setting this up,
please tell me how to set this up. Your assistance will be MOST
appreciated!

73! de Tom KR4OL @juno.com

---

393. Re: [APRSSIG:7258] Any NE New Jersey APRS on VHF?

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Sat, 14 Dec 1996 14:00:37 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <199612141900.OAA00355@itchy.mosquito.com>
Rendered body type: text/plain

```
At 09:43 12/14/96 -0600, you wrote:

>I am planing a trip back to New Jersey in a couple of weeks, is there any
>activity up there yet. I have not been up there in 18 months and at that
>time I got occasional coverage running 50 watts.

North Jersey still a bit sparse... South Jersey growing... lots of comers
and goers!


 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

---

394. Re: [APRSSIG:7261] Re: Gateway TNC after AEA Demise?

From: Paul Stump <n0lrf@amsat.org>
Date: Sat, 14 Dec 1996 13:08:45 -0800
To: aprssig@tapr.org
Message-ID: <32B3175D.4339@amsat.org>
Rendered body type: text/plain

```
Gwyn Reedy wrote:

> >3. Rude Tech Support (Brand P)
>
> Comment on #3: We have gotten rid of the rude dude. You won't get treated badly again.

I'll tell you what, the next TNC I buy will probably come from FL. I may
like
the "K" brand, but we couldn't ask for better support than this! KUDOS,
Gwyn.

73, Paul, n0lrf@amsat.org
```

---

395. HF APRS and DSP-2232

From: Chris Dapples <ccdapple@wtp.net>
Date: Sat, 14 Dec 1996 12:35:42 -0700
To: aprssig@tapr.org
Message-ID: <32B3018E.7143@wtp.net>
Rendered body type: text/plain

```
Hi All,

        For the past several days I have been trying to setup
and receive HF APRS on my AEA DSP-2232 and Kenwood TS-940.  I
hear signals on 10.151 USB and tune around carefully but cannot
copy any of them.  I have the DSP-2232 set for modem 33 (also
tried modems 10 and 11) and take the audio from the ex/sp. jack
on the TS-940 to radio port 1 on the DSP-2232.  I have tried with
WinAPRS, APRSdos, and just a terminal program, but cannot get
any copy.  The DCD led lights with the signals I hear but no
copy.
        Anyone using the DSP-2232 on HF have any suggestions??
I believe I have all the params setup correct, but maybe not.

        Chris Dapples, KF7KN
        ccdapple@wtp.net
```

---

396. Re: [APRSSIG:7265] HF APRS and DSP-2232

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Sat, 14 Dec 1996 12:40:52 -0800
To: aprssig@tapr.org
Message-ID: <32B310D4.4BDD@ix.netcom.com>
Rendered body type: text/plain

```
Chris Dapples wrote:
>
> Hi All,
>
>         For the past several days I have been trying to setup
> and receive HF APRS on my AEA DSP-2232 and Kenwood TS-940.  I
> hear signals on 10.151 USB and tune around carefully but cannot
> copy any of them.  I have the DSP-2232 set for modem 33 (also
> tried modems 10 and 11) and take the audio from the ex/sp. jack
> on the TS-940 to radio port 1 on the DSP-2232.  I have tried with
> WinAPRS, APRSdos, and just a terminal program, but cannot get
> any copy.  The DCD led lights with the signals I hear but no
> copy.
>         Anyone using the DSP-2232 on HF have any suggestions??
> I believe I have all the params setup correct, but maybe not.
>
>         Chris Dapples, KF7KN
>         ccdapple@wtp.net


KB6LFM WRITES:

Hi Chris. Suggest you use LSB, or better yet... FSK. Tune to
10.149.30KHz which is the real APRS 30m Freq. Also suggest you set your
TNC's "MARK" to 2125 "SPACE" to 2295 and the "SHIFT" to 170 and you are
in business.

73 de Bill  KB6LFM

West Coast APRS Gateway Station in SFO

NNNN
```

397. Re: [APRSSIG:7265] HF APRS and DSP-2232

From: K5QQ@aol.com
Date: Sat, 14 Dec 1996 17:13:51 -0500
To: aprssig@tapr.org
Message-ID: <961214171351_1753601815@emout02.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-12-14 15:04:09 EST, you write:

<< I
 hear signals on 10.151 USB  >>
needs to be LSB ( to put it inside the amateur band...)

Good Luck

Jim
```

398. Re: Gateway TNC after AEA Demise?

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sat, 14 Dec 1996 15:20:33 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961214152033.2217bb3a@mailhost.primenet.com>
Rendered body type: text/plain

```
At 06:09 PM 12/13/96 -0600, kb6lfm wrote:
>
>Kantronics has Excellent Tech Support!

Excuse me!?  Did you really type that?  Kantronics with excellent tech
support? C'mon, I called them with some basic questions about the GPS
upgrade for the KPC-3 and I knew more about GPS than the person answering
the phone and they would not let me speak to any one responsible for the
firmware or design of their hardware!

Ditto for the 9612 paging upgrade.

That's lousy tech support!


Mark Fellhauer
KC7BXS
```

399. GPS Article

From: Dayglo <dayglo@radix.net>
Date: Sat, 14 Dec 1996 17:20:50 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961214222050.0071bbb8@pop.radix.net>
Rendered body type: text/plain

```
I just wanted to let everyone know that there is a very good article on GPS
in the December issue of Circuit Cellar Ink (#77).  It describes the
equations necessary for position calculations and timing.  The article is
very technical yet quite readable.
```

400. Re: [APRSSIG:7202] HF APRS cheap

From: AC6JA@aol.com
Date: Sat, 14 Dec 1996 19:20:51 -0500

To: aprssig@tapr.org
Message-ID: <961214192050_1753620369@emout16.mail.aol.com>
Rendered body type: text/plain

```
been following the messages regarding mfj rig for aprs qrp!  i had written
mfj an e-mail a while back regarding using one of their rigs for aprs on 30m.
 i originally had thought of modifying their 9420 20m ssb/cw rig for 30m, but
it looks like the cw-only qrp for 30m will work.  am curious what mods are
needed to use the cw rig for fsk.  i think that's how you plan on
implementing it.  was also thinking along the same lines and using a crystal
oscillator or even a digi-vfo.  any info you have would be greatly
appreciated.  i have already successfully used my index labs qrp plus on hf
aprs qrp, along with rtty, pactor, amtor, etc.  it's suprising what 5 watts
can do.
thanks for the info.

Mike  AC6JA
```

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401. Re: [APRSSIG:7268] Re: Gateway TNC after AEA Demise?

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Sat, 14 Dec 1996 18:00:06 -0800
To: aprssig@tapr.org
Message-ID: <32B35BA6.5160@ix.netcom.com>
Rendered body type: text/plain

```
Mark Fellhauer wrote:
>
> At 06:09 PM 12/13/96 -0600, kb6lfm wrote:
> >
> >Kantronics has Excellent Tech Support!
>
> Excuse me!?  Did you really type that?  Kantronics with excellent tech
> support? C'mon, I called them with some basic questions about the GPS
> upgrade for the KPC-3 and I knew more about GPS than the person answering
> the phone and they would not let me speak to any one responsible for the
> firmware or design of their hardware!
>
> Ditto for the 9612 paging upgrade.
>
> That's lousy tech support!
>
> Mark Fellhauer
> KC7BXS

KB6LFM WRITES:

Yup..! I wrote that.., It was me..!

SRI to hear that you had to call Kantronics with some basic questions
about up-grading your KPC-3 to the GPS Ver 6.0. When I up-graded my
KPC-3, all I had to do was replace 1 plug-in IC chip, and do a hard
reset. The documentation that came with the up-grade was very easy to
understand (even for a longshoreman... Hi.!) The point is; in my
opinion, and for my money, Kantronics is hard to beat. They are user
friendly, competitively  priced, still in business.....! The only time
that I have needed their "Tech Support" was when I wanted to hook-up my
KAM+ to a scope. I spoke with Don Rixon, who not only told me how to do
it over the phone, he also FAXED me a copy of the components location
with the modification penciled in. How can I bi*#h about that..!

Here is one for the SIG

     "Ever wonder why the JA's are not in the TNC business..?"

73. Bill  KB6LFM

West Coast Gateway Station in SFO
```

---

402. AEA demise.. TNC's

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 14 Dec 1996 19:46:45 -0800
To: aprssig@tapr.org
Message-ID: <199612150346.TAA01526@poseidon.coastside.net>
Rendered body type: text/plain

```
Hi SIGers,
     Several msgs on demise of AEA, and recommendations
of Kam products.
     Gentelmen do not forget a staunch supporter of APRS
```

```
and advancements in GPS/TNC development. The first company
to offer hams GPS/TNC in one package and first to support
APRS.
   Namely, PacComm Packet Radio Systems, Inc.
           4413 N. Hesperides Street
           Tampa, FL. 66614-7618 USA
           FAX +(813)872-8696  BBS +(813)874-3078
                               (V.34 with HTML)
           e-mail: sales@paccomm.com
           URL:    http://www.paccomm.com
           Toll Free Order Line:  (800) 486-7388

   Gwyn Reedy/W1BEL here on the net has often offerd help,
suggestions , recommendations and met our ham requests for
different types of TNC and support of digital radio. His
320 HF/VHF series and other TNC & Controllers are top of
the line.
   How about it Gwyn, any GATEway TNC in the offing and how
about the Mic-3 system in the works. Time to step in and
take AEA place, keep up the good work.
   (No I have no connection with PacComm, but like their
fine products.)
      73's & Enjoy   Bill/WB6LPG  also bbliss@juno.com

NNNN


WBB/WB6LPG
```

---

403. Re: [APRSSIG:7268] Re: Gateway TNC after AEA Demise?

From: "Sam Nabkey, K8SN" <snabkey@k8sn.org>
Date: Sun, 15 Dec 1996 01:00:05 +0000
To: aprssig@tapr.org
Message-ID: <199612150600.BAA01608@k8sn>
Rendered body type: text/plain

```
Some nice sensitive guy with his head on straight said:

>Kantronics has Excellent Tech Support!

Another guy, equally as nice, but slighty confused , quipped:

> Excuse me!?  Did you really type that?  Kantronics with excellent
> tech support? C'mon, I called them with some basic questions about
> the GPS upgrade for the KPC-3 and I knew more about GPS than the
> person answering the phone

Me, knowing how exellent I was handled and passing on my excellent knowlege
on to the good honest folks here on the SIG responds with . .

When I originally contacted the TNC Manufacturers looking for the best
TNC to use for a Stand Alone Tracker, I got the most favorable
response from Kantronics.

AEA told me the PK-12 would not run on 12VDC. ( HUH?)

Paccomm told me that the one they recommended didn't work because of
faulty firmware, and when asked when they might have it working, the
nice man got quite rude with me and told me something to the effect
that it would be ready when it was ready!

The person at Kantronics didn't have any idea, (this was the
receptionist) and the person I needed to chat with was not currently
in. .  It was lunch and I guess the guy had to eat...  but would call me back
when he finished..  I got that call.. from a guy who knew loads more
than I needed to know!  THEN are you ready for this?  The
RECEPTIONIST contacted a sales guy who calls me back to check to make
sure the Techy called me back!  I was impressed!

Also, when my KAM had the dried Cap syndrome, they mailed me caps at
no charge.

>and they would not let me speak to any one responsible for the
>firmware or design of their hardware!

Now wonder why the Receptionist would not allow you to chat wid the
party . . .  Maybe away someplace in the Plant like mine was?

> Ditto for the 9612 paging upgrade.
```

I thought the Upgrade came with a nice upgrade book with it. Did you
need Tech support?

>
> That's lousy tech support!
>

No, I don't think so.

>
> Mark Fellhauer
> KC7BXS
>

---

404. Re: [APRSSIG:6909] windows

From: Roger Selers <rsellers@rockford.com>
Date: Sun, 15 Dec 1996 01:37:21 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961207185058.0068bc30@rockford.com>
Rendered body type: text/plain

At 12:35 PM 12/3/96 -0500, you wrote:
>
>Can I "gut" a windows program so as to make winaprs run faster? I
>want to run it in a mobile setup on a "286" laptop. What files does
>WINAPRS need? Thanks, Paul WA9FFL   wa9ffl@aol.com or
>aamfapp@snds.com
>
I think Paul is actually wanting to "GUT" Windows 3.11 itself rather than a specific application. I have found some info from the Windows Resources Kit and will be forwarding that info to Paul.

73,

Roger Sellers   KB9LBU
email: Home rsellers@rockford.com
            KB9LBU@juno.com
       Work rsellers@snds.com

---

405. APRS on HF

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Sun, 15 Dec 1996 00:47:42 -0800
To: cbuttsch@slonet.org
Cc: aprssig@tapr.org
Message-ID: <32B3BB2E.6CC9@ix.netcom.com>
Rendered body type: text/plain

Hello Cliff.

Yes, 10.149.30KHz is the MARK frequency for APRS. I agree that some HF & gateway stations can be found a "little" off frequency from time to time. My guess is that this is caused by the sysop's not wanting to dedicate their primary station ($1,500 to $5,000) radio's to APRS. Most will be using a HF rig that was their "first" rig, or a "standy-by rig" that was once a "swap meet" bargain. These "seasoned" rig's are expected to drift. Alas, the need for "TUNE1 and TUNE2" aliases to "Ping" to.

The APRS Gateway Station here consists of a Kenwood TS-450s/AT zero'ed to N0AN, and is running in the FSK mode with the high stablity oscillator (TCXO SO-2) and Service Bulletin's ASB-1002 & ASB-1004 have been carried-out. For VHF I'm using a very seasoned Icom IC-228H. The Icom is running open squelch, and both rigs are connected to a KAM+. The KAM's configuration is; MARK 2125 SPACE 2295 SHIFT 170 and the "CD" command is set to "SOFTWARE". Antennas are a 1/4 wave verticle @ 35' for VHF and a 5 band quad @ 50' for HF. The quad's orientation is usually around 75 degrees magnetic. I hope you decide to join us here on APRS Cliff. SRI, I have no idea where a master EEPROM for the 232 can be obtained now. Perhaps someone here on the SIG can help.

73 de Bill KB6LFM

West Coast APRS Gateway Station in SFO

---

406. Re: Gateway TNC after AEA Demise?

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sun, 15 Dec 1996 03:27:11 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org

Message-ID: <1.5.4.16.19961215032718.0af7942e@mailhost.primenet.com>
Rendered body type: text/plain

```
At 12:01 AM 12/15/96 -0600, Sam Nabkey, K8SN wrote:

>The person at Kantronics didn't have any idea, (this was the
>receptionist) and the person I needed to chat with was not currently
>in. .  It was lunch and I guess the guy had to eat...  but would call me back
>when he finished..  I got that call.. from a guy who knew loads more
>than I needed to know!  THEN are you ready for this?  The
>RECEPTIONIST contacted a sales guy who calls me back to check to make
>sure the Techy called me back!  I was impressed!

This was not my (nor has ever been) my experience with Kantronics.  I've
called them a handful of times and only ever gotten to speak with a
receptionist who didn't know product at all.  I was told that the tech
people didn't take phone calls from customers.
>
>Now wonder why the Receptionist would not allow you to chat wid the
>party . . .  Maybe away someplace in the Plant like mine was?

No. I've been told a few times that the Tech people don't directly answer
customer's phone calls.  I've NEVER received a follow-up from them.  At
least PacComm has a person who's active in this SIG, and she knows product
and is quite helpful.


>
>> Ditto for the 9612 paging upgrade.
>
>I thought the Upgrade came with a nice upgrade book with it.  Did you
>need Tech support?

What difference does it make what my question is?  I'm not gonna plunk down
$200 plus to buy a TNC that may or may not support my $600 plus data radio
(or didn't you READ that in your little upgrade book?).  Kantronics nor HRO
is gonna refund my $$ if it doesn't work.


>> That's lousy tech support!
>>
>
>No, I don't think so.


I beg to differ.  Having worked in sales support I know what good service
is.  Kantronics gets a C- in my opinion.  Not that I don't recommend their
products, I do.  Because they work well and are easy to set up.

BTW, I bought a KPC-9612 PLUS today, at HRO.  This product is not even
mentioned on their web page, despite the fact that it is replacing the
DISCONTINUED 9612.  Even the guys at HRO were confused about it.  And they
talk to the OWNER of Kantronics on a regular basis.
```

407. Re: Gateway TNC after AEA Demise?

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sun, 15 Dec 1996 03:27:24 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961215032731.0af7800c@mailhost.primenet.com>
Rendered body type: text/plain

```
At 08:05 PM 12/14/96 -0600, kb6lfm wrote:

>
>KB6LFM WRITES:
>
>Yup..! I wrote that.., It was me..!
>
>SRI to hear that you had to call Kantronics with some basic questions
>about up-grading your KPC-3 to the GPS Ver 6.0. When I up-graded my
>KPC-3, all I had to do was replace 1 plug-in IC chip, and do a hard
>reset. The documentation that came with the up-grade was very easy to
>understand (even for a longshoreman... Hi.!) The point is; in my
>opinion, and for my money, Kantronics is hard to beat. They are user
>friendly, competitively  priced, still in business.....! The only time
>that I have needed their "Tech Support" was when I wanted to hook-up my
>KAM+ to a scope. I spoke with Don Rixon, who not only told me how to do
>it over the phone, he also FAXED me a copy of the components location
>with the modification penciled in. How can I bi*#h about that..!
```

Actually, it doesn't matter what my question is or whether it's covered in the upgrade manual, I should be able to speak with or get in contact with a person who knows the product and who can answer technical questions. I've been told by the Kantronic's receptionist (who doesn't know a TNC from a lamp post) that their tech people do not answer customers' questions over the phone. Why even have people who don't use the product they sell answering the phone? This is something I find quite often when I call "tech-support" at many companies.

I recently tried to upgrade my pager to alphnumeric paging via the internet. When I called my paging company, they (at alphnumeric tech support) told me there was no such upgrade available, I referred them to their Company Web page. Their response, "We have a Web Page?" Indeed. It took two more phone calls and a lot of yelling to get the service switched on. And when I switched back to numeric paging only (very few people availed themselves of the alpha service) they forgot to set a software switch and my pager stopped working. Their initial response was that my pager was broken and needed to go back to the regional office for servicing.
ARRGH! Again several more phone calls later I got my service back, and the tech sheepishly admitted that it was a problem on their end. And then they double billed me for a year's service...

What has this to do with Kantronics? Well that's what I feel like when I call them. I feel like the people who answer the phone have never used a TNC, nor are the licensed HAMS, nor do they care about their companies product. If Kantronics doesn't like my opinion, perhaps they'd like to respond...Oh, I forgot, their people don't even monitor this SIG...

It's amazing that when I've mentioned HRO, or PacComm, or Yaesu (and even Magellan); Pro or Con; on the internet; I've generally gotten (unsolicited yet polite and helpful) responses from official representatives of those respective companies. Never has that happened with Kantronics.

But they do make a good product. And as the Packet Coodinator of the ThunderBird (formerly Honeywell) ARC, I recommend their products to people who are looking for a first TNC. In fact, I just bought a KPC-9612 PLUS, today at HRO, a product not even mentioned on their web page, I might add. Heck, those tech support people must be so busy answering my questions that they don't have time to advertise new products. (g)

>
\>Here is one for the SIG
>
>   "Ever wonder why the JA's are not in the TNC business..?"

Ahh, but they are. They just don't market them much in the U.S. I have a Tempo MPP-1 made by AOR, and it is a fine PRINTING TNC. I also have three AR-1200's, which is the commercial variant. These AR-1200's were pulled from a Burger King out of California. I bought them because CERTAIN people on this SIG (you know who you are) stated that they could be converted to amateur radio mark & space tones easily and that they were using them for APRS. I have yet to receive that info, despite repeated private e-mail attempts and the offer of remuneration. One can only conclude that these people are full of "stuff" and that they have never seen an AR-1200 much less owned one. If anyone out there really does have this info, I would greatly appreciate it. The AR-1200 and the Tempo MPP-1 are significantly different on the inside, despite being identical on the outside.

Anyway, the Japanese do make TNC's. EEB was selling an AOR model that looks much like a product formerly sold by Heathkit and currently sold by PacComm. I didn't see it in their new 1997 catalog, but then I wasn't looking for it either.

73,

Mark
KC7BXS

---

408. Re: [APRSSIG:7272] AEA demise.. TNC's

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 15 Dec 1996 07:40:25 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612150748.A16151-0100000@bcfreenet>
Rendered body type: text/plain

It would be really nice if the Tampa TNC manufacturer who makes an excellent TNC (best 9600 modem I have played with) would take over the digital portion of the AEA line. I would love to purchase a state of the art DSP tnc if it had modem code worth a hoot. I know the PacComm organization can handle it.

I was seriously considering purchasing one of the AEA DSP232 units after they improved the software code. The price was right for what you got and it is technologically in the right direction.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

---

409. Re: Remote Ultimeter

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 15 Dec 1996 10:20:40 -0500 (EST)
To: Gary Wells <gwells@nbn.net>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961215101450.26244B-100000@arctic>
Rendered body type: text/plain

This station is having probs with remote WX concatonating together packets. I think the problem is in his remote TNC. No CR is benig transmitted....

... On Sat, 14 Dec 1996, Gary Wells wrote:

```
> Below is a copy of my beacon list.
> I am seeing these same packets on the air, using a computer thats not

> N3HCP-3   140032 *1005W2HOB>ID,WIDE,WIDE*:W2HOB/R RELAY/D NONE/B
> N3HCP-3   140127 *1005D001BN2UNH>APRS,WIDE,WIDE*,WD4HDL-1:@200917/APRS 7.7e
> N3HCP-3   140127 *1005D001BN2UNH>APRS,WIDE,WIDE*,WD4HDL-1:@200917/APRS 7.7e
> N3HCP-3   140127 *1005D001BN2UNH>APRS,WIDE,WIDE*,WD4HDL-1:@200917/APRS 7.7e
>
> As I was setting up this E-mail, I captured the following off the air:
>
> N3HCP-3*>KE3XY-3>WIDE>APRS:
> *E005D001B0W2HOB-15>ID,WIDE*,WIDE:W2HOB-15/R WIDE/D PEMB/B
```

APRSdos REPLY/COMMENT: On SECOND THOUGHT, the Ultimeter is only sending 10 to 12 CHARS here,... SOmething it truncating the packet at the SENDING TNC maybe. THe packet should always be 14 bytes long....!

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

410. MFJ HF caution

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 15 Dec 1996 10:24:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961215102044.26244C-100000@arctic>
Rendered body type: text/plain

Tried to give a demo of the little rig with a long wire antenna. Again, the IF bleed through of SW broadcaster on 6 MHZ was stronger than anything on 30M so the AGC adjusted proportionally and you hear NOTHING on 30m.

Im sure all real users of this little portable rig, take along a TUNED dipole or an antenna tuner to get the most out of their 4 watts QRP. That alone would give probably most of the needed isolation at 6 MHZ...to prvent this problem..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

411. Re: [APRSSIG:7279] Re: Remote Ultimeter

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 15 Dec 96 10:52:43 -0500
To: <aprssig@tapr.org>
Message-ID: <199612151552.KAA03344@newworld.bridge.net>
Rendered body type: text/plain

```
>> N3HCP-3*>KE3XY-3>WIDE>APRS:
>> *E005D001B0W2HOB-15>ID,WIDE*,WIDE:W2HOB-15/R WIDE/D PEMB/B
>
>APRSdos REPLY/COMMENT:  On SECOND THOUGHT, the Ultimeter is only sending
>10 to 12 CHARS here,... SOmething it truncating the packet at the SENDING
```

```
>TNC maybe.  THe packet should always be 14 bytes long....!
>
Looks like the recieved data on the U-II tnc is getting sent to the U-II,
where it is echoed back to the tnc mixed with the U-II data. Fastest fix,
try setting FLOW ON on the U-II TNC, could also break the rs-232 data
going out of the tnc into the U-II.

Steve K4HG
```

---

412. Serial port problems

From: Chris Dapples <ccdapple@wtp.net>
Date: Sun, 15 Dec 1996 09:17:17 -0700
To: aprssig@tapr.org
Message-ID: <32B4248D.72D2@wtp.net>
Rendered body type: text/plain

```
Hi All,

        I have a Cyclades Cyclom-Y 8-port serial card on my
computer.  Windows recognizes the ports as com3...com11.  The
problem is that neither APRSdos or WinAPRS recognize any of
the ports.  WinAPRS says it cannot connect to the port and
APRSdos just hangs trying to connect to the tnc.
I know the Cyclades card is working as it shows up in the
control panel system hardware listing.  It also works correctly
under Linux.

        Is anyone using a Cyclades card with APRS?? and if so
did they have to do something special to get it to work??
Suggestions would be appreciated.

        73,  Chris / KF7KN
             ccdapple@wtp.net
```

---

413. Re: HF and DSP-2232

From: Chris Dapples <ccdapple@wtp.net>
Date: Sun, 15 Dec 1996 09:17:27 -0700
To: aprssig@tapr.org
Message-ID: <32B42294.25E7@wtp.net>
Rendered body type: text/plain

```
Hi All,
        Thanks for the assistance with the DSP-2232 settings.  I
can now copy the APRS HF stuff (using DSP modem 10 or 33 works).

73 Chris  / KF7KN
ccdapple@wtp.net
```

---

414. re: Kantronics

From: Robert Jordan <n5rkn@apex2000.net>
Date: Sun, 15 Dec 1996 10:25:55 -0600
To: aprssig@tapr.org
Message-ID: <32B42693.6B14@apex2000.net>
Rendered body type: text/plain

```
Jeez Guys!
 Apples & oranges, Fords & Chevys!  Everyone has their own story &
favorites.
  I finally had to jump into this.  I never had a problem with
Kantronics or their tech support.  I've had a Kam for over 5 years and
have a few occassions to call them.  Each time I have received all the
info needed within that one phone call.  And yes, I've been transfered
to tech support during the call.  Once, when calling about the now
defunct weather station of theirs, I was put in touch with a tech who
was extremely helpful..to the point of ridiculous.  He gave me a lot of
tech info well above what I needed or could comprehend.  However, it
answered the query.
  No matter.  Out of the thousands that call them, I'm sure that some
will have bad experiences.  That's just the odds.
  Robert   N5RKN
```

---

415. Re: [APRSSIG:7184] Re: AEA PK-12 problems with APRS

From: rwf <rwf@mindspring.com>
Date: Sun, 15 Dec 1996 13:39:08 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961213175426.0068e3e4@mindspring.com>
Rendered body type: text/plain

OK- I have a simlar situation with WinAPRS 117. I use a KPC-3 at my Office ststion. When the PC is up and the program is running, I am on the map. When I shut down the PC, the Icon stops refreshing on everyone else's screens and I eventully drop off the map.

This TNC never did this with DosAPRS, and I have even set up the TNC manually to beacon, but after I run WinAPRS, the beacons stop. I have no exit commands set in WinAPRS that I know of.

I wonder what is golding off the TX of the TNC when WinAPRS is not running!

Anyone else with a similar problem? Anyone else NOT having this problem (you are updated on the map while the PC is off)?

And with all the work Mark says he has done recently- I sure hope he put in the backup file routines! It is such a pity to lose all the stations I have plotted just because I exit and re-enter the program.

Ralph
rwf@mindspring.com

---

416. HAcking the Tripmate

From: rwf <rwf@mindspring.com>
Date: Sun, 15 Dec 1996 13:39:10 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961213180502.0068e3e4@mindspring.com>
Rendered body type: text/plain

I'm all for a good hack- and I am glad that folks are reverse engineering the Tripmate, but I had this thought:

It seems that after we add external antenna ports, power supplies, microprocessors or special code to init the thing (the kind of init that tells it where it last was)- we could have probably bought a GPS module that's not ugly, is ready for external power, has a (powered) connector for an external antenna, and doesn't lose track of where it last was.

I still haven't heard if there is a speed or altitude limit, though. Something that cheap might be a good disposable unit for a rocket orballoon flight- although we have recovered ALL of our balloons and several of Bill Brown's too.

Ralph
rwf@mindspring.com

---

417. Re: [APRSSIG:7192] DEEYENDA MADDICK VIRUS (fwd)

From: rwf <rwf@mindspring.com>
Date: Sun, 15 Dec 1996 13:39:11 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961213181321.0068e3e4@mindspring.com>
Rendered body type: text/plain

Nice story... but one's computer *still* cannot be infected by any type of virus merely by reading an email. A program or macro must be run, or an infected boot sector must be read from a disk drive. This looks like another twist on the "Good Times" or "PenPals" urban-virus-legend.

But Arte is right, we should know what we are running on our PCs! Run a background virus checker, scan all executable files before you run 'em, scan floppies as soon as you insert 'em, get a macro virus checker for Word, Excel and other programs that have 'em available and use common sense.

73 and Happy (virus-free) holidays!

---

418. Re: [APRSSIG:7190] Great APRS HF for $189!

From: rwf <rwf@mindspring.com>
Date: Sun, 15 Dec 1996 13:39:12 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961213181614.0068e3e4@mindspring.com>
Rendered body type: text/plain

>From the Bob-Meister:

```
>DISADVANTAGES:
>   QRP 4 watts.  I plan to add the Ramsey 20 Watt amp ($49 Kit)
>   VFO freq drift expect to be a problem when human not present
>   XMT FSK mods required (probably just a pot and connectors)
>   IF  feedthrough (I could hear a 6MHz SW station bleeding through theIF)
>       but couldnt test the isolation because my sig gen only goes >10 MHz


Also check out the sleazy, "Good-Buddy" amps that are a dime a dozen.
Seems as they are designed for a 4 watt input!  ;-)

Ralph
```

419. Re: homemade patch antenna

From: Tyler Parsons <tparsons@peak.org>
Date: Sun, 15 Dec 1996 11:20:49 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961215192049.0069a0dc@peak.org>
Rendered body type: text/plain

```
Where can one get the MINI-CIRCUITS MAR-6 preamp for construction of
a GPS patch antenna? In small quantities (1).

Tyler Parsons PLS  WB7DDL     USMA '68
tparsons@peak.org    Corvallis, Oregon
http://www.peak.org/~parsont/
Ray Bradbury: "We are an impossibility in an impossible universe."
```

420. Re: [APRSSIG:7287] Re: DEEYENDA MADDICK VIRUS (fwd)

From: "Jerry" <jerdptro@xnet.com>
Date: Sun, 15 Dec 1996 13:43:40 +0000
To: aprssig@tapr.org
Message-ID: <199612151943.NAA17515@mail.xnet.com>
Rendered body type: text/plain

```
I can't believe you guys haven't figured this one out...think about
it......
Jerry Di Pietro
K9GD
Streamwood, IL
jerdptro@xnet.com
```

421. Re: [APRSSIG:7280] MFJ HF caution

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sun, 15 Dec 1996 14:05:24 -0600
To: aprssig@tapr.org
Message-ID: <32B45A04.5738@web-access.net>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> Tried to give a demo of the little rig with a long wire antenna.  Again,
> the IF bleed through of SW broadcaster on 6 MHZ was stronger than anything
> on 30M so the AGC adjusted proportionally and you hear NOTHING on 30m.
>
> Im sure all real users of this little portable rig, take along a TUNED
> dipole or an antenna tuner to get the most out of their 4 watts QRP.  That
> alone would give probably most of the needed isolation at 6 MHZ...to
> prvent this problem..
>
> Reply mail addr:   wb4apr@amsat.org
> See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html

--------------

In lieu of an antenna tuner - which would be the better approach - why
not try a tuned trap (quick-n-dirty fix) on the front-end, tuned to
6mhz?

Dale Seaburg
dseaburg@web-access.net
```

422. Re: [APRSSIG:7282] Serial port problems

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sun, 15 Dec 1996 14:12:36 -0600
To: aprssig@tapr.org
Message-ID: <32B45BB4.5474@web-access.net>
Rendered body type: text/plain

```
Chris Dapples wrote:
>
```

```
> Hi All,
>
>         I have a Cyclades Cyclom-Y 8-port serial card on my
> computer.  Windows recognizes the ports as com3...com11.  The
> problem is that neither APRSdos or WinAPRS recognize any of
> the ports.  WinAPRS says it cannot connect to the port and
> APRSdos just hangs trying to connect to the tnc.
> I know the Cyclades card is working as it shows up in the
> control panel system hardware listing.  It also works correctly
> under Linux.
>
>         Is anyone using a Cyclades card with APRS?? and if so
> did they have to do something special to get it to work??
> Suggestions would be appreciated.
>
>         73,  Chris / KF7KN
>              ccdapple@wtp.net

-----------------

Chris,

I also bought one of those cards.  After reading the fine print, I
realized that you had to have special drivers (int 14, I think) to
handle the card.  They do not implement with individual com hardware
(16550 or like).

Because of this, very little software will work, unless they conform to
one of several standards mentioned in the Cyclades fine print...  So my
card is setting to the side for now!  My impression is that this card is
intended to support BBS software that have many incoming modem ports.

Wish I had known the gotcha's before plunging down the hardcash!

73 - Dale.  KG5LT
dseaburg@web-access.net
```

---

423. Tripmate & KCP-3

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Sun, 15 Dec 1996 16:42:55 -0500
To: "Sig APRS" <aprssig@tapr.org>
Message-ID: <199612152143.QAA10640@erinet.com>
Rendered body type: text/plain

```
Has anyone yet discovered how to use the DeLorme Tripmate &
Kantronics KCP-3 with either the WinAPRS,  APRSDos Programs or as a
stand alone?

Vry 73 Tru K8JUG
truxenia@erinet.com
```

---

424. Re: [APRSSIG:7273] Re: Gateway TNC after AEA Demise?

From: K5QQ@aol.com
Date: Sun, 15 Dec 1996 17:14:33 -0500
To: aprssig@tapr.org
Message-ID: <961215171431_1853516693@emout02.mail.aol.com>
Rendered body type: text/plain

```
In a message dated 96-12-15 02:31:45 EST, snabkey@k8sn.org (Sam Nabkey, K8SN)
writes:

<< Also, when my KAM had the dried Cap syndrome, they mailed me caps at
 no charge.  >>
What is this?  From time to time when I power up my OLD kam, it won't start.
 I have to cycle the power switch a few time to make it work.  Is this the
'dried Cap syndrome'?

Thanks for any input.


Jim
```

---

425. Re: [APRSSIG:7290] Re: DEEYENDA MADDICK VIRUS (fwd)

From: Pronald <ronald@cyberstreet.com>
Date: Sun, 15 Dec 1996 17:23:23 -0500
To: aprssig@tapr.org
Message-ID: <32B47A5B.33B0@cyberstreet.com>
Rendered body type: text/plain

```
Jerry wrote:
>
> I can't believe you guys haven't figured this one out...think about
> it......
> Jerry Di Pietro
> K9GD
> Streamwood, IL
> jerdptro@xnet.com


Now I get it - ya gotta think dirty.
```

---

426. Re: [APRSSIG:7271] Re: Gateway TNC after AEA Demise?

From: Pronald <ronald@cyberstreet.com>
Date: Sun, 15 Dec 1996 17:29:50 -0500
To: aprssig@tapr.org
Message-ID: <32B47BDE.1B79@cyberstreet.com>
Rendered body type: text/plain

```
kb6lfm wrote:
>
> Mark Fellhauer wrote:
> >
> > At 06:09 PM 12/13/96 -0600, kb6lfm wrote:
> > >
> > >Kantronics has Excellent Tech Support!
> >
> > Excuse me!?  Did you really type that?  Kantronics with excellent tech
> > support? C'mon, I called them with some basic questions about the GPS
> > upgrade for the KPC-3 and I knew more about GPS than the person answering
> > the phone and they would not let me speak to any one responsible for the
> > firmware or design of their hardware!
> >
> > Ditto for the 9612 paging upgrade.
> >
> > That's lousy tech support!
> >
> > Mark Fellhauer
> > KC7BXS
>
> KB6LFM WRITES:
>
> Yup..! I wrote that.., It was me..!
>
> SRI to hear that you had to call Kantronics with some basic questions
> about up-grading your KPC-3 to the GPS Ver 6.0. When I up-graded my
> KPC-3, all I had to do was replace 1 plug-in IC chip, and do a hard
> reset. The documentation that came with the up-grade was very easy to
> understand (even for a longshoreman... Hi.!) The point is; in my
> opinion, and for my money, Kantronics is hard to beat. They are user
> friendly, competitively  priced, still in business.....! The only time
> that I have needed their "Tech Support" was when I wanted to hook-up my
> KAM+ to a scope. I spoke with Don Rixon, who not only told me how to do
> it over the phone, he also FAXED me a copy of the components location
> with the modification penciled in. How can I bi*#h about that..!

My 2 cents:

When I called Rixon 6 months ago about trouble with KPC-3, APRS,GPS
hookup - Don told me that the only guy they had that knew anything
about ARPS & GPS left the company. Lotsa luck.

Ron Oblinger
KD4AMS



>
> Here is one for the SIG
>
>      "Ever wonder why the JA's are not in the TNC business..?"
>
> 73. Bill  KB6LFM
>
> West Coast Gateway Station in SFO
```

---

427. Re: [APRSSIG:7272] AEA demise.. TNC's

From: schiers@ames.net
Date: Sun, 15 Dec 96 16:38:03 -0600

To: aprssig@tapr.org
Message-ID: <199612152238.QAA06878@brain.ames.net>
Rendered body type: text/plain

```
In <199612150346.TAA01526@poseidon.coastside.net>, on 12/14/96 at 09:59
PM,
   "William B. Bliss/WB6LPG" <wbliss@coastside.net> said:

>Gwyn Reedy/W1BEL here on the net has often offerd help,
>suggestions , recommendations and met our ham requests for
>different types of TNC and support of digital radio. His
>320 HF/VHF series and other TNC & Controllers are top of
>the line.
>   How about it Gwyn, any GATEway TNC in the offing and how
>about the Mic-3 system in the works. Time to step in and
>take AEA place, keep up the good work.


I would buy from Gwyn in a second if he had the product. The
only reason I hadn't mentioned PacComm was because they don't list, nor
have I ever heard mentioned any dual port hf/vhf tncs, much less
simultaneous operation.

there is a vacuum in the market now, with only one vendor,
Kantronics. I would much rather do business with Gwyn. They
have been first rate with me, and I love their products.

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

428. RE: [APRSSIG:7290] Re: DEEYENDA MADDICK VIRUS (fwd)

From: Jerry Rector <jerryr49@magg.net>
Date: Sun, 15 Dec 1996 17:44:33 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBEAAF.B82DB440@wpb-133.magg.net>
Rendered body type: text/plain

```
On Sunday, December 15, 1996 8:46 AM, Jerry[SMTP:jerdptro@xnet.com] wrote:
>I can't believe you guys haven't figured this one out...think about
>it......
>Jerry Di Pietro
>K9GD
>Streamwood, IL
>jerdptro@xnet.com
>
>

Some of use HAVE figured it out, but because
of the crudeness, have let it drop.
Jerry
KB4OAM
Port St Lucie FL
jerryr49@magg.net
```

429. Re: [APRSSIG:7293] Tripmate & KCP-3

From: Demos Doulou <ddoulou@gte.net>
Date: Sun, 15 Dec 1996 18:22:22 -0500
To: aprssig@tapr.org
Message-ID: <32B4882E.45E8@gte.net>
Rendered body type: text/plain

```
Truman Boerkoel wrote:
>
> Has anyone yet discovered how to use the DeLorme Tripmate &
> Kantronics KCP-3 with either the WinAPRS,  APRSDos Programs or as a
> stand alone?
>
> Vry 73 Tru K8JUG
> truxenia@erinet.com

To run stand alone,  install r48 in the kpc3 to force the dtr line high
(this turns the tripmate on).

set GPSINT to ASTRAL

use a null modem adapter to connect the tripmate to the kpc3.
```

Works fine.

73

Demos KR4US
kr4us@amsat.org

430. Re: Computer Virus time again

From: w4wwq@juno.com (Peter J Lascell)
Date: Sun, 15 Dec 1996 18:21:55 EST
To: aprssig@tapr.org
Message-ID: <19961215.181943.7919.1.W4WWQ@juno.com>
Rendered body type: text/plain

The recent virus alerts had made it to my other favorite lists, now to APRS. Guess it is time to re inoculate your minds with information about viruses. Forgive me if you have seen this before, but it appears we have new subscribers we need to put at ease about the subject of computer viruses.

Understandably advertisers help pay for it, but TourBus usually has good information twice a week about the Internet.

Peter Lascell
Forest, VA
w4wwq@juno.com

------------------------------------begin forwarded
message------------------------------------

```
                                                  TOURBUS Posting for 5
NOV 96

/~~~~~~~~~|~~~~~~~~~~~~/~~~~~~~~|~~~~~~~~~~|~~~~~~~~~~~~/~~~|~\
   |     "Why | Surf When / You Can | Ride The | Bus?"     /    |  \
   |__________|__________/__________|__________|__________/     |   \
  /                                                      /______|----\
 |   Get FOUR FREE CD-Roms! Find out how by visiting     |//////|    |
 |       http://www.worldvillage.com/freecds.htm         |//////|    |
 |                                                       |//////|    |
 ~~~/~~~\~~/~~~\~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~/~~~\~~~~
    \___/  \___/  T h e   I n t e r n e t   T o u r B u s   \___/

           TODAY'S TOURBUS STOP: Computer Viruses
```

Boo! Did I scare you? Probably not... but today's TOURBUS posting might, because we're going to talk about Computer Viruses. Ooooooh!

Let me start by saying that MOST of what you've heard about computer viruses is probably wrong. Your computer can't get one from a toilet seat, or by getting sneezed on by another computer that has a virus. You DON'T have to be scared of computer viruses, but you DO need to take certain precautions to protect your computer and its data.

This issue of TOURBUS will point you to some excellent resources to help you to learn more about computer viruses (and related nasties), ease your poor troubled mind, and protect yourself from the threat.

Let's start with a few (somewhat geeky) definitions:

A COMPUTER VIRUS is a program that can infect (invade) other computer programs.

A COMPUTER WORM is a self-contained program that is able to spread copies of itself, usually over a network.

A TROJAN HORSE is a program that purports to be fun or useful but actually does something nasty. It cannot spread like a virus or worm.

A MAIL BOMB is an e-mail message that can allegedly cause harm to your computer simply by opening and reading the message.

If you're not a geek, the difference between these five things is pretty subtle. One way or another, you're dealing with a malicious entity that can cause damage to your system. If you like, go ahead and call them all viruses, but beware that you're likely to be "corrected" by someone with one to many pencils in his pocket protector.

Are These Things For Real?

Viruses, worms and trojan horses do exist. Maybe you've heard of "Stoned", "Michelangelo" or others - these are real and can cause serious damage to a single computer or an entire network. Anything from spurious messages appearing on your screen to unexplained slowdowns to mangled files to a complete hard disk wipeout is possible.

But let me digress for just a moment to discuss some viruses that aren't...

- The "Good Times Virus" - is a HOAX that has circulated for several years. It's supposed to be a mail bomb, but such things simply do not exist. YOU CAN NOT GET A VIRUS SIMPLY BY OPENING YOUR E-MAIL. A virus can only affect your system if you install and run a piece of software.

- The "Netscape Mail Bomb" is not a real threat. A now-fixed bug in Navigator V3 could result in your system locking up when a certain bit of HTML code was encountered. Requests for more information about this will be cheerfully ignored. :-)

- PKZIP300 - is not a hoax, but it has become bigger than life. PKZIP300 is supposedly a rogue "Version 3" of the popular PKZIP software that is "circulating widely" on the Internet. Claims that this trojan horse program can cause damage SIMPLY BY DOWNLOADING IT are ridiculous, and to my knowledge it is not publicly available ANYWHERE on the Internet or elsewhere. See the PKWARE site at http://www.pkware.com for more info.

How Can I Avoid Computer Viruses?

First, you can't avoid viruses by shunning shareware, freeware or games. There are cases where even commercial "shrink wrapped" software was accidentally packaged with a virus.

The best course of action is to be cautious of ANY newly acquired software and to use "anti-virus" software that will automatically alert you to any potential dangers.

I also highly recommend that you read the "VIRUS-L FAQ" to get expert answers to questions like these and others:

- What are the known viruses, major symptoms and possible cures?
- Where can I get free or shareware antivirus programs?
- Where can I get more information on viruses, etc?
- What steps should be taken in diagnosing and identifying viruses?
- What is the best way to remove a virus?

This FAQ is online at http://www.bocklabs.wisc.edu/~janda/virl_faq.html and can also be obtained by sending e-mail to LISTSERV@LEHIGH.EDU with the command "INFO VIRUS-L" in the message body.

The VIRUS-L mailing list (also available on Usenet as comp.virus) is a forum for sharing information and ideas about computer viruses. Discussions include virus sightings, virus prevention and Q & A. To subscribe, send e-mail to LISTSERV@LEHIGH.EDU with the command "SUBSCRIBE VIRUS-L Your Name" in the message body.

Who Writes Malicious Computer Viruses?

Remember that kid in high school - the one you picked on because his pant cuffs didn't come down quite far enough to meet his cheap sneakers? Your merciless taunting drove him into the computer lab, where he sought revenge on the entire human race. This is all YOUR fault. :-)

Some Other Cool Virus-Related Stuff

I hope you'll read the VIRUS-L FAQ and get yourself educated on how to
avoid computer viruses. When you're done there, here's further reading:

```
   * ZDNet Download Help       - http://www.hotfiles.com/hlpframe.html
   * Computer Virus Myths Page - http://www.kumite.com/myths/
   * NH&A Anti-Virus Page      - http://www.nha.com
   * Virus Humor               - http://www.netwrx.net/raport2/cmptrs.htm
```

And when you're done there, pop over to visit AARDWULF, the sponsor who
made today's issue possible (and find out if aardwolves really exist).

```
+---------------------------------------------------------------------+
     AARDWULF Apparel offers quality brands like Timberland and
        Calvin Klein at prices you can only get on the Web!
+--------------------( http://www.aardwulf.com )---------------------+
```

See you next time! --Bob

```
========================================================================
                       For info on my new book
       -->  "Doctor Bob's Painless Guide To The Internet"  <--
     send e-mail to BobRankin@MHV.net w/ Subject: SEND BOOKINFO
      or visit my home page at http://csbh.mhv.net/~bobrankin
            Drop in to read reviews and sample chapters!
=----------------------------------------------------------------------=
 Join  : Send SUBSCRIBE TOURBUS Your Name to LISTSERV@LISTSERV.AOL.COM
 Leave : Send SIGNOFF TOURBUS to LISTSERV@LISTSERV.AOL.COM
 Archives: On the Web at http://www.worldvillage.com/tourbus.htm
 Advertising: E-mail BobRankin@MHV.net w/ Subject: SEND TBRATES
========================================================================
```

TOURBUS - (c) Copyright 1996, Patrick Crispen and Bob Rankin
All rights reserved. Redistribution is allowed only with permission.
Send this copy to 3 friends and tell them to get on the Bus!

--------- end forwarded message ----------

---

431. Re: [APRSSIG:7286] HAcking the Tripmate

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sun, 15 Dec 1996 18:37:36 -0400
To: rwf@mindspring.com
Cc: Aprssig@tapr.org
Message-ID: <850693056-0-eac@shore.net>
Rendered body type: text/plain

Hello,

But hacking is half the fun!

Actually if someone wants all that stuff the "Jupiter" board that is
the tripmate's big brother can be bought for about $220.

It is 5 volts DC power onlyand has 1 PPS output, antenna power input.
external antenna connection, DGPS input and the lot.

It is just a PC board with connector. You furnish the dc power regulator.
antenna, MAXUM RS-232 chip, and case.

73 Eric eac@shore.net

---

432. HF Conditions Look Good

From: schiers@ames.net
Date: Sun, 15 Dec 96 16:57:24 -0600
To: aprssig@tapr.org
Message-ID: <199612152338.RAA07558@brain.ames.net>
Rendered body type: text/plain

Those that wondered what hf conditions were like:

In the last 12 hours I have logged 144 stations, 130 of
which are from HF on 30m.

BTW, Charlie, N5TD, thanks for the report. I think we
lost propagation some time ago and I was on the road
when you left your message. 73,

hasan schiers, N0AN

```
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

433. Re: [APRSSIG:7297] Re: AEA demise. and PacComm

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sun, 15 Dec 1996 19:05:08 -0500
To: <aprssig@tapr.org>
Message-ID: <199612160011.TAA28132@grumpy.magg.net>
Rendered body type: text/plain

```
----------

I own 3 TNC-320's from PacComm these are dual port HF or VHF TNC's. They
ARE NOT SIMULTANIOUS but they do cover 300 and 1200 baud packet and I have
been very happy with both of them! A couple of years ago I posed the
question to pacComm about possibly having a similar TNC that will GATE but
that was it. They have had their hands full with the PicoPacket and now the
Mic Encoder so it is understandable, how bout' it Gwen? Things slowing up
enough to start another "venture" ?

***SNIP***
> I would buy from Gwyn in a second if he had the product. The
> only reason I hadn't mentioned PacComm was because they don't list, nor
> have I ever heard mentioned any dual port hf/vhf tncs, much less
> simultaneous operation.
>
> there is a vacuum in the market now, with only one vendor,
> Kantronics. I would much rather do business with Gwyn. They
> have been first rate with me, and I love their products.
>
> hasan schiers, N0AN
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------
```

434. Street atlas 4.0 and GPS-50 Help!

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sun, 15 Dec 1996 19:12:37 -0500
To: <aprssig@tapr.org>
Message-ID: <199612160019.TAA28553@grumpy.magg.net>
Rendered body type: text/plain

```
Just figure! I am not planing to buy Street Atlas 4.0 so I delete most of
the mail reading a little here and there... then my boss goes off and
bought me a copy as a present!

This is the story, I installed it in my notebook, runing it off of a CD-ROM
and plugged in my Garmin GPS-50. I get good data coming in as read with
QmodemPro but when I Init the GPS function using "generic NEMA" I get no
reading. If I monitor the GPS in the SA window all I get is accuiring Sats
at the top but my GPS is already locked in. The GPS-50 as all the other
Garmin GPS units puts out the $GPRMC statement, does anyone know what I am
doing wrong ? I have run it a couple of times before using a co-workers
GPS-45 a few weeks ago and maybe (it has been a rough month!) even ran it
with my GPS-50 also. I really can't remember with a heavy workload and
final exams my brain is just starting to recover from overload!


Rich Garcia N2CZF
Jupiter Farms Florida
n2czf@magg.net
http://www.magg.net/~n2czf/aprs.html
http://www.magg.net/~n2czf/index.html
```

435. Re: [APRSSIG:7303] Re: AEA demise. and PacComm

From: schiers@ames.net
Date: Sun, 15 Dec 96 18:58:38 -0600
To: aprssig@tapr.org
Message-ID: <199612160118.TAA08818@brain.ames.net>
Rendered body type: text/plain

```
In <199612160011.TAA28132@grumpy.magg.net>, on 12/15/96 at 06:13 PM,
   "Richard F. Garcia" <n2czf@magg.net> said:



>----------
```

>I own 3 TNC-320's from PacComm these are dual port HF or VHF TNC's. They
>ARE NOT SIMULTANIOUS but they do cover 300 and 1200 baud packet and I
>have been very happy with both of them! A couple of years ago I posed the
>question to pacComm about possibly having a similar TNC that will GATE
>but that was it. They have had their hands full with the PicoPacket and
>now the Mic Encoder so it is understandable, how bout' it Gwen? Things
>slowing up enough to start another "venture" ?

>***SNIP***
>> I would buy from Gwyn in a second if he had the product. The
>> only reason I hadn't mentioned PacComm was because they don't list, nor
>> have I ever heard mentioned any dual port hf/vhf tncs, much less
>> simultaneous operation.
>>
>> there is a vacuum in the market now, with only one vendor,
>> Kantronics. I would much rather do business with Gwyn. They
>> have been first rate with me, and I love their products.
>>
>> hasan schiers, N0AN
>> ---
>> schiers@ames.net
>> ---

If Gwyn is going to look at this, one consideration is the market. Established prices need to be looked at as well as the feature set and hardware. What we don't need is some cheap knock-off that uses a PLL demodulator on hf. Dual tone filtering like in the PK232 and above are a must. PLL decoders just don't cut it on hf. I don't know anything about the KAM + in terms of its filtering, but given a report one user sent me regarding the comparative performance of his PK900 vs the KAM...it sounds like the KAM might be using a PLL demodulator, or poorly implemented filtering. I don't mean to imply that PacComm would do a cheap knock-design...I am just worried about the bottom line approach that I see taken all too often in hf amateur packet gear.

<rant on>

The sad part about this is that it ain't rocket science. It isn't new technology. Good rtty demodulators have been around for 20 years, but too many manufacturers have tried to get by on the cheap with the PLL design that works marginally well on vhf, where S/N are quite high, but much more poorly on HF, where
noise is part of life.

The good hf units (AEA PK232 and above) all incorporated reasonably good filter design. The rest, when compared side-by-side, are rubbish. Yes, they work...but very poorly by comparison, much like saying "I worked Europe on a coat-hanger."

In my own side-by-side comparisons, feeding the same audio into two units, i.e., PK-232 and DSP-2232, the 2232 copied MANY more marginal packets than the 232...and keep in mind, the 232 uses dual tone filtering, or at the very least multi-pole demodulation filtering. Those of us using PLL demodulators are getting performance FAR worse than this and probably don't have a clue regarding how bad it really is.

I don't mean to get off on a rant here, but the reason AEA was so popular was because they did some things much "righter" than the competition. (One of which was not customer service, at least in my own experience). Their hardware was very, very good.

What does all this have to do with APRS...well...those of us on HF need an alternative now that AEA has gone under. Further, if Bob succeeds with his experiments with an inexpensive, but low power rig for hf aprs, we are going to need the best demodulators we can afford. 20w (assuming the 5w rig and amp), isn't a lot. Good antennas are not exactly common on 30m aprs, either. With many of the stations currently running 100w out, going to 20w and feeling good about it is kind of scary. 5:1 power reduction is > 6 dB loss.

The door is open, examples of good equipment for a reasonable price are available (unless the price structure is what put AEA under...which I doubt). Now all we need is some savvy entrepeneur to fill the vaccuum.

<end of rant>

hasan schiers, N0AN

```
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

436. SiRF GPS chipset

From: Robert J Manak <rmanak@execpc.com>
Date: Sun, 15 Dec 1996 19:40:38 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19961216014038.006fb1e4@mail.execpc.com>
Rendered body type: text/plain

```
Information on a GPS chipset from SiRF.
Is this set used in any APRS products?

SiRF Site  http://www.sirf.com/

73 bob  AA9JW


    *****************************
Information from PCWEEK December 9, 1996 page 133

    Mind The Gap
    Low-cost GPS devices: A gift for the disoriented
    By Jim Louderback


Did you ever go orienteering? It's a ton of fun! You basically try to follow
a polygonal course through the woods with only a compass and a topographic
map for tools. It's great to run through the forest, sighting marks,
matching  physical contours with elevation lines on the map and navigating
by your wits alone.

I can imagine that sailors feel the same way about navigating by sextant. It
must be so liberating to chart a course with only the stars, a map and a
small device in hand.

Alas, just as LORAN towers and other navigational aids have turned the
sextant into a curiosity, orienteering is
about to become an ancient art, more suited to medieval fairs than practical
navigation.

Why? Because a small company called SiRF is about to bring inexpensive GPS
to the masses.

You know about GPS, or the Global Positioning System.  Essentially, it uses
a network of satellites to determine, within a few inches, exactly where you
are at any time. Our benevolent military launched GPS to allow their death
machines precise targeting capabilities. But we consumers will put it to
better use.

Civilians are already using GPS today, of course. Many businesses use it to
track delivery vans, and Avis puts GPS into some vehicles. (If I hear that
obnoxious "Mommy's lost" ad one more time, I'll scream!) But these devices
cost way more than $500 and have significant startup and performance issues.

SiRF was started by refugees from S3, who hoped to apply lessons learned
there to GPS. S3 delivered some of the first inexpensive graphics chips to
the masses. A fabless design company, S3 created the chips that made
Diamond, Number Nine and many others rich. You probably use its stuff in
your PC.

SiRF has done three things right. First, it has dropped the chip-set cost to
about $50 today, and even lower down the road. Second, it has reduced
startup time to less than a minute. Current GPS systems often take 15 to 20
minutes to triangulate themselves into position. Third, SiRF is licensing
its designs widely, which allows low-cost developers from Taiwan and
elsewhere to build cheap products. Mitac has already committed to rolling
out SiRF-based products in 1997.

Imagine for a minute that it only costs $25 and a power source for any
object to know exactly where on earth it is.  Right away, Waldo, for sure,
will never get lost again. At that price, GPS can be built into anything
that moves, including notebooks, automobiles, bicycles, odometers and more.

Now imagine that the device can send and receive small wireless messages.
Suddenly you can locate any object anywhere (as long as the batteries last).
Kids, dogs, important packages, your boss, anything. Nothing would ever get
lost again--even if it wanted to.
```

Of course, there are still some challenges (a.k.a. problems) with GPS. Those satellite signals can be obscured by foliage, high buildings and tunnels, or confused by signal reflection. SiRF is addressing these problems, but it won't be able to solve them all.

Still, like SiRF, I'm excited about GPS everywhere. Now I really never will have to stop for directions.

Jim_ Louderback@Zd.Com

---

437. Re: [APRSSIG:7276] Re: Gateway TNC after AEA Demise?

From: Ralph Fowler N4NEQ <rwf@mindspring.com>
Date: Sun, 15 Dec 1996 20:58:34 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961215204954.006a6c5c@mindspring.com>
Rendered body type: text/plain

At 04:30 AM 12/15/96 -0600, Mark F. wrote:

>At least PacComm has a person who's active in this SIG, and she knows product
>and is quite helpful.

"She"'s a "He".
And is the Owner of the Company to boot!

I agree with your comments about Kantronics. Pretty good stuff, but no help from the Factory and no obvious Tech Support any of the times I have called.

Ralph

BTW

I think the owner of Kantronics has at one time been a bit active with APRS- at least he DID come to the APRS eyeball at Dayton 2 years ago, but that is all the active APRS involvement I have seen since I have been involved.

I once suggested a software improvement to the KPC's GPS mode that would slow down the GPS beacon rate when a vehicle was not moving, but they told me it couldn't be done because they only retransmitted the NMEA. I disagree, and am pretty sure another Company WILL do this for us when priorities permit.

---

438. Re: [APRSSIG:7297] Re: AEA demise.. TNC's

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Sun, 15 Dec 1996 21:39:21 -0500
To: <aprssig@tapr.org>
Message-ID: <199612160239.VAA13557@arthur.INS.CWRU.Edu>
Rendered body type: text/plain

> From: schiers@ames.net
> To: aprssig@tapr.org
> Subject: [APRSSIG:7297] Re: AEA demise.. TNC's
> Date: Sunday, December 15, 1996 17:44 PM
>
>
> there is a vacuum in the market now, with only one vendor,
> Kantronics. I would much rather do business with Gwyn. They
> have been first rate with me, and I love their products.
>
> hasan schiers, N0AN
> --
> schiers@ames.net
> --
>

Just my 2 cents, Have been running a KAM (old style 7.1 firmware) for 2 yrs

or so and no problems. No real difficulty dealing with Kantronic either,
BUT,
I also have a PicoPacket from PacComm and it has been a real pleasure
dealing
with them. I would buy from them again as my first choice. I second
hasan''s post.

joe carter, W9JC
jbc5@po.cwru.edu

439. Re: [APRSSIG:7270] Re: HF APRS cheap

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 15 Dec 1996 21:52:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961215214741.4826C-100000@arctic>
Rendered body type: text/plain

```
On Sat, 14 Dec 1996 AC6JA@aol.com wrote:

> been following the messages regarding mfj rig for aprs qrp!.....
> ...  i have already successfully used my index labs qrp plus on hf aprs
> qrp, along with rtty, pactor, amtor, etc.  it's suprising what 5 watts
> can do.

APRSdos REPLY/COMMENT:  As a new commer to QRP rigs, I am not a connoseur
(sp?) so if anyone has experience with them, please jump in with your
experiences.  Here are 2 tests needed.

1)  Anyone with a rig to space should monitor 10.151.USB  UPPER SIDE BAND
for an extended period of time and see if there are any users up there.
If the USB is clear, then QRP direct conversion receivers should work
fine. If there is commerical or other users up there, then they will QRM
the DC receivers since they hear BOTH sidebands.  ANyone wtih any SSB
receiver can collect this data...

2) How well does your QRP rig receive packet?

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

440. KAM and KAM+ Observations

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sun, 15 Dec 1996 22:53:44 -0500
To: <aprssig@tapr.org>
Message-ID: <199612160400.XAA11851@grumpy.magg.net>
Rendered body type: text/plain

```
Let me make a note here about some of the comments that I have made about
the KAM and KAM+ as compared with a PK-900. I do understand what everyone
says about not having any problems with the KAM models on HF, I did not
either for awhile.
When I suddenly became unemployed years back and started a APRS GATE I had
a lot of time on my hands. I was given the PK-900 as a Christmas present
and did my side by side tests on both TNC's nothing scientific but used
same radios, same antenna and 2 PC's at the same time. I never was aware
that there were so many packets that I was not decoding until I ran both of
them for a few days and looked at the hit list.
If one did not have a PK-900 or DSP-2232 at this time and needed one, by
all means go right ahead and buy a KAM+, it is not that bad but again there
have (past tense) been better units out there for GATEWAY operations. If
you only want a single port TNC for HF and VHF at one time do look at the
PacComm TNC-320 that is a very good alternative if you do not need a gate
feature.
I for one hope that my PK-900 holds out for a few more years, it has been
in 24hr operation as a APRS GATE since 1992 now (So has my TS-850S/AT!) and
I do worry at times about how much longer it can survive.

Rich Garcia N2CZF
Jupiter Farms Florida
n2czf@magg.net
http://www.magg.net/~n2czf/aprs.html
http://www.magg.net/~n2czf/index.html
```

---

441. MS band opening

From: WB9WOZ@aol.com
Date: Sun, 15 Dec 1996 23:09:24 -0500
To: aprssig@tapr.org
Message-ID: <961215230923_809865154@emout08.mail.aol.com>
Rendered body type: text/plain

```
Well, Meteor Scatter does work !!
On Friday night at the peak of the meteor shower, my station started to
receive the following DX. ALL VIA VHF, AND MOST WITH ONLY 1 DIGI.
I am located 16 miles SW of Chicago.

Tennessee
W9KOC
```

N4PYI
KQ4TV
NT4L-1
WB0WOO-1
WB8EYJ-3
WA4GKM-5
W3CO
N4QEA

Alabama
WA8INZ-7
N4XWC
N4NR-7

Georgia
N4NEQ-2
NE1H
KC4ZGQ
KD4DLT
KR4OL-2
KE4IXA-9
KF4XH-2
WB4QOJ-5
WB4VNT
W6PNC-7
NWSPTC
KO4RQ
KD4DLT-7

Florida
WA4B
KE4OSB

So, the next time a meteor shower is due, you can bet I'll be ready for it.

Bruce Tobias
WB9WOZ
Northern Illinois APRS Network

---

442. Alternates to GATE TNC's

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Mon, 16 Dec 1996 00:25:47 -0500
To: <aprssig@tapr.org>
Cc: <wd5ivd@tapr.org>
Message-ID: <199612160532.AAA17401@grumpy.magg.net>
Rendered body type: text/plain

With all of this talk about the KAM being the only GATE type TNC on the market now how about a alternate to a dual port TNC, possibly even cheaper.

How difficult would it be to have Howie N2WX modify the standard TNC-2 clone code to allow two TNC-2 clones wired back to back act as a GATE. This will allow anyone with a few of these TNC's run a gate at a low cost and hold us over until there are more dual port GATE TNC's available again.

The clones are so cheap and plentiful that it may be a good idea even if we had more dual port choices. I often see these TNC's for sale at $60 or so used and even new they can be had for $119!

Rich Garcia N2CZF
Jupiter Farms Florida
n2czf@magg.net
http://www.magg.net/~n2czf/aprs.html
http://www.magg.net/~n2czf/index.html

---

443. Re: [APRSSIG:7311] MS band opening

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 16 Dec 96 03:58:42 -0500
To: <aprssig@tapr.org>
Message-ID: <199612160858.DAA25643@newworld.bridge.net>
Rendered body type: text/plain

>So, the next time a meteor shower is due, you can bet I'll be ready for it.
>
There was also a big terrestial band opening, which is where most if not all of these reports probably came from.

Steve K4HG

---

444. Re: [APRSSIG:7297] Re: AEA demise.. TNC's

From: "Sam Nabkey, K8SN" <snabkey@k8sn.org>
Date: Mon, 16 Dec 1996 06:22:55 +0000
To: aprssig@tapr.org
Message-ID: <199612161122.GAA01663@k8sn>
Rendered body type: text/plain

```
On 15 Dec 96 at 16:43, schiers@ames.net wrote:

> I would buy from Gwyn in a second if he had the product. The
> only reason I hadn't mentioned PacComm was because they don't list,
> nor have I ever heard mentioned any dual port hf/vhf tncs, much less
> simultaneous operation.
>
> there is a vacuum in the market now, with only one vendor,
> Kantronics. I would much rather do business with Gwyn. They
> have been first rate with me, and I love their products.
>
> hasan schiers, N0AN
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------
>

Don't forget REMOTE SYSOP stuff too.  For those remote hilltop Stand
Alone Weather Stations and DIGI's that require a new BT or something
once in a while.   This would also be handy for those Stand Alone
Trackers that get away without the right BT to display a symbol
during an event, had that before.

Of course that might not be in a Dualport model but maybe in the
unit that has two Serial Ports.


that before.

_____________________________________

Sam Nabkey - K8SN (at home)
Internet: snabkey@k8sn.org
amprnet: k8sn@w8dc.ampr.org
WWW: http://www.k8sn.org
AX.25: K8SN@W8DC.#SWMI.MI.USA.NOAM
Java APRS: http://www.k8sn.org/javAPRS
Fresh APRS Files: FTP ftp.k8sn.org
```

---

445. Re: [APRSSIG:7181] Re: Tripmate ext. antenna?

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Mon, 16 Dec 1996 06:53:16 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961216065219.12803A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
I have a fibeglass top on the K-5 and a roll bar inside. I put my antenna
on top of the bar. NO PROBLEMS!!!



On Fri, 13 Dec 1996, William Nolle wrote:

> Steve Dimse wrote:
> >
> > >I've been following the mail about the tripmate and I am wondering if it
> > >is possible to modify it to use an external antenna.  I don't quite like
> > >the idea of setting it on the dashboard for several reasons, especially
> > >because of its bright color.  Please, I would like to find out before I
> > >go out and purchase one.
> > >
>
> Why would anyone want a external antenna for the Tripmate, If so why not
> just glue some magnets on the bottom of the receiver and place it on top of
> the vehicle it looks like it's water tight. Personally with what testing I
> have done with the receiver on the dash works just great in fact much
> better then my Magellan ever did.
> --
>       \////
>       (0 0)
>  *--o0-(_)-0o--*
>  wa8inz@amsat.org
>  wa8inz@cris.com
>
```

---

446. Trip mate summary?

From: Daniel Velez <djv@gte.net>
Date: Mon, 16 Dec 1996 08:26:06 -0500
To: aprssig@tapr.org
Message-ID: <32B54DEE.73A0@gte.net>
Rendered body type: text/plain

```
Sorry, been out to sea for a month....came back and see all this stuff
about a tripmate.  Would someone please summarize what it is and what
you've been trying to do with it?

Tnx,
--
Dan

||||||||||||||||||||||||||||||||||||||||||||||||||||
Daniel Velez                             djv@gte.net
                  http://home1.gte.net/djv/index.htm
                            n4wzr@wd4miz.va.usa.noam
||||||||||||||||||||||||||||||||||||||||||||||||||||
```

---

447. Re: [APRSSIG:7258] Any NE New Jersey APRS on VHF?

From: James Kerns <jkerns@usit.net>
Date: Mon, 16 Dec 1996 08:57:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612161357.IAA02937@smtest.usit.net>
Rendered body type: text/plain

```
snip.....
>I will be in Morris, Bergen, and Passaic County for about 1 week but this
>time I will only be able to bring a HT and mag mount. Is it worth while for
>me to even bother ? I am trying to travel light due to the holiday mess at
>the airports!
>
>
>Rich Garcia N2CZF
>Jupiter Farms Florida
>n2czf@magg.net
>http://www.magg.net/~n2czf/aprs.html
>http://www.magg.net/~n2czf/index.html
>
>Hey, Rich, long time no talk.  Happy holidays to all.
My TNC is shot so not on APRS till I get 232 fixed or get another one.

What makes you think anyone wants you back in NJ since you pulled out and
deserted them?? (gg)


>
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)
```

---

448. Cheap GARMIN 45 power/data Connectors

From: "Kent Hufford" <khufford@erols.com>
Date: Mon, 16 Dec 1996 09:09:41 -0500
To: <aprssig@tapr.org>
Message-ID: <199612161404.JAA16159@smtp1.erols.com>
Rendered body type: text/plain

```
I was talking to BOB last nite about the expensive power/data connector for
the GARMIN 45 series GPS receivers.

It's been awhile since anyone has posted the web site where a guy is making
his own and also selling them for a "donation".

http://home.cdsnet.net/~purple/projects/g45contr/g45_idx.htm

He has a big form press, so he turns them out by the 1000s. He even has the
little pins for the connector. So if you have a GARMIN 45 or a GARMIN that
```

uses the same 4 pin keyed round connector, check out the web page.

Kent V Hufford
KQ4KK
khufford@erols.com

449. Re: [APRSSIG:7312] Alternates to GATE TNC's

From: schiers@ames.net
Date: Mon, 16 Dec 96 08:59:49 -0600
To: aprssig@tapr.org
Message-ID: <199612161500.JAA01651@brain.ames.net>
Rendered body type: text/plain

In <199612160532.AAA17401@grumpy.magg.net>, on 12/15/96 at 11:33 PM,
   "Richard F. Garcia" <n2czf@magg.net> said:

>The clones are so cheap and plentiful that it may be a good idea even if
>we had more dual port choices. I often see these TNC's for sale at $60 or
>so used and even new they can be had for $119!

This does not address the hardware problem. The VHF tnc's that are kludged to run on hf use the SAME PLL demodulators whose performance stinks on hf. So there is no advantage at all to having two tnc's, if the 2nd one that is to run on hf doesn't work worth a darn.

I put a long ranting post on about the issue earlier this weekend. If the issues raised in it are not addressed (hardware issues), then there is nothing to discuss and no progress has been made.

hasan schiers, N0AN--
----
schiers@ames.net
----

450. WinAPRS 117 & Dates

From: schiers@ames.net
Date: Mon, 16 Dec 96 09:17:01 -0600
To: aprssig@tapr.org
Message-ID: <199612161517.JAA01929@brain.ames.net>
Rendered body type: text/plain

I have seen this mentioned somewhere briefly before, and thought i would confirm it. The current version has a bug in the dating of messages among other things. I see Dec 31'st on all the messages received or was it on the tracking screen...one of them at least.

I think I saw at least two other posts regarding this, so mine is just a confirmation that it is happening here too.

Win95, 32mb, P133, WinAPRS 117

hasan schiers, N0AN--
----
schiers@ames.net
----

451. Date bug in WinAPRS

From: Mark Sproul <sproul@ap.org>
Date: Mon, 16 Dec 1996 10:17:33 -0500
To: aprssig@tapr.org
Cc: ko6xs@ko6xs.ampr.org, garnold@naples.net, jerryr49@magg.net
Message-ID: <v03007803aedb16a485cd@[165.1.27.20]>
Rendered body type: text/plain

>For some reason, The messages I'm receiving in WinAPRS are all displayed in
>the message list window with the date of 12/31, even though the computer
>clock has the right date. I even tried clearing message logs and restarting
>WinAPRS. Any ideas about fixing this would be appreciated.
>

WinAPRS has a serious bug in the conversion from internal date/time representation to actual displayed date. The first apear a couple of months ago but ONLY on the last day of the month. Now that we are in the last month of the year, the rest of the bug showed up.

I now have it fixed COMPLETELY and it will be in the next release.

Mark

```
________________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
________________________________________________________________________________
```

452. $GPRMC Sentence

From: gbaumgartner@mail.cybg.com
Date: Mon, 16 Dec 1996 16:02:29 +0000 (GMT)
To: aprssig@tapr.org
Message-ID: <9612161602.AA02126@mail.cybg.com>
Rendered body type: text/plain

William B. Bliss (bbliss@juno.com) writes:

```
> Hi SIGgers,
>      Additional breakdown of RMC SENTENCE
>
> Attn: GPS users...                                 Filed: 170500GMT MAR
> 96
>       Following protocol from Motorola Tech Support. May be of interst to
> APRS GPS MOBILE fans, posted several times past two years..
>
> $GPRMC PROTOCOL, RMC GPS Message. Gives Time, Position, Course/Speed.
> Best for APRS use, plots your mobile unit as you move, for all to see on
> their maps.
>        1      2 3       4 5        6 7     8    9      10 11 12
> $GPRMC,xxxxxx,A,xxxx.xx,N,xxxxx.xx,W,xx.xx,xxx.,xxxxxx,xx.,E*xx<CR><LF
>
>   No.   Field                       Units/Range
>   1     Time, UTC                   Hours, Minutes, Seconds/
>   2     Status                      A=Valid, V= Invalid
>   3     Latitude                    Degrees, Minutes and Hundredths/
>                                     00-90,   00-59,      00-99
>   4     Direction                   N= North, S = South,
>   5     Lontitude                   Degrees, Minutes and Hundredths/
>                                     00-180,   00-59,     00-99,
>   6     Direction                   E = East,  W = West
>   7     Speed over ground           Knots/ 00.0 - 99.9
>   8     Course over ground          Degrees in referenced to True North/
>                                     000-999  (000-359)
>   9     Date                        Day,    Month,    Year/
>                                     00-31,  00-12,    00-99/
>   10    Variation                   Degrees/ 00-99
>   11    Variation sense             E = East, W = West
>   12    Mandatory Checksum          Hex - 7F
>
> The above protocol data is as sent on a single Packet UI fram, like so:
>
> WB6LPG-9
> $GPRMC,095302,A,3727.39,N,12226.29,W,04.58,160.14,021094,15.45,E*4E
>
>    It is received as a plot/fix on you APRS Map as a Car&Call and heading
> line/flag, in the correct position and in your Position Log as foll:
>
> WB6LPG   021094z020953/3727.39N/12226.29W>160/1.4/raw*/RMC Fix
```

Does no one see anything wrong with this? The course in the NMEA sentence is indicated as 160.14. In the APRS log, it's 160. So far so good.

But the speed in the NMEA sentence is 04.58 but in the APRS log it's 1.4. 1.4 looks like the fractional part of the course with the decimal point shifted.

Perhaps a bug in dosAPRS?

On another note, the GPS's we're using in the Civil Air Patrol in Illinois (I'm not sure of the model number, but it's a Motorola with no display) output a time stamp of the format hhmmss.ss, and the speed is of the format xxx.x (only one place after the decimal point and the whole numbers are not 0 padded to the left.

Perhaps the format given above is NMEA 1.5?   Can dosAPRS handle both?

```
--
-------------------------------------------------------------------------------
Gerry Baumgartner
Gerry.Baumgartner@mail.cybg.com
```

453. Re: [APRSSIG:7258] Any NE New Jersey APRS on VHF?

From: Mark Sproul <sproul@ap.org>
Date: Mon, 16 Dec 1996 11:00:28 -0500
To: aprssig@tapr.org
Message-ID: <v0300780aaedb228f5292@[165.1.27.20]>
Rendered body type: text/plain

```
>I am planing a trip back to New Jersey in a couple of weeks, is there any
>activity up there yet. I have not been up there in 18 months and at that
>time I got occasional coverage running 50 watts.
>
>I will be in Morris, Bergen, and Passaic County for about 1 week but this
>time I will only be able to bring a HT and mag mount. Is it worth while for
>me to even bother ? I am trying to travel light due to the holiday mess at
>the airports!
>
>



Rich

Naw, there aint much up hear, I only get about 200 stations in about 3
hours show up on my screen.  Thats not very much now is it.  After running
a week, I had only 360 stations.


Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

454. Re: [APRSSIG:7311] MS band opening

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Dec 1996 11:27:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961216112502.21169B-100000@arctic>
Rendered body type: text/plain

```
If you make a MS report, it would be so nice if you trimmed out all the
non MS stations, and then just included the lines from your BACKUP file so
that we all could load it and see what you saw...  It wouldnt take any
more lines of data...

 On Sun, 15 Dec 1996 WB9WOZ@aol.com wrote:

> Well, Meteor Scatter does work !!
> On Friday night at the peak of the meteor shower, my station started to
> receive the following DX. ALL VIA VHF, AND MOST WITH ONLY 1 DIGI.
> I am located 16 miles SW of Chicago.
>
> Tennessee
> W9KOC
> N4PYI
> KQ4TV
> NT4L-1
> WB0WOO-1
> WB8EYJ-3
> WA4GKM-5
> W3CO
> N4QEA
>
> Alabama
> WA8INZ-7
> N4XWC
> N4NR-7
>
> Georgia
> N4NEQ-2
> NE1H
> KC4ZGQ
> KD4DLT
> KR4OL-2
> KE4IXA-9
> KF4XH-2
> WB4QOJ-5
> WB4VNT
> W6PNC-7
> NWSPTC
> KO4RQ
> KD4DLT-7
>
> Florida
> WA4B
> KE4OSB
>
>
> So, the next time a meteor shower is due, you can bet I'll be ready for it.
>
> Bruce Tobias
> WB9WOZ
> Northern Illinois APRS Network
```

---

455. Re: [APRSSIG:7271] Re: Gateway TNC after AEA Demise?

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Mon, 16 Dec 1996 08:48:22 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <Pine.SUN.3.91.961216084712.7222D-100000@willow>
Rendered body type: text/plain

```
>      "Ever wonder why the JA's are not in the TNC business..?"

Here's another one:

Why hasn't Radio Shack entered the TNC and/or GPS arena??
Not enough profit margin I guess...

Chris
```

---

456. Re: [APRSSIG:7322] $GPRMC Sentence

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Dec 1996 12:09:04 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961216120646.21169I-100000@arctic>
Rendered body type: text/plain

```
On Mon, 16 Dec 1996 gbaumgartner@mail.cybg.com wrote:

> > $GPRMC,095302,A,3727.39,N,12226.29,W,04.58,160.14,021094,15.45,E*4E
> >
> >    It is received as a plot/fix on you APRS Map as a Car&Call and heading
> > line/flag, in the correct position and in your Position Log as foll:
> >
> > WB6LPG   021094z020953/3727.39N/12226.29W>160/1.4/raw*/RMC Fix
>
> But the speed in the NMEA sentence is 04.58 but in the APRS log it's 1.4.
> 1.4 looks like the fractional part of the course with the decimal point
> shifted.   Perhaps a bug in dosAPRS?
>
APRSdos REPLY/COMMENT:  Good point.  Ill check...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

457. Re: [APRSSIG:7299] Re: Tripmate & KCP-3

From: Randy Hammock <hammock@wired.jpl.nasa.gov>
Date: Mon, 16 Dec 1996 10:57:25 -0800
To: aprssig@tapr.org
Message-ID: <32B59B95.41C6@wired.jpl.nasa.gov>
Rendered body type: text/plain

```
Demos Doulou wrote:
> To run stand alone,  install r48 in the kpc3 to force the dtr line high
> (this turns the tripmate on).
>
> set GPSINT to ASTRAL
>
> use a null modem adapter to connect the tripmate to the kpc3.
>
> Works fine.

I have been trying this. I installed R48 and set GPSINIT to ASTRAL;
however, I am having problems with the KPC-3 sending the ASTRAL to the
Tripmate before it is ready to receive it. Hence, the Tripmate never
sees the ASTRAL from the KPC-3 and just sit there sending it's own
ASTRAL message. This has been verified by looking at the lights of a
breakout box connected between the Tripmate and KPC-3.

Sequence of events:
 Press power button on KPC-3.
 See handshale light come on.
 See short data burst from KPC-3.
 Pause.
 See long then short data burst from Tripmate followed by continuous
   short bursts.
 After while, briefly short pins 2 & 3.
 Start seeing long burts from Tripmate.

I even loaded GPSINIT with ASTRAL<ctrl-n>ASTRAL<ctrl-n>... upto the 128
character limit, hoping that one of them would get caught by the
Tripmate. For those wonder what the <ctrl-n> is for, this allows
multiple command to be place into a single command line. When the
GPSINIT text is transmitted, the <ctrl-n> get sconverted into <CR><LF>.

I either need to get DTR to Tripmate sooner or get KPC-3 to boot-up
slower.
--
Randy Hammock        KC6HUR        |  Jet Propulsion Laboratory
mailto:hammock@wired.jpl.nasa.gov  |  M/S: 264-580
 Voice: +1-818-393-1214            |  4800 Oak Grove Drive
 Pager: +1-818-423-2062            |  PASADENA CA 91109
```

---

458. Re: [APRSSIG:7227] Re: Gateway TNC after AEA Demise?

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Mon, 16 Dec 1996 11:54:42 -0800
To: aprssig@tapr.org
Message-ID: <32B5A902.1FE7@cjnetworks.com>
Rendered body type: text/plain

```
schiers@ames.net wrote:
>
> In <199612132031.PAA03262@unix.asb.com>, on 12/13/96 at 02:13 PM,
>    bob <w2g3zfj@unix.asb.com> said:
>
> >I used a PK232 initially but for the last 3 years of GATE operation I
> >have used the Kantronics KAM Plus with both dosAPRS and for the last 6
> >months with winAPRS with no problems. Works fine.
>
> Now that is a novel thought! How can the 232, which doesn't support dual
> port (simultaneous) operation be used as a dual port gateway tnc? I have
> one sitting here with the latest firmware and I see no indication that it
> has any prayer of working in that mode.
>
> Thanks so much for your 2nd comments about the Kam +...that is exactly the
> kind of info I was looking for: "I have one, I use it the way you intend
> with the software you are going to use and it works." I couldn't have
> asked for more. At least now I know when the 2232 craps out and it can't
> be fixed, (also knowing it will no longer be supported), I can go get a
> KAM + and be happy. I hope the KAM + is a good performer.
>
> Actually, it is a bit of a joke to say AEA ever supported the 2232. They
> misrepresented its development from the first day. Made excuses, blamed
> others and promised the moon. They delivered on very little, except some
> very minor prom upgrades. They blew it. A marvelous dsp engine is inside
> that thing and they botched it.
>
> If I seem bitter...I am. 1 kilobuck in the toilet.
>
> I would be very interested to hear about the KAM + performance on hf and
> any other feedback about using it in gateway dual port mode with WinAPRS.
```

```
>
> 73,
>
> hasan schiers, N0AN
> -----------------------------------------------------------
> schiers@ames.net
> -----------------------------------------------------------

Go to Kantronics.com and ask them direct!
```

459. Re: [APRSSIG:7229] Re: Gateway TNC after AEA Demise?

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Mon, 16 Dec 1996 12:07:07 -0800
To: aprssig@tapr.org
Message-ID: <32B5ABEB.639@cjnetworks.com>
Rendered body type: text/plain

```
kb6lfm wrote:
>
> Richard F. Garcia wrote:
> >
> > You must have been lucky, my army of TNC's include two KAM's and I will
> > never purchase another Kantronics product again! I have found their tech
> > support to be very poor, mostly that they will not even want to listen to
> > what needs to be fixed but also just plain old support.
> >
> > ----------
> > > From: Ross McClain <aa0mm@cjnetworks.com>
> > > To: aprssig@tapr.org
> > > > -----------------------------------------------------------
> > > Check out kantronics.com when you get some time. I think they have what
> > > you are looking for. I have never used an AEA, so can not advise you on
> > > features specific. However, the Kantronics line is a fine TNC, and they
> > > have EXCELLANT TECH SUPPORT!
> > >
>
> Kantronics has Excellent Tech Support! The KAM+ is (in my opinion) one
> of the best Multi-mode TNC's available. Must confess that I don't care
> for there software. I have 3 KPC-3's and 2 KAM's. I bought one of the
> very first KPC-3's and a KAM's to hit the market. Over the years, I have
> up-graded both of them as the up-grades became available. They (both)
> are performing as you would expect a new current version to perform.
>
> The firmware/hardware chips in the up-grades were easily installed, and
> have performed flawlessly..! For my money, Kantronics TNC's are
> peerless.
>
> GL.
>
> Bill  KB6LFM
> West Coast APRS Gateway Station in SFO

Well that is a vote of confidance for the old Kansas Company.
I have not used their Host Master.
The other software that comes with the unit is both Good and Bad.
Good: You can run packet on an old piece of JUNK. (we have
lots-a-lightning here in Ks, and for most of us, a somewhat restricted
family budjet for purchasing computers!)
Bad:  It is not pretty to look at!
Yes, they do have PLAIN TECH SUPPORT. But you know how us Kansan's are.
Having fun at Holton, Kansas (Thats about 40 Miles from the KAM HQ in
Lawrence, KS.)
De AAØMM Ross (And they said you couldn't make a "Ø" in windows either!)
```

460. Re: [APRSSIG:7271] Re: Gateway TNC after AEA Demise?

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Mon, 16 Dec 1996 12:30:39 -0800
To: aprssig@tapr.org
Message-ID: <32B5B16F.7CE6@cjnetworks.com>
Rendered body type: text/plain

```
kb6lfm wrote:
>
> Mark Fellhauer wrote:
> >
> > At 06:09 PM 12/13/96 -0600, kb6lfm wrote:
> > >
> > >Kantronics has Excellent Tech Support!
> >
```

> > Excuse me!? Did you really type that? Kantronics with excellent tech
> > support? C'mon, I called them with some basic questions about the GPS
> > upgrade for the KPC-3 and I knew more about GPS than the person answering
> > the phone and they would not let me speak to any one responsible for the
> > firmware or design of their hardware!
> >
> > Ditto for the 9612 paging upgrade.
> >
> > That's lousy tech support!
> >
> > Mark Fellhauer
> > KC7BXS
>
> KB6LFM WRITES:
>
> Yup..! I wrote that.., It was me..!
>
> SRI to hear that you had to call Kantronics with some basic questions
> about up-grading your KPC-3 to the GPS Ver 6.0. When I up-graded my
> KPC-3, all I had to do was replace 1 plug-in IC chip, and do a hard
> reset. The documentation that came with the up-grade was very easy to
> understand (even for a longshoreman... Hi.!) The point is; in my
> opinion, and for my money, Kantronics is hard to beat. They are user
> friendly, competitively priced, still in business.....! The only time
> that I have needed their "Tech Support" was when I wanted to hook-up my
> KAM+ to a scope. I spoke with Don Rixon, who not only told me how to do
> it over the phone, he also FAXED me a copy of the components location
> with the modification penciled in. How can I bi*#h about that..!
>
> Here is one for the SIG
>
>   "Ever wonder why the JA's are not in the TNC business..?"
>
> 73. Bill KB6LFM
>
> West Coast Gateway Station in SFO
I thought I wrote it?
Oh well,,, DITTO'S.

---

461. Re: [APRSSIG:6570] APRS/Java ..

From: Cap Pennell <cap@cruzio.com>
Date: Mon, 16 Dec 1996 11:28:36 -0800
To: aprssig@tapr.org
Message-ID: <32B5A2E4.4BCC@cruzio.com>
Rendered body type: text/plain

<SNIP>
Netscape announced a beta version of Netscape Navigator 3.01 with Java
support for Windows 3.1 on December 16. See: http://home.netscape.com/
73. Cap
--
Cap Pennell
Santa Cruz, CA, 95062-1002   3658.92N/12200.88W
email: cap@cruzio.com   homepage: http://members.cruzio.com/~cap
packet radio: KE6AFE@kg6ee.#cca.ca.usa.noam

---

462. Re: [APRSSIG:7327] Re: Tripmate & KCP-3

From: Robert Winingham <kc5ejk@onramp.net>
Date: Mon, 16 Dec 1996 13:38:16 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aedb54ce7499@[199.1.11.123]>
Rendered body type: text/plain

>I have been trying this. I installed R48 and set GPSINIT to ASTRAL;
>however, I am having problems with the KPC-3 sending the ASTRAL to the
>Tripmate before it is ready to receive it.

Why not just forget the GPSinit string and tie the Tripmate
pin 2 to pin 3 and let it self init.

Then only use the Tripmate GPS output pin to the TNC.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

463. RE: [APRSSIG:7301] Re: HAcking the Tripmate

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 16 Dec 1996 15:02:12 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BBEB62.1F767580@gwyn.paccomm.com>
Rendered body type: text/plain

PacComm is a dealer for the Jupiter OEM boards, in case anyone wants the 'big brother.'

Gwyn, W1BEL

From: Eric A. Cottrell[SMTP:eac@shore.net]
Sent: Sunday, December 15, 1996 12:33 PM
To: aprssig@tapr.org
Subject: [APRSSIG:7301] Re: HAcking the Tripmate

Hello,

But hacking is half the fun!

Actually if someone wants all that stuff the "Jupiter" board that is
the tripmate's big brother can be bought for about $220.

It is 5 volts DC power onlyand has 1 PPS output, antenna power input.
external antenna connection, DGPS input and the lot.

It is just a PC board with connector. You furnish the dc power regulator.
antenna, MAXUM RS-232 chip, and case.

73 Eric eac@shore.net

---

464. Re: [APRSSIG:7331] Re: APRS/Java ..

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 16 Dec 96 16:46:27 -0500
To: <aprssig@tapr.org>
Message-ID: <199612162146.QAA25162@newworld.bridge.net>
Rendered body type: text/plain

>Netscape announced a beta version of Netscape Navigator 3.01 with Java
>support for Windows 3.1 on December 16. See: http://home.netscape.com/

If someone tries javAPRS with this, please let me know either way. My
hopes aren't too high, javAPRS and first betas of Netscape have a poor
track record...

Steve K4HG

---

465. North American Digital System Directory

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Mon, 16 Dec 1996 16:22:47 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aedb27fa5734@[138.87.2.109]>
Rendered body type: text/plain

North American Digital System Directory

The Tucson Amateur Packet Radio Corporation (TAPR), with the support of the American Radio Relay League (ARRL), will begin providing at the TAPR Internet site the information on digital systems that until now has been printed in the annual ARRL Repeater Directory. Information on digital systems will not be published in the 1997-98 edition of the Repeater Directory, permitting the publication to better focus on its primary use as a guide to voice repeaters for traveling Amateurs.

In planning the 1997-98 edition, the ARRL concluded that the Repeater Directory was no longer the most effective medium for this information. Discussions involving various regional digital groups that provide data to the digital section of the Repeater Directory led to the conclusion that TAPR was the logical group to take on the task of a new North American Digital System Directory.

This new database system will describe systems used by amateur radio stations involved in digital communications in the United States, Canada, and Mexico. The Digital System Directory will be based on information provided by regional, state, and local organizations as well as individuals in a nearly real-time format. This should allow information to be maintained and updated more frequently than in a yearly publication. TAPR will also work with participating organizations to make this information available on TAPR's yearly CD-ROM as well as some future publication for local/regional groups to distribute.

The purpose of the Digital System Directory is not to manage, coordinate, or regulate the usage of digital systems, but to provide the most up to date and accurate listing of digital systems that can be provided. Neither is it a formal organization, but a mechanism to allow regional groups to provide and share information regarding digital systems.

The Digital System Directory is intended for use by individuals to further their enjoyment of the hobby and by organizations to help plan and develop digital networks.

Regional/Local groups including TwinsLAN, Texas Packet Radio Society, Miami Valley FM Association, Ohio Area Repeater Council, Puget Sound AR TCP/IP Group, Northern California Packet Association, Northern Illinois Packet Radio Frequency Council, Indiana Digital Experimenters Association, Central Lakeshore Experimenter's Digital Organization, HogNet Packet Radio Association, YCCC Sysops Association, and the Missouri Amateur Packet Radio Society have already begun to participate in the process. TAPR encourages other regional groups to support this project by contributing data from their respective areas.

For further information on the project and how to get involved, regional groups should check http://www.tapr.org/directory or send e-mail to Carl Estey, wa0cqg@tapr.org

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Released on: 12-16-96
by: TAPR and ARRL

```
/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
 Larry M. Keeran K9ORP   IS Data Processing Equip Tech   k9orp@tapr.org
 EC McLean Co-CIPRUS,Inc-PresCIRC-VP QCWA-Life ARRL-APRSM-APRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

---

466. HF QRP

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 16 Dec 1996 18:43:36 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961216183605.19806A-100000@arctic>
Rendered body type: text/plain

Well, if anyone wants to hear a VY weak signal, try to digi off of W3ADO on HF in Annapolis. It's an MFJ QRP CW rig running 4 watts into 150 feet of coax and an MFJ antenna tuner. It will probably drift too, so good luck!

FSK mods were one jumper and a 22k resistor driven from the FSK output of my KAM. It uses the RIT knob for adjusting shift.

Now all I gotta do is order a VFO xtal.

Receiver sens is down a few DB compared to my Kenwood.

```
Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

467. dfJr multi port/gps/aprs77e -- working for anyone?

From: gphowell@mindspring.com
Date: Mon, 16 Dec 96 23:48:59 -0500
To: aprssig@tapr.org
Message-ID: <199612162357.XAA179554@mule0.mindspring.com>
Rendered body type: text/plain

Yesterday our local club planned a T-hunt and since I had carefully introduced enough cockpit error into the last one so that nothing really worked well, I started Saturday on this one. Setup: dfJr to multiport adapter, GPS-45 to multi port adapter, PICO to multiport adapter and adapter to Toshiba laptop. I was unable to get dos version 77E to acknowledge or use the GPS posits coming in no matter how I set things up.

Tried SPM with no TNC, SPM with TNC, HSP with PICO -- GPS still connected to multiport adapter, nothing worked. It appeared that posit reports as well as DF bearings were sent to the serial port, and the program did parse the df bearings and display them on the screen, but never would it change the initial position that I entered. At one point the program was telling me that it was not getting a position report therefore it was not displaying a bearing. I did see NMEA sentences scrolling across the bottom of the screen and lat/long was changing but was ignored.

(I DID remember to use the correct registration numbers this time unlike the last time...)

Any ideas on what I am doing wrong? The only thing I didn't try was connected the GPS to the second serial port on the PICO and try HSP, but I suspect that wouldn't have worked either since I don't think the multiport adapter does HSP. Grrrr. Help appreciated, Bob says he doesn't know either since he hasn't run this configuration.

Thanks!

```
-----------------------------------------------------------
Geep Howell WA4RTS
gphowell@mindspring.com
-----------------------------------------------------------
```

468. [Re: [APRSSIG:7153] QRZ Index File]

From: ke4sop@netwide.net (Ed Unrein)
Date: Mon, 16 Dec 1996 19:30:37 -0500
To: aprssig@tapr.org
Message-ID: <32B5E9AD.6C89@netwide.net>
Rendered body type: text/plain

Hi Ed,

On Thu, 12 Dec 1996 you asked:

>Does someone know the file name and the URL of where I can obtain the QRZ index file
>for WINAPRS?

According to the DOCs for WinAPRS 1.17, QRZ ought to work. I set it up on my machine (I'm using QRZ ver 7) and it doesn't. At least, not for me. Let's see what The Brothers Sproul have to say though. 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

469. Re: [APRSSIG:7325] Re: Gateway TNC after AEA Demise?

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Mon, 16 Dec 1996 19:47:06 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961216194616.2000B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 16 Dec 1996, Chris Terwilliger wrote:
>
> Why hasn't Radio Shack entered the TNC and/or GPS arena??
> Not enough profit margin I guess...

Give them time ...

```
Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

470. Re: [APRSSIG:7337] dfJr multi port/gps/aprs77e -- working for anyone?

From: Joe Agrelo <jagrelo@cris.com>
Date: Mon, 16 Dec 1996 20:20:01 -0800
To: aprssig@tapr.org
Message-ID: <32B61F70.9B3@cris.com>
Rendered body type: text/plain

gphowell@mindspring.com wrote:
>
> Yesterday our local club planned a T-hunt and since I had carefully
> introduced enough cockpit error into the last one so that nothing really
> worked well, I started Saturday on this one. Setup: dfJr to multiport
> adapter, GPS-45 to multi port adapter, PICO to multiport adapter and
> adapter to Toshiba laptop. I was unable to get dos version 77E to
> acknowledge or use the GPS posits coming in no matter how I set things up.
>

> Tried SPM with no TNC, SPM with TNC, HSP with PICO -- GPS still connected to multiport adapter, nothing worked. It appeared that posit reports as well as DF bearings were sent to the serial port, and the program did parse the df bearings and display them on the screen, but never would it change the initial position that I entered. At one point the program was telling me that it was not getting a position report therefore it was not displaying a bearing. I did see NMEA sentences scrolling across the bottom of the screen and lat/long was changing but was ignored.
>
> (I DID remember to use the correct registration numbers this time unlike the last time...)
>
> Any ideas on what I am doing wrong? The only thing I didn't try was connected the GPS to the second serial port on the PICO and try HSP, but I suspect that wouldn't have worked either since I don't think the multiport adapter does HSP. Grrrr. Help appreciated, Bob says he doesn't know either since he hasn't run this configuration.

Geep,

I only ran this combination once with DOS APRS to verify it was all working.
It's been a while but I did follow the instructions from Bob's readme/df.txt file.
and it worked just fine.

Clip!--
AUTOMATIC INTERFACE TO THE AGRELO DFjunior:

The multi-port adapter combines your TNC, DFjr and GPS data all into the same PC COMM port. Using this adapter, configure APRS for one port TNC operation (even if you are not using packet), then use alt-SETUP-DF menu to select the DFjr. This tells APRS to watch for DF data on the TNC comm port. THen select the GPS-SPM mode under the alt-S-GPS-MODES menu so that APRS will also parse GPS data on the TNC port. Even if you normally run HSP mode with other TNC's, your HSP adapter is not being used. The DFjr is doing the switching so SPM mode should be selected. (If you have the dual port Pico-TNC, however, then you must select HSP.) The multi-port adapter normally passes TNC data straight through to the PC. But when the DFjr outputs a report, it sends out a POSIT followed by a DF report which are combined with the TNC data at the COMM port.
end clip!---

I activly use WinAPRS which works like a charm, except for the RELATIVE/TRUE calculation which is finished and coming out in the next release. The RELATIVE/TRUE calculation as absolutly needed if you are a moving DFer, this calculation takes the DF relative bearing and subtracts it from the actual vehicle GPS heading so that the correct bearing is displayed on the map.

HINT'S-

1.Try lowering the GPS posit rate from the DFjr so there are less collisions at the MPA with the TNC.

2.Try turning off the GPS & DF ports on the DFjr control head and do a MANUAL report, MENU, ENTER. This sends the most recent GPS POSIT first, then the DF info second.

3.Bob's notes say "If you have the dual port Pico-TNC, however, then you must select HSP" but I think you tried this.

4.I do recall now having problems the first time and Bob walked me through it, I remember it being very picky about the sequence of everything, do this first then this, then that, click on this, click on that.

If I get some free time I will connect everything, get it working and pass along how I did it, can't promise, time is very limited.

```
Wish I could me more help:-(

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553  "       "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

---

471. Re: [APRSSIG:7337] dfJr multi port/gps/aprs77e -- working for anyone?

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 16 Dec 1996 19:23:40 -0800
To: aprssig@tapr.org
Message-ID: <32B6123C.4993@amsat.org>
Rendered body type: text/plain

```
gphowell@mindspring.com wrote:

<snip>
> ...  At one point the program was
> telling me that it was not getting a position report therefore it was not
> displaying a bearing.  I did see NMEA sentences scrolling across the
> bottom of the screen and lat/long was changing but was ignored.

Forgive me if I'm wrong, but my first reaction is that the GPS rcvr
did not have a valid fix. Did the NMEA sentences have lots of commas
next to each other? Was the first character of them a "V"? This may
indicate it was still searching...BTW, in $GPRMC, a first character
of "A" usually indicates a valid fix (I think).

But then you said a GPS 45, it would have told you if it had a valid
fix...

> Any ideas on what I am doing wrong?
Never mind, I don't know why I'm sending this---maybe help someone
else...?
--
73, Paul, n0lrf@amsat.org
```

---

472. Re: [APRSSIG:7323] Re: Any NE New Jersey APRS on VHF?

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Mon, 16 Dec 1996 20:40:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612170140.UAA11807@itchy.mosquito.com>
Rendered body type: text/plain

```
At 10:12 12/16/96 -0600, N2CZF wrote:
>>I am planing a trip back to New Jersey in a couple of weeks, is there any
>>activity up there yet. I have not been up there in 18 months and at that
>>time I got occasional coverage running 50 watts.
>>
>>I will be in Morris, Bergen, and Passaic County for about 1 week but this
>>time I will only be able to bring a HT and mag mount. Is it worth while for
>>me to even bother ? I am trying to travel light due to the holiday mess at
>>the airports!
>>
>>
>
>

Then Mark wrote:
>
>Rich
>
>Naw, there aint much up hear, I only get about 200 stations in about 3
>hours show up on my screen.  Thats not very much now is it.  After running
>a week, I had only 360 stations.
>
>
>Mark
>
```

W2HOB REPLY:

Then someone ought to inform those multitudes just how to beacon. Down here in SNJ, we only see WU2Z, KB2ICI, KB4CYC and not much else guys. I'm told that there's an N2MH-15 as a WIDE digi on West Orange... never see him...

Whatever happened to Mark Lehman, WO2J... never see him anymore... he had a Wx Station, Gateway, and QTH all showing at one time... key station too into NY.

Have fun es 73 de Boyd
w2hob@mosquito.com

---

473. Re: MS band opening

From: WB9WOZ@aol.com
Date: Mon, 16 Dec 1996 20:34:28 -0500
To: aprssig@tapr.org
Message-ID: <961216203421_1425024441@emout07.mail.aol.com>
Rendered body type: text/plain

I think I didn't word my first post as well as I should have.

This is in reference to the stations received on Friday night 12/13/96 at
approx
2315 to 2355 CST.
I was not running in the Meteor Scatter mode. I was running MacAPRS, (sorry Bob) unfortunately with the logging turned off. If it was a terrestrial band opening as Steve says, It was ONE HECK OF ONE, that just happened to coincide with the peak of the meteor shower.

Either way, from my QTH, it skipped Indiana,Michigan & Ohio, and was confined to Tennessee,Alabama,Georgia and the NE tip of Florida.

If it was a band opening, did the Chicago area stations also show up in the Southeast?

Bruce Tobias
WB9WOZ@aol.com
Northern Illinois APRS Network (NIAN)

---

474. $GPRMC Sentences

From: bbliss@juno.com (William B. Bliss)
Date: Mon, 16 Dec 1996 20:34:19 EST
To: gbaumgartner@mail.cybg.com
Cc: aprssig@tapr.org, wb4apr@amsat.org
Message-ID: <19961216.173403.2287.1.bbliss@juno.com>
Rendered body type: text/plain

Attn SIGars,

My apologyes for the big typing error, please forgive an ageing old man, with artheritic fingures and poor eyesight. The examples that appeared in error was due to my typing.

NO bug in Dos APRS. Mistakes happen. (CACA PASA) .

Below are some exact examples off the air as transmitted packets, and my typed in as appears on the APRS Position log file.. Both RMC and GGA sentences..

Hope this corrects your doubts... Sorry ...

Packet texts off the air as sent:

```
W7KKE-15>WIDE*>WIDE>GATE>GATE>WIDE>APRS:
$GPRMC,000100,A,3734.19,N,12215.95,W,22.1,225.0,171296,16.,E*5E

KO6JR-9>WIDE*>WIDE>APRS:
$GPRMC,000303,A,3758.924,N,12220.325,W,000.0,173.1,161296,015.8,E*66

W1CDM>WIDE>WIDE>GATE>GATE*>WIDE>APRS:
$GPGGA,001453,3249.337,N,11657.777,W,1,6,001.3,118,M,-035,M,,*7C

KE6KEQ-9>WIDE*>WIDE>APRS:
$GPGGA,003518,3756.896,N,12230.758,W,1,07,1.1,-11.8,M,-27.8,M,,*65
```

On APRS posit log, different position than above.

```
W7KKE-15  161642 @170042Z3734.25N/12215.02Wv044/30./raw*RMC Fix

KO6JR-9   161648 @170048z3759.17N/12219.99W>331/008/raw*/RMC Fix

W1CDM     161634 @170034z3249.33N/11657.77W/GGA/NUL/raw*/GGA FIX/A=000383
-------------------------------------------

   73's & Enjoy, Bill/WB6LPG    (My intentions were right)

NNNN
```

475. Rad Shack...

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 16 Dec 1996 19:41:15 -0800
To: aprssig@tapr.org
Message-ID: <32B6165B.661B@amsat.org>
Rendered body type: text/plain

Richard Amirault wrote:

> Give them time ...

That COULD sound like inside information...

Anyone have insight on their new WX staion? What kind of
data does it spit out? Can it work with APRS?

My 3-year-old Ultimeter II now has erratic wind speed
readings and is plagued by HF transmission RFI.

--
73, Paul, n0lrf@amsat.org

476. Re: Gateway TNC after AEA Demise?

From: Robert Jordan <n5rkn@apex2000.net>
Date: Mon, 16 Dec 1996 19:49:39 -0600
To: aprssig@tapr.org
Message-ID: <32B5FC33.59E5@apex2000.net>
Rendered body type: text/plain

```
Richard Amirault wrote:
>
> On Mon, 16 Dec 1996, Chris Terwilliger wrote:
> >
> > Why hasn't Radio Shack entered the TNC and/or GPS arena??
> > Not enough profit margin I guess...
>
> Give them time ...
>
> Richard Amirault              N1JDU           Boston, Massachusetts USA
> amirault@tiac.net        "Go Fly A Kite"

Perhaps you'll see them enter the GPS market, but probably not tncs.
I fully expect them not to expand their amateur market in the near
future.  From reports, sales have dropped off dramatically in amateur
gear for them.  They are closing out their 440 h/t with no plans on
a newer version.  Perhaps what has hurt them is what has hurt most of
the market out there.... internet.
  Robert
```

477. Re: [APRSSIG:7343] Re: MS band opening

From: Rob Swanson <rswanson@csinet.net>
Date: Mon, 16 Dec 1996 20:02:08 -0600
To: aprssig@tapr.org
Message-ID: <32B5FF20.39C4@csinet.net>
Rendered body type: text/plain

```
WB9WOZ@aol.com wrote:
>
> I think I didn't word my first post as well as I should have.
>
> This is in reference to the stations received on Friday night 12/13/96 at
> approx
> 2315 to 2355 CST.
> I was not running in the Meteor Scatter mode. I was running MacAPRS, (sorry
> Bob) unfortunately with the logging turned off.  If it was a terrestrial band
> opening as Steve says, It was ONE HECK OF ONE, that just happened to coincide
```

> with the peak of the meteor shower.
>
> Either way, from my QTH, it skipped Indiana,Michigan & Ohio, and was confined
> to Tennessee,Alabama,Georgia and the NE tip of Florida.
>
> If it was a band opening, did the Chicago area stations also show up in the
> Southeast?
>
> Bruce Tobias
> WB9WOZ@aol.com
> Northern Illinois APRS Network (NIAN)

I also Had several staions come in during that time from Alabama,
Georgia, and across Florida Several on the panhandle and a few further
south.

Rob Swanson (N9RVR)
rswanson@csinet.net
La Porte IN.

---

478. Re: [APRSSIG:7315] Re: Smallest gps-ant-tx..??

From: etjm@ECUA.NET.ec (teodoro jaramillo)
Date: Mon, 16 Dec 1996 21:13:10 -0500
To: aprssig@tapr.org
Message-ID: <9612170211.AA47522@ecua.net.ec>
Rendered body type: text/plain

Hello friends...H E L P needed....
Local CIvil Defense has requested since I am only Ham running
APRS-GPS in Ecuador, that I supply the possibility of acquiring
the "smallest-light weight   GPS ANT AND A TX VHF OR UHF TX
 to fly it on a   1/4 scale r/c model plane and observe
and
measure if possible some coordinates within the observation
by air   area and or areas.....

I know most of you can help out with the information on
brand, model, size, weight, of GPS and perhaps just a TX which
will bring inthe information into   APRS of course.

It will also only be flown for 20-30 minutes depending on FUEL
weight etc.

There may be also a   very small camera on board if it all
is kept SMALLEST system......
 Thanks a lot and will watch the flow.. forthcoming......

TED HC5K   02 55 65 s   079 00 56 W
RUNNING: PACCOM   TINY-2 GPS AND KAM GATE INTO APRS AT
 10.151 LSB 100 WATTS. DIPOLE.. LATELY LOW CONDITIONS DOWN
HERE...
 THANKS A LOT.

>I have a fibeglass top on the K-5 and a roll bar inside. I put my antenna
>on top of the bar. NO PROBLEMS!!!
>
>
>
>On Fri, 13 Dec 1996, William Nolle wrote:
>
>> Steve Dimse wrote:
>> >
>> > >I've been following the mail about the tripmate and I am wondering if it
>> > >is possible to modify it to use an external antenna. I don't quite like
>> > >the idea of setting it on the dashboard for several reasons, especially
>> > >because of its bright color. Please, I would like to find out before I
>> > >go out and purchase one.
>> > >

```
>>
>> Why would anyone want a external antenna for the Tripmate, If so why not
>> just glue some magnets on the bottom of the receiver and place it on top of
>> the vehicle it looks like it's water tight. Personally with what testing I
>> have done with the receiver on the dash works just great in fact much
>> better then my Magellan ever did.
>> --
>>       \////
>>       (0 0)
>>  *--o0-(_)-0o--*
>>  wa8inz@amsat.org
>>  wa8inz@cris.com
>>
>
>
>
```

479. Re: [APRSSIG:7345] Rad Shack...

From: "John R. Moore" <w4ue@pobox.com>
Date: Tue, 17 Dec 1996 02:34:17 -0500
To: aprssig@tapr.org
Message-ID: <32B64CF9.134E@pobox.com>
Rendered body type: text/plain

```
Paul Stump wrote:
>
> Richard Amirault wrote:
>
> > Give them time ...
>
> That COULD sound like inside information...
>
> Anyone have insight on their new WX staion? What kind of
> data does it spit out? Can it work with APRS?
>
> My 3-year-old Ultimeter II now has erratic wind speed
> readings and is plagued by HF transmission RFI.
>
> --
> 73, Paul, n0lrf@amsat.org
Has anyone been able to find a RAD SHACK weather station yet.
All the stores I have contacted here in Jacksonville Fl say
Dont have it dont know when.
John W4UE
```

480. Re: [APRSSIG:7310] KAM and KAM+ Observations

From: David Wells <davew@cruzio.com>
Date: Mon, 16 Dec 1996 20:48:19 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612161832.aa26393@bbs.cruzio.com>
Rendered body type: text/plain

```
I have recently been using my KAM+ on HF. I found the sensitivity to be best
when I grounded the external CD line, but it would not TX. I guess APRSdos
found the frequency to be busy when used in this way. I changed the CD to
software and it would TX fine but sensitivity was not as good. I also have a
DSP59+ in front of it. I use FSK on TX not AFSK. Would appreciate any sig
reports.

I usually use it for working RTTY and find I can copy sigs into the noise.
The DSP helps here.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

481. Re: [APRSSIG:7346] Re: Gateway TNC after AEA Demise?

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Mon, 16 Dec 1996 18:51:50 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961216185007.23533A-100000@oso.slonet.org>
Rendered body type: text/plain

```
So who gives a good damn what RadioShack thinks!  They have NEVER cared
what ham radio is about and could care less!!  Cliff K7RR
```

```
On Mon, 16 Dec 1996, Robert Jordan wrote:

> Richard Amirault wrote:
> >
> > On Mon, 16 Dec 1996, Chris Terwilliger wrote:
> > >
> > > Why hasn't Radio Shack entered the TNC and/or GPS arena??
> > > Not enough profit margin I guess...
> >
> > Give them time ...
> >
> > Richard Amirault              N1JDU            Boston, Massachusetts USA
> > amirault@tiac.net        "Go Fly A Kite"
>
> Perhaps you'll see them enter the GPS market, but probably not tncs.
> I fully expect them not to expand their amateur market in the near
> future.  From reports, sales have dropped off dramatically in amateur
> gear for them.  They are closing out their 440 h/t with no plans on
> a newer version.  Perhaps what has hurt them is what has hurt most of
> the market out there.... internet.
>   Robert
>
>
```

---

482. Re: [APRSSIG:7347] Re: MS band opening

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 16 Dec 1996 21:46:53 -0800
To: aprssig@tapr.org
Message-ID: <32B633CD.3D76@amsat.org>
Rendered body type: text/plain

```
Rob Swanson wrote:
>
> WB9WOZ@aol.com wrote:

> > This is in reference to the stations received on Friday night 12/13/96 at
> > approx
> > 2315 to 2355 CST.
> > I was not running in the Meteor Scatter mode. I was running MacAPRS, (sorry
> > Bob) unfortunately with the logging turned off.  If it was a terrestrial band
> > opening as Steve says, It was ONE HECK OF ONE, that just happened to coincide
> > with the peak of the meteor shower.

> I also Had several staions come in during that time from Alabama,
> Georgia, and across Florida Several on the panhandle and a few further
> south.

Wrote in my notes of 12-12-96 (Thursday), evening: "Band opening, seeing
stations from AR, IL & TN! Via WIDES, not gates..." On 145.790 MHz.

--
73, Paul, n0lrf@amsat.org
```

---

483. Re: [APRSSIG:7348] Re: Smallest gps-ant-tx..??

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 16 Dec 1996 22:06:59 -0800
To: aprssig@tapr.org
Message-ID: <32B63883.7DF@amsat.org>
Rendered body type: text/plain

```
teodoro jaramillo wrote:

> the  "smallest-light weight   GPS ANT AND  A TX VHF OR UHF TX
>  to fly it on a   1/4 scale  r/c  model plane and observe
> measure if possible some coordinates within the observation
> by air   area and or areas.....
>
> I know most of you can help out with the  information on
> brand, model, size, weight, of  GPS and  perhaps just a  TX which
> will bring inthe information into    APRS of course.

I will highly recommend the Clement MIM module as a small,
light-weight "TNC" for transmitting GPS data (no receive),
but works without fail. See:
http://www.home.navisoft.com/agrelo/clement.htm

The Agrello HPVFC VHF transmitter (very small & light) looks
like a good choice for your needs. I have no experience with
```

```
it however. See:
http://www.home.navisoft.com/agrelo/ae.htm

--
73, Paul, n0lrf@amsat.org
```

---

484. Re: Gateway TNC after AEA Demise?

```
From: rgervenack@juno.com (Robert W Gervenack)
Date: Mon, 16 Dec 1996 11:59:16 pst
To: aprssig@tapr.org
Message-ID: <19961216.200933.11695.0.rgervenack@juno.com>
Rendered body type: text/plain
```

```
The PK-232 uses a converter from 1200 to 300 baud for HF.
And of course 300 to 1200 baud converter.
Need say more?
Good luck.
73 Gervie. W7FEN. rgervenack@juni.com

On Mon, 16 Dec 1996 12:10:21 -0600 (CST) Ross McClain
<aa0mm@cjnetworks.com> writes:
>schiers@ames.net wrote:
>>
>> In <199612132031.PAA03262@unix.asb.com>, on 12/13/96 at 02:13 PM,
>>    bob <w2g3zfj@unix.asb.com> said:
>>
>> >I used a PK232 initially but for the last 3 years of GATE operation
>I
>> >have used the Kantronics KAM Plus with both dosAPRS and for the
>last 6
>> >months with winAPRS with no problems. Works fine.
>>
>> Now that is a novel thought! How can the 232, which doesn't support
>dual
>> port (simultaneous) operation be used as a dual port gateway tnc? I
>have
>> one sitting here with the latest firmware and I see no indication
>that it
>> has any prayer of working in that mode.
>>
>> Thanks so much for your 2nd comments about the Kam +...that is
>exactly the
>> kind of info I was looking for: "I have one, I use it the way you
>intend
>> with the software you are going to use and it works." I couldn't
>have
>> asked for more. At least now I know when the 2232 craps out and it
>can't
>> be fixed, (also knowing it will no longer be supported), I can go
>get a
>> KAM + and be happy. I hope the KAM + is a good performer.
>>
>> Actually, it is a bit of a joke to say AEA ever supported the 2232.
>They
>> misrepresented its development from the first day. Made excuses,
>blamed
>> others and promised the moon. They delivered on very little, except
>some
>> very minor prom upgrades. They blew it. A marvelous dsp engine is
>inside
>> that thing and they botched it.
>>
>> If I seem bitter...I am. 1 kilobuck in the toilet.
>>
>> I would be very interested to hear about the KAM + performance on hf
>and
>> any other feedback about using it in gateway dual port mode with
>WinAPRS.
>>
>> 73,
>>
>> hasan schiers, N0AN
>> -----------------------------------------------------------
>> schiers@ames.net
>> -----------------------------------------------------------
>
>Go to Kantronics.com and ask them direct!
>
>
```

>

485. Re: [APRSSIG:7281] Re: Remote Ultimeter

From: "Gary Wells" <gwells@nbn.net>
Date: Mon, 16 Dec 1996 23:31:32 -0500
To: <aprssig@tapr.org>
Message-ID: <199612170432.XAA25562@mail.nbn.net>
Rendered body type: text/plain

> From: Steve Dimse <sdimse@bridge.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7281] Re: Remote Ultimeter
> Date: Sunday, December 15, 1996 10:59 AM
>
> Looks like the recieved data on the U-II tnc is getting sent to the U-II,

> where it is echoed back to the tnc mixed with the U-II data. Fastest fix,

> try setting FLOW ON on the U-II TNC, could also break the rs-232 data
> going out of the tnc into the U-II.
>
> Steve K4HG

FLOW was on, ECHO was off. However, following your other idea, I
disconnected the resistor on the U-II interface cable 25 pin plug from pin
2...problem solved!!!
I'm not sure what purpose, if any, the resistor serves in this application,
but it's been working perfectly for 24 hours.

Thanks much!!!
Gary N3HCP

486. re: Saturday DX

From: Jack LeBreton <bm670@freenet.toronto.on.ca>
Date: Mon, 16 Dec 1996 23:54:42 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9612162331.B1072-0100000@queen>
Rendered body type: text/plain

**

487. Re: [APRSSIG:7353] Re: Smallest gps-ant-tx..?? URL correction

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 17 Dec 1996 00:17:21 -0800
To: aprssig@tapr.org
Message-ID: <32B65711.1887@cris.com>
Rendered body type: text/plain

Paul Stump wrote:

> http://www.home.navisoft.com/agrelo/clement.htm (WRONG)

http://home.navisoft.com/agrelo/clement.htm (CORRECT)

> http://www.home.navisoft.com/agrelo/ae.htm (WRONG)

http://home.navisoft.com/agrelo/ae.htm (CORRECT)

Thanks!

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

488. Re: [APRSSIG:7083] NMEA/GPS questions...

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Tue, 17 Dec 1996 05:17:47 +0000

To: aprssig@tapr.org
Message-ID: <32B62CFA.7A2@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Don Pfister KA0JLF wrote:

>
> I see the NMEA GPS lat/long is in ddmm.mmmm format. Are these truely decimal minutes? Would .0001 be .0001 of a minute?

Yes, but not all receivers return 4 digits to the right of the decimal point.

> Does this sound right? From the refernces I have found, it says one degree is made up of 60 minutes. One minute is made of 60 seconds. It says one second at the equater is 1 nautical/geographic mile. One nautical mile is 6080 feet. So 60 x 6080 = 364800 feet (at the equator - long. I think). Now .0001 x 364800 = 36.84 feet. Am I on the right track? If so what do you do when you move away from the equator? What about Lat.?

The units conversion question comes up frequently, so here are some tips and definitions that may help. I prefer to make use of the fundamental definitions of quantities which are:

(a) The original definition of the meter from the 1800's (which is still correct to better than one part per million) is that the meter is 1/10,000,000th of the distance from the pole to the equator (i.e. 90 degrees of Latitude)along the meridian of Paris. So by simple units conversion we get:

90 degrees of latitude = 10,000 km
or 1 degree of latitude = 10,000/90 = 111.11111 km
or 1 arc minute of latitude = 111.1111*1000/60 = 1851.8518 meters

(b) As an aside, the definition of the Nautical Mile is (as you indicated):
1 degree of latitude = 60 NM
or 1 arc minute of latitude = 60/60 = 1 NM

(c) The definition of the "legal" inch and foot are:
1 meter = 39.3700000 inches = 3.2808333 feet

(d) Combining (a) and (d), I get:
1 minute of latitude = 3.28 * 1852 = 6075.62 feet

(e) If the earth were a sphere (it isn't quite), then at the equator the distances would be the same as in latitude. At 40N or 40S, we would have 1851.9*cos(40)=1418.6 meters or 6075.6*cos(40)=4654.2 feet per arc minute.

While I'm doing a tutorial, let me note that the earth is >>NOT<< a sphere and that these figures are >>SLIGHTLY<< incorrect for arcs of longitude. The earth is in fact an oblate (flattened) spheroid with an equatorial radius of 6378.16 km and a polar radius that is ~22 km smaller (reduced by a factor of (1 - 1/298.25) to 3956.77 km. When the "true" equatorial radius is used to express east-west distances (in Longitude), we find that one arc minute of Longitude at the equator is 1855.3 meters = 6087.3 feet.

When we apply the cosine(Latitude) correction, we get the following table:

		------ Longitude Distances --------	
Latitude	Cos(Lat)	meters/arc minute	feet/arc minute
0	1.0000	1855.33	6087.03
10	.9848	1827.14	5994.56
20	.9397	1743.44	5719.94
30	.8660	1606.76	5271.53
40	.7660	1421.27	4662.94
50	.6428	1192.58	3912.67
60	.5000	927.67	3043.52
70	.3420	634.56	2081.89
80	.1736	322.17	1057.00
90	0	0	0

Answering your other question, The NMEA messages from most receivers have a
precision (but certainly not accuracy) of 0.001 arc minutes (i.e. ddmm.mmm
format) corresponding to distances of ~1.5 meters or ~5 feet; but some have
one more digit in their NMEA reports (ddmm.mmmm with the smallest digit
~15 cm or ~6 inches) and I've seen some with reports to only .01 minutes
(ddmm.mm, corresponding to ~15 meters or ~50 feet). The NMEA specification
does not require a particular precision for the Lat/Lon report.

You used the "conventional" 6080 feet = 1 NM definition. This gives an
approximation to the usual assumption that "60 NM = 1 degree". But from
the numbers above you can see that the "correct" value is more like 6075
feet in latitude and somewhat larger (6087 feet) at the equator for one
arc minute. But the numbers are close!

Sorry to be slow getting this out -- I was in Japan all last week! Hope the
tutorial helped -- 73 de Tom, W3IWI

---

489. Re: [APRSSIG:7138] Garmin GPS20 Problem

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Tue, 17 Dec 1996 05:27:02 +0000
To: aprssig@tapr.org
Message-ID: <32B62F26.4D65@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Chan Siu Kwing Albert wrote:
>
> Hello everybody!
> I live on a compartment type building in Hong Kong and I had bought a
> GPS 20 from TAPR. Only one side of my flat open to air and here I setup
> a Maldol HDX-30 wide band antenna (100Mhz - 1500Mhz) to the GPS 20. I
> had tried both the GPSy and MacAPRS GPS related program. I get nothing
> from the GPSy and I saw that the percentage good box increased at the
> heads up dispaly from the MacAPRS at the first time. But after that I
> got nothing change again. I had tried the programs many times and at
> different time slot. I make sure that both the program receive data from
> the GPS. Below is some data collected from a NMEA log:

```
> $GPRMC,165546,V,,,,,,,111296,,*38
> $GPGGA,165546,,,,,0,00,,,M,,M,,*63
> $GPGSA,A,1,,,,,,,,,,,,,,,,*1E
> $GPGSV,1,1,01,03,00,000,,,,,,,,,,,,*4B
> $PGRME,,,,,,*4D
> $GPVTG,,T,,M,,N,,K*4E
```

> Only the time field changes all the time. Does the GPS 20 have problem
> or I collect no data from the air under my testing condition?

These messages indicate that you are not receiving any GPS satellites.
The long strings of ,,,,,,, nulls will disappear and numbers will be
in the fields when it is working. The GGA and RMC messages will have
your lat/lon in them, and the GSV message will show the Az/El/SNR for
the satellites you have in view.

73, Tom

---

490. Re: [APRSSIG:7187] Re: Tripmate ext. antenna?

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Tue, 17 Dec 1996 05:39:11 +0000
To: aprssig@tapr.org
Message-ID: <32B631FF.2496@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Alan Crosswell wrote:
>
> Eric wrote:
>
> >Basically you need to dig the unit out of the box, disconnect
> >the patch antenna, and rig up a connector.
>
> >The problem is that there is no voltage supply for a preamp. There
> >is the network for it, but from the material on the chip set I read the
> >....
>
> Isn't it just the case of capacitively coupling the antenna feedline
> to the GPS and putting some DC on it?

```
>
> ---| |---+------> coax toward remote antennna
>          |
>          +--- +V
>
> Presumably, if you're going to this much trouble to void your warranty
> you've already added an external power source...
>
> Don't flame me too hard if I am off base here.  I do admit being
> weeded out of EE very early (Omar Wing's Circuits class) and going
> into CS:-)  EE's know what CS really stands for.
>
> 73 de Alan N2YGK
```

I don't know about the Tripmate side of things, but on the RF side,
I'd strongly advise that you put a small RF choke between the coax
and the +V connection so as to not present too wierd an impedance to
the antenna/preamp.

A suitable RF choke for the L-band (1575 MHz) frequency can be made
with a 2" long piece of #30 wire-wrap wire wound on a 1/16" drill bit.
You'll get about 8 turns out of the length. A drop of fingernail polish
or superglue will hold the choke together.

73, Tom

---

491. Re: Saturday DX

From: Jack LeBreton <bm670@freenet.toronto.on.ca>
Date: Tue, 17 Dec 1996 00:42:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9612170004.A27068-0100000@sheppard>
Rendered body type: text/plain

Fellow SIG members:
        I have been following the discussion re: meteor scatter DX ever
since Bwana Bob reminded us that the shower was to have been last
weekend. Below is a portion of my log from Saturday
(14 Dec) morning (9AM EST). This looks like a great DX at that time.
        I'm just outside of Toronto (west) and couldn't believe my map.
What a mess!

        Also included is the "heard log" from the overnight monitoring.
Great DX.! Anyone see themselves??

        73 de Jack VA3JAX

```
--------------------------------------------------------------------------------------------------------
--------------------
p,VE3NEC    140929 /132139/4339.10N/07956.40W-John in Georgetown @ VE3INF
p,VE3HVS    132344 /131800/4258.96N/07914.38W-Denis in Welland  @VE3SNP-BBS-
p,VE3MX-5   140928
@140932/4253.01N/07919.11W_092/000/T036/R000p000b0311h71g002U2k
p,VE3KFK    140925 !******/4421.17N/07844.35W#PHG4660/WIDE-RELAY Lindsay
APRS Digi
p,VE3GTU    140720 /082327/4333.79N/08003.20WrSolar powered Test Beacon
p,N2NPR-10  140926 !******/4252.39N/07851.19W#PHG6480/WIDE-RELAY MICROTEC
BUFFA
p,VE3TRJ    140926 /122240/4340.99N/07945.23W-Bryan, ve3trj@ve3inf
p,VE3LSR    140924 !******/4432.20N/07940.24W#PWR6700/WIDE-RELAY LK.
SIMCOE RPT AS
p,KE2VW-3   140929
@140929/4238.76N/07834.88W_313/004/T044c932x000b0000h00U2kr
p,VE3AZD    132334 @132333/4339.82N/07932.BOW-stan in Etob.
p,VE3HFD    140929 @140930/4302.72N/07917.68W-Ian in Fonthill @ VE3SNP
p,VE3YUF    140928 /132004/4302.40N/07917.56W-Sean in Fonthill
p,VE3YAP    140921 !******/4351.45N/08011.37W#PHG5760/WIDE-RELAY
S.O.P.R.A. APRS d
p,VE3YYZ    140921 !******/4338.92N/07922.91W#PHG5760/WIDE-RELAY 1000
Feet Above T
p,AA2AC-2   140929
@140929/4259.21N/07839.48W_229/001/T036c784x160b0333h12U2kr
p,VE3ADJ    140916 /121707/4412.30N/07842.30W-Bob in Janetville
p,VE3DKQ    140929 @140942z4335.08N/07946.44W-PHG7290/KEN IN MISS. VE3ADT
444.125
p,VE3PLF-3  140920 !******/4331.69N/08031.35W#PHG2340/WIDE COBRA test
digi Kitchen
p,VE3RPT    140920 !******/4401.80N/07904.50W#Pwr4641/WIDE-RELAY Toronto
FM Commun
p,VA3MW     140851
```

```
@141425z4332.80N/07935.85W_247/001/T038/R000p000g000UIIauto)
p,VE3GTU-1  140924 /081044/4344.01N/07924.90W-Andrew in Toronto
p,VA3HOI    132356 @140003/4510.68N/07917.38W_360/001/t 34/D
0b1014/R000/WX rept
p,VE3UDU    140032 @132328/4422.04N/07939.17WyPHG2398/APRS77E ON
LINE..LARRY IN BA
p,VE3UEX    140842 /130938/4422.33N/07940.87W-DAVE VE3UEX IN BARRIE
p,N2CZF     140920 @140914/2654.66N/08013.67W&Rich in Jupiter Farms Florida
p,K4HG      140846 @141348z2439.65N/08128.90WMPHG9160/Steve, Cudjoe Key
-267-<48>0
p,NP2IJ     140809 @140812/2654.27N/08013.33Wy Derick,Jupiter Farms,EL96VV
p,W3BLW     140724 @140723/2751.31N/08242.11W - George Pinellas Park, Fl
p,VE3VRW    140921
@141422z4342.38N/07914.65W_319/000/T038/R000/P000/B029/H2855/G0
p,VA3DHR    140142 /131849/4301.05N/07916.97W-don in fonthill
p,KP3S      140821
@141318z1822.18N/06608.20W_178/001/T076/R000/P000/B014/H000/U2a
p,WD5CWZ    140249 @140149/3049.19N/09505.28W&PHG7250/Mike at Onalaska, Texas
p,VE3SXK    140251 @140252z4326.16N/08027.27W-NewUser
p,WA5ZAI    140212 @140712z3138.30N/09729.75WZPHG5290/WinAPRS -100-<410>
p,W2GV      140544 !******/4301.08N/07731.79W# Rochester's path to the
Finger Lake
p,N2VJV     140556 @141056z4229.31N/07620.33W-PHG3230/Howard -
Freeville,NY FN12tl
p,W2HE      140546 /122314z4236.43N/07633.20W#WIDE-RELAY ITH/ROC DIGI
p,KE3WA     140716 @141216z4016.00N/07515.00W&PHG3000/Sean - Phil., PA.
-117-<520>
p,N0TZV     140756 @141156z2747.99N/08247.16W-Hi from Madeira Beach,Fl de
George
p,N0AN      140859
@141400z4158.25N/09333.36W_184/008/T094/R000/P000/B023/H.../G01
p,VE3FGK    140929 @140929/4342.32N/07942.28W-Dave in Bramalea @ VE3INF
p,W6PNC-7   140854 @140858/3358.60N/08417.84W&John's Gateway in Dunwoody, GA
p,KQ4TV     140850
@141352z3610.61N/08635.50W_022/000/T034/R000/P000/G000/ UII(aut
p,VE3DOH    140924 @140903/4254.71N/07936.55W_PHG5240/t 41b0159/R.00/WX rept
p,VE3NP     140923 @141428z4502.54N/07936.44W&Gateway to Muskoka,Ont
HF<>VHF144.39
------------------------------------------------------------------------------------------------------
--------------------
r,TIME * TICK:12-14-1996 09:00:04
h,TIME      , 23  0  1  2  3  4  5  6  7  8  9 , 999
h,VE3NEC    , 12  12  11  12  12  12  12  12  11  12  6 , 999
h,VE3HVS    , 3  0  0  0  0  0  0  0  0  0  0 , 999
h,VE3MX-5   , 7  3  9  7  8  8  6  8  6  8  5 , 999
h,VE3KFK    , 7  6  6  7  6  7  6  6  8  5  2 , 999
h,VE3GTU    , 5  3  3  3  2  3  8  4  3  0  0 , 999
h,N2NPR-10  , 5  5  7  5  5  6  6  7  7  4  4 , 999
h,VE3TRJ    , 11  4  4  2  0  4  10  6  7  7  4 , 999
h,VE3LSR    , 3  3  4  4  4  4  2  5  5  6  2 , 999
h,VE3AZD    , 10  0  0  0  0  0  0  0  0  0  0 , 999
h,VE3HFD    , 8  11  15  10  18  13  11  9  12  6  8 , 999
h,VE3YUF    , 8  8  6  7  9  11  9  8  10  6  3 , 999
h,VE3YAP    , 5  8  8  7  6  7  6  6  7  6  3 , 999
h,VE3YYZ    , 14  14  18  16  16  14  19  18  15  15  7 , 999
h,VE3DKQ    , 8  18  18  7  9  8  10  8  12  15  5 , 999
h,VE3ADJ    , 3  2  3  3  3  1  1  2  3  2  1 , 999
h,VE3PLF-3  , 2  2  3  4  4  3  2  3  3  2  1 , 999
h,VE3RPT    , 2  4  1  3  4  2  3  3  2  2  2 , 999
h,VA3MW     , 5  10  8  9  8  7  10  9  5  11  1 , 999
h,AA2AC-2   , 3  3  4  4  4  3  4  4  4  1  2 , 999
h,VE3VRW    , 1  5  2  5  5  3  4  4  3  4  1 , 999
h,VE3GTU-1  , 1  1  2  1  1  2  1  1  2  1  1 , 999
h,KE2VW-3   , 1  3  2  2  4  2  3  2  2  4  1 , 999
h,VA3HOI    , 3  0  0  0  0  0  0  0  0  1  0 , 999
h,VE3UDU    , 0  3  0  0  1  0  0  0  0  0  0 , 999
h,VE3IFR    , 0  1  0  0  0  0  0  0  0  0  0 , 999
h,VE3UEX    , 0  1  0  1  0  1  0  1  0  1  0 , 999
h,N2CZF     , 0  4  6  15  8  3  0  0  3  0  1 , 999
h,K4HG      , 0  1  0  0  0  0  0  0  0  1  0 , 999
h,NP2IJ     , 0  2  8  4  5  1  0  0  0  2  0 , 999
h,W3BLW     , 0  2  5  0  1  0  0  0  1  0  0 , 999
h,VA3DHR    , 0  0  24  0  0  0  0  0  0  0  0 , 999
h,KP3S      , 0  0  1  0  0  0  0  1  0  2  0 , 999
h,WD5CWZ    , 0  0  1  2  1  0  0  0  0  0  1 , 999
h,VE3SXK    , 0  0  2  4  0  0  0  0  0  0  0 , 999
h,WA5ZAI    , 0  0  0  1  0  0  0  0  0  0  0 , 999
h,WB5TKI    , 0  0  0  1  0  0  0  0  0  0  0 , 999
h,K4HG-2    , 0  0  0  1  0  2  0  0  0  0  0 , 999
```

```
h,W2GV      , 0  0  0  0  2  0  1  0  0  0  0 , 999
h,N2VJV     , 0  0  0  0  1  0  2  0  0  0  0 , 999
h,W2HE      , 0  0  0  0  0  1  1  0  0  0  0 , 999
h,KE3WA     , 0  0  0  0  0  0  0  0  1  0  0 , 999
h,N0TZV     , 0  0  0  0  0  0  0  0  1  0  0 , 999
h,N0AN      , 0  0  0  0  0  0  0  0  0  2  0 , 999
h,VE3FGK    , 0  0  0  0  0  0  0  0  0  10  3 , 999
h,W7LUS-14  , 0  0  0  0  0  0  0  0  0  1  0 , 999
h,KB2LML    , 0  0  0  0  0  0  0  0  0  1  0 , 999
h,W6PNC-7   , 0  0  0  0  0  0  0  0  0  3  0 , 999
h,KQ4TV     , 0  0  0  0  0  0  0  0  0  1  1 , 999
h,VE3DOH    , 0  0  0  0  0  0  0  0  0  27  19 , 999
h,VE3NP     , 0  0  0  0  0  0  0  0  0  0  6 , 999
```

---

492. Re: [APRSSIG:7289] Re: homemade patch antenna

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Tue, 17 Dec 1996 05:51:57 +0000
To: aprssig@tapr.org
Message-ID: <32B634FD.253F@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
Tyler Parsons wrote:
>
> Where can one get the MINI-CIRCUITS MAR-6 preamp for construction of
> a GPS patch antenna? In small quantities (1).
>
> Tyler Parsons PLS  WB7DDL     USMA '68
> tparsons@peak.org    Corvallis, Oregon
> http://www.peak.org/~parsont/
> Ray Bradbury: "We are an impossibility in an impossible universe."

Check MiniCircuits web site:

   http://www.minicircuits.com

Instead of the older MAR-6 you might want to consider the newer ERA-3
MMIC -- it has ~20 dB gain and better noise figure. You do have to
use a different biasing resistor in the +Vcc line (MAR-6 typically
uses ~100-120 ohms for +5v, ERA-3 needs ~39 ohms).

73, Tom
```

---

493. TAC-2 & TripMate

From: "Tom Clark (W3IWI)" <clark@tomcat.gsfc.nasa.gov>
Date: Tue, 17 Dec 1996 06:08:31 +0000
To: aprssig@tapr.org
Message-ID: <32B638DF.5183@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

```
Eric A. Cottrell wrote:
>
> Hello,
>
> But hacking is half the fun!
>
> Actually if someone wants all that stuff the "Jupiter" board that is
> the tripmate's big brother can be bought for about $220.
>
> It is 5 volts DC power onlyand  has 1 PPS output, antenna power input.
> external antenna connection, DGPS input and the lot.
>
> It is just a PC board with connector.  You furnish the dc power regulator.
> antenna, MAXUM RS-232 chip, and case.
>
> 73 Eric eac@shore.net

You might want to scan the status report for my "Totally Accurate Clock"
project on the TAPR web site:

     http://www.tapr.org/tapr/html/tac2.html

The TAC-2 kit (Real! Soon! Now! [I hope]) has the power regulator,
MAX232,
etc and is intended (in part) as a "universal" mounting board for GPS
receivers. It is designed for "plug 'n play" mounting of the Garmin
GPS-20,
Motorola ONCORE and Trimble SK-8 receivers, and it has solder pads and
options
for any other receiver you can think of.
```

It looks like we will/may be able to get the ONCORE VP and possibly the
Trimble SK-8 receivers for about the price you mention for the Jupiter
if
there is any interest.

Regarding the power supply issues, the TAC-2 board has provisions to use
either a grungy, common 7805 chip or a small switching supply as an
option.
For those of you who are interested in the switching supply, the ones we
are using are made by Power Trends and they have a web site at

     http://www.powertrends.com

In particular, look at the PT5101 series 78xx drop-in replacements. They
deliver ~80-85% conversion efficiency at up to 1 Amp load. They also
have
a nice 1.5 Amp unit, the 78SR series that provides up to 1.5 amps. The
TAC-2 will take either the PT5101 or 78SR regulator. The PT5101 is in
stock (~$12) at DigiKey:

     http://www.digikey.com

Also, if you check all the right boxes on their web site and sound
legit,
Power Trends will send you a catalog and a free sample!

73, Tom
73, Tom

---

494. Re: [APRSSIG:7351] Re: Gateway TNC after AEA Demise?

From: Robert Jordan <n5rkn@apex2000.net>
Date: Tue, 17 Dec 1996 00:21:33 -0600
To: aprssig@tapr.org
Message-ID: <32B63BED.71F0@apex2000.net>
Rendered body type: text/plain

Clifford Buttschardt wrote:
>
> So who gives a good damn what RadioShack thinks! They have NEVER cared what ham radio is about and could care less!! Cliff K7RR
>
Jeez, Cliff. Get a grip. A long time ago, before Radio Shack was
"Radio Shack", they had some pretty good amateur gear. Then, as they
formed into Radio Shack, they had some interesting kits...you know..
build your own crystal radio. What a concept to today's hams! And
one more observation. Can you name another store..readily available
in most cities in the country where you can walk in and get a manual
to help "elmer" your friend..your neighbor..your spouse.. into
amateur radio? I think not. Let's not even talk about their re-entry
into the amateur market within the last 5 years with radio equipment.
Or their 2mtr h/t which has an excellent receive front end.
  No.. I don't work for Radio Shack, nor do I care for some of their
products. I just don't like to see anyone get a bum rap without looking
at all the facts and history. RS by far, is nothing more than a
simplistic neighborhood electronics store for the "average consumer".
Nothing more, nothing less. If you want quality Name Brand ham gear
(key word..Name Brand), then you shop elsewhere. Though, I daresay
that quite a few thousand hams out there are using RS h/t's with little
problems. RS is, as most companies are, run by corporate decisions
and marketing demands. If the demands show GPS to be worth their while,
they will market it. If the market shows a major drop in sales of
amateur gear, they will drop it...etc, etc.
 So, in essence, your statement that "They have NEVER cared what ham
radio is about and could care less" is a little unfair. You must have
had some bad experiences with them. Live with it. I don't care for
Yaesu, but I don't make a broad statement like that. There are too
many Yaesu owners that have never had problems.
  To the SIG: Sorry. Just had to get on the podium for a minute.
Thanks,
        Robert

---

495. Re: [APRSSIG:7360] Re: Tripmate ext. antenna?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 17 Dec 1996 07:32:36 -0400
To: clark@tomcat.gsfc.nasa.gov
Cc: Aprssig@tapr.org
Message-ID: <850825956-0-eac@shore.net>

Rendered body type: text/plain

Hello,

If you look on the back side of the tripmate board the capacitor and choke
are there. The choke connects to the RF chip and I believe that the power
feeds through the RF chip for some reason. It may be possible to figure
out
the input pin.

73 Eric eac@shore.net WB1HBU

496. RE: [APRSSIG:7314] Re: AEA demise.. TNC's

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Tue, 17 Dec 1996 08:20:06 -0500
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <01BBEBF3.1CFDDC80@gwyn.paccomm.com>
Rendered body type: text/plain

The remote commanding is coded and in preliminary testing. Not too much longer now.

From: Sam Nabkey, K8SN[SMTP:snabkey@k8sn.org]
Sent: Monday, December 16, 1996 12:24 AM
To: aprssig@tapr.org
Subject: [APRSSIG:7314] Re: AEA demise.. TNC's

On 15 Dec 96 at 16:43, schiers@ames.net wrote:

> I would buy from Gwyn in a second if he had the product. The
> only reason I hadn't mentioned PacComm was because they don't list,
> nor have I ever heard mentioned any dual port hf/vhf tncs, much less
> simultaneous operation.
>
> there is a vacuum in the market now, with only one vendor,
> Kantronics. I would much rather do business with Gwyn. They
> have been first rate with me, and I love their products.
>
> hasan schiers, N0AN
> --
> schiers@ames.net
> --
>

Don't forget REMOTE SYSOP stuff too. For those remote hilltop Stand
Alone Weather Stations and DIGI's that require a new BT or something
once in a while. This would also be handy for those Stand Alone
Trackers that get away without the right BT to display a symbol
during an event, had that before.

Of course that might not be in a Dualport model but maybe in the
unit that has two Serial Ports.

that before.

____

Sam Nabkey - K8SN (at home)
Internet: snabkey@k8sn.org
amprnet: k8sn@w8dc.ampr.org
WWW: http://www.k8sn.org
AX.25: K8SN@W8DC.#SWMI.MI.USA.NOAM
Java APRS: http://www.k8sn.org/javAPRS
Fresh APRS Files: FTP ftp.k8sn.org

497. Re: [APRSSIG:7334] Re: APRS/Java ..

From: Gary Arnold <garnold@naples.net>
Date: Tue, 17 Dec 1996 14:08:14 -0800
To: aprssig@tapr.org
Message-ID: <32B719CE.1376@naples.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >Netscape announced a beta version of Netscape Navigator 3.01 with Java
> >support for Windows 3.1 on December 16. See: http://home.netscape.com/
>
> If someone tries javAPRS with this, please let me know either way. My

> hopes aren't too high, javAPRS and first betas of Netscape have a poor
> track record...
>
> Steve K4HG

Must agree with Steve on first versions of betas. Even the Netscape site has some caveats on this one...JPGs don't display right they say...audio is not active...LiveConnect and a couple of other functions don't work...it's also crash prone in Java according to Barksdale's boys.

They'll probably get it fixed in the near future...but (if I wasn't using Gold) I'd wait a version or two.

Would be interested in hearing what the brave find if you try it!

73,
Gary
--

Gary Arnold CEM
Coordinator, Collier County (FL) Emergency Management
garnold@naples.net
76656.2753@compuserve.com
[Packet radio] wb2wpa@wb2wpa.#nap.fl.usa.noam

EM pages: "http://www.naples.net/govern/county/emrgmgt/zccem1.htm"
Personal page: "http://www.naples.net/govern/county/emrgmgt/garnold.htm"

"I went to a restaurant that serves 'breakfast at any time'. I ordered French Toast during the Renaissance."
-- Steven Wright, perpipheral visionary

---

498. Re: [APRSSIG:7334] Re: APRS/Java ..

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Tue, 17 Dec 1996 09:10:59 -0800
To: aprssig@tapr.org
Message-ID: <32B6D423.3089@cjnetworks.com>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >Netscape announced a beta version of Netscape Navigator 3.01 with Java
> >support for Windows 3.1 on December 16. See: http://home.netscape.com/
>
> If someone tries javAPRS with this, please let me know either way. My
> hopes aren't too high, javAPRS and first betas of Netscape have a poor
> track record...
>
> Steve K4HG
I have it loaded on my PC. I am not sure what you are referring to, with APRS JAVA..., however, I have tried to use it on live APRS sites, with no success. It just tells me that the browser does not have JAVA capability. I was wondering about the same thing...
What are you all using for JAVA to view the live APRS sites?? JAVA is very new to me, and I know very little about it..
Take Care De AAØMM Ross.

---

499. Re: North American Digital System Directory

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Dec 1996 10:20:21 -0500 (EST)
To: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>, wa0cqg@tapr.org
Cc: aprssig@tapr.org, wd5ivd@tapr.org
Message-ID: <Pine.GSO.3.95.961217095819.3647E-100000@arctic>
Rendered body type: text/plain

When you build the North American Digitial System database please be sure to require the following data fields:

```
    CALL
    LAT/LONG    (format DDMM.HH/DDDMM.HH)
    SYSTEM TYPE (Digi, Node, DXcluster, Gateway, etc
    POWER       (in watts
    HAAT        (in feet
    ANT GAIN    (in dB
    DIRECTIVITY (Azimuth if not OMNI)
    FREQ        (in MHz
    COMMENTS    (28 characters max
```

Remember that a file in the following format can be VIEWED by APRS
graphically on any APRS map as a user's aid which not only shows the
location and type of digital system, but also radio range!

p,WB4APR-1 111111 !111111/3859.11N/07629.11W#PHG2463/Annapolis

This line will plot the symbol for a DIGIpeater to the nearest 60 feet
nationwide showing a radio range circle favoring the southeast calculated
using the HAAT and antenna gain plus POWER. The power, height, gain, and
directivity are all encoded in the PHG2463 format.

Users should be able to Query your database and get a file generated
in the above format according to the following categories:

BY STATE
BY RANGE from a given LAT/LONG
BY TYPE: Ie, NODE, DIGI, CLUSTER, GATEWAY, etc
BY FREQ

Then anyone can read that file into APRS and *see* on the maps the
locations, ranges, and overlaps of these systems!

For an example, LOAD any of the following APRS backup files and see where
all the APRS digipeaters are or GATEways:

DIGI-E.bk   DIGI-W.bk   DIGI-SE.bk   GATES.bk

---

500. Re: [APRSSIG:7345] Rad Shack...

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Tue, 17 Dec 1996 09:21:35 -0800
To: aprssig@tapr.org
Message-ID: <32B6D69F.4A9E@cjnetworks.com>
Rendered body type: text/plain

Paul Stump wrote:
>
> Richard Amirault wrote:
>
> > Give them time ...
>
> That COULD sound like inside information...
>
> Anyone have insight on their new WX staion? What kind of
> data does it spit out? Can it work with APRS?
>
> My 3-year-old Ultimeter II now has erratic wind speed
> readings and is plagued by HF transmission RFI.
>
> --
> 73, Paul, n0lrf@amsat.org
Paul,
Know nothing about Radio Shack WX plans. However, the Peet units can
pick up HF RF... Peet Bros. have a filter available for the problem.
Check out PEETBROS.COM for availability and pricing. We have a U-2000 at
EOC, and had the same RF problem. In addition they have a filter for the
Sensor lines cable, to avert static and RF from coming in through those.
They also have a filter to go between the PC serial port, and the
keyboard unit. I had an old PC that would spike out the Keyboard unit,
via the PC serial port, until I put one of those in line. Since that, we
have put in a newer PC, with no problems.
Take Care De AAØMM

---

501. DFjr and HSP adapter etc

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Dec 1996 10:48:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961217104428.3647I-100000@arctic>
Rendered body type: text/plain

When in my DOCS I said to use HSP if using a Pico, this assumed that the
GPS was connected to the Pico and not to the DFjr.

So, if GPS is connected to the multiport adapter, then the DFjr is doing
the posit reporting. It should be in the OPERATOR PUSH button mode,
though... IE, only a posit and a bearing are reported when the operator
pushes the button...

Sorry, I just havent had the time to put it all together and go mobile!

"I feel your pain".... You are helping us all....

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

502. Radio Shack WX Station

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 17 Dec 96 10:46:34 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.850837594.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

> Anyone have insight on their new WX staion? What kind of
> data does it spit out? Can it work with APRS?
>

We (the Sproul Bros and Bob) have plans to add the Radio Shack weather
station AS SOON AS WE CAN GET ONE AND ITS DOCUMENTATION!

We had heard a rummor a LONG time ago that we would get 'free' units so that
we could write the software. As of yet, nothing..

If anyone has more info on these units, PLEASE let us know...

Keith

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

503. Re: [APRSSIG:7364] Re: Gateway TNC after AEA Demise?

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Tue, 17 Dec 1996 09:50:33 -0800
To: aprssig@tapr.org
Message-ID: <32B6DD69.3EDA@cjnetworks.com>
Rendered body type: text/plain

```
Robert Jordan wrote:
>
> Clifford Buttschardt wrote:
> >
> > So who gives a good damn what RadioShack thinks!  They have NEVER cared what ham radio is about and
could care less!!  Cliff K7RR
> >
> Jeez, Cliff.  Get a grip.  A long time ago, before Radio Shack was
> "Radio Shack", they had some pretty good amateur gear.  Then, as they
> formed into Radio Shack, they had some interesting kits...you know..
> build your own crystal radio.  What a concept to today's hams!  And
> one more observation.  Can you name another store..readily available
> in most cities in the country where you can walk in and get a manual
> to help "elmer" your friend..your neighbor..your spouse.. into
> amateur radio?  I think not.  Let's not even talk about their re-entry
> into the amateur market within the last 5 years with radio equipment.
> Or their 2mtr h/t which has an excellent receive front end.
>   No.. I don't work for Radio Shack, nor do I care for some of their
> products.  I just don't like to see anyone get a bum rap without looking
> at all the facts and history.  RS by far, is nothing more than a
> simplistic neighborhood electronics store for the "average consumer".
> Nothing more, nothing less.  If you want quality Name Brand ham gear
> (key word..Name Brand), then you shop elsewhere.  Though, I daresay
> that quite a few thousand hams out there are using RS h/t's with little
> problems.  RS is, as most companies are, run by corporate decisions
> and marketing demands.  If the demands show GPS to be worth their while,
> they will market it.  If the market shows a major drop in sales of
> amateur gear, they will drop it...etc, etc.
>  So, in essence, your statement that "They have NEVER cared what ham
> radio is about and could care less" is a little unfair.  You must have
> had some bad experiences with them.  Live with it.  I don't care for
> Yaesu, but I don't make a broad statement like that.  There are too
> many Yaesu owners that have never had problems.
>   To the SIG: Sorry.  Just had to get on the podium for a minute.
> Thanks,
>        Robert
```

I live in a smaller town of 3200. We had a Radio Shack, which was
managed by an Amateur OP. The RS went out of business. Now I have to
drive 30 Miles if I need so much as a Resistor or Cap. Never owned a RS

radio product, but I SURE MISS THE ONE WE HAD! I just chalk it up to "We
all have to eat".
De Ross

504. Re: [APRSSIG:7348] Re: Smallest gps-ant-tx..??

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 17 Dec 1996 10:53:41 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961217105138.3647K-100000@arctic>
Rendered body type: text/plain

On Mon, 16 Dec 1996, teodoro jaramillo wrote:

> Local CIvil Defense has requested since I am only Ham running
> APRS-GPS in Ecuador, that I supply the possibility of acquiring
> the "smallest-light weight   GPS ANT AND A TX VHF OR UHF TX
> to fly it on a   1/4 scale r/c model plane...

APRSdos REPLY/COMMENT: The TNC can be replaced with the MIM (see aprs file
TELEMTRY.txt which is now a 1 cubic inch TNC transmitter with 5 analog
inputs and 8 digital bit inputs plus NMEA GPS transmit if a GPS is
attached...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

505. HF station up

From: Chris Dapples <ccdapple@wtp.net>
Date: Tue, 17 Dec 1996 08:58:19 -0700
To: aprssig@tapr.org
Message-ID: <32B6C31B.40C7@wtp.net>
Rendered body type: text/plain

Hi All KF7KN here in Red Lodge Montana,

I have just started an HF APRS station. I see over
two dozen HF stations on my us map. But, I am wondering if
I show up on anyone elses aprs map?

73, Chris / KF7KN
ccdapple@wtp.net

506. Re: Turning off P1 on DSP2232

From: n0ykx@juno.com (Bob Powers)
Date: Tue, 17 Dec 1996 11:15:28 EST
To: aprssig@tapr.org
Message-ID: <19961217.101230.15294.0.n0ykx@juno.com>
Rendered body type: text/plain

On Fri, 13 Dec 1996 18:01:39 -0600 (CST) Tony Drumm <TonyDrumm@ibm.net>
writes:

>BTW - is there some way to eliminate the "p1:" that precedes every
>packet
>received on the 2232? We have one at a club station and when I've

Tony,

On the Pk900 you use the command "UBIT 19 OFF" to turn off the p1/p2
prompt. I am not sure it its the same for the 2232 or not.

Bob - N0YKX
bob@ia-ngnet.army.mil

507. p1 on 2232 and pk900

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 17 Dec 96 11:32:31 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.850840351.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>BTW - is there some way to eliminate the "p1:" that precedes every
>packet
>received on the 2232? We have one at a club station and when I've

If you are using WinAPRS or MacAPRS, the P1 and P2 are VERY important if you are running dual-port mode.. This lets the software know were the packet came from and allows the packets to be flagged Blue(VHF) or Red(HF)..

Keith

Keith Sproul   Ham Radio: WU2Z
Student Housing Network Coordinator   ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/   908 821-4828 Home

---

508. Radio Shack (was Re: Gateway TNC after AEA Demise?)

From: N2ZRC@gnn.com (Arte Booten)
Date: Tue, 17 Dec 1996 12:03:53
To: aprssig@tapr.org
Message-ID: <199612171705.MAA29915@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Tue, 17 Dec 1996 Robert Jordan replied to Clifford Buttschardt who wrote:

>>So who gives a good damn what RadioShack thinks! They have NEVER cared what ham
>>radio is about and could care less!!

to which Robert replied:

>A long time ago ... they had some pretty good amateur gear ... their 2mtr h/t which
>has an excellent receive front end ... quite a few thousand hams out there are using
>RS h/t's with little problems.

I readily agree that "Rat Shack" is convenient, has a fairly wide selection of parts and doodads and is available. I also agree that the HTX-202/404 combo are very good radios for the money. The problem I (and many of us urban types) have has to do with "theory" and "reality." Tandy Corporation's "Official" policy is that it is against company rules to knowingly sell something to somebody that will be used for an unlawful purpose. In this case, selling an H-T to an unlicensed individual when that customer is going to be using it to transmit on the amateur bands without a license. About a year ago there was a message on the PBBS's from an RS executive (I forget who or what he was) stating this and that employees that did sell such equipment under these circumstances were subject to dismissal. That's the theory, anyway.

Of course reality is another thing. Mr. R. F. Jama walks into Radio Shack and has two hundred and sixteen dead presidents with him. He sees this cool-looking wallie-talkie and says "I'll take it." Plop, in the bag, charge the battery and key up! If the Sales Associate asks if the customer has a license (yeah, right!) all he has to say is "It's a gift," or "I'm studying for the test," and Radio Shack (and the employee) is off the hook. And we are left with someone who transmits wherever he sets the VFO, using any kind of language he likes and cusses you out and threatens you and your interference committee with bodily harm when you challenge him (since ham radio is supposed to be and, considering the FCC's enforcement of late, self-policing.)

As far as I'm concerned, I welcome Radio Shack's apparent stepping back from the source of their name. I'll never forget the conversation I had with a "station" who identified himself as "KB2GEORGE" some months back, almost none of which I'd care to repeat. But I know exactly which "Rat Shack" he, and his compadres, bought their HTX-202's from.

>RS is, as most companies are, run by corporate decisions and marketing demands. If
>the market shows a major drop in sales of amateur gear, they will drop it...

Yes, exactly. If we, LICENSED Amateur Radio operators, as a group, decided not to buy HTX-202's AND Radio Shack were to ask to see a customer's license when Mr. Jama plunks his cash on the counter, they'd drop it like a hot potato. But I sometimes wonder what percentage of those units are actually sold to those licensed to use them.

Don't get me wrong. I LIKE Radio shack for all the reasons Robert explained and more. My bug isn't with them. It is with the AVAILABLILITY of the HTX-202 to anyone that walks in the door. Remove that temptation from them and we may find a bit more civility and knowledge on our already overcrowded two-meter band. Let them buy some "Chicken Band" or GMRS radio to play with.

Robert, I hope you don't think this is a personal attack on you, 'cause it isn't and please don't take it as such. This is a touchy subject for those of us that have lived with this situation and tried (ineffectually) to correct it.

"Shields engaged and configured for heat dissipation."

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

509. Re: $GPRMC Sentences

From: gbaumgartner@mail.cybg.com
Date: Tue, 17 Dec 1996 17:51:18 +0000 (GMT)
To: bbliss@juno.com (William B. Bliss)
Cc: gbaumgartner@mail.cybg.com, aprssig@tapr.org, wb4apr@amsat.org
Message-ID: <9612171751.AA22247@mail.cybg.com>
Rendered body type: text/plain

> Attn SIGars,
>
>   My apologyes for the big typing error, please forgive an
> ageing old man, with artheritic fingures and poor eyesight.
> The examples that appeared in error was due to my typing.
>
> NO bug in Dos APRS. Mistakes happen. (CACA PASA) .
>
>   Below are some exact examples off the air as transmitted
> packets, and my typed in as appears on the APRS Position
> log file.. Both RMC and GGA sentences..
>
> Hope this corrects your doubts... Sorry ...

Sorry, it doesn't. Take a look at the POSIT log for W7KKE-15, below.
Is that supposed to be "30." as opposed to "030"?   I'm not sure,
but is it possible for dosAPRS to save the raw packet texts as well as
put out the posit reports?

```
> Packet texts off the air as sent:
>
> W7KKE-15>WIDE*>WIDE>GATE>GATE>WIDE>APRS:
> $GPRMC,000100,A,3734.19,N,12215.95,W,22.1,225.0,171296,16.,E*5E
>
> KO6JR-9>WIDE*>WIDE>APRS:
> $GPRMC,000303,A,3758.924,N,12220.325,W,000.0,173.1,161296,015.8,E*66
>
> W1CDM>WIDE>WIDE>GATE>GATE*>WIDE>APRS:
> $GPGGA,001453,3249.337,N,11657.777,W,1,6,001.3,118,M,-035,M,,*7C
>
> KE6KEQ-9>WIDE*>WIDE>APRS:
> $GPGGA,003518,3756.896,N,12230.758,W,1,07,1.1,-11.8,M,-27.8,M,,*65
> -----------------------------------------------------
> On APRS posit log, different position than above.
>
> W7KKE-15  161642 @170042Z3734.25N/12215.02Wv044/30./raw*RMC Fix
>
> KO6JR-9   161648 @170048z3759.17N/12219.99W>331/008/raw*/RMC Fix
>
> W1CDM     161634 @170034z3249.33N/11657.77W/GGA/NUL/raw*/GGA FIX/A=000383
> --------------------------------------------
```

Here is a sample from a history file of a flight by one of our CAP aircraft.
Some posits look good, others do not. Unfortunately I don't have the raw
NEMA sentences to attempt to determine what might have gone wrong.

Note in some cases both the course and speed exhibit a decimal point which
I don't believe should be there.

```
IL1133    061649 @062157z4225.55N/08821.01W3234/106/raw*/good RMC Fix/A=002156
IL1133    061649 @062158z4224.69N/08822.05W3GGA/NUL/raw*/Last gps fix/A=002022
IL1133    061651 @062159z4224.77N/08824.19W3213/84./raw*/good RMC Fix/A=002022
IL1133    061736 @062245z4222.53N/08820.52W3GGA/NUL/raw*/good GGA FIX/A=001655
IL1133    061737 @062246z4221.87N/08819.54W3159/103/raw*/good RMC Fix/A=001655
IL1133    061738 @062246z4221.73N/08819.74W3GGA/NUL/raw*/good GGA FIX/A=002153
IL1133    061739 @062247z4221.90N/08820.03W397./96./raw*/good RMC Fix/A=002153
IL1133    061740 @062249z4221.29N/08820.24W390./89./raw*/good RMC Fix/A=002153
IL1133    061741 @062250z4219.94N/08820.14W3GGA/NUL/raw*/good GGA FIX/A=001844
IL1133    061743 @062251z4218.67N/08819.89W3GGA/NUL/raw*/good GGA FIX/A=001636
```

I think Bob is looking in to it, and I await his conclusions.

```
--
-------------------------------------------------------------------------------
Gerry Baumgartner
Gerry.Baumgartner@mail.cybg.com
```

---

510. Peet Bros. U-500

From: joefoor@digitalexp.com (Foor, Joe)
Date: Tue, 17 Dec 1996 11:50:18 -0600
To: APRSsig <aprssig@tapr.org>
Message-ID: <32B6DD5A.782E@digitalexp.com>
Rendered body type: text/plain

Hi All;

I got my U-500 set up with a KPC-3 as a remote WX station (after many false starts) and it displays fine on APRSdos.

What do I have to do to make it show up properly in WinAPRS? So far, WinAPRS calls it a GPS station, with a weather symbol, with no wind indicator and always zero for temperature. The KPC-3 is setup in CONVERSE mode like the APRSdos documents say.

I tried searching the list archives, but didn't find anything about this problem with the U-500.

here's what my transmitted packets are:

```
KF4DYS-1>BEACON:!3054.65N/08528.34W_PHG7267/WIDE-RELAY & U-500
KF4DYS-1>APRS:$ULTW008A00CD02140000----000000000000----015F02C10064
```

TIA
Joe kf4dys

---

511. Tripmate GPS FAQ available

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 17 Dec 1996 13:12:03 -0400
To: amsat-bb@amsat.org, aprssig@tapr.org, bitbucket@primenet.com,
 ham-tech@majordomo.netcom.com
Message-ID: <850846324-0-eac@shore.net>
Rendered body type: text/plain

Hello,

My Delorme Tripmate GPS FAQ is now visible on Peter Bennett's Web page. It is in the "Street Atlas and AutoMap Interface Programs" sections. The URL is:

ftp://sundae.triumf.ca/pub/peter/index.html

and my thanks to Peter Bennett for posting it.

I finally got a copy of the Zodiac serial documentation so I am going to be expanding the file soon with some more sample NMEA sentences. Input is welcome as this is my first faq file and there are still alot of gaps.

73 Eric eac@shore.net WB1HBU

---

512. Re: [APRSSIG:7380] Peet Bros. U-500

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Tue, 17 Dec 96 13:20:28 EST
To: aprssig@tapr.org
Cc: joefoor@digitalexp.com
Message-ID: <CMM-RU.1.5.850846828.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>What do I have to do to make it show up properly in WinAPRS? So far,
>WinAPRS calls it a GPS station, with a weather symbol, with no wind
>indicator and always zero for temperature. The KPC-3 is setup in
>CONVERSE mode like the APRSdos documents say.

You need to use the DATA format that starts with "!!" to make it work with WinAPRS and MacAPRS..

I will also look at making it work with the sentance you mentioned ($ULTWO..)

Keith

```
Keith Sproul                              Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

513. (no subject)

From: (unknown sender)
Date: (date unavailable)
Message-ID: <32B701B9.516A@concentric.net>
Rendered body type: text/plain

```
Date: Tue, 17 Dec 1996 12:25:29 -0800
From: William Nolle <wa8inz@concentric.net>
Organization: None
X-Mailer: Mozilla 2.01 (Win16; U)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Re: [APRSSIG:7378] Radio Shack (was Re: Gateway TNC after AEA Demise?)
References: <199612171705.MAA29915@mail-e2b.gnn.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Arte Booten wrote:
>
> Hi All,
>
> On Tue, 17 Dec 1996 Robert Jordan replied to Clifford Buttschardt who wrote:
>
> >>So who gives a good damn what RadioShack thinks!  They have NEVER cared what ham
> >>radio is about and could care less!!
>
> to which Robert replied:
>
> >A long time ago ... they had some pretty good amateur gear ... their 2mtr h/t which
> >has an excellent receive front end ... quite a few thousand hams out there are using
> >RS h/t's with little problems.
>

Some Snipping here.

>
>      Don't get me wrong.  I LIKE Radio shack for all the reasons Robert explained and
> more.  My bug isn't with them.  It is with the AVAILABLILITY of the HTX-202 to anyone
> that walks in the door.  Remove that temptation from them and we may find a bit more
> civility and knowledge on our already overcrowded two-meter band.  Let them buy some
> "Chicken Band" or GMRS radio to play with.
>
>      Robert, I hope you don't think this is a personal attack on you, 'cause it isn't
> and please don't take it as such.  This is a touchy subject for those of us that have
> lived with this situation and tried (ineffectually) to correct it.
>
>      "Shields engaged and configured for heat dissipation."
>
> Mr. Arte Booten  (N2ZRC @ gnn.com)
> Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
>
> Cruise Missile Coordinates 4052.71N/07354.06W
>
> .. Coordinates laid in.  Engaging at warp six ...

Well sorry but i HAD to answer and throw in my 10 cents. A few years back i bought a
brand new computer system from them in a sealed box. When i got home and unpacket the
system i noticed the keyboard was dirty like it had been in use for a while inspecting
the rest of the system showed the same story. I repacket the system and took it back to
the Rat Shack. The salesman insisted it was new and only had the dirty keyboard because
they burn in all their systems (YA RIGHT). Just then i turned around and noticed
someone coming out of a back room and he left the door open, in that room where about
30 computers when it hit me (A class room) that they called a burn in room (AGAIN YA
RIGHT). They did take back the system. I called the main office in Texas and finally
got to talk to the person on top, he said that this is standard practice at radio shack
and that there's nothing illegal about doing that. In other words most of their
equipment may or may not be even new, in fact this has happened to many people i know.

I rarely go to Radio Shack anymore (Thank you).

--
      \////
      (0 0)
```

```
*--o0-(_)-0o--*
wa8inz@amsat.org
wa8inz@cris.com
```

---

514. Re: [APRSSIG:7380] Peet Bros. U-500

From: Mark Sproul <sproul@ap.org>
Date: Tue, 17 Dec 1996 13:31:02 -0500
To: aprssig@tapr.org
Cc: joefoor@digitalexp.com
Message-ID: <v03007809aedc972bf443@[165.1.27.20]>
Rendered body type: text/plain

```
>Hi All;
>
>I got my U-500 set up with a KPC-3 as a remote WX station (after many
>false starts) and it displays fine on APRSdos.
>
>What do I have to do to make it show up properly in WinAPRS? So far,
>WinAPRS calls it a GPS station, with a weather symbol, with no wind
>indicator and always zero for temperature. The KPC-3 is setup in
>CONVERSE mode like the APRSdos documents say.
>

>here's what my transmitted packets are:
>
>KF4DYS-1>BEACON:!3054.65N/08528.34W_PHG7267/WIDE-RELAY & U-500
>KF4DYS-1>APRS:$ULTW008A00CD02140000----000000000000----015F02C10064
>
>TIA
>Joe kf4dys



We will take a look at it asap and make sure it works correctly.  If it
doesnt, we will have it fixed ASAP.


Mark

___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

515. Re: QRZ Index File

From: Mark Sproul <sproul@ap.org>
Date: Tue, 17 Dec 1996 13:41:58 -0500
To: aprssig@tapr.org
Cc: ke4sop@netwide.net, N2ZRC@gnn.com
Message-ID: <v0300780aaedc98d257af@[165.1.27.20]>
Rendered body type: text/plain

```
>
>>Does someone know the file name and the URL of where I can obtain the QRZ
>>index file
>>for WINAPRS?
>
>     According to the DOCs for WinAPRS 1.17, QRZ ought to work.  I set it
>up on my
>machine (I'm using QRZ ver 7) and it doesn't.  At least, not for me.
>Let's see what
>The Brothers Sproul have to say though. 73
>


QRZ and SAMs CD-ROMs require and Index file, Buckmaster does also, but we
supply the index file to them BEFORE they go to press so it is ON the
CD-ROM (thats why we really like Buckmaster).

In order for QRZ and SAMs to work, the index file must be the RIGHT one for
the version of the CD-ROM that YOU are using, this of course is a pain for
us to keep up to date with.  MacAPRS has always had the ability for the
USER to create the index file.  Over the weekend I finally got that code
working under Windows, so the NEXT release of WinAPRS WILL have the ability
to generate the index files for QRZ and SAMS.
```

Mark

```
____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

516. Re: qbasic availability

From: Bob Bruninga <bruninga@nadn.navy.mil> (by way of jack swift <jswift@up.net>)
Date: Tue, 17 Dec 1996 14:11:01 -0500
To: aprssig@tapr.org
Message-ID: <9612171908.AA07406@btc1>
Rendered body type: text/plain

On Tue, 17 Dec 1996, jack swift wrote:

> I decided to check the price of QB version 4.5 ---- can't find it
> anywhere!!!

APRSdos REPLY/COMMENT: If Microsoft is truely no longer selling or
supporting QB.exe then is it legal to share it or post it? QB is the big
brother of QBASIC.exe included in all DOS operating systems and is needed
to run the source code for MAPFIX.. Any legal opinions? Im sure it is
still copyrighted etc... but what the heck...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

517. Radio Shack AS A DRUG DEALER?

From: "Kent Hufford" <khufford@erols.com>
Date: Tue, 17 Dec 1996 14:37:37 -0500
To: <aprssig@tapr.org>
Message-ID: <199612171931.OAA05023@smtp1.erols.com>
Rendered body type: text/plain

Arte,

In JAN 1991, I called the 1-800 number for the HRO in Atlanta, ordered an
ICOM 765, 229H, 24AT.

Gave them my master card number and address. The ICOMs were delivered two
days later.

I happed to have just passed the "OLD" TECH then. But they did not ask if
I had a license. Except out of curiosity, they should not care.

As I understand, much of the TANDY/RADIO SHACK Corp. Management are HAMS.
But they got to make
a living at selling things that sell. So stocking all stores with lots of
HAM equipment (or HAM employees) doesn't work.

I tried to post a flyer for our local ham clubs "HAM classes" at a RADIO
Shack. They said, NO it was corp policy NOT to.

I sent a EMAIL to ED Judge, W5???, a VP at Radio Shack at the time. He sent
me a letter ON Corp letter head
saying it was MORE than OK. That it was corp policy to SUPPORT local HAM
clubs and classes.

Radio Shack has got to sell junk too. They are not the OLD Radio Shack, but
I am not 21 anymore.

As long as any store can sell Tobacco products, that when used as intended,
will kill the user.... selling HAM
equipment to anyone with money should be legal.

Like I said, I've "only" been a HAM since 1991. The bad apples I have heard
have not been on 2meters, they have been on 3.950 and
14.313mhz!   And they all had callsigns that seemed legal and above TECH.

...we... ALL have hot buttons.

Kent
KQ4KK

khufford@erols.com

> From: Arte Booten <N2ZRC@gnn.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7378] Radio Shack (was Re: Gateway TNC after AEA
Demise?)
> Date: Tuesday, December 17, 1996 12:09 PM
>
> Hi All,
>   Of course reality is another thing. Mr. R. F. Jama walks into Radio
Shack and
> has two hundred and sixteen dead presidents with him. He sees this
cool-looking wal-
> lie-talkie and says "I'll take it." Plop, in the bag, charge the battery
and key up!
> If the Sales Associate asks if the customer has a license (yeah, right!)
all he has
> to say is "It's a gift," or "I'm studying for the test," and Radio Shack
(and the em-
> ployee) is off the hook. And we are left with someone who transmits
wherever he sets
> the VFO, using any kind of language he likes and cusses you out and
threatens you and
> your interference committee with bodily harm when you challenge him
(since ham radio
> is supposed to be and, considering the FCC's enforcement of late,
self-policing.)
>
>   Don't get me wrong. I LIKE Radio shack for all the reasons Robert
explained and
> more. My bug isn't with them. It is with the AVAILABLILITY of the
HTX-202 to anyone
> that walks in the door. Remove that temptation from them and we may find
a bit more
> civility and knowledge on our already overcrowded two-meter band. Let
them buy some
> "Chicken Band" or GMRS radio to play with.

518. Radio Shack as SEARS?

From: "Kent Hufford" <khufford@erols.com>
Date: Tue, 17 Dec 1996 14:48:31 -0500
To: <aprssig@tapr.org>
Message-ID: <199612171942.OAA06753@smtp1.erols.com>
Rendered body type: text/plain

Reminds me of what a very smart friend told me.

NEVER buy a computer from a store that sells - underwear, stoves, washing
machines, vibrators,
or remote control cars.

I buy only what I must at Radio Shack.   Like you said ... "rarely"

Kent

> From: William Nolle <wa8inz@concentric.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7383] Re: Radio Shack (was Re: Gateway TNC after AEA
Demise?)
> Date: Tuesday, December 17, 1996 1:29 PM
> Well sorry but i HAD to answer and throw in my 10 cents. A few years back
i bought a
> brand new computer system from them in a sealed box. When i got home and
unpacket the
> system i noticed the keyboard was dirty like it had been in use for a
while inspecting
> the rest of the system showed the same story. I repacket the system and
took it back to
> the Rat Shack. The salesman insisted it was new and only had the dirty
keyboard because
> they burn in all their systems (YA RIGHT). Just then i turned around and
noticed
> someone coming out of a back room and he left the door open, in that room
where about
> 30 computers when it hit me (A class room) that they called a burn in
room (AGAIN YA
> RIGHT). They did take back the system. I called the main office in Texas
and finally

> got to talk to the person on top, he said that this is standard practice
at radio shack
> and that there's nothing illegal about doing that. In other words most of
their
> equipment may or may not be even new, in fact this has happened to many
people i know.
>
> I rarely go to Radio Shack anymore (Thank you).
>
> --
>   \\////
>   (0 0)
> *--o0-(_)-0o--*
> wa8inz@amsat.org
> wa8inz@cris.com
>

---

519. Re: [APRSSIG:7327] Re: Tripmate & KCP-3

From: Demos Doulou <ddoulou@gte.net>
Date: Tue, 17 Dec 1996 14:48:26 -0500
To: aprssig@tapr.org
Message-ID: <32B6F90A.1A50@gte.net>
Rendered body type: text/plain

Randy Hammock wrote:
>
> Demos Doulou wrote:
> > To run stand alone, install r48 in the kpc3 to force the dtr line high
> > (this turns the tripmate on).
> >
> > set GPSINT to ASTRAL
> >
> > use a null modem adapter to connect the tripmate to the kpc3.
> >
> > Works fine.
>
> I have been trying this. I installed R48 and set GPSINIT to ASTRAL;
> however, I am having problems with the KPC-3 sending the ASTRAL to the
> Tripmate before it is ready to receive it. Hence, the Tripmate never
> sees the ASTRAL from the KPC-3 and just sit there sending it's own
> ASTRAL message. This has been verified by looking at the lights of a
> breakout box connected between the Tripmate and KPC-3.
>
> Sequence of events:
> Press power button on KPC-3.
> See handshale light come on.
> See short data burst from KPC-3.
> Pause.
> See long then short data burst from Tripmate followed by continuous
>   short bursts.
> After while, briefly short pins 2 & 3.
> Start seeing long burts from Tripmate.
>
> I even loaded GPSINIT with ASTRAL<ctrl-n>ASTRAL<ctrl-n>... upto the 128
> character limit, hoping that one of them would get caught by the
> Tripmate. For those wonder what the <ctrl-n> is for, this allows
> multiple command to be place into a single command line. When the
> GPSINIT text is transmitted, the <ctrl-n> get sconverted into <CR><LF>.
>
> I either need to get DTR to Tripmate sooner or get KPC-3 to boot-up
> slower.
> --
> Randy Hammock   KC6HUR | Jet Propulsion Laboratory
> mailto:hammock@wired.jpl.nasa.gov | M/S: 264-580
> Voice: +1-818-393-1214 | 4800 Oak Grove Drive
> Pager: +1-818-423-2062 | PASADENA CA 91109

Ah yes,   my fault for leaving one critical part out.

You must use ASTRAL(ctrl N).

But I havent had any problems with timing. Yes the tnc sends the string
before the gps starts, but it always has worked. As soon as the sats
are aquired, everything works fine.

73
Demos KR4US

520. WinAPRS / MacAPRS web site

From: Mark Sproul <sproul@ap.org>
Date: Tue, 17 Dec 1996 15:22:08 -0500
To: aprssig@tapr.org
Message-ID: <v03007805aedcb0384023@[165.1.27.20]>
Rendered body type: text/plain

```
For some time I have been telling people that I was working on the Web
server for Mac/WinAPRS.  This was because of slow performance etc.


The web server for MacAPRS / WinAPRS is now on a new machine.  It is a
PowerMac runing Mac Linux. We have been testing it for a few days and it
seems much better.  The url is basically un changed,

        http://aprs.rutgers.edu/

You do NOT need the /APRS/ as you did before.

Because we changed the ip address were this name points to, your local DNS
servers may still point to the old one, if that is the case, try

        http://aprs2.rutgers.edu/

This will go away eventually so dont rely on it.

For those that have not seen it before, all of the Mac/WinAPRS and all of
the dosAPRS documentation is on line here.  The dosAPRS docs have been
orginized in HTML form (somewhat) and are much easier to navigate.

Mark Sproul

__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

521. Re: [APRSSIG:7386] Re: qbasic availability

From: rbeckett@Schwab.COM
Date: Tue, 17 Dec 1996 12:27:43 +0000
To: aprssig@tapr.org
Message-ID: <9612172026.AA03633@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

```
qbasic.exe is still being released with WINNT, both 3.5.1 and 4.0
Rich
(415) 636-8340 - work
(510) 521-1559 - Beckett & Associates Office
```

---

522. Re: [APRSSIG:7378] Radio Shack (was Re: Gateway TNC after AEA Demise?)

From: Bob Lorenzini <hwm@netcom.com>
Date: Tue, 17 Dec 1996 12:54:00 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961217125055.92B-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
OFF-TOPIC

  Re: radio shack selling practices - What about Kenwoods intentions to
sell in truck stops!

BACK TO APRS!


Bob - wd6dod
```

---

523. Autostarting SA4 with Tripmate

From: Joe Scalet <jscalet@echo.sound.net>
Date: Tue, 17 Dec 1996 16:10:33 -0600
To: aprssig@tapr.org
Message-ID: <32B71A59.41DC@sound.net>
Rendered body type: text/plain

```
Youn can put SA4 in the startup menu of windows and have SA4 autostart
on powerup. To use the Tripmate however, you have to punch the GPS radio
button and then click OK. Delorme says there is no way to auto start
```

Tripmate. Windows has the Recorder function and you could of course
record the two actions and reduce it to one FKey to start the macro but
that only saves one key press.
        It seems that I once saw a utility that would autoexecute a keyboard
macro in windows but I can't find it. Does anyone know of such a program
? tnx WK0G

524. Re: [APRSSIG:7372] Radio Shack WX Station

From: Bryan Fair <brfair@flash.net>
Date: Tue, 17 Dec 1996 16:37:57 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199612172237.QAA02804@endeavor>
Rendered body type: text/plain

Here it is I posted this a Month or do ago her we go again

This is part of an Email to me from Radio Shack Product Support
The cost per RS 97 CATALOG is $299.99 is price worth waiting for?
It has Humidity, Temperature, Rain Fall,Wind Speed and Direction

---------------------<SNIP>--
 We apologize for not getting back with you in this matter. We have checked
with the Merchandising Department with regard to the Weather Station cat.
no. 63-1015. They have advised that information on this product will be
available during the end of December, early January. An expected release
date for this product is projected to be in late January, early February
1997. We regret no additional preliminary information on this product is
being made available.

Thank you,

TANDY PRODUCT SUPPORT CENTER
CC/gk

At 09:50 AM 12/17/96 -0600, you wrote:
>
>> Anyone have insight on their new WX staion? What kind of
>> data does it spit out? Can it work with APRS?
>>
>
>
>We (the Sproul Bros and Bob) have plans to add the Radio Shack weather
>station AS SOON AS WE CAN GET ONE AND ITS DOCUMENTATION!
>
>We had heard a rummor a LONG time ago that we would get 'free' units so that
>we could write the software. As of yet, nothing..
>
>If anyone has more info on these units, PLEASE let us know...
>
>Keith
>
>Keith Sproul   Ham Radio: WU2Z
>Student Housing Network Coordinator   ksproul@noc.rutgers.edu
>Rutgers University Computing Services   908 445-3695 Work 908 445-2968 Fax
>http://www-ns.rutgers.edu/~ksproul/   908 821-4828 Home
>
>

525. Re: [APRSSIG:7383] Re: Radio Shack (employee perspective)

From: ARusnak@aol.com
Date: Tue, 17 Dec 1996 18:19:57 -0500
To: aprssig@tapr.org
Message-ID: <961217181957_1355568969@emout07.mail.aol.com>
Rendered body type: text/plain

To whom it may concern:
I share this email address with my father who responds to your messages.
 However, I couldn't help to notice the title "Radio Shack." Since I work
there part time as I am going to school I feel that I could answer your
question about the computer.

If the keyboard was dirty then it was on display. Radio Shack does sell
those computers, however the buyer must know about it and we offer a
protection plan ,TSP, similiar to an extended warranty for an additional year
to the present warranty or TSP you purchase.

However, if you do have a problem with any merchandise with Radio Shack you

```
should not face any difficulty.  Tandy, the owner of Radio Shack, emphasizes
customer service to practically any degree.  However, it is possible that you
might have had a pushy sales associate who was feeding you lines.  In our
back room we have possible one computer that is used, however we do not sell
them and they are sent to the district store for a discounted price.  If you
continue to face problems, always mention that you will call the district
manager of the main top dogs in Texas.

Hope to  be of assistance,
Sabrina Rusnak
```

---

526. Re: [APRSSIG:7395] Re: Radio Shack (employee perspective)

From: William Nolle <wa8inz@concentric.net>
Date: Tue, 17 Dec 1996 18:31:46 -0800
To: aprssig@tapr.org
Message-ID: <32B75792.4404@concentric.net>
Rendered body type: text/plain

```
ARusnak@aol.com wrote:
>
> To whom it may concern:
> I share this email address with my father who responds to your messages.
>  However, I couldn't help to notice the title "Radio Shack."  Since I work
> there part time as I am going to school I feel that I could answer your
> question about the computer.
>
> If the keyboard was dirty then it was on display.  Radio Shack does sell
> those computers, however the buyer must know about it and we offer a
> protection plan ,TSP, similiar to an extended warranty for an additional year
> to the present warranty or TSP you purchase.
>
> However, if you do have a problem with any merchandise with Radio Shack you
> should not face any difficulty.  Tandy, the owner of Radio Shack, emphasizes
> customer service to practically any degree.  However, it is possible that you
> might have had a pushy sales associate who was feeding you lines.  In our
> back room we have possible one computer that is used, however we do not sell
> them and they are sent to the district store for a discounted price.  If you
> continue to face problems, always mention that you will call the district
> manager of the main top dogs in Texas.
>
> Hope to  be of assistance,
> Sabrina Rusnak

Sabrina. You didn't read my message the person at the main office is the one
that told me that it was standard practice to sell the computers they used in a
classroom as new and that it was perfectly legal to do so. And by the way NOT ON
DISPLAY but in a classroom.
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

527. Re: [APRSSIG:7368] Re: APRS/Java ..

From: Steve Dimse <sdimse@bridge.net>
Date: Tue, 17 Dec 96 19:46:41 -0500
To: <aprssig@tapr.org>
Message-ID: <199612180046.TAA17503@newworld.bridge.net>
Rendered body type: text/plain

```
>I have it loaded on my PC. I am not sure what you are referring to, with
>APRS JAVA..., however, I have tried to use it on live APRS sites, with
>no success. It just tells me that the browser does not have JAVA
>capability.  I was wondering about the same thing...
>What are you all using for JAVA to view the live APRS sites?? JAVA is
>very new to me, and I know very little about it..

The live sites have the javAPRS applet on them, it is the only way to see
them.

Confirming you have the (brand new, one day old) beta Netscape 3.01 for
Windows 3.1 with java support? You need to enable java on one of the
preference dialogs.

Steve K4HG
```

---

528. Re: [APRSSIG:7342] Re: Any NE New Jersey APRS on VHF?

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Tue, 17 Dec 1996 20:38:17 -0500
To: <aprssig@tapr.org>
Message-ID: <199612180144.UAA07258@grumpy.magg.net>
Rendered body type: text/plain

Another thing to consider is that I am speaking about APRS mobile, it is
quite a different story from a home station. Take a drive APRS mobile
anywhere other than in the shadow of NYC or SNJ region and you will find a
lot of nothing on 145.79. WA4JNF-4 covers some parts of NNJ well but not
that well. Unless N2MH-15 has changed in the past year he can be seen on
occasions in some parts but had little to no coverage into Passaic County.

SNIP----------
> From: Boyd Prestwood <w2hob@mosquito.com>
> Then someone ought to inform those multitudes just how to beacon. Down
here
> in SNJ, we only see WU2Z, KB2ICI, KB4CYC and not much else guys. I'm told
> that there's an N2MH-15 as a WIDE digi on West Orange... never see him...
>
> Whatever happened to Mark Lehman, WO2J... never see him anymore... he had
a
> Wx Station, Gateway, and QTH all showing at one time... key station too
into NY.
>
>
> Have fun es 73 de Boyd
> w2hob@mosquito.com
>

529. Dosaprs and Win95

From: Robert Radmore <R.Radmore@worldnet.att.net>
Date: Wed, 18 Dec 1996 02:15:21 +0000
To: aprssig@tapr.org
Message-ID: <19961218021519.AAA12637@LOCALNAME>
Rendered body type: text/plain

I am a new upgrade to Win95 and find I can't run DosAprs in a full window.
Is there a work around or must I load a version of the old Dos?

Any help would be appreciated.

Please reply direct so as to avoid bandwidth.

Thanks in advance de Bob N2PWP
Bob Radmore
Amateur call - N2PWP
Packet - N2PWP@KE2VW.#WNY.NY.USA.NOAM
E-mail - R.RADMORE@WORLDNET.ATT.NET

530. Re: [APRSSIG:7299] Re: Tripmate & KCP-3

From: Roger Sellers <rsellers@rockford.com>
Date: Tue, 17 Dec 1996 21:09:59 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961217210958.006afcd4@rockford.com>
Rendered body type: text/plain

At 05:34 PM 12/15/96 -0500, you wrote:
>To run stand alone, install r48 in the kpc3 to force the dtr line high
>(this turns the tripmate on).
>set GPSINT to ASTRAL
>use a null modem adapter to connect the tripmate to the kpc3.
>Works fine.
>73
>Demos KR4US
>kr4us@amsat.org

Please pardon the stupid question, but what is or what do you mean by
"install r48"??

Roger Sellers KB9LBU
email: Home rsellers@rockford.com
KB9LBU@juno.com
Work rsellers@snds.com

531. Summary of the List

From: Dayglo <dayglo@radix.net>
Date: Tue, 17 Dec 1996 22:55:16 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961218035516.0071d688@pop.radix.net>
Rendered body type: text/plain

Here is my take on the list so far:

To Radio Shack or not to Radio Shack ?

Kantronics vs Patcomm ?

Is Gwyn Ready male or female (No Offense) ?

Now I have no room to talk for I am not exactly dominating the list but let
us please get back to APRS. Hopefully soon I will be able to contribute
just as soon as my HPVFC, that I ordered over a week ago, arrives.

---

532. Re: [APRSSIG:7337] dfJr multi port/gps/aprs77e -- working for anyone?

From: Richard Roberts <rroberts@mcs.com>
Date: Tue, 17 Dec 1996 22:00:28 -0600
To: aprssig@tapr.org
Message-ID: <32B76C5C.1E04@mcs.com>
Rendered body type: text/plain

Hi there....
I also have the DF Jr and while I haven't hooked it up to my Garmin 45XL
yet, I have used it twice and discovered that one of the antennas has
gone deaf.

I have attached an email in regards to this for your information:

Joe -

Rich has correctly assembled the antenna but has gone the wrong way on
tests
at foxhunts .... Another 'hunter, Greg, saw the jr and liked it very
much.
He's worked with the Smith DF (from Austrialia??) and wanted help Rich.
So
Greg did some bench work on the DFjr, he did a check on the ant. with a
scope
and found one element not showing the sq. wave from element to ground
...
sounds like a good test - indicating one amp out...is this the best way
to
check'm out??? should Rich shoot it back to you?

Greg opened the ant. box and was impressed with the engineering. He did
note
a small shard of solder on the inside.

The folks using it have noted seemingly shallow reception at the start
piont
of recent hunts with the DFjr. Have you come up with any comparetive
sensitivity or is it subjective to the receiver ... and if so what's the
best
direction to go in RX wise.....?

I'm going to lend my antenna to Rich so he can hunt again this weekend
and
not freeze his nails off.

Greg suggested you might be able to do the test he did with a VOM...what
do
you think? Sure would be good to be able to field verify. Or is that
best
left to the lab...

gphowell@mindspring.com wrote:
>
> Yesterday our local club planned a T-hunt and since I had carefully
> introduced enough cockpit error into the last one so that nothing really
> worked well, I started Saturday on this one. Setup: dfJr to multiport
> adapter, GPS-45 to multi port adapter, PICO to multiport adapter and
> adapter to Toshiba laptop. I was unable to get dos version 77E to
> acknowledge or use the GPS posits coming in no matter how I set things up.
>
> Tried SPM with no TNC, SPM with TNC, HSP with PICO -- GPS still connected

```
> to multiport adapter, nothing worked.  It appeared that posit reports as
> well as DF bearings were sent to the serial port, and the program did
> parse the df bearings and display them on the screen, but never would it
> change the initial position that I entered.  At one point the program was
> telling me that it was not getting a position report therefore it was not
> displaying a bearing.  I did see NMEA sentences scrolling across the
> bottom of the screen and lat/long was changing but was ignored.
>
> (I DID remember to use the correct registration numbers this time unlike
> the last time...)
>
> Any ideas on what I am doing wrong?  The only thing I didn't try was
> connected the GPS to the second serial port on the PICO and try HSP, but I
> suspect that wouldn't have worked either since I don't think the multiport
> adapter does HSP.  Grrrr.  Help appreciated, Bob says he doesn't know
> either since he hasn't run this configuration.
>
> Thanks!
>
> -----------------------------------------------------------
> Geep Howell WA4RTS
> gphowell@mindspring.com
> -----------------------------------------------------------Let me know if this helps....

73

Rich (KA9MAB)
```

533. Re: [APRSSIG:7401] Summary of the List

From: Robert Jordan <n5rkn@apex2000.net>
Date: Tue, 17 Dec 1996 23:17:52 -0600
To: aprssig@tapr.org
Message-ID: <32B77E80.16B4@apex2000.net>
Rendered body type: text/plain

```
Dayglo wrote:
>
> Here is my take on the list so far:
>
> To Radio Shack or not to Radio Shack ?
>
> Kantronics vs Patcomm ?
>
> Is Gwyn Ready male or female (No Offense) ?
>
> Now I have no room to talk for I am not exactly dominating the list but let
> us please get back to APRS.  Hopefully soon I will be able to contribute
> just as soon as my HPVFC, that I ordered over a week ago, arrives.
  I agree, and will try to direct non-aprs comments directly..rather
than via the SIG in the future.
  Robert
```

534. Re: [APRSSIG:7402] Re: dfJr multi port/gps/aprs77e -- working for anyone?

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 18 Dec 1996 01:02:31 -0800
To: aprssig@tapr.org
Message-ID: <32B7B327.6F29@cris.com>
Rendered body type: text/plain

```
Richard Roberts wrote:
>
> Hi there....
> I also have the DF Jr and while I haven't hooked it up to my Garmin 45XL
> yet, I have used it twice and discovered that one of the antennas has
> gone deaf.

FYI- We test all four channels in the switching box on a scope before
shipping, repaired 3 antennas yesterday and they all swear that they
didn't transmit through it but the damage proved otherwise, 2 blown
caps,
1 inductor, 1 P-Channel MOSFET, I MAR-4 amplifier, & one resistor, all
baked. I usualy don't say anything to the folks on the SIG after all
the customer is always right, right;-) I am not suggesting that Rich
transmited through his or blaming him, proof will be when it gets on the
bench.
Anyway I will test and fix the antenna for him/you, don't read into
this,
it may be our fault, just stating that most returns are from people
powering
```

up the HT with the with the audio and coax connected to the DFjr, some
HT's will transmit momentarily, just enough time to cause the damage.
Receivers are recommended, ICOM, Yaseu, Kenwood, etc. not scanners, they
are
junk.

> I have attached an email in regards to this for your information:
>
> Joe -
>
> Rich has correctly assembled the antenna but has gone the wrong way on
> tests at foxhunts .... Another 'hunter, Greg, saw the jr and liked it very
> much.
> He's worked with the Smith DF (from Austrialia??) and wanted help Rich.
> So Greg did some bench work on the DFjr, he did a check on the ant. with a
> scope and found one element not showing the sq. wave from element to ground
> .. sounds like a good test - indicating one amp out...is this the best way
> to check'm out??? should Rich shoot it back to you?
>
> Greg opened the ant. box and was impressed with the engineering. He did
> note a small shard of solder on the inside.

It happens.

> The folks using it have noted seemingly shallow reception at the start
> piont of recent hunts with the DFjr. Have you come up with any comparetive
> sensitivity or is it subjective to the receiver ... and if so what's the
> best direction to go in RX wise.....?

The DFjr is a doppler which produces some desensatizing by the antenna
rotation itself,
try using a preamp o help gain back some of the loss.

> I'm going to lend my antenna to Rich so he can hunt again this weekend
> and not freeze his nails off.

Try nail polish on those nails, hi.

> Greg suggested you might be able to do the test he did with a VOM...what
> do you think? Sure would be good to be able to field verify. Or is that
> best left to the lab...

The VOM is not a good way to test the antenna, a scope is, proper
voltage swings
need to be observed, as when we test before ship.

Enough bandwidth here.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            Agrelo Engineering
           Joe Agrelo/President
    P.O.Box 231 Pattersonville, NY 12137 USA
              ph (518)864-7551 effective 8/15
             fax (518)864-7553 "   "
        mailto:Jagrelo@cris.com
  WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
     based Doppler, talking products and RF.
   Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

> gphowell@mindspring.com wrote:
> >
> > Yesterday our local club planned a T-hunt and since I had carefully
> > introduced enough cockpit error into the last one so that nothing really
> > worked well, I started Saturday on this one. Setup: dfJr to multiport
> > adapter, GPS-45 to multi port adapter, PICO to multiport adapter and
> > adapter to Toshiba laptop. I was unable to get dos version 77E to
> > acknowledge or use the GPS posits coming in no matter how I set things up.
> >
> > Tried SPM with no TNC, SPM with TNC, HSP with PICO -- GPS still connected
> > to multiport adapter, nothing worked. It appeared that posit reports as
> > well as DF bearings were sent to the serial port, and the program did
> > parse the df bearings and display them on the screen, but never would it
> > change the initial position that I entered. At one point the program was
> > telling me that it was not getting a position report therefore it was not
> > displaying a bearing. I did see NMEA sentences scrolling across the
> > bottom of the screen and lat/long was changing but was ignored.

> >
> > (I DID remember to use the correct registration numbers this time unlike
> > the last time...)
> >
> > Any ideas on what I am doing wrong? The only thing I didn't try was
> > connected the GPS to the second serial port on the PICO and try HSP, but I
> > suspect that wouldn't have worked either since I don't think the multiport
> > adapter does HSP. Grrrr. Help appreciated, Bob says he doesn't know
> > either since he hasn't run this configuration.
> >
> > Thanks!
> >
> > ---
> > Geep Howell WA4RTS
> > gphowell@mindspring.com
> > ---Let me know if this helps....
>
> 73
>
> Rich (KA9MAB)

---

535. Tracker

From: Dave Creek <dcreek@pixi.com>
Date: Tue, 17 Dec 1996 21:02:56 -1000 (HST)
To: aprssig@tapr.org
Message-ID: <Pine.PCW.3.95.961217203455.7799A-100000@neogodzilla15.pixi.com>
Rendered body type: text/plain

I am now in a position to build a tracker for my van. The plan so far is:

GPS: Trimble White Mushroom from an unknown source in San Diego, CA
TNC: Kantronics KPC-3
RADIO: Radio Shack HT-202
DISPLAY: KD6PBH Display Unit (if available)

The van is an '84 Postal van. The Trimble antenna will be mounted on an
angle bracket on the rear of the van body with the top of the antenna
above the roof line.
The radio and TNC will be in a .50 cal. ammo can along with 2 6 volt, 10
Ah batterys. Power from the van battery will be supplied through a relay
controlled by the ignition switch.
I plan to come up with a circuit that will lengthen the intervals between
transmissions when the vehicle is parked to cut down on battery drain and
also so as not to fill the aether with redundant signals.

Any comments pro or con appreciated. Send via email or to the SIG if you
think they would be of general interest.
Since Dave Dobbins moved to the mainland, I dont know of any APRS guru
here. Maybe I'll become one.

73 es Aloha,

Dave Creek,NH6BA
Ewa Beach, HI
dcreek@pixi.com

PS No I am not off to the beach.<g>

---

536. Tripmate

From: William Nolle <wa8inz@concentric.net>
Date: Wed, 18 Dec 1996 03:36:42 -0800
To: aprssig@tapr.org
Message-ID: <32B7D74A.529F@concentric.net>
Rendered body type: text/plain

In case someone is interested in a tripmate at this place the price is
listed as $138.13

http://www.uvision.com/prdct/032/94.html

--
      \////
      (0 0)
 --o0-(_)-0o--
 wa8inz@amsat.org
 wa8inz@cris.com

---

537. Radio Shack Kenwood and others?

From: Bruce Douberley <bcdpe@innova.net>
Date: Wed, 18 Dec 1996 08:05:55 -0500
To: aprssig@tapr.org
Message-ID: <v03007800aedd93853196@[130.127.29.28]>
Rendered body type: text/enriched

We had our annual Ham Club Christmas dinner last night and a discussion of our deteriorating band conditions ensued.

One thing that was brought up was that certain amateur equipment manufacturer(s) is/are flooding the market with 2mtr/70cm and HF gear. Do they see the handwriting on the wall and are emptying their warehouses? No problem - right - except that it is being done through TRUCK STOPS (maybe other places too). One of our members has been a ham for 8 years and is a truck driver and comfirmed this as so. Just stop in and buy no questions asked. That is why there is garbage on the air calling itself "The Ham From Hell" and I am sure others turning the spectrum into what we all feared.

That brings me to my point - We all have our little distractions - APRS, SS, Packet, SSTV, etc. What Amateur does not have a considerable sum tied up in equipment? With all the wolves just waiting to devour the all frequencies we hold dear - What good is all of our equipment going to be if suddenly the government comes out and says " These frequencies are too valuable to use in the current manner your are using them so cease and desist." For those of us with valid licenses and legal equipment used legally we get screwed or...... maybe dump the stuff on a blackmarket?.. yeah right.

Point is if we don't think about what is happening to the "carrier" of all our distractions -- WE WILL LOSE - - big time.

BTW not all Radio Shacks are Corporate. There are those that are independant and care what they sell and to whom. They control what they order and sell not what Corporate says and usually have a better stock of goodies for us builders and tinkerers.

____

<italic>Hull temperture rising Captain

</italic>Prepare to raise Metaphasic shields Ensign!

Bruce Douberley

WB4JNE

Email : bcdpe@innova.net

---

538. Re: [APRSSIG:7400] Re: Tripmate & KCP-3

From: Demos Doulou <ddoulou@gte.net>
Date: Wed, 18 Dec 1996 08:19:51 -0500
To: aprssig@tapr.org
Message-ID: <32B7EF77.F4E@gte.net>
Rendered body type: text/plain

Roger Sellers wrote:

>   Please pardon the stupid question, but what is or what do you mean by
> "install r48"??
>

There is a place in the KPC3 to install a 4.7k resistor which is identified as R48. This will pull the DSR & DTR lines high.

73

Demos KR4US
kr4us@amsat.org

---

539. subscribe

From: wa4gkm@juno.com (Nicholas R. Smith)
Date: Wed, 18 Dec 1996 09:41:18 EST
To: aprssig@tapr.org
Message-ID: <19961218.083835.2966.0.wa4gkm@juno.com>
Rendered body type: text/plain

```
subscribe

wa4gkm@juno.com

Nick - WA4GKM
Chief Pilot  Trade-A-Plane
Editor Amateur Radio Trader
```

---

540. Xmas specials

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Dec 1996 09:56:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961218095429.15745E-100000@arctic>
Rendered body type: text/plain

```
A local up here said the GPS-45 was going in his local boat store for
$150.  We on the voice repeter asked for details, but then they guy backed
off and couldnt remember the exat model number, nor the name of the store.
But it is a good reminder to check out your favorite GPS stores to look
for XMAS sales and year end closeouts.  They may have been dumping old
GPS-45's to clear out stock for the newer 45xl...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

541. Re: [APRSSIG:7409] subscribe

From: Tyler Parsons <tparsons@peak.org>
Date: Wed, 18 Dec 1996 07:02:51 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961218150251.0069f980@peak.org>
Rendered body type: text/plain

```
At 08:47 12/18/96 -0600, you wrote: to aprssig@tapr.org
>subscribe
>
>wa4gkm@juno.com
>
>Nick - WA4GKM
>Chief Pilot  Trade-A-Plane
>Editor Amateur Radio Trader
>
>
You sent your message to the entire list, but not the list server.

Send a message to <listproc@tapr.org> with the following in the body:

subscribe aprssig


Tyler Parsons PLS  WB7DDL     USMA '68
tparsons@peak.org    Corvallis, Oregon
http://www.peak.org/~parsont/
Ray Bradbury: "We are an impossibility in an impossible universe."
```

---

542. NEWUSER

From: Gerald Fuller <usdcc3h5@ibmmail.com>
Date: Wed, 18 Dec 1996 10:00:55 -0800
To: aprssig@tapr.org
Message-ID: <32B83157.DC5@ibmmail.com>
Rendered body type: text/plain

```
Bob; thank you for registering me as a user on APRS. I do have a few
questions; How do I get rid of the "NEWUSER" that is appended on some out
going packets? Also; I down loaded the APRS 7.7.e but I see under the
"README" directory the file "newnotes.txt" reference to "77f" is this a
miss print? Can u help...thanks.
```

---

543. Re: [APRSSIG:7375] HF station up

From: pmann@juno.com (PETER J MANN)
Date: Wed, 18 Dec 1996 10:40:48 EST
To: aprssig@tapr.org

Message-ID: <19961218.031445.4279.3.PMANN@juno.com>
Rendered body type: text/plain

at 09:30 local 18 December I done see you on my screen. Rig stays on 24
hours
a day EXCEPT FOR THUNDERSTORMS...what unproto you using? might try
RELAY.
73
HAVE A GREAT DAY!
Pete

---

544. Re: [APRSSIG:7399] Dosaprs and Win95

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Wed, 18 Dec 1996 09:53:23 -0800
To: aprssig@tapr.org
Message-ID: <32B82F93.1499@cjnetworks.com>
Rendered body type: text/plain

Robert Radmore wrote:
>
> I am a new upgrade to Win95 and find I can't run DosAprs in a full window.
> Is there a work around or must I load a version of the old Dos?
>
> Any help would be appreciated.
>
> Please reply direct so as to avoid bandwidth.
>
> Thanks in advance de Bob N2PWP
> Bob Radmore
> Amateur call - N2PWP
> Packet - N2PWP@KE2VW.#WNY.NY.USA.NOAM
> E-mail - R.RADMORE@WORLDNET.ATT.NET
Bob,
Well Well,,, Windows-95... I know the wonderment! Have you noticed,
that with the older first versions of DOS, and WINDOWS 3.1, you got a
MANUAL?? I mean a MANUAL???
Now with WIN-95 we get a phamplet! HI HI... The largest op system yet,
from IBM Compatible, and a Leaflet on BASIC stuff.. I even changed the
"My Computer", and "Network Neighborhood" short cut icons.
Sounds like a little kid saying MIIIINNNNEEE--MY COMPUTER!!!! HI HI..
Network Neighborhood?--- I sure am glad that I do not live on that
block!
HI HI...
It is OK, and I guess Bill Gates thinks this will make the average
public feel MORE COMFTORABLE... Just like PLUG AND PLAY...OH YEH, WE all
have a lot of money to buy PLUG and PLAY hardware.. Just throw our old
stuff out, cause no one ever saves the papers that came with them, and
NOONE knows what all those little black jumpers are for, or what they
mean...
For me, it has taken the CONTROL out of how I, and not the PC, wants my
IRQ's set up, memory addresses, etc. I can still control it, but you
have to FOOL the plug and play feature.
I have code named it :: PLUG AND HOPE! You can only HOPE that your old
DOS hardware/Software will work right.
The COMPUTER KNOWS BEST?? Riigghhtt.
I am using WIN-95 though, because as a LAN/WAN Administrator, I have to
learn such new things, or RETIRE!
I am not as discusted as I sound, but I have been where you are, and
there is nowhere to turn... Have you ever tried to call Microsoft?
(Hit 1 for this, 2 for that, 3 for WHAT?, 4 to repeat..)
I feel they should either hire 1000 Tech Support Reps, or SEND A MANUAL
WITH THEIR PRODUCT!!
Win 95 is NOT ALL BAD, and has a LOT OF USEFUL Features, and am sure it
has secured a valid place in computing.
OK ENOUGH from me!
(Being 1/3 German, 1/3 Scotch, 1/3 IRISH--- It is hard being a Hard
Headed-Tight Wad-that NEVER GIVES UP!!!! HI HI..)

Icons become "Shortcuts", directories become "FOLDERS", the the key word
for every thing is "PROPERTIES".

(Windows 95 Resource Kit is the manual you need. Available as a seperate
item now) I do not have a resource kit yet, but will be getting one I
think.

Try this:
Go to "Start"
Then "SETTINGS"
Then "TASK BAR"
Then "ADVANCED"

```
Then "Find the short cut (ICON ) which you use to Start your APRS.
Then "Highlight it by clicking ONCE ONLY. (Twice will start it up-HI!)
Then "Hit your RIGHT MOUSE BUTTON" You will see several options show up.
Then "Select "PROPERTIES"
Then "Select "PROGRAM"
Then "Select "ADVANCED"
Then "Once you get here, look over your options"
Specify Conventional memory. I would think 485 or 500k would be OK.
Just leave the XMS EMS and others at "AUTO", or "NONE",

MAIN POINT!!
CHECK THE BOX THAT SAYS {"DOS APPLICATIONS IGNORE WINDOWS SETTINGS"}
Other than that, just keep trying to set different things up in that
PROPERTIES, PROGRAM, ADVANCED window.
        The other thing you did not mention is how much RAM memory you have?
Really, 16 Meg is about the minimum for WIN-95.
(I know they say 8-meg, but you end up waiting for the swap memory
writes to your HD all the time, not to mention the WEAR on your HD.)
Also when they specify 8-meg, they think you are running ALL WINDOWS
apps.
It really taxies the system, to run DOS apps through Windows. It did for
WINDOWS 3.1, and it still does for WIN-95.
Hope I have not TOTALY COMFUSED YOU!
GOOD LUCK!
And I know Mark and Keith are LAUGHING THEIR HEADS OFF now..
Take care De AAØMM, Ross
```

---

545. Re: Peet Bros. U-500

From: joefoor@digitalexp.com (Foor, Joe)
Date: Wed, 18 Dec 1996 09:16:36 -0600
To: APRSsig <aprssig@tapr.org>
Message-ID: <32B80AD4.55E9@digitalexp.com>
Rendered body type: text/plain

```
Keith Sproul wrote:
>
> You need to use the DATA format that starts with "!!" to make it work with
> WinAPRS and MacAPRS..
>
> I will also look at making it work with the sentance you mentioned ($ULTWO..)

... and Mark also wrote;

> We will take a look at it asap and make sure it works correctly.  If it
> doesnt, we will have it fixed ASAP.

Thanks Keith and Mark;

I tried setting it up the same way as the U-2000, with the TNC in GPS
mode, but then APRSdos was mixing the BText in with the weather data.
I didn't think to check if WinAPRS was displaying it properly that
way. It was only after I failed, that I turned the page and saw the
U-500 had a paragraph directing a different set up than for the
U-2000.

I reread the U-500 manual and according to it, the U-500 organises
the serial output exactly the same as the U-2000. That would seem to
imply that I could set it up either way, but it didn't work out.

Since APRSdos is used almost exclusively in this area, I'll leave it
as it is, for now.

regards,
Joe kf4dys
```

---

546. WinAPRS startup

From: ko6xs@ko6xs.ampr.org
Date: Wed, 18 Dec 96 06:54:19 PST
To: aprssig@tapr.org
Message-ID: <10165@ko6xs.ampr.org>
Rendered body type: text/plain

```
GM All,
   I recently received an APRS cable from Kantronics that is supposed to allow
the use of the KPC-3 and a GPS 45 on a laptop with one com port. My problem
is the error message I get on startup:"Port failed to open." I tried the debug-
ging routine (shift key on startup). It tells me:
Serial Library "serthunk.dll" loaded OK
Calling SerialOpen
```

```
Returned from SerialOpen
 (TNC setup commands issued)
Calling SerialOpen
 (I see info received via radio at the bottom of screen)
Retturned from SerialOpen
```

When I hit OK to the last dialog box, The "port failed to open" box appears
and the program stops. Any ideas on this problem would be greatly appreciated.

73s de Jonathan

TNX & 73s de ko6xs, Jon

```
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         □ □□□  smtp  ko6xs.ampr.org. 44.16.1.241   □□□ □
         □ □□□  ax25  ko6xs@kk6yo.#soca.ca.usa      □□□ □
         □ □□□  email ko6xs@wwcb.earthlink.net      □□□ □
         □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
```

547. Re: Question on balloons

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Dec 1996 11:22:14 -0500 (EST)
To: bob.hartman@wlio.com
Cc: amsat-bb@amsat.org, aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961218111306.15745P-100000@arctic>
Rendered body type: text/plain

On Tue, 17 Dec 1996 bob.hartman@wlio.com wrote:

> I read with some interest your comments on using the APRtrak tracking
> program ... and ... that APRS has been used on many balloons, but...
> has anyone ever launched a balloon that wouldn't break at 100K
> altitude, but instead ride the wind currents across the USA?
>
> If a GPS could be got for $160 or less and a used HT and TNC could be
> used, there would not be a large investment at risk. Perhaps a whole
> network of Eastern command stations could be exchanging data over the
> Internet as to its location, etc and when it reached one of their
> areas, they would transmit a secret command up to the balloon which
> would release the payload for recovery...

REPLY: I think its a great idea. It would cover the USA almsot like a
satelite, last about a week and be a lot of fun for a lot less $$$, hi hi

See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

548. WinAPRS 1.1.7 Question?

From: "Benjamin K. Derry" <derryb@galesburg.net>
Date: Wed, 18 Dec 1996 10:25:45 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961218162545.006abd84@pop3.galesburg.net>
Rendered body type: text/plain

Hi I have been watching this list for a while and I havn't heard anyone
complain about this:

```
Unhandled Exception: c0000005
At address:   00449394
Top of stack:  004a805c
```

HELP!

Ben

```
=====================================================================
Benjamin K. Derry               mailto:derryb@galesburg.net
Personal Home Page:             http://www.galesburg.net/~derryb/
Paket E-Mail:                   N9VPU@N9GQR.#WCIL.IL.USA.NOAM
=====================================================================
```

549. Re: [APRSSIG:7416] WinAPRS startup

From: Mark Sproul <sproul@ap.org>
Date: Wed, 18 Dec 1996 11:43:15 -0500
To: aprssig@tapr.org
Cc: ko6xs@ko6xs.ampr.org
Message-ID: <v03007806aeddcee8a475@[165.1.27.20]>
Rendered body type: text/plain

>GM All,
>   I recently received an APRS cable from Kantronics that is supposed to allow
>the use of the KPC-3 and a GPS 45 on a laptop with one com port. My problem
>is the error message I get on startup:"Port failed to open." I tried the
>debug-
>ging routine (shift key on startup). It tells me:
>Serial Library "serthunk.dll" loaded OK
>Calling SerialOpen
>Returned from SerialOpen
> (TNC setup commands issued)
>Calling SerialOpen
> (I see info received via radio at the bottom of screen)
>Retturned from SerialOpen
>
> When I hit OK to the last dialog box, The "port failed to open" box appears
>and the program stops. Any ideas on this problem would be greatly appreciated.
>
>73s de Jonathan
>
>TNX & 73s de ko6xs, Jon
>

If you are using Windows 3.1, the HSP support is not finished, I have to
update the SER16DLL.DLL file which I dont have done yet.

If you are using Win95, then you must have the new SERIAL32.DLL, look at
the INTERNAL STATE WINDOW, and it will tell you if HSP mode is available,
if you are using the old DLL, then it wont be available.

If this doent solve the problem, send me another message (private not to
the sig) with full details and I will look into it.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

550. PK-232

From: Bruce Douberley <bcdpe@innova.net>
Date: Wed, 18 Dec 1996 11:45:37 -0500
To: aprssig@tapr.org
Message-ID: <v03007802aeddcc9d9fc2@[130.127.29.28]>
Rendered body type: text/plain

I have put my PK-232 mbx back on line as an aprs unit. It works fine but
if I exit the program and leave the tnc and radio on, the tnc switches from
error/conv to cmd and doesn't appear to remain active. I have played with
the restore file up to and including removing all cmds in it and it still
changes.

Anyone with any ideas?

Thanks

Bruce Douberley
WB4JNE
NNN0KBN SC
Email : bcdpe@innova.net

551. Re: [APRSSIG:7412] NEWUSER

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Dec 1996 11:54:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961218115325.15745V-100000@arctic>
Rendered body type: text/plain

I didnt think that APRSdos put NEWUSER in its outpgoing packets. Only on
the screen with the initial help text on how to put your station on the
map... Anyway, just use the INPUT-MY-STATUS command to change your STAUTS
packet to anything you like...

Reply mail addr: wb4apr@amsat.org

```
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

552. Re: [APRSSIG:7410] Xmas specials

From: rbeckett@Schwab.COM
Date: Wed, 18 Dec 1996 08:56:50 +0000
To: aprssig@tapr.org
Message-ID: <9612181656.AB00129@sv0001dev.dev.schwab.com>
Rendered body type: text/plain

```
Bob Bruninga wrote

> A local up here said the GPS-45 was going in his local boat store for
> $150.  We on the voice repeter asked for details, but then they guy backed
> off and couldnt remember the exat model number, nor the name of the store.
> But it is a good reminder to check out your favorite GPS stores to look
> for XMAS sales and year end closeouts.  They may have been dumping old
> GPS-45's to clear out stock for the newer 45xl...
>
> Reply mail addr:   wb4apr@amsat.org
> See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html

I saw a Magellen 2000 advertised by Kmart for $150 this past Sunday.
I don't know anything about this GPS. Is it a good one for APRS?

Rich WB6EEE
```

---

553. Re: [APRSSIG:7418] WinAPRS 1.1.7 Question?

From: Mark Sproul <sproul@ap.org>
Date: Wed, 18 Dec 1996 11:59:03 -0500
To: aprssig@tapr.org
Cc: derryb@galesburg.net
Message-ID: <v03007807aeddd2897eca@[165.1.27.20]>
Rendered body type: text/plain

```
>Hi I have been watching this list for a while and I havn't heard anyone
>complain about this:
>
>Unhandled Exception: c0000005
>At address:   00449394
>Top of stack:  004a805c
>
>HELP!
>


Unfortunately, that is a standard WINDOWS trap, and the data (address,
stack) is useless, I have tried to figure out stuff from it but its
impossible.

If you have a REPEATABLE crash, meaning that you can go thru a specific set
of actions and it crashes, PLEASE, send it to me (private, not to the SIG)
and I will try my best to figure out what is going on.


Mark

___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

---

554. Re: [APRSSIG:7407] Radio Shack Kenwood and others?

From: jkozak@erols.com (John W. Kozak)
Date: Wed, 18 Dec 1996 12:32:25 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612181732.MAA20396@smtp1.erols.com>
Rendered body type: text/plain

```
Bruce Douberley wrote..

>We had our annual Ham Club Christmas dinner last night and a discussion of
our deteriorating band conditions ensued.
>One thing that was brought up was that certain amateur equipment
manufacturer(s)  is/are flooding the market with 2mtr/70cm and HF gear.  Do
```

they see the handwriting on the wall and are emptying their warehouses? No
problem - right - except that it is being done through TRUCK STOPS (maybe
other places too). One of our members has been a ham for 8 years and is a
truck driver and comfirmed this as so. Just stop in and buy no questions
asked. That is why there is garbage on the air calling itself "The Ham From
Hell" and I am sure others turning the spectrum into what we all feared.
>

Non amateur radio sales is NOT anything new. I have seen CB'ers shacks that
would make most hams envious. And these are people who don't operate
anywhere but on the CB channels. This has been a very large market for
Amateur HF equipment for years. Boaters also buy these radios. They are much
cheaper than the legal marine SSB radios. A lot of SWL'ers buy Ham
tranciever rather than just recievers to do their listening and never hook
a mike up to them. After all, they are going to get their ticket 'one of
these days' All of the major manufacturers and retailers have made a large
part of their income on these Non-Ham sales. I doubt that we would have the
selection or prices on equipment that we have today if ONLY licensed
amateurs were able to buy these radios. The fact is that the Amateur
community is a rather small one and there would not be enough of a market to
attract the manufacturers attention if their sales were restricted to
licensed amateurs. Be careful of what you ask, you may get it and have to
suffer the consequences!

Anyway, Whats this have to do with APRS?

John Kozak; N3AGG
jkozak@erols.com (Blast me at this address!)

555. Re: [APRSSIG:7411] Re: subscribe

From: Tyler Parsons <tparsons@peak.org>
Date: Wed, 18 Dec 1996 09:32:11 -0800
To: aprssig@tapr.org
Message-ID: <2.2.32.19961218173211.00699128@peak.org>
Rendered body type: text/plain

At 09:08 12/18/96 -0600, I wrote:

>You sent your message to the entire list, but not the list server.
>Send a message to <listproc@tapr.org> with the following in the body:
>subscribe aprssig
>
>Tyler Parsons PLS WB7DDL USMA '68 etc.

I appologize to the entire list for not looking at the header when
replying.
Just trying to help the guy out. I have since sent him a direct message.

Tyler Parsons PLS WB7DDL USMA '68
tparsons@peak.org Corvallis, Oregon
http://www.peak.org/~parsont/
Ray Bradbury: "We are an impossibility in an impossible universe."

556. Re: [APRSSIG:7422] Re: Xmas specials

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Wed, 18 Dec 1996 11:39:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <m0vaPyC-0000ZxC@ernest.itg.ti.com>
Rendered body type: text/plain

> I saw a Magellen 2000 advertised by Kmart for $150 this past Sunday.
> I don't know anything about this GPS. Is it a good one for APRS?
>
> Rich WB6EEE

I think the 2000 has a built-in antenna with no provision for external
antenna. In my opinion, this makes it less-than-ideal for APRS.

--
```
Alan Edmonds, KB5ZUY                         Texas Instruments, Inc.
System Administrator, Composer Development   M/S 8515
Phone: +1-972-575-6427                       6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                   Plano, TX, USA  75023
```

557. Re: [APRSSIG:7419] Re: WinAPRS startup

From: "Kent Hufford" <khufford@erols.com>
Date: Wed, 18 Dec 1996 13:03:11 -0500

To: <aprssig@tapr.org>
Message-ID: <199612181757.MAA23711@smtp1.erols.com>
Rendered body type: text/plain

Some laptops do NOT supply the correct voltage to support the HSP cable.
All my
Toshibas did. My current TI does not. I had to add a 9vdc battery to the
serial cable to support the hsp.

> From: Mark Sproul <sproul@ap.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7419] Re: WinAPRS startup
> Date: Wednesday, December 18, 1996 11:49 AM
>
> >GM All,
> >   I recently received an APRS cable from Kantronics that is supposed to
allow
> >the use of the KPC-3 and a GPS 45 on a laptop with one com port. My
problem
> >is the error message I get on startup:"Port failed to open." I tried the
> >debug-
> >ging routine (shift key on startup). It tells me:
> >Serial Library "serthunk.dll" loaded OK
> >Calling SerialOpen
> >Returned from SerialOpen
> > (TNC setup commands issuded)
> >Calling SerialOpen
> > (I see info received via radio at the bottom of screen)
> >Retturned from SerialOpen
> >
> > When I hit OK to the last dialog box, The "port failed to open" box
appears
> >and the program stops. Any ideas on this problem would be greatly
appreciated.
> >
> >73s de Jonathan
> >
> >TNX & 73s de ko6xs, Jon
> >
>
>
> If you are using Windows 3.1, the HSP support is not finished, I have to
> update the SER16DLL.DLL file which I dont have done yet.
>
> If you are using Win95, then you must have the new SERIAL32.DLL, look at
> the INTERNAL STATE WINDOW, and it will tell you if HSP mode is available,
> if you are using the old DLL, then it wont be available.
>
> If this doent solve the problem, send me another message (private not to
> the sig) with full details and I will look into it.
>
>
> Mark
>
>
____
> Mark Sproul |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press |
> sproul@ap.org |Work: 609-860-7120
> North Brunswick, NJ |Fax: 609-860-7129
> http://msproul.rutgers.edu/
>
____
>
>

558. Re: [APRSSIG:7404] Re: dfJr

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 18 Dec 1996 13:02:05 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aedde6002779@[199.1.11.114]>
Rendered body type: text/plain

Thanks for the DFjr tips about testing with a scope and not a VOM.
and adding a pre-amp to up the gain before closing in on the fox.

>The VOM is not a good way to test the antenna, a scope is,
>proper voltage swings need to be observed,
>as when we test before ship.

I am glad you reminded us of the problem of a momentary squirt
of xmit from some HT's . I have read about lots of 2.5 GHZ downconverters
fried by a single small bleep of RF.

>some HT's will transmit momentarily, just enough time to cause the damage.
>Receivers are recommended, ICOM, Yaseu, Kenwood, etc. not scanners, they
>are junk.

But a scanner is a good tool to use to test and help setup the DFjr.
It will keep you out of trouble as you learn to use the DF unit. It
will pull in station that are on 24 hr/day to allow late night
testing.

The scanner will work well to track strong signals like repeaters and
the NOAA weather stations.

The wide front end of a cheap scanner will give lots of intermod on
2 meters and as Joe said is not the best solution, but it does work.

You can also find some RS HTX-202 with blown finals at a sidewalk sale
and use them as receive only.
(a HTX-202 at 13.5+ volts outputs 8 to 9 watts and can get HOT !)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

559. Re: [APRSSIG:7428] Re: dfJr

From: Joe Agrelo <jagrelo@cris.com>
Date: Wed, 18 Dec 1996 15:07:10 -0800
To: aprssig@tapr.org
Message-ID: <32B8791E.7961@cris.com>
Rendered body type: text/plain

Robert Winingham wrote:

> >some HT's will transmit momentarily, just enough time to cause the damage.
> >Receivers are recommended, ICOM, Yaseu, Kenwood, etc. not scanners, they
> >are junk.
>
> But a scanner is a good tool to use to test and help setup the DFjr.
> It will keep you out of trouble as you learn to use the DF unit. It
> will pull in station that are on 24 hr/day to allow late night
> testing.

I admit that my statement of all scanners are junk was a bit harsh, some
are
pretty good.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

560. Re: [APRSSIG:7397] Re: APRS/Java ..

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Wed, 18 Dec 1996 14:16:30 -0800
To: aprssig@tapr.org
Message-ID: <32B86D3E.38EC@cjnetworks.com>
Rendered body type: text/plain

Steve Dimse wrote:
>
> >I have it loaded on my PC. I am not sure what you are referring to, with

> >APRS JAVA..., however, I have tried to use it on live APRS sites, with
> >no success. It just tells me that the browser does not have JAVA
> >capability. I was wondering about the same thing...
> >What are you all using for JAVA to view the live APRS sites?? JAVA is
> >very new to me, and I know very little about it..
>
> The live sites have the javAPRS applet on them, it is the only way to see
> them.
>
> Confirming you have the (brand new, one day old) beta Netscape 3.01 for
> Windows 3.1 with java support? You need to enable java on one of the
> preference dialogs.
>
> Steve K4HG

OK, I checked on that.
In Options, Network Preferances, Languages, Enable JAVA script WAS
ENABLED!..
All I got was a message that the Browser was not set to accept JAVA when
I went to a JAVAPRS site... I will try and let you know if it ever
does..
CUL De Ross.

561. KPC-3 Settings

From: Mike Heskett <mheskett@startext.net>
Date: Wed, 18 Dec 1996 14:45:05 -0600
To: aprs <aprssig@tapr.org>
Message-ID: <32B857D1.5CF4@mail.startext.net>
Rendered body type: text/plain

Today, I converted one of our existing digipeaters from a KPC-2 to a
KPC-3. The digi also runs APRSdos 7.7e. It uses the standard
INITTAPR.TNC file. One alias is WIDE, one is RELAY. The Unproto path is
APRS v WIDE. What happens is that the digi transmits and sees its own
packet. Therefore it also transmits it as a WIDE.

MXMIT is OFF (at least it says it is - doesn't act like it).
INTFACE is set to TERM. Things display correctly.

If I send a packet via WIDE,WIDE, the digi transmits it twice.

What am I missing?
--
==/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/===/
Mike Heskett   email   mheskett@startext.net
WB5QLD   packet WB5QLD@WO5H.#DFW.TX.USA.NOAM
Hurst, TX
O-

562. Building New Station

From: Chris Dapples <ccdapple@wtp.net>
Date: Wed, 18 Dec 1996 14:54:26 -0700
To: APRSSig <aprssig@tapr.org>
Message-ID: <32B86812.AFC@wtp.net>
Rendered body type: text/plain

Greetings All,

I am starting to setup an APRS gateway station here
in south central Montana. I have tried running on HF for
several days and can hear many stations, but I doubt anyone
could hear me. My location is in a valley at the base of the
Beartooth Mountains (NE entrance to Yellowstone Park). I would
like to put up a remote WX and possibly VHF base up in the mountains
that will be useful during fire season but that will
have to wait until the summer. In the mean time I want to start
assembling the necessary stuff to make it all work.
So my immediate question is for those of you running
HF gateways on 30 meters (10,149.30 FSK). What antennas do you
use? Could I get away with using a vertical, possibly one for
mobile? How much power are you running?
Any station descriptions would be appreciated.
Thanks es 73, Chris / KF7KN
ccdapple@wtp.net

563. Unsubscribe

From: smithal@ix.netcom.com (Arthur L. Smith)
Date: Wed, 18 Dec 1996 13:55:47 -0800
To: aprssig@tapr.org

Message-ID: <199612182155.NAA19790@dfw-ix7.ix.netcom.com>
Rendered body type: text/plain

[Empty message body]

---

564. Re: [APRSSIG:7417] Re: Question on balloons

From: Ralph Fowler N4NEQ <rwf@mindspring.com>
Date: Wed, 18 Dec 1996 17:34:07 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961218173124.006bd39c@mindspring.com>
Rendered body type: text/plain

Yep- It is called a "Zero-Pressure" balloon and one was just launched a couple of months ago in Alabama. My Group, The Atlanta Balloonatics, was who recovered it once it got to Atlanta. Lots of times Bill Brown, WB8ELK, sends his balloons this way because he knows we have a lot of hunters here and that we heartily embrace APRS.

This particular balloon was going to float until commanded down. It looked like a 50 ft tall , limp dry cleaner's bag. Unfortunately the balloon tore on the first launch attempt and the hole reopened at about 37000 ft. Instead of floating for hours and being cut down here in my back yard (yes, Bill can really calculate them that closely) it went down on its own, but using APRS and the Directional Systems Doppler DF, we found it in minutes. Bill hopes the next one will have a very extended flight.

Hey- does anyone out West want to send one over here to us?

If you want to read more about it an=d see pictures, too- try the following web address:

http://fly.HiWAAY.net/~bbrown/halo5.htm

By the way, we organized the recovery team in a few hours- we had not been notified of the flight until 11:00 the night before.

More balloonatics info is at: http://www.mindspring.com/~rwf as are pictures of the Directional Systems DF unit we use.

Ralph

At 10:20 AM 12/18/96 -0600, you wrote:
>On Tue, 17 Dec 1996 bob.hartman@wlio.com wrote:
>
>> I read with some interest your comments on using the APRtrak tracking
>> program ... and ... that APRS has been used on many balloons, but...
>> has anyone ever launched a balloon that wouldn't break at 100K
>> altitude, but instead ride the wind currents across the USA?

---

565. APRS on an 8088

From: Josh Housey <lhousey@excel.net>
Date: Wed, 18 Dec 1996 16:38:00 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961218163544.41c78af8@excel.net>
Rendered body type: text/plain

Helloto everyone on the sig. The name here is Josh located in Sheboygan Wisconsin. I have a problem with working DOS Aprs working on an 8088 system. The question is that when I start APRS on this computer I get a weird error, and the program won't load at all. I am running an 8088 with a black/white monitor with a Hercules video adapter. Does anyone know why it is doing this??? The main reason I want it to work on my 8088 is because I do not want to use the main computer which is a 486 for APRS all the time, and want to use the 8088 because it's main purpose is to use for packet and APRS.
If anyone has an answer to this problem will be appreciated!
Thanks.
73
Josh

____
Josh, Lee, Linda, Steve, Travis, and Tim Housey
lhousey@excel.net
Sheboygan, Wisconsin
Amateur Radio: Josh, KG9BO es Lee, N9YLS
Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
Packet: N9YLS@N9GHE.#MTW.WI.USA.NA

```
Lattitude: 43' 45" N
Longitude: 87' 43" W
________________________________________________
```

566. Re: [APRSSIG:7426] Re: Xmas specials

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Wed, 18 Dec 1996 17:52:22 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961218175133.27244C-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Wed, 18 Dec 1996, Alan Edmonds wrote:

>
> > I saw a Magellen 2000 advertised by Kmart for $150 this past Sunday.
> > I don't know anything about this GPS. Is it a good one for APRS?
> >
> > Rich WB6EEE
>
> I think the 2000 has a built-in antenna with no provision for external
> antenna.  In my opinion, this makes it less-than-ideal for APRS.

Yes, but neither does the Tripmate, and it seems to be getting very popular.


Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

567. Re: [APRSSIG:7431] KPC-3 Settings

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Dec 1996 18:11:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961218180952.20043C-100000@arctic>
Rendered body type: text/plain

```
On Wed, 18 Dec 1996, Mike Heskett wrote:

> Today, I converted one of our existing digipeaters from a KPC-2 to a
> KPC-3. The digi also runs APRSdos 7.7e. It uses the standard
> INITTAPR.TNC file. One alias is WIDE, one is RELAY. The Unproto path is
> APRS v WIDE.  What happens is that the digi transmits and sees its own
> packet. Therefore it also transmits it as a WIDE.

APRSdos REPLY/COMMENT: Call KANTRONICS and speak to the boss.  THE KPC
needs to be able to IGNORE its own transmitted packets.  If you are uisng
an MFJ data radio or any other radio that hears its own transmissions,
then you will have this problem!  It needs to be fixed in the TNC...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

568. Re: [APRSSIG:7435] APRS on an 8088

From: Greg <gvb@emi.net>
Date: Wed, 18 Dec 1996 18:18:37 -0500
To: aprssig@tapr.org
Message-ID: <32B87BCD.4F19@emi.net>
Rendered body type: text/plain

```
Josh Housey wrote:
>
> Helloto everyone on the sig. The name here is Josh located in Sheboygan
> Wisconsin. I have a problem with working DOS Aprs working on an 8088 system.
> The question is that when I start APRS on this computer I get a weird error,
> and the program won't load at all. I am running an 8088 with a black/white
> monitor with a Hercules video adapter. Does anyone know why it is doing
> this??? The main reason I want it to work on my 8088 is because I do not
> want to use the main computer which is a 486 for APRS all the time, and want
> to use the 8088 because it's main purpose is to use for packet and APRS.
> If anyone has an answer to this problem will be appreciated!
> Thanks.
> 73
> Josh
> _______________________________________________
> Josh, Lee, Linda, Steve, Travis, and Tim Housey
> lhousey@excel.net
> Sheboygan, Wisconsin
> Amateur Radio: Josh, KG9BO es Lee, N9YLS
> Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
> Packet: N9YLS@N9GHE.#MTW.WI.USA.NA
> Lattitude: 43' 45" N
> Longitude: 87' 43" W
> ________________________________________________
The install.txt file that is in the readme subdirectory of the dos aprs
distibution states it will not work with hercules adapters.
```

569. APSR SIX METER LINK

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Wed, 18 Dec 1996 19:05:28 EST
To: aprssig@tapr.org
Message-ID: <19961218.180454.4647.1.WD4CQE@juno.com>
Rendered body type: text/plain

```
Start looking for APRS six meter link linked via WA4GKM-5 by the Weekend.
We are looking for ways to build more cross country links without causing
to many signals on the 2 meter frequency. For more info  or questions
send E-mail to Ken, WD4CQE@juno.com , or Nick, WA4GKM@juno.com

:)

73's to all on the SIG  I have enjoyed the many interests and questions
or the SIG.
.........................................................................................................
...........................................
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
HAPPY HOLIDAYS, AND MERRY CHRISTMAS
        from  WD4CQE,  Ken
.........................................................................................................
.........................................................................................................
.......................................................................................................
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
wd4cqe@juno.com
```

570. Re: [APRSSIG:7386] Re: qbasic availability

From: jack swift <jswift@up.net>
Date: Wed, 18 Dec 1996 19:22:48 -0500
To: aprssig@tapr.org
Message-ID: <9612190019.AB22136@btc1>
Rendered body type: text/plain

```
finally found it -- had to work through several 'levels' of microsoft... cdw
has it for $120..


At 01:19 PM EST 12/17/96 -0600, you wrote:
>On Tue, 17 Dec 1996, jack swift wrote:
>
>> I decided to check the price of QB version 4.5 ---- can't find it
>anywhere!!!
>
>APRSdos REPLY/COMMENT:  If Microsoft is truely no longer selling or
>supporting QB.exe then is it legal to share it or post it?  QB is the big
>brother of QBASIC.exe included in all DOS operating systems and is needed
>to run the source code for MAPFIX..  Any legal opinions?  Im sure it is
>still copyrighted etc... but what the heck...
>
>Reply mail addr:   wb4apr@amsat.org
>See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
>GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
>
>
>
>
>
--------------------------------------------------------------------------
Jack Swift   jswift@up.net   N8WAV@W8YY.#UPMI.MI.USA.NA   47.119N 88.572W
Swift True Value Hardware             402 Shelden Ave. Houghton, MI 49931
906-482-0530, 0531, 7766   Alpha Phi Omega Epsilon Lambda Chapter Advisor
Houghton County Amateur Radio Emergency Service           Dereliction IS!
Keweenaw Peninsula Chapter American Red Cross CIO/Treasurer    Ham It Up!
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

571. Re: [APRSSIG:7434] Re: Question on balloons

From: William Nolle <wa8inz@concentric.net>
Date: Wed, 18 Dec 1996 18:53:12 -0800
To: aprssig@tapr.org

Message-ID: <32B8AE18.3001@concentric.net>
Rendered body type: text/plain

Ralph Fowler N4NEQ wrote:
>
> Yep- It is called a "Zero-Pressure" balloon and one was just launched a
> couple of months ago in Alabama. My Group, The Atlanta Balloonatics, was
> who recovered it once it got to Atlanta. Lots of times Bill Brown, WB8ELK,
> sends his balloons this way because he knows we have a lot of hunters here
> and that we heartily embrace APRS.

Bill doesn't have any control over where they are going to land by the way. In
the future they may be alble to direct (Or pick) a landing site using a
controlable parasail that the Huntsville group is playing with. But the winds
aloft is going to take it where it want to. Also the balloon while being made
ready touched the ground and that's what ripped the hole in the balloon.
>
> This particular balloon was going to float until commanded down. It looked
> like a 50 ft tall , limp dry cleaner's bag. Unfortunately the balloon tore
> on the first launch attempt and the hole reopened at about 37000 ft.
> Instead of floating for hours and being cut down here in my back yard (yes,
> Bill can really calculate them that closely) it went down on its own, but
> using APRS and the Directional Systems Doppler DF, we found it in minutes.
> Bill hopes the next one will have a very extended flight.

Yes this balloon would have gone right to the coast if there wouldn't have
leaked.

>
> Hey- does anyone out West want to send one over here to us?
>
> If you want to read more about it an=d see pictures, too- try the following
> web address:
>
> http://fly.HiWAAY.net/~bbrown/halo5.htm
>
> By the way, we organized the recovery team in a few hours- we had not been
> notified of the flight until 11:00 the night before.
>
> More balloonatics info is at: http://www.mindspring.com/~rwf as are
> pictures of the Directional Systems DF unit we use.
>
> Ralph
>
> At 10:20 AM 12/18/96 -0600, you wrote:
> >On Tue, 17 Dec 1996 bob.hartman@wlio.com wrote:

Yes the Atlanta group did a great job of tracking it, and how about the lady
that called the police when it landed in he field. There's suppose to be
another balloon launch on december the 5th but don't think it will be on 2
meters at all. There's also going to be a rocket launched sometime in Feb that
will go into outer space, keep checking Bill Browns home page for this. By the
way the main payload on that flight was build and owned by Ed KE4ROC.

```
--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

572. Re: [APRSSIG:7435] APRS on an 8088

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Dec 1996 20:04:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961218200352.22390A-100000@arctic>
Rendered body type: text/plain

On Wed, 18 Dec 1996, Josh Housey wrote:

> Helloto everyone on the sig. The name here is Josh located in Sheboygan
> Wisconsin. I have a problem with working DOS Aprs working on an 8088 system.
> The question is that when I start APRS on this computer I get a weird error,
> and the program won't load at all. I am running an 8088 with a black/white
> monitor with a Hercules video adapter. Does anyone know why it is doing

APRSdos REPLY/COMMENT: Read the INSTALL.TXT file which says up front that
APRS will not work with any non-standard video cards such as Hercules...

Reply mail addr: wb4apr@amsat.org

```
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

573. Re: [APRSSIG:7440] Re: qbasic availability

From: "Aaron Morrison" <ae4ko@magicnet.net>
Date: Wed, 18 Dec 1996 20:25:58 -4
To: aprssig@tapr.org
Message-ID: <199612190125.UAA20938@magicnet.magicnet.net>
Rendered body type: text/plain

```
> At 01:19 PM EST 12/17/96 -0600, you wrote:
> >On Tue, 17 Dec 1996, jack swift wrote:
> >
> >> I decided to check the price of QB version 4.5 ---- can't find it
> >anywhere!!!
> >
> >APRSdos REPLY/COMMENT:  If Microsoft is truely no longer selling or
> >supporting QB.exe then is it legal to share it or post it?  QB is
> >the big brother of QBASIC.exe included in all DOS operating systems
> >and is needed to run the source code for MAPFIX..  Any legal
> >opinions?  Im sure it is still copyrighted etc... but what the
> >heck...

Most obvious legal "opinion" here is to compile mapfix to EXE form
and distribute that per the license agreement.  I know one who owns
the professional version of the above (Visual Basic for DOS) and has
already compiled it (and fixed a couple of bugs to boot!).
Distribution would be a snap!

73 de AE4KO, Aaron.


--
ae4ko@magicnet.net   "I drank what?" - Last words of Socrates.
http://www.magicnet.net/~ae4ko/home.html
Orlando, FL
```

574. NetScape for OS/2 Java Works

From: schiers@ames.net
Date: Wed, 18 Dec 96 19:06:30 -0600
To: aprssig@tapr.org
Message-ID: <199612190125.TAA12276@brain.ames.net>
Rendered body type: text/plain

```
The FINAL release (not a beta) of NS/2 for OS/2 Warp is
available. I have tested it at wa4dsy and at wb4apr. It
seems to work perfectly for both. This is REAL progress,
as the previous two betas didn't work at all for these
java sites.

The software can only be downloaded from your Warp icon
which says "Get Netscape Navigator". You will want to
download both nsos202.exe and plugpack.exe. Good instructions are provided
in the release notes. Read them BEFORE downloading the software.

Installation is pretty simple under Warp 4.0. There are some
strong caveats about Warp 3.0..it will work, but the install
is more complex.

Warnings:

You MUST uninstall either beta if present, BEFORE you install NS/2 FINAL
version. To do this:

Open an OS/2 window, change to the directory from which you
installed the NS/2 beta. Note: this is NOT the directory that  the NS/2
beta is installed in, but the temporary directory where the install files
are located. If you erased these files,
re-extract them to a temporary directory. From this temp
install directory issue the command: install /A:D  and follow the prompts
to select and uninstall the beta. In order to
process locked files a couple of re-boots are required during de-install
and install.

Installing NS/2 will overwrite some of your existing Warp 4.0 files. If
you are worried (or careful) copy them to another location before you
overwrite them. You are warned for each overwrite if you DO NOT select
"yes to all".
```

First install NS/2 Navigator, THEN install the PLUGPACK. Create a separate temporary directory for the NS/2 install files and the PLUGPACK install files. DO NOT USE SPACES in the directory names! I used nstmp and plugtmp and it worked fine.

Your Warp java will be updated to 1.02 by installing NS/2.

Initial Impressions:

1. NS/2 final release is MUCH faster than the betas. Maybe due to the debug code being removed?

2. All the java pages, even non-APRS that I have checked seem to work properly.

3. It's free...but be sure to register (from inside Netscape, choose help, register.)

4. Contrary to what the betas were like, JAVA is enabled by default. In the betas you had to turn java on or it didn't work.

If you are NOT using the IBM built in dialer (and very few of us are), you will have to highlight the NS/2 icon, then right click and go to "properties". In that screen you will see the main program call to be "Linkup.exe" and the argument "Netscape". This MUST be changed if you are using a dialer like In-Joy or any other non-IBM dialer. The change is simple: Replace Linkup. exe with Netscape.exe and delete netscape.exe from the argument window. If you fail to make this change, you will get a message saying you aren't connected to the internet, do you want to connect now?

My apologies to the sig, in that not that many people are necessarily running OS/2. However, those that are, will find this information very helpful and its purpose is to get those people access to the javaAPRS sites, which I find most intruiging.

hasan schiers, N0AN
----
schiers@ames.net

---

575. Dallas WIDE

From: Rich Casey <casey@acm.org>
Date: Wed, 18 Dec 1996 19:30:51 -0500
To: aprssig@tapr.org
Message-ID: <32B88CBB.1961@acm.org>
Rendered body type: text/plain

Greetings all:
  We've changed the E-Systems APRS club station, k5qbm-2, to a WIDE. It seems to cover the Dallas area quite well and connects nicely with the Fort Worth WIDE, WA5YVC-11. It is currently a digi only; I'll install APRS over the holidays.

Please report any problems with the digi to myself AND Matt, aa5wh, at mthomas@whynet.

73, Rich/csu

D/FW APRS Home Page: http://www.startext.net/homes/rcasey/aprs.htm

```
--
Rich Casey, Dallas TX                | Member: ARRL, AMSAT, ACM, TAPR
casey@acm.org                        | Ham Radio N5CSU
http://www.startext.net/homes/rcasey | Think globally, connect locally
```

---

576. Re: [APRSSIG:7375] HF station up

From: David Wells <davew@cruzio.com>
Date: Wed, 18 Dec 1996 19:46:47 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612181735.aa12004@bbs.cruzio.com>
Rendered body type: text/plain

At 10:01 AM 12/17/96 -0600, you wrote:
>Hi All KF7KN here in Red Lodge Montana,
>
>   I have just started an HF APRS station. I see over

```
>two dozen HF stations on my us map.  But, I am wondering if
>I show up on anyone elses aprs map?
>
>       73, Chris  / KF7KN
>       ccdapple@wtp.net
>
>.-
>

What band are you on?

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

---

577. Re: [APRSSIG:7410] Xmas specials

From: David Wells <davew@cruzio.com>
Date: Wed, 18 Dec 1996 20:38:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612181831.aa03766@bbs.cruzio.com>
Rendered body type: text/plain

```
At 08:55 AM 12/18/96 -0600, you wrote:
>A local up here said the GPS-45 was going in his local boat store for
>$150.  We on the voice repeter asked for details, but then they guy backed
>off and couldnt remember the exat model number, nor the name of the store.
>But it is a good reminder to check out your favorite GPS stores to look
>for XMAS sales and year end closeouts.  They may have been dumping old
>GPS-45's to clear out stock for the newer 45xl...
>

The company I work for (which will remain nameless so I do not seem too
commercial) has been selling GPS-45's (and some other models) as
"Distressed" (used but good) at quite a savings off the usual price. Perhaps
this is what the person was refering to.

Dave KD6TO
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

---

578. RE: Kantronics Service

From: William L Lefler <wo0e@sky.net>
Date: Wed, 18 Dec 1996 22:16:01 +0000
To: aprssig@tapr.org
Message-ID: <32B86D21.1E75@sky.net>
Rendered body type: text/plain

```
I know! I knw! Get back on topic!
Well, I use the KAM in my shack for APRS, so perhaps this isn't too
far off base. I have been experiencing some problems of late with my
1989 version KAM. It has taken to bouts of absolute jibberish (apart
from my seemingly endless drivel!) of late. I enjoy putting the KAM
on 10.149.0 (FSK) and monitoring the APRS there, so I was rather bummed
to have to go to the KPC-3 and VHF only.
        Well, will all the talk about Kantronics service, I thought I
would test the waters. I sent an email to the service department with
my dilema, and within 18 hours of sending the email, I had a reply
frm the service manager. Not only did he respond, but he gave me the
fix to my problem (the Dried Electrolytic cap syndrome spoken of here
so recently). I tried the fix, and presto! I am back to listening to
HF packets again.
        While I am *extremely* impressed with Gwynn's responsiveness
here on the sig, and when it comes time for me to up the bux for a
tracker TNC for Mama's car it will be a Pico, I think credit is due to
the Kantronics folks. They have come a long way in customer service.
        (Sounds of me stepping down from my soap box now...)
BCNU "Lef" (Bill Lefler/WO0E - Kansas City KS)
39.03.111N 094.45.070W
```

---

579. Magellan 2000

From: Tony McConnell <n3jly@erols.com>
Date: Thu, 19 Dec 1996 00:01:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612190501.AAA10700@smtp1.erols.com>

Rendered body type: text/plain

One small problem with the Magellan 2000 gps, it has no NEMA out.

The 3000 can be interfaced for an additional $35, putting it around $235, an
external anntena can be added for about $110(E&B Marine prices). It
is externally identical to the 2000.

I've got one(3000) and am not thrilled with it. I use mine at work and it is
useless
at radio sites.

Tony N3JLI

---

580. Re: [APRSSIG:7415] Re: Peet Bros. U-500

From: Jim Holley <jrholley@brutus.bright.net>
Date: Thu, 19 Dec 1996 05:46:37 GMT
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961219004537.37f798fe@mail.bright.net>
Rendered body type: text/plain

At 10:06 AM 12/18/96 -0600, you wrote:
>Keith Sproul wrote:
>>
>> You need to use the DATA format that starts with "!!" to make it work with
>> WinAPRS and MacAPRS..
>>
>> I will also look at making it work with the sentance you mentioned ($ULTWO..)
>
>.. and Mark also wrote;
>
>> We will take a look at it asap and make sure it works correctly. If it
>> doesnt, we will have it fixed ASAP.
>
>Thanks Keith and Mark;
>
>I tried setting it up the same way as the U-2000, with the TNC in GPS
>mode, but then APRSdos was mixing the BText in with the weather data.
>I didn't think to check if WinAPRS was displaying it properly that
>way. It was only after I failed, that I turned the page and saw the
>U-500 had a paragraph directing a different set up than for the
>U-2000.
>
>I reread the U-500 manual and according to it, the U-500 organises
>the serial output exactly the same as the U-2000. That would seem to
>imply that I could set it up either way, but it didn't work out.
>
>Since APRSdos is used almost exclusively in this area, I'll leave it
>as it is, for now.
>
>regards,
>Joe kf4dys
>

The problem with WinAPRS that i have run across is that you need 3
com ports
all on different IRQ's. You can't run the mouse on com1 and the wx on com3
if they are both sharing the same IRQ. I am hoping that this might help.   73
==

Jim & Sandy Holley Defiance, Ohio 43512-2914
kb8vdt@amsat.org   Registered APRS&WAPRS
jrholley@bright.net   Member TAPR&ARRL
holley@saa.net w/alaises jim,sandy,kb8vdt@saa.net
Phone 419-782-0638
==

---

581. Re: [APRSSIG:7382] Re: Peet Bros. U-500

From: BordingK@aol.com
Date: Thu, 19 Dec 1996 00:35:41 -0500
To: aprssig@tapr.org
Message-ID: <961218202502_1288735861@emout12.mail.aol.com>
Rendered body type: text/plain

While we're on the subject of Weather Stations, any method of selectively
filtering out manually entered weather stations? If not would Bob and The
Sproul Bros consider adding this feature? We're trying to set up a reliable
weather info system for the Ham and NWS use. Some folks enter wx data

manually when the mood strikes them, so totally inacurate weather is reported
for extended periods.

de KF4COH
Ken in Jax

---

582. Re: [APRSSIG:7435] APRS on an 8088

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Wed, 18 Dec 1996 22:54:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612190354.WAA02350@babbage.csee.usf.edu>
Rendered body type: text/plain

At 04:48 PM 12/18/96 -0600, you wrote:

>and the program won't load at all. I am running an 8088 with a black/white
>monitor with a Hercules video adapter. Does anyone know why it is doing
>this??? The main reason I want it to work on my 8088 is because I do not
>want to use the main computer which is a 486 for APRS all the time, and want

APRS requires at minimum a CGA monitor or CGA emulation capability.

There is a program that is a number of years old called SIMCGA which will allow you to display CGA graphics on a Hercules Monitor. For a number of years I ran numerous CGA graphics applications using SIMCGA. Using SIMCGA I have successfully used APRS (several years ago and versions back) when I had an amber colored monitor and hercules graphics adaptor. I have since upgraded to a VGA monitor and am not sure if I have the simcga program anymore but I will look.

```
73 Paul
Paul E. Knupke, Jr.                *
knupke@csee.usf.edu                *
Largo, Florida                     *  You can fight
Amateur Radio KR4YL                *  Without ever winning
Fidonet 1:3603/570.0               *  But never ever win
Assistant E.C. Pinellas A.R.E.S.   *  Without a fight
Florida Contest Group Member       *           ... Neil Peart
Trustee KE4ZYU/R 224.78 Clearwater  *               "Resist" by RUSH
```

---

583. Re: [APRSSIG:7444] NetScape for OS/2 Java Works

From: gphowell@mindspring.com
Date: Thu, 19 Dec 96 03:27:10 -0500
To: aprssig@tapr.org
Message-ID: <199612190405.EAA30116@mule1.mindspring.com>
Rendered body type: text/plain

thanks for your message, hassan, lots of help to me. BTW, all you need is the ibm address from the "get netscape navigator" brower, i used the nscape beta to get the next version. getting ready to install now.

```
--
-----------------------------------------------------------
Geep Howell WA4RTS
gphowell@mindspring.com
-----------------------------------------------------------
```

---

584. Re: [APRSSIG:7435] APRS on an 8088

From: Don Pfister KA0JLF <donp@jerryc.tyrell.net>
Date: Wed, 18 Dec 1996 22:32:34 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961218223128.4759B-100000@jerryc>
Rendered body type: text/plain

the hercules video is the problem,I beleieve. the docs say CGA, but not herc. can you emulate CGA? Mine runs fine on CGA.

On Wed, 18 Dec 1996, Josh Housey wrote:

> Helloto everyone on the sig. The name here is Josh located in Sheboygan
> Wisconsin. I have a problem with working DOS Aprs working on an 8088 system.
> The question is that when I start APRS on this computer I get a weird error,
> and the program won't load at all. I am running an 8088 with a black/white
> monitor with a Hercules video adapter. Does anyone know why it is doing
> this??? The main reason I want it to work on my 8088 is because I do not
> want to use the main computer which is a 486 for APRS all the time, and want
> to use the 8088 because it's main purpose is to use for packet and APRS.
> If anyone has an answer to this problem will be appreciated!

```
> Thanks.
> 73
> Josh
> _______________________________________________
> Josh, Lee, Linda, Steve, Travis, and Tim Housey
> lhousey@excel.net
> Sheboygan, Wisconsin
> Amateur Radio: Josh, KG9BO es Lee, N9YLS
> Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
> Packet: N9YLS@N9GHE.#MTW.WI.USA.NA
> Lattitude: 43' 45" N
> Longitude: 87' 43" W
> ________________________________________________
>
```

585. Re: Xmas specials

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 18 Dec 1996 21:57:11 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961218215713.36e7ad6e@mailhost.primenet.com>
Rendered body type: text/plain

```
At 04:59 PM 12/18/96 -0600, Richard Amirault wrote:
>On Wed, 18 Dec 1996, Alan Edmonds wrote:
>
>>
>> > I saw a Magellen 2000 advertised by Kmart for $150 this past Sunday.
>> > I don't know anything about this GPS. Is it a good one for APRS?
>> >
>> > Rich WB6EEE
>>
>> I think the 2000 has a built-in antenna with no provision for external
>> antenna.  In my opinion, this makes it less-than-ideal for APRS.
>
>Yes, but neither does the Tripmate, and it seems to be getting very popular.
>
>

No, the Magellan 2000 won't work at all with APRS unless you intend to
manually update your position.

The Magellan 2000 has no NMEA output.

Mark Fellhauer
KC7BXS
```

586. Re: [APRSSIG:7414] Re: Dosaprs and Win95

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Wed, 18 Dec 1996 22:20:32 -0600
To: aprssig@tapr.org, Ross McClain <aa0mm@cjnetworks.com>,
        R.RADMORE@WORLDNET.ATT.NET
Message-ID: <9612182220.AA32247@oscar.telalink.net>
Rendered body type: text/plain

```
> Robert Radmore wrote:
> > I am a new upgrade to Win95 and find I can't run DosAprs in a
> > full window. Is there a work around or must I load a version of the
> > old Dos?

------------- stuff deleted ---------


tp which AAØMM, Ross wrote,
> Bob,
>       Well Well,,, Windows-95... I know the wonderment! Have you
> noticed, that with the older first versions of DOS, and WINDOWS 3.1,
> you got a MANUAL?? I mean a MANUAL???

------------- lots of stuff deleted ---------



> Hope I have not TOTALY COMFUSED YOU!
> GOOD LUCK!
> And I know Mark and Keith are LAUGHING THEIR HEADS OFF now..
> Take care De AAØMM, Ross
>
```

Of course they are rally laughing because they know the real answer is you should have bought a Macintosh.

73
Bruce

```
--
***************************************************************
* Bruce W. Martin          Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
*  group of people with access to the most sophisticated      *
*  technology in the world, who everyone calls on to get the  *
*  really tough jobs done quickly and efficiently."           *
*  -- Nick Lehmann                                            *
***************************************************************
```

587. Re: [APRSSIG:7410] Xmas specials

From: Richard Roberts <rroberts@mcs.com>
Date: Wed, 18 Dec 1996 21:26:29 -0600
To: aprssig@tapr.org
Message-ID: <32B8B5E5.6B73@mcs.com>
Rendered body type: text/plain

I bought the Garmin 45XL for $289.00. The Garman 45 was on sale for about $12.00 less. I also bought mine at a Boat store.

Just thought I would throw my $12.00 bucks worth in.

Rich

Bob Bruninga wrote:
>
> A local up here said the GPS-45 was going in his local boat store for
> $150. We on the voice repeter asked for details, but then they guy backed
> off and couldnt remember the exat model number, nor the name of the store.
> But it is a good reminder to check out your favorite GPS stores to look
> for XMAS sales and year end closeouts. They may have been dumping old
> GPS-45's to clear out stock for the newer 45xl...
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

588. Re: [APRSSIG:7416] WinAPRS startup

From: Roger Sellers <rsellers@rockford.com>
Date: Wed, 18 Dec 1996 22:13:48 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961218221346.006b7608@rockford.com>
Rendered body type: text/plain

At 10:43 AM 12/18/96 -0500, you wrote:
>
>GM All,
>   I recently received an APRS cable from Kantronics that is supposed to allow
>the use of the KPC-3 and a GPS 45 on a laptop with one com port. My problem
>is the error message I get on startup:"Port failed to open." I tried the
>debug->ging routine (shift key on startup). It tells me:
>Serial Library "serthunk.dll" loaded OK
>Calling SerialOpen
>Returned from SerialOpen
> (TNC setup commands issuded)
>Calling SerialOpen
> (I see info received via radio at the bottom of screen)
>Retturned from SerialOpen
>
> When I hit OK to the last dialog box, The "port failed to open" box appears
>and the program stops. Any ideas on this problem would be greatly appreciated.
>
>73s de Jonathan

Try looking at the APRS serial ports settings, find the port the Garmin45 is on and set speed to 4800. Go to the Garmin and set the speed on it to 4800 as well, and set NMEA to 0183 1.5 Also check the TNC speed, using

ABAUD command set to 4800. Save everything and try it again. This should have the devices talking to each other at the same 4800 BAUD speed.
Hope this helps.

73,

Roger Sellers   KB9LBU
email: Home rsellers@rockford.com
            KB9LBU@juno.com
       Work rsellers@snds.com

589. GPS receivers for sale

From: George.Henry@115-668.usbbs.com (George Henry)
Date: 17 Dec 96 16:37:36 -0500
To: aprssig@tapr.org
Message-ID: <b3f_9612190149@usbbs.com>
Rendered body type: text/plain

3 Motorola PVT-6 "black box" receivers for sale.
With "hockey puck" active antenna, coax, full instructions.
Perfect for APRS

$150 each, plus $5 shipping (each)

These are the LAST ones..... there will be NO more available to me!

73 de KA3HSW

--
|Internet: George.Henry@115-668.usbbs.com
|
| E-Mail Services - www.usbbs.com

590. KPC-9612 PLUS, WestFest, For Sale

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 19 Dec 1996 01:21:14 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961219012120.36e705a6@mailhost.primenet.com>
Rendered body type: text/plain

This weekend I picked up the NEW KPC-9612 Plus at HRO Phoenix.

Although I've only sampled a small portion of the unit's capabilities, so far I'm very impressed.

According to the manual, The 9612 is being discontined, and the PLUS is replacing it. Major differences include a 3rd port option via an internal header. Kantronics "plans" to offer several add-on modems, including a KAM-Plus-like one. The 9612 PLUS also supports higher data rates--up to 38.4 Kbps on port 2. Analog pots for data drive and receive signal have been replaced with digital pots controlled via keyboard commands.

There is one other major difference in the PLUS, and this has uses for APRS, I believe. It offers two Analog to Digital inputs in addition to the two control line outputs of the original 9612.

Overall construction of the unit seems very good, the unit has a nice heft and a solid feel. Once again, Kantronics puts out a lackluster manual. The POCSAG encoder/decoder seems to work well in my base trials, and I plan more experimentation with Amateur Paging in the future. Perhaps paging will be supported in coming versions of APRS...

WestFest:

Once again I've been tapped by the ThunderBird (formerly Honeywell) ARC to chair the 2nd annual WestFest.
This should be the largest Hamfest held in the west valley (Metro Phoenix).
It was big last year, our first, and should be bigger this year.

WestFest will be held Saturday January 11, 1997
6 AM to 1 PM, Rain or Shine
Glendale Community College North Parking Lot
6000 West Olive Avenue
Glendale, AZ
Admission: FREE

Parking: $2.00 per vehicle
Tailgating: $5.00
Talk-ins: 145.43 (-) and 146.52 simplex

WestFest is sponsored by the Amateur Radio Council of Arizona (ARCA) and hosted by the ThunderBird ARC (TBARC)

VEC Testing
Sell/Trade/Swap
Commercial Vendors
Food & Beverages

The NWS/SKYWARN people will have a table there, and may put on an audio visual program.

I hope to have a LIVE APRS DEMO STATION running at WestFest, complete with an auto-tracker mounted on my bicycle. Although my gell-cell just died, and I just spent my discretionary funds for the next month or so on that 9612 PLUS!

For Sale:

One Dauphin DTR-1 Palmtop 486 SLC-25
Under 3 pounds and very small
VGA mono electroluminescent 6" diag display onboard (1 meg OAK video card w/external SVGA port)
Runs Windows 3.x with pen extensions well
40 meg hard drive (double spaced to 80)
6 megs RAM
Math-Coprocessor
Built-in ethernet connection
Built-in 2400/9600 data/fax modem
9 pin RS-232 port
25 pin bi-directional parallel port
Two-button stylus
User-rebuildable Battery
RUNS OFF 12 VOLTS DC DIRECTLY, no messy adaptors required.
Made by IBM for US Military
Was $3000 in 1994
Leather Carry case
All boxes, software, and manuals
External Floppy Drive
Great for APRS and portable packet

First $670.00 takes it. Price includes shipping to contiguous 48 US States. The only reason I'm selling it is bacuase I was given a Gateway Handbook 486, and I can't justify having two subnotebook computers.

One PacComm Spirit-2 TNC. A very nice high speed TNC. TNC-2 type modem disconnect header supports 1200 and 2400 Bps. Best Offer takes it.

73, and see you at WestFest

Mark
KC7BXS

---

591. Re: [APRSSIG:7447] Re: Xmas specials

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Thu, 19 Dec 1996 04:33:02 -0800
To: aprssig@tapr.org
Message-ID: <32B935FD.38DE@n-link.com>
Rendered body type: text/plain

David Wells wrote:
>
> At 08:55 AM 12/18/96 -0600, you wrote:
> >A local up here said the GPS-45 was going in his local boat store for
> >$150. We on the voice repeter asked for details, but then they guy backed
> >off and couldnt remember the exat model number, nor the name of the store.
> >But it is a good reminder to check out your favorite GPS stores to look
> >for XMAS sales and year end closeouts. They may have been dumping old
> >GPS-45's to clear out stock for the newer 45xl...
> >
>
> The company I work for (which will remain nameless so I do not seem too
> commercial) has been selling GPS-45's (and some other models) as

> "Distressed" (used but good) at quite a savings off the usual price. Perhaps
> this is what the person was refering to.
>
> Dave KD6TO
> David L. Wells KD6TO (KD6 Teletype Operator)
> INTERNET: davew@cruzio.com
> Watsonville, CA USA
> "positive rate, gear up, flaps to initial....I'm outa here!"
I would like to buy one for this price, Where can I get one...
Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691   This is also a FAX Request line

---

592. Re: [APRSSIG:7451] Re: Peet Bros. U-500

From: "Steve Dubois" <steved@vianet.on.ca>
Date: Thu, 19 Dec 1996 08:42:05 +0000
To: aprssig@tapr.org
Message-ID: <199612191340.IAA01731@vianet.on.ca>
Rendered body type: text/plain

Date: Thu, 19 Dec 1996 00:25:54 -0600 (CST)
Reply-to: aprssig@tapr.org
From: BordingK@aol.com
To: aprssig@tapr.org
Subject: [APRSSIG:7451] Re: Peet Bros. U-500

While we're on the subject of Weather Stations, any method of selectively
filtering out manually entered weather stations? If not would Bob and The
Sproul Bros consider adding this feature? We're trying to set up a reliable
weather info system for the Ham and NWS use. Some folks enter wx data
manually when the mood strikes them, so totally inacurate weather is reported
for extended periods.

de KF4COH
Ken in Jax

Ken:
I think your statement above about manual wx entry is totally
incorrect. I run a manual station here simpy because I cannot afford
the price of a wx station. For your info I will put my wx
observations and manual entries up against any auto wx system. I
do not enter wx data when the mood strikes me either. I run a
constant wx station here manually except during the hours which I
sleep. My system runs 24 hrs per day. I am the only wx station in
Northern Ontario that is on Aprs and WinAprs. I am sure there are
many others out there as well.

Merry Christmas to you and everyone else. May your holiday season be
a safe and enjoyable one. 73..........
Stephen Dubois VA3HOI
CANWARN SPOTTER
SAREX,APRS,WinAPRS
steved@vianet.on.ca

---

593. Re: [APRSSIG:7451] Re: Peet Bros. U-500

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 19 Dec 1996 07:52:11 -0600 (CST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961219075107.19341B-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

Rather than a filter, how about a time limit on the manually entered
data, ie. it stops transmitting that info after 30 mins....

On Thu, 19 Dec 1996 BordingK@aol.com wrote:

> While we're on the subject of Weather Stations, any method of selectively
> filtering out manually entered weather stations? If not would Bob and The
> Sproul Bros consider adding this feature? We're trying to set up a reliable
> weather info system for the Ham and NWS use. Some folks enter wx data
> manually when the mood strikes them, so totally inacurate weather is reported

```
> for extended periods.
>
> de KF4COH
> Ken in Jax
>
```

---

594. Balloons...

From: Paul Stump <n0lrf@amsat.org>
Date: Thu, 19 Dec 1996 08:28:30 -0600
To: aprssig@tapr.org
Message-ID: <32B9510E.6093@amsat.org>
Rendered body type: text/plain

```
Bob Bruninga wrote:
>
> On Tue, 17 Dec 1996 bob.hartman@wlio.com wrote:

> > If a GPS could be got for $160 or less and a used HT and TNC could be
> > used, there would not be a large investment at risk.  Perhaps a whole
> > network of Eastern command stations could be exchanging data over the
> > Internet as to its location, etc and when it reached one of their
> > areas, they would transmit a secret command up to the balloon which
> > would release the payload for recovery...
>
> REPLY:  I think its a great idea.  It would cover the USA almsot like a
> satelite, last about a week and be a lot of fun for a lot less $$$, hi hi

I happen to know a GPS manufacturer in Kansas who would be willing to
donate a GPS receiver for a project of benefit to so many amateurs.
I would need to know what type of receiver is preferred---a hand-held
or a board one? The antenna---does the balloon shade satellite
reception directly overhead, or is that negligible?

I can be reached at: n0lrf@amsat.org

73, Paul..
```

---

595. RE: Manual WX Entry

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 19 Dec 96 9:29:18 EST
To: aprssig@tapr.org, jratchf@bulldog.afsc.k12.ar.us
Message-ID: <CMM-RU.1.5.851005758.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
> Rather than a filter, how about a time limit on the manually entered
> data, ie. it stops transmitting that info after 30 mins....


I think this is a good idea, and I will look into implementing it sometime in
the not too distant future..

Keith

Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

596. GPS45XL vs GPS50

From: ke4sop@netwide.net (Ed Unrein)
Date: Thu, 19 Dec 1996 09:33:52 -0500
To: aprssig@tapr.org
Message-ID: <32B95250.430E@netwide.net>
Rendered body type: text/plain

```
Has anyone done a comparison or had experience with the model 50?
I can't locate anyone who knows it advantages over the 45XL

thanks, 73's

ke4sop@netwide.net
```

---

597. Re: Filter Manual weather packets

From: Mark Sproul <sproul@ap.org>
Date: Thu, 19 Dec 1996 09:41:16 -0500
To: aprssig@tapr.org
Cc: BordingK@aol.com
Message-ID: <v03007807aedf044a68ed@[165.1.27.20]>

Rendered body type: text/plain

```
>While we're on the subject of Weather Stations, any method of selectively
>filtering out manually entered weather stations?  If not would Bob and The
>Sproul Bros consider adding this feature? We're trying to set up a reliable
>weather info system for the Ham and NWS use.  Some folks enter wx data
>manually when the mood strikes them, so totally inacurate weather is reported
>for extended periods.
>
>de KF4COH
>Ken in Jax

I think this is an excellent idea, I have added it to my list.

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

598. Re: [APRSSIG:7443] Re: qbasic availability

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Dec 1996 10:47:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961219104604.24966A-100000@arctic>
Rendered body type: text/plain

```
On Wed, 18 Dec 1996, Aaron Morrison wrote:

> > >
> > >APRSdos REPLY/COMMENT:  If Microsoft is truely no longer selling or
> > >supporting QB.exe then is it legal to share it or post it?  QB is
> > >the big brother of QBASIC.exe included in all DOS operating systems
> > >and is needed to run the source code for MAPFIX..
>
> Most obvious legal "opinion" here is to compile mapfix to EXE form
> and distribute that per the license agreement.

APRSdos REPLY/COMMENT:  Yep, MAPFIX is distributed as an EXE in all
versions of APRS.  But the .BAS program is also distributed for those
folks that want to hack it...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

599. Re: [APRSSIG:7447] Re: Xmas specials

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Dec 1996 10:49:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961219104838.24966B-100000@arctic>
Rendered body type: text/plain

```
On Wed, 18 Dec 1996, David Wells wrote:

> The company I work for (which will remain nameless so I do not seem too
> commercial) has been selling GPS-45's (and some other models) as
> "Distressed" (used but good) at quite a savings off the usual price. Perhaps
> this is what the person was refering to.

APRSdos REPLY/COMMENT:  THis isnt HAM radio, hi hi..  HOw much????  Im
sure there are folks here that would like to hear and maybe purchase
one...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

600. Fwd: [APRSSIG:7462] Re: Peet Bros. U-500

From: steved@vianet.on.ca Thu Dec 19 09:55:45 1996
Date: Thu, 19 Dec 1996 10:55:13 -0500
To: aprssig@tapr.org
Message-ID: <961219105512_1921294543@emout13.mail.aol.com>
Rendered body type: text/plain

In a message dated 96-12-19 10:22:47 EST, steved@vianet.on.ca (Steve Dubois) writes:

<< steved@vianet.on.ca >>

Steve:

Unfortunately you may be a rarity. While there are many dedicated hams updating weather frequently, that is not always the case.

We are trying to establish a reliable system to enhance SKYWARN, NWS etc. Now that we have invested in numerous automatic weather stations, a few hams like to jump in an enter a weather entry every once in a while, however they fail to update them. When every automatic station is showing 32 degrees and the maunal stations are showing 45 degress because they've all gone to bed, what is to be believed? This undermines the accuracy of the entire system.

The ability to either filter out or time out a weather entry will enhance the accuracy of weather reporting and thus the utility of APRS.

And Merry Christmas to and all the others on the SIG.

de KF4COH
Ken in Jax

Forwarded message:
From: steved@vianet.on.ca (Steve Dubois)
Sender: aprssig@tapr.org
Reply-to: aprssig@tapr.org
To: aprssig@tapr.org
Date: 96-12-19 10:22:47 EST

Date: Thu, 19 Dec 1996 00:25:54 -0600 (CST)
Reply-to: aprssig@tapr.org
From: BordingK@aol.com
To: aprssig@tapr.org
Subject: [APRSSIG:7451] Re: Peet Bros. U-500

While we're on the subject of Weather Stations, any method of selectively filtering out manually entered weather stations? If not would Bob and The Sproul Bros consider adding this feature? We're trying to set up a reliable weather info system for the Ham and NWS use. Some folks enter wx data manually when the mood strikes them, so totally inacurate weather is reported for extended periods.

de KF4COH
Ken in Jax

Ken:
I think your statement above about manual wx entry is totally incorrect. I run a manual station here simpy because I cannot afford the price of a wx station. For your info I will put my wx observations and manual entries up against any auto wx system. I do not enter wx data when the mood strikes me either. I run a constant wx station here manually except during the hours which I sleep. My system runs 24 hrs per day. I am the only wx station in Northern Ontario that is on Aprs and WinAprs. I am sure there are many others out there as well.

Merry Christmas to you and everyone else. May your holiday season be a safe and enjoyable one. 73..........
Stephen Dubois VA3HOI
CANWARN SPOTTER
SAREX,APRS,WinAPRS
steved@vianet.on.ca

601. Peet Bros. U-500 & KPC-3 setup

From: joefoor@digitalexp.com (Foor, Joe)
Date: Thu, 19 Dec 1996 10:04:13 -0600
To: BordingK@aol.com
Cc: nflaprs@lwcomm.com, aprs-fl@tapr.org, aprssig@tapr.org
Message-ID: <32B9677D.2222@digitalexp.com>
Rendered body type: text/plain

Hi Ken;

Here is the setup that I used to get the WX station on the air.

WIRING IT UP

I had purchased the DATA LOGGING option, so I have a serial cable
with a db9 adaptor, rather than the db25 described in the APRSdos
text file. The adapter I built, for between the U-500's serial cable
and the KPC-3, connects three lines.

```
     KPC-3    U-500
     db25      db9
       1--------5      ground
       2--------2      data from U-500 to KPC-3 TXD
       3--------3      KPC-3 RXD
```

The RXD connection may not be necessary, however, an oscilloscope
showed some signal on this, so I hooked it up.

The APRSdos file says that the U-2000, with db25 connector, also
requires a biasing resistor. Since the U-500 manual implies that the
serial port is identical with the U-2000, I tried installing a 4.7K
resistor and found that it messed up the data flow, causing the
KPC-3 to stay in transmit, once it keyed up from the first data
line. With no resistor at all, it works fine.

KPC-3 PROGRAMMING

The biggest stumbling block, is the wrong command instruction in the
APRSdos text document. The document gives you $10 for SENDPAC and it
should be $0A. The KPC-3 wants the Hex code, but the document tells
you the Decimal code.

Here's the whole thing:

```
   INTFACE terminal
   CR off
   SENDPAC $0A
   PMODE converse
   ECHO off (may not be necessary)
```

U-500 PROGRAMMING

The U-500 setup is complicated by the directions to press two
buttons simultaneously. Since this is not possible for human
fingers... I found that pressing the wrong button first will not put
you in PACKET mode.

The U-500 is set to PACKET data mode by:

   Press and hold the -0- button, then press and hold the windchill
   button. The display will flash three times and stabilize again.
   Release both buttons.

NOTES

I had previously used this KPC-3 for Packet, APRSdos, WinAPRS and
most recently for stand-alone GPS. As far as I could tell, the only
other command that was affecting the remote WX operation, was the
GPS LT transmissions. I cleared this by setting LTP 1 to NONE and
BLT 1 to 00:00:00.

My KPC-3 has version 6.0 firmware, which includes the PMODE command.
I don't know how you would get the KPC-3 to power up in the CONVERSE
mode, with earlier versions.

regards,
Joe kf4dys

---

602. Re: [APRSSIG:7451] Re: Peet Bros. U-500

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 19 Dec 1996 11:18:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961219111557.24966M-100000@arctic>
Rendered body type: text/plain

On Thu, 19 Dec 1996 BordingK@aol.com wrote:

> While we're on the subject of Weather Stations, any method of selectively
> filtering out manually entered weather stations? If not would Bob and The
> Sproul Bros consider adding this feature? We're trying to set up a reliable

> weather info system for the Ham and NWS use. Some folks enter wx data
> manually when the mood strikes them, so totally inacurate weather is reported
> for extended periods.

APRSdos REPLY/COMMENT: Thats why they all have a date/time stamp... They
should fade to gray after 2 hours. Maybe the fade to gray is not working
for WX stations... Can someone confirm? IE: <Maybe the Blue for WX is
added after the GRAY for old in my code...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

603. Re: [APRSSIG:7465] RE: Manual WX Entry

From: "John W.(Bill) Hays - w0omv" <billh@netins.net>
Date: Thu, 19 Dec 1996 17:00:18 +0000
To: aprssig@tapr.org
Message-ID: <32B974A2.518F@netins.net>
Rendered body type: text/plain

Keith Sproul wrote:
>
> > Rather than a filter, how about a time limit on the manually entered
> > data, ie. it stops transmitting that info after 30 mins....
>
> I think this is a good idea, and I will look into implementing it sometime in
> the not too distant future..
>
> Keith

OR have WX older than 30 min be displayed in a different color.
++++++++++++++++++++++++++++++++++++++
"If you are a typical experimentalist (physics) you have
a raft of PCs, maybe a UNIX workstation to impress
incoming graduate students, and a Mac hidden in your
office to actually do things."   - Robert Austin

604. Re: [APRSSIG:7472] Re: Peet Bros. U-500

From: Mark Sproul <sproul@ap.org>
Date: Thu, 19 Dec 1996 12:06:35 -0500
To: aprssig@tapr.org
Message-ID: <v0300780baedf264f671d@[165.1.27.20]>
Rendered body type: text/plain

>
>APRSdos REPLY/COMMENT: Thats why they all have a date/time stamp... They
>should fade to gray after 2 hours. Maybe the fade to gray is not working
>for WX stations... Can someone confirm? IE: <Maybe the Blue for WX is
>added after the GRAY for old in my code...
>

Bob, fade to grey has nothing to do with it. If a user enters the weather
setting and transmits every 15 minutes it will NEVER fade to grey but the
WX VALUES may be 10 hours old.

Mark

```
____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

605. Re: [APRSSIG:7470] Fwd: Re: Peet Bros. U-500

From: Mark Sproul <sproul@ap.org>
Date: Thu, 19 Dec 1996 12:04:57 -0500
To: aprssig@tapr.org
Message-ID: <v0300780aaedf25943b22@[165.1.27.20]>
Rendered body type: text/plain

>In a message dated 96-12-19 10:22:47 EST, steved@vianet.on.ca (Steve Dubois)
>writes:
>
><< steved@vianet.on.ca >>

>
>Steve:
>
>Unfortunately you may be a rarity. While there are many dedicated hams
>updating weather frequently, that is not always the case.
>
>We are trying to establish a reliable system to enhance SKYWARN, NWS etc.
> Now that we have invested in numerous automatic weather stations, a few hams
>like to jump in an enter a weather entry every once in a while, however they
>fail to update them. When every automatic station is showing 32 degrees and
>the maunal stations are showing 45 degress because they've all gone to bed,
>what is to be believed? This undermines the accuracy of the entire system.
>
>The ability to either filter out or time out a weather entry will enhance the
>accuracy of weather reporting and thus the utility of APRS.
>
>And Merry Christmas to and all the others on the SIG.
>

In the current release of WinAPRS, there is an option for station display
mode, if you turn WEATHER STATIONS ONLY on, you automatically get this.
What it does is show you the station, callsign, TEMP, RAIN, WIND, BARO, and
! ! AGE ! !, this tells you how old the PACKET its, I have seen weather
stations that I have not heard from in a few hours so this shows you the
age from the last time wx was heard, that of course does not mean from the
last time they intered the data. I will work to enhance this, maybe show
manual WX entries in a different color or something else.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

---

606. hf aprs

From: "Edward Lewis" <elewis@dsp.com>
Date: Thu, 19 Dec 1996 09:40:37 +0000
To: aprssig@tapr.org
Message-ID: <199612191739.JAA30975@dsp.net>
Rendered body type: text/plain

I have been running hf aprs off and on for 2 days now only
monitoring and not broadcasting my position. I thought hf aprs was
10149.50 khz lsb, but all the stations I hear are on 10151.46 khz
lsb. Since this is outside of the 30 meter band I thought my icom 736
was out of calibration, but I tuned my drake R 8 to receive the
signals on the same frequency 10151.46 khz. Could someone explain to
me what is happening. I can't imagine this many station being out of
band so there must be a reason for this happening. 73
Edward Lewis KQ6DX
2959 Devon Way
San Pablo, CA. 94806
Packet KQ6DX@KJ6FY.#NOCA.CA.USA.NA
Land Line 510-223-7156
elewis@dsp.com

---

607. Re: [APRSSIG:7470] Fwd: Re: Peet Bros. U-500

From: ttyamada@CCGATE.HAC.COM
Date: Thu, 19 Dec 96 10:10:51 PST8
To: aprssig@tapr.org
Message-ID: <9611198510.AA851019542@CCGATE.HAC.COM>
Rendered body type: text/plain

Perhaps a different Icon for manual entries,
     and also have them time out?

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7470] Fwd: Re: Peet Bros. U-500
Author: aprssig@tapr.org at CCGATE
Date: 12/19/96 8:37 AM

<<<< clip >>>>>

When every automatic station is showing 32 degrees and the maunal stations are showing 45 degress because they've all gone to bed, what is to be believed? This undermines the accuracy of the entire system.

The ability to either filter out or time out a weather entry will enhance the accuracy of weather reporting and thus the utility of APRS.

<<<< clip >>>>>>

---

608. Re: [APRSSIG:7464] Balloons...

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Thu, 19 Dec 96 18:34:12 UTC
To: aprssig@tapr.org
Message-ID: <11816@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Regarding ballooning with GPS: Be very careful that you know the characteristics of the GPS receiver! Be especially watchful that you know that the receiver will work at altitudes above 60,000 ft.

The reason for this specific warning is that all GPS receivers sold for commercial usage have to comply with COCONM Export laws. These state that, without specific government approval, no GPS receivers that can operate at altitudes above 60,000 ft and at speeds greater than Mach 1.5 can be sold (I believe it it Mach 1.5 -- I don't recall the precise speed in the law).

Some receiver manufacturers have interpreted this rule in their firmware to be 60,000 ft >>OR<< Mach 1.5 and they literally reset themselves when they pass thru the 60kft level regardless of speed (the Trimble OEM receivers are one example -- they begin reporting Sunnyvale CA as the position when they hit 60kft).

Other receiver manufacturers (Motorolas made since 1994 and Rockwell) take a different approach. Either they have only a speed limit or they do the grammatically/logically proper test on speed+altitude. And these receivers will work fine in a balloon.

I don't know which other manufacturers are suitable. Before you fly a ballon-borne GPS receiver, I strongly advise that you do at least one of three things:

1. Verify with the manufacturer or with folks who may have flown the same receiver already that it will function above 60,000 ft.
2. "Fly" the receiver on a GPS simulator to verify that there are no problems at high altitude.
3. Be willing to sacrifice the balloon experiment in case the receiver has unexpected COCOM restrictions.

By the way, the common name for the COCOM rule is the "Anti-SCUD" rule. The reason for its existence should be obvious to all!

73 de Tom, W3IWI

---

609. Re: [APRSSIG:7471] Peet Bros. U-500 & KPC-3 setup

From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
Date: Thu, 19 Dec 96 18:49:08 UTC
To: aprssig@tapr.org
Message-ID: <11818@tomcat.gsfc.nasa.gov>
Rendered body type: text/plain

Joe, KF4DS commented on his cable adaptor:

```
>      KPC-3    U-500
>      db25      db9
>        1--------5      ground
>        2--------2      data from U-500 to KPC-3 TXD
>        3--------3      KPC-3 RXD
```

I would like to note that on a DB25 RS232 connector Pin 7 is the signal ground pin, NOT pin 1! On the 25-pin connector, Pin 1 is supposed to be "frame ground" and is normally used to provide a safety ground and as a termination for the shield on shielded cables. In most units you are NOT guaranteed that Pin 1 will be the proper common return for RS232 signals.

73, Tom

610. system commander

From: Jim Prentice WA2MZF QCWA <PRENTICE@scanva.canton.edu>
Date: Thu, 19 Dec 1996 14:21:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01ID741IMN9U000WYC@scanva.canton.edu>
Rendered body type: text/plain

Recently I picked up a copy of system commander, i/e program that will allow
you to load any operating system .. anyone played with this yet?

i use win95 but so far like dosaprs..
tks

---

611. Re: [APRSSIG:7476] hf aprs

From: schiers@ames.net
Date: Thu, 19 Dec 96 13:23:20 -0600
To: aprssig@tapr.org
Cc: "Edward Lewis" <elewis@dsp.com>
Message-ID: <199612191930.NAA06546@brain.ames.net>
Rendered body type: text/plain

In <199612191739.JAA30975@dsp.net>, on 12/19/96 at 11:43 AM,
"Edward Lewis" <elewis@dsp.com> said:

>I have been running hf aprs off and on for 2 days now only
>monitoring and not broadcasting my position. I thought hf aprs was
>10149.50 khz lsb, but all the stations I hear are on 10151.46 khz lsb.
>Since this is outside of the 30 meter band I thought my icom 736 was out
>of calibration, but I tuned my drake R 8 to receive the signals on the
>same frequency 10151.46 khz. Could someone explain to me what is
>happening. I can't imagine this many station being out of band so there
>must be a reason for this happening. 73
>Edward Lewis KQ6DX
>2959 Devon Way
>San Pablo, CA. 94806
>Packet KQ6DX@KJ6FY.#NOCA.CA.USA.NA
>Land Line 510-223-7156
>elewis@dsp.com

If you are going to transmit 10.151 lsb you are fine.
I transmit 10.147 usb and it is fine. Packet does not care whether it is
lsb or usb. The key is to be on the right frequency. Since my radio
refuses to transmit above 10.150, I can't run lsb.

The important point is that because of the tones you are transmitting, the
actual frequency from the dial is lower if LSB and higher if USB, hence
the two frequencies mentioned. No one is transmitting outside the band. If
it makes you feel better, tune in the aprs network on 10.147 USB...I'm
there with the rest of the network.

As simply as I can put it, even though those running LSB have a dial
reading of 10.151 or so, and those of us running USB have a dial reading
10.147 or so...we are all on the "SAME" frequency, which is just inside
the top end of the 30m band around 10.149. Assuming you are running 2200
hz tones, transmitting on USB 10.147, your actual frequency is 10.147 + 2
khz = 10.149. ON the "flip" side of things (pun intended), If you are also
running 2200 hz tones, and transmitting LSB on 10.151, your actual
frequency is 10.151 - 2 khz = 10.149...Presto! All is well ....and
perfectly legal.

Hope this helps. 73,

hasan schiers, N0AN--
----
schiers@ames.net

---

612. manual vs automatic wx

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 19 Dec 1996 13:36:10 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961219193610.006cd084@tbcnet.com>
Rendered body type: text/plain

Hi all,
With the concerns over the $ involved to buy a wx station, has anyone ever
tried using only a junction box for a U-II (not the display), fed with the
appropriate wx instruments, and feeding it directly into APRS?

```
bl
--------------------------------------------------------------
J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter
```

613. Re: [APRSSIG:7477] Re: Fwd: Re: Peet Bros. U-500

From: Cap Pennell <cap@cruzio.com>
Date: Thu, 19 Dec 1996 11:33:41 -0800
To: aprssig@tapr.org
Message-ID: <32B99895.22D2@cruzio.com>
Rendered body type: text/plain

```
<SNIP>
> The ability to either filter out or time out a weather entry will enhance the
> accuracy of weather reporting and thus the utility of APRS.
>

I vote for "time out".  My manual WX entry might be just as valid as
your automatic report (for awhile).
--
Cap Pennell
Santa Cruz, CA, 95062-1002       3658.92N/12200.88W
email: cap@cruzio.com     homepage: http://members.cruzio.com/~cap
packet radio: KE6AFE@kg6ee.#cca.ca.usa.noam
```

614. Re: [APRSSIG:7480] system commander

From: Bob Lorenzini <hwm@netcom.com>
Date: Thu, 19 Dec 1996 12:35:53 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961219123142.93A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

```
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII



On Thu, 19 Dec 1996, Jim Prentice WA2MZF QCWA wrote:

> Recently I picked up a copy of system commander, i/e program that will allow
> you to load any operating system .. anyone played with this yet?
>
> i use win95 but so far like dosaprs..
> tks

  Works great. I use it to load linux and once in a while dos, windawg95
and NT. You can also use it to hide partitions from other operating
systems which may be destructive, like win95.

Bob - wd6dod
```

615. Manual WX Entries

From: "J. Scott Ratchford" <jratchf@bulldog.afsc.k12.ar.us>
Date: Thu, 19 Dec 1996 15:14:03 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961219145703.10580A-100000@bulldog.afsc.k12.ar.us>
Rendered body type: text/plain

```
If you have several stations out there that are automatic wx and one or
two that are not, it would be very obvious if the manual station is
keeping current. This is a given. If your concerned about the accuracy of
the data, then you have to look at the time stamp as Bob mentioned.

I suggested, that they add a "time out" routine to the program. Say, if
you enter the data manually that the programs halts wx data transmitting
after 30 mins or so. Have it delete the data from all other stations,
like it does with deleting objects. I'd also suggest that the "time out"
be use adjustable. Set that up in the config file on the front end for
dosAPRS and a varible in WX window in winAPRS.

Keep in mind, that although a station has an auto wx setup, they may want
to manually enter data in a storm situation. Rather than wait for the
next scheduled wx beacon. This would be equally important. As a matter of
fact, why have the manually data beacon more than once? Enter the data,
and send it as a burst, follow 30 mins later with an erase.......hmmmmm.

If its skywarn that your mostly concerned about, then the wx data at
```

QTH's will most likey be manually entered and most definately if a spotter is working it mobile. Of course your remote stations don't matter anyway they are going to send the data on a regular schedule. Which brings up a question, if I have a remote wx monitoring station out there and want to get up to date info, can I parse that and get it or do I have to wait for the beacon?

Chew on that a while....................

---

616. DosAprs and Win95

From: Robert Radmore <R.Radmore@worldnet.att.net>
Date: Thu, 19 Dec 1996 21:15:21 +0000
To: aprssig@tapr.org
Message-ID: <19961219211519.AAA15436@LOCALNAME>
Rendered body type: text/plain

Robert Radmore wrote:

> I am a new upgrade to Win95 and find I can't run DosAprs in a full window. Is there a work around or must I load a version of the old Dos?

Thanks to all who responded with their helpful ideas and thoughts. The final answer was to enable screen expansion in the computers own Display "Advanced Setup". This allowed expansion to be accomplished through Windows. The computer is an IBM 365XD laptop.

I am answering here on the SIG in case anyone else runs into this perplexing problem.

Thanks again, and Happy Holiday wishes to one and all.

73 de Bob

Bob Radmore
Amateur call - N2PWP
Packet - N2PWP@KE2VW.#WNY.NY.USA.NOAM
E-mail - R.RADMORE@WORLDNET.ATT.NET

---

617. Meso Net in Wisconsin

From: Tom Fleming N9SZF <n9szf@skywarn.cs.wisc.edu>
Date: Thu, 19 Dec 1996 15:40:22 -0600 (CST)
To: aprssig@tapr.org
Cc: scwi-hams@skywarn.cs.wisc.edu
Message-ID: <Pine.LNX.3.91.961219152310.3638A-100000@skywarn.cs.wisc.edu>
Rendered body type: text/plain

Dane County ARES is currently setting up a Weather APRS base Meso Net within Dane County. We currently have 9 sites that we can start putting up stations. Not only would the Meso Net be used for Skywarn, but would be very helpfull in Hazmats.

The station specs are:

Davis U-2000
MFJ APRS Data radio
MFC TNC
Deep Cycle battery with trickle charge.

We are looking into a source of funding for this. Each station will run about $1000. If anyone knows of a souce of funding for this, I would love to hear from you. Or if you have any comment, let me know.

Tom Fleming - N9SZF
South Central Wisconsin NCS
Dane County ARES

---

618. Re: [APRSSIG:7472] Re: Peet Bros. U-500

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Thu, 19 Dec 1996 17:29:01 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961219172631.4606A-100000@laraby.tiac.net>
Rendered body type: text/plain

On Thu, 19 Dec 1996, Bob Bruninga wrote:

> On Thu, 19 Dec 1996 BordingK@aol.com wrote:
>
> > While we're on the subject of Weather Stations, any method of selectively

```
> > filtering out manually entered weather stations?  If not would Bob and The
> > Sproul Bros consider adding this feature? We're trying to set up a reliable
> > weather info system for the Ham and NWS use.  Some folks enter wx data
> > manually when the mood strikes them, so totally inacurate weather is reported
> > for extended periods.
>
> APRSdos REPLY/COMMENT: Thats why they all have a date/time stamp...  They
> should fade to gray after 2 hours.  Maybe the fade to gray is not working
> for WX stations...  Can someone confirm?  IE: <Maybe the Blue for WX is
> added after the GRAY for old in my code...

The WX info just keeps getting transmitted at normal intervals as a
regular beacon. It matters not when it was inputted. So the fade-to-grey
never gets a chance to work. (I'm talking about *manually* entered WX info)

Richard Amirault              N1JDU            Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

619. Re: [APRSSIG:7487] Meso Net in Wisconsin

From: Mark Humphrey <mark@y100.com>
Date: Thu, 19 Dec 1996 17:35:52 -0500
To: aprssig@tapr.org
Message-ID: <32B9C348.7217@y100.com>
Rendered body type: text/plain

```
Tom Fleming N9SZF wrote:
>
> Dane County ARES is currently setting up a Weather APRS base Meso Net
> within Dane County. We currently have 9 sites that we can start putting
> up stations. Not only would the Meso Net be used for Skywarn, but would
> be very helpfull in Hazmats.
> We are looking into a source of funding for this. Each station will run
> about $1000. If anyone knows of a souce of funding for this, I would love
> to hear from you. Or if you have any comment, let me know.
>
> ------------------------------------------------------------------


Tom:

Have you talked with anyone at the NWS about this?  I've heard some
rumors around here that Federal money might become available to fund
automatic WX stations just as you've described.  As you know, NOAA has
closed down many of the smaller offices, so they now depend on
volunteers more than ever to supply local observations.  Of course, APRS
would lend itself very nicely to this purpose if the information is
accurate.  I will try to make some calls in the next few weeks and see
what I can find out from the local (PHL) office.

73, Mark KE3XY

mark@y100.com
```

---

620. Re: EASY SATS and APRS

From: jzaruba@juno.com (John A Zaruba Jr.)
Date: Thu, 19 Dec 1996 18:16:59 EST
To: aprssig@tapr.org
Message-ID: <19961219.182856.8390.0.jzaruba@juno.com>
Rendered body type: text/plain

```
On 12/18/96 Philip Chien wrote:

<- apparently with the logic that if
somebody doesn't automatically think you're product is the best thing
since
sliced bread BROWBEAT AND INSULT THEM IN TO SUBMISSION [sic]).>

Sir, I would exercise restraint. You could be tarred with the same brush.

John Zaruba AA2BN
jzaruba@juno.com
```

---

621. Re: [APRSSIG:7476] hf aprs

From: AC6JA@aol.com
Date: Thu, 19 Dec 1996 19:00:02 -0500
To: aprssig@tapr.org
Message-ID: <961219185959_370478204@emout11.mail.aol.com>
Rendered body type: text/plain

```
10.151 lsb, or around 10.149.3 fsk, or around 10.147.5 usb.  just try and
tune to the majority of signals.  10.151 lsb is still withing amateur limits.
hope this helps.

Mike  AC6JA
```

---

622. re:aprs on 8088

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Thu, 19 Dec 1996 20:11:50 PST
To: aprssig@tapr.org
Message-ID: <19961219.201236.5599.0.kf4xh@juno.com>
Rendered body type: text/plain

```
SIMCGA is out there in shareware & will run APRS even on 4.77 XT
screen redraw is VERY slow though
andy kf4xh
```

---

623. (no subject)

From: Jack LeBreton <bm670@freenet.toronto.on.ca>
Date: Thu, 19 Dec 1996 19:38:12 -0500 (EST)
To: aprssig <aprssig@tapr.org>
Message-ID: <Pine.3.89.9612191944.B26184-0100000@queen>
Rendered body type: text/plain

```
Hi all SIGgers,
        I've got a constant problem with my attempt to shell into DOS
while working in APRS77E. The error message reads "illegal function call
in line 0 of module APRS77W at address 1D28:5577 Hit any key to return to
system"
        I use a Compaq LTE286 laptop. I hope someone out there has a way
out of this as I lose a lot of backups when I do this.
        Thanx in advance,

        73 de Jack VA3JAX
```

---

624. Re: [APRSSIG:7493]

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Thu, 19 Dec 1996 17:05:45 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961219170446.29986F-100000@oso.slonet.org>
Rendered body type: text/plain

```
Yes, Jack, I have had the very same problem for a year now and it has
driven me up a wall.  We need help!  Cliff K7RR

On Thu, 19 Dec 1996, Jack LeBreton wrote:

> Hi all SIGgers,
>       I've got a constant problem with my attempt to shell into DOS
> while working in APRS77E. The error message reads "illegal function call
> in line 0 of module APRS77W at address 1D28:5577 Hit any key to return to
> system"
>       I use a Compaq LTE286 laptop. I hope someone out there has a way
> out of this as I lose a lot of backups when I do this.
>       Thanx in advance,
>
>       73 de Jack VA3JAX
>
>
>
>
>
```

---

625. Re: Peet Bros. U-500 & KPC-3 setup

From: joefoor@digitalexp.com (Foor, Joe)
Date: Thu, 19 Dec 1996 18:43:07 -0600
To: aprssig@tapr.org
Message-ID: <32B9E11B.64FC@digitalexp.com>
Rendered body type: text/plain

```
Tom Clark -- W3IWI wrote:

> I would like to note that on a DB25 RS232 connector Pin 7 is the signal
> ground pin, NOT pin 1!

I bow to greater experience and knowledge of serial ports.

On the KPC-3, however, all the grounds are tied together, so it
```

doesn't matter which one is used.

regards,
Joe kf4dys

626. Re: [APRSSIG:7494] Re:

From: Les Blalock <lcb911@apex2000.net>
Date: Thu, 19 Dec 1996 21:26:54 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961219212700.107f83b0@apex2000.net>
Rendered body type: text/plain

```
Try building a batch file to start APRS and include this line *before*
executing APRS.

set comspec=command.com

(use the appropriate path for command.com if it's not in c:\)

I had the same problem because I use 4DOS.COM and APRS would not shell to
DOS using that command processor for some reason.  You can reset comspec
after APRS if that's your situation.  As in:

set comspec=c:\dos\command.com
APRS
set comspec=c:\4dos.com


73 de Les/N5KOA

At 07:12 PM 12/19/96 -0600, you wrote:
>Yes, Jack, I have had the very same problem for a year now and it has
>driven me up a wall.  We need help!  Cliff K7RR
>
>On Thu, 19 Dec 1996, Jack LeBreton wrote:
>
>> Hi all SIGgers,
>>      I've got a constant problem with my attempt to shell into DOS
>> while working in APRS77E. The error message reads "illegal function call
>> in line 0 of module APRS77W at address 1D28:5577 Hit any key to return to
>> system"
>>      I use a Compaq LTE286 laptop. I hope someone out there has a way
>> out of this as I lose a lot of backups when I do this.
>>      Thanx in advance,
>>
>>      73 de Jack VA3JAX
```

627. Re: [APRSSIG:7476] hf aprs

From: rwf@mindspring.com
Date: Thu, 19 Dec 1996 21:01:43 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961219210138.00754e54@mindspring.com>
Rendered body type: text/plain

```
Edward-

There's a full explanation right in the HF.TXT fine in the DosAPRS README
subdirectory.
10.151 LSB is inside the Ham band when you use KAM tones.  There's a lot of
other great HF packet in there too. Give it a look.

73

Ralph




At 11:43 AM 12/19/96 -0600, you wrote:
>Could someone explain to
>me what is happening. I can't imagine this many station being out of
>band so there must be a reason for this happening.
```

628. Cold GPS45

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Thu, 19 Dec 1996 22:33:08 -0600
To: aprssig@tapr.org
Message-ID: <9612192233.AA08115@oscar.telalink.net>

Rendered body type: text/plain

```
Well, the temperature has dipped in the teens and lower 20's for the last
couple of days here in Middle Tennesee. I have noticed that my GPS45 I left
running with my tracker in the car has turned itself off. I will start it up
again but after about 10 minutes it turns itself off again for lack of a
satellite fix. If I put the GPS45 where hot air can blow in it it will finally
lock on and start working again. The owners manual states that the operating
temperature range is down to 5 deg. F. We have not got there yet. Has anybody
else seen this phenomenon? Do I have a defective unit?

Bruce


--
****************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
*  group of people with access to the most sophisticated      *
*  technology in the world, who everyone calls on to get the  *
*  really tough jobs done quickly and efficiently."           *
*  -- Nick Lehmann                                            *
****************************************************************
```

---

629. Re: [APRSSIG:7464] Balloons...

From: Jim Duncan <ku0g@sprynet.com>
Date: Thu, 19 Dec 1996 19:28:20 -0800
To: aprssig@tapr.org
Message-ID: <199612200328.TAA08608@m1.sprynet.com>
Rendered body type: text/plain

```
>I happen to know a GPS manufacturer in Kansas who would be willing to
>donate a GPS receiver for a project of benefit to so many amateurs.
>I would need to know what type of receiver is preferred---a hand-held
>or a board one? The antenna---does the balloon shade satellite
>reception directly overhead, or is that negligible?
>
>I can be reached at: n0lrf@amsat.org

Trust me when I say this, YES he does!  I know this for a fact.
Additionally, I might hastily add that I know of an organization also in
that same immediate area which has some interest in participating in flying
a balloon project!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

630. Re: [APRSSIG:7493]

From: mmorg@juno.com (Myrle H Morgan)
Date: Thu, 19 Dec 1996 21:34:46 est
To: aprssig@tapr.org
Message-ID: <19961219.213554.4951.1.MMORG@juno.com>
Rendered body type: text/plain

```
I'm running APRSdos 7.7 with dos 6.22 and have experienced the same
problem.
I discovered that the problem was related to the dos virus monitoring
software
VSAFE tsr.  When I unloaded vsafe, the problem disappeared.
Since then I've loaded (actually MEMMAKER loaded) vsafe into high memory
and the problem no longer exists.  Hope this helps.

Seasons Greetings from New Hampshire .....     Myrle   K1HJC


************************************************************
Myrle H. Morgan  / PO Box 32 / 572 Chester Turnpike / Candia NH
03034-0032
Phone: (603) 483-5117
E-mail:  mmorg@juno.com
************************************************************
On Thu, 19 Dec 1996 18:45:29 -0600 (CST) Jack LeBreton
<bm670@freenet.toronto.on.ca> writes:
```

```
>Hi all SIGgers,
>       I've got a constant problem with my attempt to shell into DOS
>while working in APRS77E. The error message reads "illegal function
>call
>in line 0 of module APRS77W at address 1D28:5577 Hit any key to return
>to
>system"
>       I use a Compaq LTE286 laptop. I hope someone out there has a
>way
>out of this as I lose a lot of backups when I do this.
>       Thanx in advance,
>
>       73 de Jack VA3JAX
>
>
>
>
>
```

---

631. Re: [APRSSIG:7438] Re: APRS on an 8088

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 20 Dec 1996 06:00:51 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612200610.A7762-0100000@bcfreenet>
Rendered body type: text/plain

```
Shouldn't it work with TSR's that make the monochrome look like CGA?


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Wed, 18 Dec 1996, Greg wrote:

> Josh Housey wrote:
> >
> > Helloto everyone on the sig. The name here is Josh located in Sheboygan
> > Wisconsin. I have a problem with working DOS Aprs working on an 8088 system.
> > The question is that when I start APRS on this computer I get a weird error,
> > and the program won't load at all. I am running an 8088 with a black/white
> > monitor with a Hercules video adapter. Does anyone know why it is doing
> > this??? The main reason I want it to work on my 8088 is because I do not
> > want to use the main computer which is a 486 for APRS all the time, and want
> > to use the 8088 because it's main purpose is to use for packet and APRS.
> > If anyone has an answer to this problem will be appreciated!
> > Thanks.
> > 73
> > Josh
> > ________________________________________________
> > Josh, Lee, Linda, Steve, Travis, and Tim Housey
> > lhousey@excel.net
> > Sheboygan, Wisconsin
> > Amateur Radio: Josh, KG9BO es Lee, N9YLS
> > Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
> > Packet: N9YLS@N9GHE.#MTW.WI.USA.NA
> > Lattitude: 43' 45" N
> > Longitude: 87' 43" W
> > _________________________________________________
> The install.txt file that is in the readme subdirectory of the dos aprs
> distibution states it will not work with hercules adapters.
>
```

---

632. Re: EASY SATS and APRS (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 09:27:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220092003.25556B-100000@arctic>
Rendered body type: text/plain

```
I forward the following for your amusement.
Please do *NOT* respond to him or the AMSAT-BB in kind nor add fuel to
this debate, But it shows how polarized people are about APRS....  I will
forward my reply in a following message...

---------- Forwarded message ----------
Date: Wed, 18 Dec 1996 04:13:46 -0500
From: Philip Chien <kc4yer@amsat.org>
```

To: amsat-bb@amsat.org
Subject: Re: EASY SATS and APRS

Bob Bruninga <bruninga@nadn.navy.mil> tried to unload a bunch of propaganda and crap on top of us when he said:

>WIth larger numbers of stations today, something similar only requiring
>ONE successful UI packet with a gridsquare and brag info would accomplish
>even more with a lot less congestion...   I.E. APRS.
>
>Please this is not meant to PUSH APRS

to put it as sucinctly as possible ---- BULL SHIT!

... It is meant to push A STANDARD
>AMSAT POSITION/STATUS PROTOCOL what ever it might be. But you can be sure
>that APRtrak will be modified to receive and plot it on the map whatever
>it is...

Bob claims that he is not trying to push APRS, and promptly states his defintion of "A standard AMSAT position/status protocol" (his words) which happens to exactly fit APRS's definition.

WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????

Bob tried to accuse me of censoring a discussion because of my professional job, when in fact I was trying to encourage discussion about an impractical concept. (vis my message "An open challenge to Peter Vekinis about Picosats - was EZ-SAT" dated Tue, 10 Dec 1996 18:41:04 -0500.)

When challenged Bob claimed that he didn't realize that I was specifically talking about Peter Vekinis's Picosat "proposal" -- which was mentioned in both the title of my message and the body of the text.

WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????

Bob gave me a copy of APRtrak at a technical symposium in 1993 and tried it out. I wasn't impressed (my opinion). For satellites in fixed orbits it's basically redundant - enter one waypoint and the rest follows Newton's laws. For ground applications I'm not too impressed with just seeing folks report their locations.

There have been a couple of extremely unusual applications which I have encountered in the past couple of years where I feel APRS would have been useful, and even desirable for the ham radio and education communities, but I have not suggested the use of APRS because I am SO SICK AND TIRED OF THE APRS CROWD (read: Bob) TRYING TO SHOVE IT DOWN MY THROAT.

If Bob wasn't so adamant about insisting that everybody using his system, didn't make such stupid and unsupportable claims about APRS's wonderful capabilities, and wasn't so derogatory in his comments about people who do not want to use APRS I would have made those recommendations. And I regret that one of those opportunities has been lost completely (using APRS to report the locations of transmitters bouncing signals off the Inflatable Antenna Experiment) and I the other two won't happen because I refuse to encourage his unconstructive attitude.

I tried to use APRStrak during the one space mission where it was the officially sanctioned operating mode - the SPRE experiment on STS-72 and found the software to be extremely clumsy and unforgiving. Among other things, the software immediately started transmitting when it was started -- if I had a transceiver which started transmitting when I applied power I'd return it to the factory for repairs! The software had to be updated just before the mission began due to a bug -- and incorrect information which was disemenated about a fudge to fix a bug with East longitudes. (vis Bob's message titled "APRtrak E.long OK!", dated Mon, 15 Jan 1996 02:23:47 -0500 (EST). Better software testing ahead of time would have caught those, and other problems, but that's neither here or there. In any case I would not consider such an unusable piece of software something to develop a standard around.

During the STS-78 SAREX flight the astronauts were permitted to put the SAREX robot in to digipeat mode. That was the sole "authorization" of APRS operation. APRS was not supported by the SAREX customer support room in any other manner.

Neverthless in Bob Bruniga's paper "APRS SAREX Experiment on STS-78" (Proceedings of the AMSAT-NA 14th Space Symposium and AMSAT Annual Meeting) Bob goes on to claim that APRS was a succes.

Let's look at that claim a bit more closely. Nobody was told not to use APRS for STS-78. So Bob surely can't try to state that somebody was trying to sabotage APRS on that flight.

As Bob notes in his paper "18 stations were successfully reported via SAREX as part of the APRtrak/APRS experiment". And later states "A total of 65 APRS packets were received". He goes on to list the known (e.g. reported as trying) APRS stations which couldn't get through.

This is in comparison with the total 1357 connects registered by the SAREX packet robot. Hmm, I'd say that a whole bunch more people were successful getting through via "dumb terminal technology the same way we've been doing it for 10 years" (quote from the paper - and just one of many derogatory comments Bob has made about SAREX -- apparently with the logic that if somebody doesn't automatically think you're product is the best thing since sliced bread browbeat and insult them in to submission).

But I guess the 1357 folks who did get conencts learned math from a different place than Bob.

In Bob Bruniga's very questionable conclusions he states "had no adverse impact on the normal SAREX packet activity and should be encouraged on all future SAREX packet experiments" Which completely ignores the fact that there were APRS stations which made multiple contacts, and others which included messages in their status text - packet time which took away potential opportunities for others to get through to the shuttle.

Let's look at SPRE, where APRS was the only authorized form of communications. SPRE has a figure dedicated to it in Bob's paper, but no log of successful contacts listed in the paper. During the two passes where SPRE was in operation a total of 60 worldwide contacts were reported. Hmm, that works out to only once every 19 minutes! Okay, let's only look at the two continental U.S. passes where the majority of hams who were attempting to reach SPRE with APRS were located. Hmm, that's still less than one tenth the contact rate with the SAREX packet robot on a typical shuttle mission ... So much for the claims that APRS increases the number of people who can get through or that it would eliminate frustrations from unsuccessful contacts.

I do agree with Bob that SAREX contacts should only require a single contact instead of a multi-step process (hence my references only to the connects), and this is the attitude of the SAREX team. And will note that a packet protocol which *just* sends up the call sign to the shuttle, and returns a serial number, would take up even less packet time than an APRS contact since it would include less characters.

And APRS could only be viable within the EZ-Sat definition if the APRS community was willing to give (for free) a GPS receiver, AX.25 modem, and terminal to each person in the world which doesn't have any of those pieces of hardware. Otherwise it is in direct contradiction to the EZ-Sat progras goals -- to give ANYBODY with a 2 meter mobile radio and magmount antenna the capability to access a satellite.

So I wonder why Bob Bruniga claims that APRS is a viable protocol for EZ-Sats, space station, or SAREX.

WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????

but I repeat myself ...

Philip Chien, KC4YER
Earth News - space writer and consultant
note new E-mail address - pchien@digital.net

---

633. Maplist making question

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 20 Dec 1996 10:01:18
To: aprssig@tapr.org
Message-ID: <199612201501.KAA30133@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Mapmakers,

I've already got a fairly decent idea on how to use MK100K3. and MAPFIX28 but haven't yet figured out what to do with the results of these efforts. I made some maps, but have absolutely NO idea how to go about making a maplist! I'm pretty sure the format is as follows:

Mapname.map,90.00,180.00,512

where 90.00 is the map center in LATitude, 180.00 is it's LONgitude and 512 is the scale at which the map will first appear. I also understand that smaller scale maps must be lower on the list than the larger ones. To this end I tried "grafting" my new entires into an existing, appropriate maplist to no avail. Yes, I did make sure there were less than 160 maps in that maplist and they were at the bottom (it was one of Bob's APRS DISTRO maplists, so all the maps were 32-milers and mine are smaller.)

Where am I going wrong? Hopefully I'll get this solved soon so I can give you all a little Christmas Present on the TAPR site. Just a little something I've been whipping up. Tnx & 73 (And, for all the traffic handlers, ARL Sixty One!)

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

634. Maplist making question

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 20 Dec 1996 10:02:18
To: aprssig@tapr.org
Message-ID: <199612201502.KAA18711@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Mapmakers,

I've already got a fairly decent idea on how to use MK100K3. and MAPFIX28 but haven't yet figured out what to do with the results of these efforts. I made some maps, but have absolutely NO idea how to go about making a maplist! I'm pretty sure the format is as follows:

Mapname.map,90.00,180.00,512

where 90.00 is the map center in LATitude, 180.00 is it's LONgitude and 512 is the scale at which the map will first appear. I also understand that smaller scale maps must be lower on the list than the larger ones. To this end I tried "grafting" my new entires into an existing, appropriate maplist to no avail. Yes, I did make sure there were less than 160 maps in that maplist and they were at the bottom (it was one of Bob's APRS DISTRO maplists, so all the maps were 32-milers and mine are smaller.)

Where am I going wrong? Hopefully I'll get this solved soon so I can give you all a little Christmas Present on the TAPR site. Just a little something I've been whipping up. Tnx & 73 (And, for all the traffic handlers, ARL Sixty One!)

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

635. Re: [APRSSIG:7470] Fwd: Re: Peet Bros. U-500

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Fri, 20 Dec 1996 09:21:10 -0800
To: aprssig@tapr.org
Message-ID: <32BACB06.9AB@cjnetworks.com>
Rendered body type: text/plain

BordingK@aol.com wrote:

>
> In a message dated 96-12-19 10:22:47 EST, steved@vianet.on.ca (Steve Dubois)
> writes:
>
> << steved@vianet.on.ca >>

>
> Steve:
>
> Unfortunately you may be a rarity. While there are many dedicated hams
> updating weather frequently, that is not always the case.
>
> We are trying to establish a reliable system to enhance SKYWARN, NWS etc.
> Now that we have invested in numerous automatic weather stations, a few hams
> like to jump in an enter a weather entry every once in a while, however they
> fail to update them. When every automatic station is showing 32 degrees and
> the maunal stations are showing 45 degress because they've all gone to bed,
> what is to be believed? This undermines the accuracy of the entire system.
>
> The ability to either filter out or time out a weather entry will enhance the
> accuracy of weather reporting and thus the utility of APRS.
>
> And Merry Christmas to and all the others on the SIG.
>
> de KF4COH
> Ken in Jax
>
> ---------------------
> Forwarded message:
> From: steved@vianet.on.ca (Steve Dubois)
> Sender: aprssig@tapr.org
> Reply-to: aprssig@tapr.org
> To: aprssig@tapr.org
> Date: 96-12-19 10:22:47 EST
>
> Date: Thu, 19 Dec 1996 00:25:54 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: BordingK@aol.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:7451] Re: Peet Bros. U-500
>
> While we're on the subject of Weather Stations, any method of selectively
> filtering out manually entered weather stations? If not would Bob and The
> Sproul Bros consider adding this feature? We're trying to set up a reliable
> weather info system for the Ham and NWS use. Some folks enter wx data
> manually when the mood strikes them, so totally inacurate weather is reported
> for extended periods.
>
> de KF4COH
> Ken in Jax
>
> Ken:
> I think your statement above about manual wx entry is totally
> incorrect. I run a manual station here simpy because I cannot afford
> the price of a wx station. For your info I will put my wx
> observations and manual entries up against any auto wx system. I
> do not enter wx data when the mood strikes me either. I run a
> constant wx station here manually except during the hours which I
> sleep. My system runs 24 hrs per day. I am the only wx station in
> Northern Ontario that is on Aprs and WinAprs. I am sure there are
> many others out there as well.
>
> Merry Christmas to you and everyone else. May your holiday season be
> a safe and enjoyable one. 73.........
> Stephen Dubois VA3HOI
> CANWARN SPOTTER
> SAREX,APRS,WinAPRS
> steved@vianet.on.ca

Hi Everybody,
I have an operator question on this subject.
If you are using WinAPRS, and in the dialog box, where you state your
report time's. (I can not remember which one it is, but think it is in
the "SETTINGS", "APRS" pref's)
There is a TIME setting for HF,VHF, and WX.. NOW,, if you set the one
for WX to "0", the manual WX entry should not retransmit. IS THIS
CORRECT?
Else wise, for Manual WX reporting, you go into the WX window, and type
in the wx values. I thought that they just sit there, until you SEND the
WX. As long as the above TIME setting is set to "0" it should not
retransmit over and over.
Then the next time you want to manually SEND WX, you would need to go
into the WX window, and change your WX values to current values.
It makes no sense to me to send a MANUAL WX more than once.
Please correct me if I have missed something here..About WX being

```
retransmitted over and over again with OLD Wx Data manually entered.
Tnx... De Ross.
```

---

636. Re: [APRSSIG:7493]

From: alan@ernest.itg.ti.com (Alan Edmonds)
Date: Fri, 20 Dec 1996 10:16:06 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <m0vb7cG-00004dC@ernest.itg.ti.com>
Rendered body type: text/plain

```
I believe it's related to running out of memory.  There's not enough
left to shell a command.com from aprs.  Try eworking your config.sys
to free up from conventional memory.  I'm not sure how to do it else
I'd give you some hints.


> Hi all SIGgers,
>       I've got a constant problem with my attempt to shell into DOS
> while working in APRS77E. The error message reads "illegal function call
> in line 0 of module APRS77W at address 1D28:5577 Hit any key to return to
> system"
>       I use a Compaq LTE286 laptop. I hope someone out there has a way
> out of this as I lose a lot of backups when I do this.
>       Thanx in advance,
>
>       73 de Jack VA3JAX
>
>
>
>
>


--
Alan Edmonds, KB5ZUY                         Texas Instruments, Inc.
System Administrator, Composer Development   M/S 8515
Phone: +1-972-575-6427                       6620 Chase Oaks Blvd.
Email: Alan.Edmonds@ti.com                   Plano, TX, USA  75023
```

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637. Re: EASY SATS and APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 11:50:05 -0500 (EST)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220094141.25556D-100000@arctic>
Rendered body type: text/plain

```
My appologies to the AMSAT-BB, but Philip Chien's comments need a little
moderation...

> In his unending attempts to see just how gullible the AMSAT-BB community
> is, Bob Bruniga said "There were only 10 stations seriously attempting
> APRS, and 29 others who tried occassionally...
>
> Considering the very very small number of people particpating - I've got
> to question why my tax dollars were spent (and lots of them) to support
> this experiment.  If your figures are true.  10???????

COMMENT:  Everyone in the world with a TNC was invited to participate.
Numerous postings were made on AMSAT-BB and anywhere else the students
could think of...  and lots more got to SEE the packets..
>
> .....  How much government money (read: your tax dollars) was spent to
> develop and fly SPRE instead of another candidate payload which would have
> had more educational impact  ....  You know, it would be pretty bad if
> the media got a hold of this information.  Whoops - too late.

COMMENT:  The primary mission of SPRE was to provide a telemetry downlink
for the GPS system flown on the SPARTAN payload... Students at UMD saw the
opportunity to use the TELEMETRY and GPS capabilities built into the APRS
protocol rather than re-inventing a new wheel.  But since the telemetry
was only needed every several seconds, they thought why not let HAMS world
wide use the TNC as a digipeater the rest of the time...
>
> Chien continues: According to the SPRE preflight publicity... they tried
> to encourage as many hams as possible to download the software and attempt
> contacts.... If only 10 were serious and 29 others tried occasionally
> then I'd say that the ham radio space community has very CLEARLY
> indicated that it DOES NOT want to be bothered with APRS or APRStrak.
```

```
>
> Bruninga had said: " Now trying to compare that(60) to the 1357
> >successful conventional SAREX QSO's is impossible because no one has
> >any idea how many HAMS worldwide tried it the conventional CONNECTED
> >way...  I admit, I dont have a clue...   Lets try this...
> >    If say 1% of the 600,000 HAMS in the US alone made any attempt,
> >then you get about 6,000 people trying with 1000 successes but who knows?
>
> Chien responds: Quit trying to make up statistics to prove that your
> right when you've got nothing to stand on - you're only kidding
> yourself.  Where does the 1% figure come from?????  Are there even 6000
> hams who have AX.25 packet modems and use them to attempt to contact the
> shuttle - seriously or occasionally???

COMMENT:  In my paper and here, I try to avoid any comparisons because
there is NO DATA on conventional SAREX attempts.  You keep trying to force
me into numbers where there aren't any... and then criticize any attempts
to guess.  I have heard estimates of 10,000 or more per pass, but I
cannot and will not make any comparison because NO ONE KNOWS.  But gather
any 100 hams together after STS-78 and ask them how many attempted SAREX
and use your best judgment.  It would not surprise me if at least 1 had
tried..  TEN years ago the number of TNC's had passed over 100,000 and
the figure was doubling every year...  Most of us with our 10 mile radio
horizon (one ten-thousandth of the USA) find it hard to grasp the fact
that the Shuttle hears 10,000 times more people on the uplink than we do.

> >Chien continues:.....  Okay, let's only look  at the  two continental
> >> U.S. passes ...  Hmm, that's still less  than one tenth the contact
> >> rate with the SAREX packet robot on a typical shuttle mission
> >
> >APR REPLY. You are comparing 2 passes... with a 2 WEEK shuttle mission.
> >Compare on a per-pass basis and you get comparable success rates....
>
> Chien responds:  WHO ARE YOU TRYING TO KID????   I said "typical"
> mission - and did not specify any mission duration.

APR COMMENT:  Still, you are comparing 2 passes to whole-mission counts...
and you had just finished 5 pages of complaining about the STS-78 mission.
>
> Chien: QUIT TRYING TO MAINPULATE STATISTICS AND CLAIM FACTS WHERE NONE
> EXIST!!!   YOU'RE NOT FOOLING ANYBODY!
>
> >APRS REPLIED:  The APRS overhead is only 3 bytes.  I would rather see
> >little station ICONS pop up on my PC map screen showing the location of
> >the stations and what kind of station they had and some optional
> >additional text rather than bland serial numbers on a blue screen...
>
> Chien's response: Sorry - given the choice of bland serial numbers on a
> blue screen, or having to listen to unsupportable claims about how great
> APRS is in comparison with "dumb terminal technology the same way we've
> been doing it for 10 years" (Bob's quote from the aforementioned paper
> again) I'll stick with the blue screens....
>
> >> So I wonder why Bob Bruniga claims that APRS is a viable protocol for
> >> EZ-Sats, space station, or SAREX.
> >>
> >> WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????
> >>
> >> but I repeat myself ... Philip Chien, KC4YER

REPLY/COMMENT:  I appologize if my enthusiasm for APRS as an effecient
broadcast protocol for such wide area channels as the AMSAT EASY-SAT
concept is taken as forceful.  That is not my intent.  But some people
never see a light until it explodes in their face...  hi hi

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

638. Re: [APRSSIG:7456] Re: Dosaprs and Win95

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Fri, 20 Dec 1996 10:53:25 -0800
To: aprssig@tapr.org
Message-ID: <32BAE0A4.5651@cjnetworks.com>
Rendered body type: text/plain

```
Bruce W. Martin wrote:
>
> > Robert Radmore wrote:
```

> > > I am a new upgrade to Win95 and find I can't run DosAprs in a
> > > full window. Is there a work around or must I load a version of the
> > > old Dos?
>
> ------------- stuff deleted ---------
>
> tp which AAØMM, Ross wrote,
> > Bob,
> >   Well Well,,, Windows-95... I know the wonderment! Have you
> > noticed, that with the older first versions of DOS, and WINDOWS 3.1,
> > you got a MANUAL?? I mean a MANUAL???
>
> ------------- lots of stuff deleted ---------
>
> > Hope I have not TOTALY COMFUSED YOU!
> > GOOD LUCK!
> > And I know Mark and Keith are LAUGHING THEIR HEADS OFF now..
> > Take care De AAØMM, Ross
> >
>
> Of course they are rally laughing because they know the real answer is you should have bought a Macintosh.
>
> 73
> Bruce
>
> --

```
> ****************************************************************
> * Bruce W. Martin           Internet: martinbw@telalink.net   *
> * 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
> * Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
> * FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
> * "Being a Mac user is like being a Navy SEAL: a small, elite *
> *  group of people with access to the most sophisticated      *
> *  technology in the world, who everyone calls on to get the  *
> *  really tough jobs done quickly and efficiently."           *
> *  -- Nick Lehmann                                            *
> ****************************************************************
```

Well I do have an OPEN mind, though, unfortunately, I have never owned a
MAC... Wish I knew more about them.
You take care too...
De Ross.

---

639. Re: EASY SATS and APRS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 12:25:00 -0500 (EST)
To: amsat-bb@amsat.org
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220115013.25556E-100000@arctic>
Rendered body type: text/plain

The APRS Grid Square reporting format was suggested for effecient use on SAREX and other AMSAT Easy-Sats since it was human readable, only took 3 bytes of overhead, and could be used by stations even without a computer..

But the new APRS Mic-Encoder format (currently in TAPR beta test) is even better. It includes in a 0.3 second packet burst on the tail end of a voice transmission, the stations exact position, his course and speed, and 1 of 7 pre-planned messages. All in a standard AX.25 packet receivable by ANY TNC in only 7 bytes of overhead. (plus 6 more bytes if the optional 5 channels of telemetry are included...)

Planners of future amateur communications satellites might find it useful to consider the potential of such capabilities... for HAMS on the move... or small telemetry tasks...(Picosats)

On Thu, 19 Dec 1996, Philip Chien wrote:

> And there's no reason why somebody couldn't come up with a reasonable
> protocol - which fits within the existing protocols and system
> capabilities which would produce colorful icons, pictures, or
> whatevers you would wish - without trying to force it down our throats.
> Until then, I'll stick with blue screens and bland serial numbers.
>
> WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????
>
> but I repeat myself ... Philip Chien, KC4YER

REPLY: Well, that is exactly what APRS is. Just a recognizible way of

```
effeciently putting info in a UI packet... usable by every existing TNC,
past and present...
```

---

640. Re: [APRSSIG:7477] Re: Fwd: Re: Peet Bros. U-500

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 12:30:21 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220122653.25556G-100000@arctic>
Rendered body type: text/plain

```
On Thu, 19 Dec 1996 ttyamada@CCGATE.HAC.COM wrote about old WX data:

>      Perhaps a different Icon for manual entries,
>      and also have them time out?

REPLY/COMMENT:  We all agree, then, have them die.  The hard part is
getting agreement on the time period.  On HF where the WX report is just a
general report for a future port for some sailboat enroute, the report
should last a little longer, than a WX report in the middle of a SKYWARN
net...  But I could live with a 30 minute die period.  ANyone have a
better number?

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

641. Re: [APRSSIG:7485] Manual WX Entries

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 12:50:40 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220124539.25556K-100000@arctic>
Rendered body type: text/plain

```
On Thu, 19 Dec 1996, J. Scott Ratchford wrote:

> I suggested, that they add a "time out" routine to the program. Say, if
> you enter the data manually that the programs halts wx data transmitting
> after 30 mins or so. Have it delete the data from all other stations,

APRSdos REPLY/COMMENT:  Good point.  I was just going to let it die
(transmission wise).  But it remains on everyone else's screen until it
GRAY's out. (good comment Mark S.)   I suppose you are right.

So... after 30 minutes it is changed to a KILLed object...

Objections?

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

642. Berdoo Maps

From: Mike Musick <71301.3106@CompuServe.COM>
Date: 20 Dec 96 12:44:27 EST
To: <aprssig@tapr.org>
Message-ID: <961220174426_71301.3106_FHJ70-2@CompuServe.COM>
Rendered body type: text/plain

```
There are four WinAPRS maps covering the San Bernardino/Barstow area that were
uploaded to the FTP server a couple of days ago. The person who uploaded them
needs to know that these maps don't work on MacAPRS, but for some strange
reason are ok on WinAPRS. The fact that they were raw binaries and not ZIP'ed
or otherwise encapsulated might be a factor.

So... could you please ZIP the maps and re-upload 'em? Thanks!

  ...mike/N0QBF
```

---

643. Re: [APRSSIG:7498] Cold GPS45

From: ttyamada@CCGATE.HAC.COM
Date: Fri, 20 Dec 96 09:50:07 PST8
To: aprssig@tapr.org
Message-ID: <9611208511.AA851104807@CCGATE.HAC.COM>
Rendered body type: text/plain

```
Might it be the battery voltage?
     What does the battery bar graph look like when it's failing?
```

______________________________ Reply Separator _________________________________
Subject: [APRSSIG:7498] Cold GPS45
Author: aprssig@tapr.org at CCGATE
Date: 12/19/96 10:51 PM

Well, the temperature has dipped in the teens and lower 20's for the last couple of days here in Middle Tennessee. I have noticed that my GPS45 I left running with my tracker in the car has turned itself off. I will start it up again but after about 10 minutes it turns itself off again for lack of a satellite fix. If I put the GPS45 where hot air can blow in it it will finally lock on and start working again. The owners manual states that the operating temperature range is down to 5 deg. F. We have not got there yet. Has anybody else seen this phenomenon? Do I have a defective unit?

Bruce

```
--
***************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net   *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
* "Being a Mac user is like being a Navy SEAL: a small, elite *
*  group of people with access to the most sophisticated      *
*  technology in the world, who everyone calls on to get the  *
*  really tough jobs done quickly and efficiently."           *
*  -- Nick Lehmann                                            *
***************************************************************
```

644. Re: What Kind of Fool Am I...

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Fri, 20 Dec 1996 11:24:00 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961220112402.26df567e@mailhost.primenet.com>
Rendered body type: text/plain

>WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????
>
>but I repeat myself ...
>
>
>Philip Chien, KC4YER
>Earth News - space writer and consultant
>note new E-mail address - pchien@digital.net
>
>

What is their fargin propblem? Why is there so much resistance to APRS?

I mean many corporations have embraced the technology, but I know several hams and others who flinch when I show them this stuff. I guess they're worried about the Orwellian aspects of the technology or something.

I even had a hard time convincing Len Winkler, KB7LPW, the host of the nationally syndicated "Ham Radio & More" show about the utility of APRS.

I would like to join AMSAT, BUT if this is their position, I find that impossible.

Mark Fellhauer
KC7BXS

645. Re: [APRSSIG:7510] Re: Fwd: Re: Peet Bros. U-500

From: Tim Cwik <tcwik@acy.digex.net>
Date: Fri, 20 Dec 1996 13:43:14 -0500
To: aprssig@tapr.org
Message-ID: <199612201843.NAA11387@acy1.digex.net>
Rendered body type: text/plain

On Thu, 19 Dec 1996 ttyamada@CCGATE.HAC.COM wrote about old WX data:

> Perhaps a different Icon for manual entries,
> and also have them time out?

REPLY/COMMENT: We all agree, then, have them die. The hard part is getting agreement on the time period. On HF where the WX report is just a

```
        general report for a future port for some sailboat enroute, the report
        should last a little longer, than a WX report in the middle of a SKYWARN
        net...  But I could live with a 30 minute die period.  ANyone have a
        better number?

What about making 30 min a default, but allowing die period to be selectable by station id?  This would
allow users to make their own decision about particular manual stations.

Just a thought.
Tim
```

---

646. Re: [APRSSIG:7503] Maplist making question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 14:03:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220140122.25556T-100000@arctic>
Rendered body type: text/plain

```
On Fri, 20 Dec 1996, Arte Booten wrote:

>      I've already got a fairly decent idea on how to use MK100K3.  but
> haven't yet figured out what to do with the results of these efforts.
> I'm pretty sure the format is as follows:
>
> Mapname.map,90.00,180.00,512

APRSdos REPLY/COMMENT:  Must have a comma after the 512 for comments if
any.  Otherwise everything gets screwed up...


Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

647. Re: EASY SATS and APRS (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 14:21:34 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220142025.25556X-100000@arctic>
Rendered body type: text/plain

```
Here was my reply to Philip Chien trying to address only the facts...
-----------
On Wed, 18 Dec 1996, Philip Chien lambasted APRS, but some of the
more obvious oversights in his meandering attack need addressing:

> As Bob notes in his paper "18 stations were successfully reported via SAREX
> as part of the APRtrak/APRS experiment"....
> This is in comparison with the total 1357 connects registered by the SAREX
> packet robot.
>
> But I guess the 1357 folks who did get conencts learned math from a
> different place than Bob.

COMMENT:  Read the paper.  There were only 10 stations seriously
attempting APRS, and 29 others who tried occassionally, many only once on
passes not even optimal for their location (all in the USA).  With 65
successful packets from 18 different stations you get a feel for the
numbers.  Now trying to compare that to the 1357 successful conventional
SAREX QSO's is imposible because no one has any idea how many HAMS
worldwide tried it the conventional CONNECTED way...  I admit, I dont have
a clue...   Lets try this:

    Of the 1357, lets say that only 1000 were in the USA (remember, anyone
in a less densely populated area of the world will see little congestion
and will certainly see better success rates..)

    If say 1% of the 600,000 HAMS in the US alone made any attempt,
then you get about 6,000 people trying with 1000 successes but who knows?

Anyway, in my paper, I made no attempt at comparison other than to
conclude that APRS was successful because 65 little Icons and associated
text were relayed via SAREX successfully to the joy of the participants.
It seemed that the success rate was in the same ballpark as the SAREX
rate. I further concluded that if success was measured by getting one
packet digipeated through SAREX instead of a total of 5 per station as
presently required using the CONNECTED protocol, that the overall success
rate for everyone would be much higher..  My math teacher tells me that 1
packet is smaller and consumes less bandwidth than 5.  Nothing more...
```

> In Bob Bruniga's very questionable conclusions he states "had no adverse
> impact on the normal SAREX packet activity and should be encouraged on all
> future SAREX packet experiments" Which completely ignores the fact that
> there were APRS stations which made multiple contacts, and others which
> included messages in their status text - packet time which took away
> potential opportunities for others to get through to the shuttle.

Count the total packets. APRS stations only transmit a few packets per pass compared to continuous uncontrollable CONNECT requests from 6000 other stations... Ten packets per attempt. I concluded that 65 APRS packets from 18 people over a 2 week mission is still a very small number and probably had no impact on the SAREX mission.

Chien continues: Let's look at SPRE, where APRS was the only authorized
> form of communications.... During the two passes where SPRE was in
> operation a total of 60 worldwide contacts were reported.... Hmm, that
> works out to only once every 19 minutes! Okay, let's only look at the
> two continental U.S. passes ... Hmm, that's still less than one tenth
> the contact rate with the SAREX packet robot on a typical shuttle
> mission ... So much for the claims that APRS increases the number of
> people who can get through or that it would eliminate frustrations from
> unsuccessful contacts.

REPLY. You are comparing 2 passes that occurred between 0100 and 0500 AM mostly over the Gulf and Atlantic ocean, with a 2 WEEK shuttle mission with 25 packet passes over the USA during waking hours. Compare the two on a per pass basis and you get comparable success rates. Further, the 60 successes are for only 66 people trying. Yielding a 91% success rate.

> I do agree with Bob that SAREX contacts should only require a single
> contact instead of a multi-step process (hence my references only to the
> connects), and this is the attitude of the SAREX team. And will note that
> a packet protocol which *just* sends up the call sign to the shuttle, and
> returns a serial number, would take up even less packet time than an APRS
> contact since it would include less characters.

REPLY: The APRS overhead is only 3 bytes. I would rather see little station ICONS pop up on my map showing the location of the stations and what kind of station they were running and some possible additional text rather than bland serial numbers on a blue screen...

> So I wonder why Bob Bruniga claims that APRS is a viable protocol for
> EZ-Sats, space station, or SAREX.
>
> WHAT KINDS OF FOOLS DO YOU THINK WE ARE????????
>
> but I repeat myself ... Philip Chien, KC4YER

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

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648. RE: [APRSSIG:7510] Re: Fwd: Re: Peet Bros. U-500

From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
Date: Fri, 20 Dec 1996 12:21:00 -0800 (PST)
To: aprssig <aprssig@tapr.org>
Message-ID: <32BAE5CA@gismtpgate.gi.com>
Rendered body type: text/plain

If you're going to have different types of wx reports, why not assign different default timeout values, and allow users to change them independently?
Perhaps automated reports should die faster regardless of where they are being applied since you expect them to update regurlarly anyhow, and use your suggested default of 30 min for manual reports. (I'm sure somebody will WANT to see a five-hour-old report, so why not let them?) Or how about having the station SENDING the manual reports stop after the die time unless updated? That way it will go away everywhere...

Dave Borcher K7NG
Arizona Skywarn Obs #197
dborcher@nogmail.gi.com

From: aprssig
To: aprssig
Subject: [APRSSIG:7510] Re: Fwd: Re: Peet Bros. U-500

Date: Friday, December 20, 1996 11:33AM

On Thu, 19 Dec 1996 ttyamada@CCGATE.HAC.COM wrote about old WX data:

```
>      Perhaps a different Icon for manual entries,
>      and also have them time out?
```

REPLY/COMMENT: We all agree, then, have them die. The hard part is getting agreement on the time period. On HF where the WX report is just a general report for a future port for some sailboat enroute, the report should last a little longer, than a WX report in the middle of a SKYWARN net... But I could live with a 30 minute die period. ANyone have a better number?

```
Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

649. Re: [APRSSIG:7515] Re: Fwd: Re: Peet Bros. U-500

From: Mark Sproul <sproul@ap.org>
Date: Fri, 20 Dec 1996 14:24:37 -0500
To: aprssig@tapr.org
Message-ID: <v0300780eaee0970ed653@[165.1.27.20]>
Rendered body type: text/plain

>What about making 30 min a default, but allowing die period to be
>selectable by station id? This would allow users to make their own
>decision about particular manual stations.
>

Allowinmg each user to specify the "die" period of each MANUAL WX station on the screen is both tedious for the user and A REAL PAIN to program. Implementing a EXPERATION TIME of say 30 minutes or an hour for the TRANSMITTING station is easy.

What I expect to do is when a person inputs manual WX data, transmit it as is done now and continue to transmit at what ever WX XMIT rate the user has set up to 30 minutes or an hour. After that, the TRANSMITTING station will no longer output the WX data. It will continue to output other APRS data but NOT WX data. If the user goes in and updates the WX data, the timers are reset and it CONTINUES to output.

On the WinAPRS WX display option, you see the wx data, i.e. temp, rain, etc. But you ALSO see the AGE of the WX data, I was playing last night and there was some WX data that was 70 hours old (not very useful) but the display TOLD me it was 70 hours old I can then ignore it if I want. It happened to be a station in Peurto Rico so given the location, it was still some what useful, Had it been in NJ, were the averate temp has droped 30 over the last 70 hours it would have not been usefull.

Anyway, the above is what is planned for Mac/WinAPRS.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

650. Re: [APRSSIG:7511] Re: Manual WX Entries

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 20 Dec 1996 13:30:31 -0600
To: aprssig@tapr.org
Message-ID: <32BAE957.40AC@amsat.org>
Rendered body type: text/plain

Bob Bruninga wrote:

> So... after 30 minutes it is changed to a KILLed object...
>
> Objections?

I LIKE IT!

```
--
73, Paul, n0lrf@amsat.org
```

651. Re: [APRSSIG:7512] Berdoo Maps

From: Mark Sproul <sproul@ap.org>
Date: Fri, 20 Dec 1996 14:33:38 -0500
To: aprssig@tapr.org
Message-ID: <v0300780faee099b575d9@[165.1.27.20]>
Rendered body type: text/plain

```
>There are four WinAPRS maps covering the San Bernardino/Barstow area that were
>uploaded to the FTP server a couple of days ago. The person who uploaded them
>needs to know that these maps don't work on MacAPRS, but for some strange
>reason are ok on WinAPRS. The fact that they were raw binaries and not ZIP'ed
>or otherwise encapsulated might be a factor.
>
>So... could you please ZIP the maps and re-upload 'em? Thanks!
>
>  ...mike/N0QBF


I downloaded these maps to take a look at them.  All 3 of them
VICTORVI.map, BIG_BEAR.map, and NEWBERRY.map (I hope these are the ones you
refered to since you did not specify) have some data at the end missing or
else the header is messed up.  There is less points then the header says
there is.  Possibly the files got truncated when they were uploaded.

I have fixed MacAPRS and WinAPRS to handle this situation and report the
error but it then goes ahead and reads the map anyway.

Mark

__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

652. Need an e-mail address for W7KKE

From: Ron Drumheller <k3nxf@silcom.com>
Date: Fri, 20 Dec 1996 11:38:28 -0800
To: aprssig@tapr.org
Message-ID: <199612201944.LAA23911@beach.silcom.com>
Rendered body type: text/plain

```
Hi,

I need to talk with Ken Swaggart, W7KKE.

Does anyone have his email address or phone number.


Thanks,
Ron K3NXF
```

653. Apologies

From: jzaruba@juno.com (John A Zaruba Jr.)
Date: Fri, 20 Dec 1996 14:53:13 EST
To: kc5ejk@onramp.net
Cc: aprssig@tapr.org
Message-ID: <19961220.145947.8390.1.jzaruba@juno.com>
Rendered body type: text/plain

```
I'm sorry for the mix up Robert.

That mail was supposed to go to AMSAT-BB. I was a little worked up myself
and
mis-addressed it.

Again my apologies for the wasted bandwidth.

73 de John AA2BN
jzaruba@juno.com
```

654. Re: [APRSSIG:7510] Re: Fwd: Re: Peet Bros. U-500

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 15:24:12 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220151914.3527C-100000@arctic>
Rendered body type: text/plain

While fixing the old WX report problem after 30 mins, I decided to just change the station ICON from a WX station to a DOT. THis way the station is NOT killed but he still stays on the map. Since his ICON is no longer WX, then it is ignored in all WX stuff. But his old WX stays there in his station posit if anyone is interested...

```
Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

655. Maplist making question

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 20 Dec 1996 15:17:50
To: aprssig@tapr.org
Message-ID: <199612202018.PAA28785@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Mapmakers,

I've already got a fairly decent idea on how to use MK100K3. and MAPFIX28 but haven't yet figured out what to do with the results of these efforts. I made some maps, but have absolutely NO idea how to go about making a maplist! I'm pretty sure the format is as follows:

Mapname.map,90.00,180.00,512

where 90.00 is the map center in LATitude, 180.00 is it's LONgitude and 512 is the scale at which the map will first appear. I also understand that smaller scale maps must be lower on the list than the larger ones. To this end I tried "grafting" my new entires into an existing, appropriate maplist to no avail. Yes, I did make sure there were less than 160 maps in that maplist and they were at the bottom (it was one of Bob's APRS DISTRO maplists, so all the maps were 32-milers and mine are smaller.)

Where am I going wrong? Hopefully I'll get this solved soon so I can give you all a little Christmas Present on the TAPR site. Just a little something I've been whipping up. Tnx & 73 (And, for all the traffic handlers, ARL Sixty One!)

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

656. Mapmaking question

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 20 Dec 1996 15:18:25
To: aprssig@tapr.org
Message-ID: <199612202018.PAA23421@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi Mapmakers,

I'm trying to make a series of maps with Mk100k3 (a series of nine 4-mile maps and thirty-six 1-mile maps, four to each 4-mile map.) So far I've gotten all of the 4-mile maps done and all but one of the 1-mile maps. When trying to make this one from within a "DOS" window in Windows 95 the files draw the map and starts to chain the segments. The program then gets shut down and I get a message saying "This program has performed an illegal operation and will be shut down." Very shortly thereafter Norton Utilities tells me that "Virtual Memory Usage is Too High."

I then tried running the program from within a DOS session (shut down the computer, press F8 to select boot to command prompt only" and soon after the segments begin to chain (it gets to 16) the program freezes.

I thought perhaps there was something wrong with the DLG files, so I deleted and unzipped them afresh. Then I tried the above steps again with the same results.

This map is a detailed (default 1-mile detail level, not "+" or "!") street level map with dense urban streets and many of the others are coming out of Task-Skrunch

1.2 with much more than 3000 points (I know how to reduce these further) and am sure
that this map is also too big as is.

This series has been tough to do because of the density of streets and the sheer size of the DLG files. They are from TWO adjacent sets of DLG files (all from the 100K opt. format for my region) and I had to make the streets and hydro maps separately, then combine them with Mapfix. If I tried it otherwise, Mk100k3 wouldn't "see" the hydro DLG files. It's also my first attempt at mapmaking and it's a doozy anyhow.

I don't want to disclose the location of these maps publicly on the SIG just yet (I want it to be a surprise!), but will give specifics (map center and scale) to someone wishing to try to reproduce this problem.

The computer is a PC-clone DX2/50 with 12mB RAM running Win95. I've never seen this "Virtual Memory" stuff before with any of my other mapmaking efforts or, for that matter, with ANY other program.

Thanks for your help. Jack, I hope you see this and can figure it out! 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

---

657. Re: [APRSSIG:7519] Re: Fwd: Re: Peet Bros. U-500

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 15:29:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220152530.3527D-100000@arctic>
Rendered body type: text/plain

On Fri, 20 Dec 1996, Mark Sproul wrote:

> What I expect to do is when a person inputs manual WX data, transmit it as
> is done now and continue to transmit at what ever WX XMIT rate the user has
> set up to 30 minutes or an hour. After that, the TRANSMITTING station will
> no longer output the WX data. It will continue to output other APRS data
> but NOT WX data.

APRSdos REPLY/COMMENT: This is fine for me too, since APRSdos stores the WXposit and POSIT in the same place, then if the Win/Mac station sends a posit without the WX included, then this overwrites the WX posit and it is gone for good. DONE... (I also nailed it at 30 minutes too)

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

658. Thanks

From: Josh Housey <lhousey@excel.net>
Date: Fri, 20 Dec 1996 14:27:28 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961220142515.1a0f3b20@excel.net>
Rendered body type: text/plain

I just want to thank everyone who responded to this.
Merry Christmas to all on the sig.
73
Josh, KG9BO
____
Josh, Lee, Linda, Steve, Travis, and Tim Housey
lhousey@excel.net
Sheboygan, Wisconsin
Amateur Radio: Josh, KG9BO es Lee, N9YLS
Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
Packet: N9YLS@N9GHE.#MTW.WI.USA.NA
Lattitude: 43' 45" N
Longitude: 87' 43" W
____

---

659. HF APRS

From: Josh Housey <lhousey@excel.net>
Date: Fri, 20 Dec 1996 14:29:08 -0600
To: aprssig@tapr.org

Message-ID: <1.5.4.16.19961220142655.1a0f3856@excel.net>
Rendered body type: text/plain

```
Hello everyone. I am a active APRS user on 30 meters and I am just wondering
if APRS has appeared on any our HF bands.
You can send a response directly to lhousey@excel.net, or through the SIG.
Thanks.
73
Josh, KG9BO
_________________________________________________
Josh, Lee, Linda, Steve, Travis, and Tim Housey
lhousey@excel.net
Sheboygan, Wisconsin
Amateur Radio: Josh, KG9BO es Lee, N9YLS
Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
Packet: N9YLS@N9GHE.#MTW.WI.USA.NA
Lattitude: 43' 45" N
Longitude: 87' 43" W
________________________________________________
```

---

660. APRS HF QRP...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Dec 1996 17:19:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961220171256.8882G-100000@arctic>
Rendered body type: text/plain

```
Well, so far no one has responded to my QRP APRS station on 10.151 LSB
but its probably because of the 100 Hz per hour wandering of the VFO.
Xtal is on order for instln probably after XMAS, so I am going back to 100
watt rig.

ALso, the RAMSEY 20 Watt QRP amp works fine... up to about 7 watts out
with 1 watt in..  Analyze the circuit, and it couldnt possibly go higher.
The transistors are fully driven at that point.  So its OK, just
some optimistic advertising.....  It does give you 7 dB gain to their 1
watt QRP xmtr....  But does nothing for my 5 watt MFJ.

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

661. No GPS data from DFJr MPA

From: "Tommy Ellison" <TOMMY.ELLISON@worldnet.att.net>
Date: Fri, 20 Dec 1996 16:56:30 -0500
To: <aprssig@tapr.org>
Message-ID: <19961220221812.AAA12602@tellison>
Rendered body type: text/plain

```
I cannot get any GPS data strings from the DFjr MPA. I am using the
Magellin Meridian/XL GPS set at the default 4800 baud. Have tried to set it
as specified by the manual but with no success. I am getting DF telemetry
just fine, but without the GPS position string.  It's like the GPS is not
even connected. Does anyone have any suggestions as to what I might be
doing wrong? Any comments would be appreciated

                Tommy Ellison KE4DGH
```

---

662. HF APRS Questions

From: Richard Parry <rparry@qualcomm.com>
Date: Fri, 20 Dec 1996 14:43:22 -0800
To: aprssig@tapr.org
Message-ID: <v03007807aee0c5712404@[129.46.159.136]>
Rendered body type: text/plain

```
To the HF APRS's,

    I am trying to understand the benefits of having a personal HF APRS
system.  For example, if I have a local GATE, why would I want to have a
personal HF APRS system.  Seems I already have the information the HF
APRS's have thanks to a local GATE.  Isn't the GATE providing me with the
information that the HF APRS see?

    In other words, when I look at my 144.79 APRS map and see APRS's over
the US, aren't I seeing what the HF APRS people are seeing and I don't need
an HF rig.

   Am I missing something?
```

```
---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Globalstar/Gateway Reverse Link
Intranet --> <http://web/~rparry>
Internet --> <http://www.qualcomm.com/~rparry>
---------------
```

---

663. Re: [APRSSIG:7522] Need an e-mail address for W7KKE

From: Ron Drumheller <k3nxf@silcom.com>
Date: Fri, 20 Dec 1996 15:20:40 -0800
To: aprssig@tapr.org
Message-ID: <199612202326.PAA22746@beach.silcom.com>
Rendered body type: text/plain

```
To All,

Thanks for the reply about the address for W7KKE.

73,
Ron K3NXF

At 01:49 PM 12/20/96 -0600, you wrote:
>Hi,
>
>I need to talk with Ken Swaggart, W7KKE.
>
>Does anyone have his email address or phone number.
>
>
>Thanks,
>Ron K3NXF
>
>
```

---

664. Re: [APRSSIG:7532] HF APRS Questions

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 20 Dec 96 18:56:42 -0500
To: <aprssig@tapr.org>
Message-ID: <199612202356.SAA11335@newworld.bridge.net>
Rendered body type: text/plain

```
>To the HF APRS's,
>
>    I am trying to understand the benefits of having a personal HF APRS
>system.  For example, if I have a local GATE, why would I want to have a
>personal HF APRS system.  Seems I already have the information the HF
>APRS's have thanks to a local GATE.  Isn't the GATE providing me with the
>information that the HF APRS see?
>
You only see the info that is specifically passed thru the GATE. For
example, on HF some stations do not put GATE into their paths, so you'd
never see them on the VHF side of the GATE. Also, suppose an HF station
sets his path to APRS via W7LUS,GATE,WIDE. If the GATE in your area is
hearing him direct, and not hearing the digi W7LUS, the posit report
would nat make it onto VHF. In practice I'd say (guess) that only 2/3 of
the HF STATIONS I see make it through the GATE.

>    In other words, when I look at my 144.79 APRS map and see APRS's over
>the US, aren't I seeing what the HF APRS people are seeing and I don't need
>an HF rig.
>
You'd probably have better luck on 145.79, HI. But yes, the ability to
see the positions without an HF rig is one of the main reasons for HF
GATES. You will see more stations with your own HF station.

Steve K4HG
sdimse@bridge.net
```

---

665. (no subject)

From: Joe Agrelo <jagrelo@cris.com>
Date: Fri, 20 Dec 1996 19:09:41 -0800
To: aprssig@tapr.org
Message-ID: <32BB54F5.1794@cris.com>
Rendered body type: text/plain

```
Subject: Re: [APRSSIG:7531] No GPS data from DFJr MPA
```

References: <19961220221812.AAA12602@tellison>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tommy Ellison wrote:

> I cannot get any GPS data strings from the DFjr MPA. I am using the Magellin Meridian/XL GPS set at the default 4800 baud. Have tried to set it as specified by the manual but with no success. I am getting DF telemetry just fine, but without the GPS position string. It's like the GPS is not even connected. Does anyone have any suggestions as to what I might be doing wrong? Any comments would be appreciated
>
> Tommy Ellison KE4DGH

Tommy,

DFsr here, it sounds like the GPS port is off, or your not sending RMC from the Meridian. You can send all the NMEA strings to the DFjr and it will parse the RMC sentence.

After doing a MENU-10 factory reset (GPS port is off from factory)

GOTO MENU-3 (LED between 45 & 90)
GOTO SUB-1 (LED between 0 & 315)
THEN ENTER

This will turn on the GPS port on, default $GPRMC. Watch your data coming in through any terminal program before attempting APRS. I answer tech question over the weekend if you need me.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

666. Re: [APRSSIG:7452] Re: APRS on an 8088

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 20 Dec 1996 19:45:39 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612201954.A28993-0100000@bcfreenet>
Rendered body type: text/plain

There is a program called HGCIBM and it is installed 'hgcibm /e' where the /e is for 'emulate' I guess. It allows the Herculese Graphics adapter to behave as if it were a CGA, Color Graphics Adapter. It should work nicely with APRS. 73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

---

667. Re: Cold GPS45

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Fri, 20 Dec 1996 19:07:54 -0600
To: aprssig@tapr.org
Message-ID: <9612201907.AA54950@oscar.telalink.net>
Rendered body type: text/plain

I don't think that battery voltage is the problem. The GPS45 is powered from the automobile electrical system, and the car started up just fine. When the GPS45 is powered externally the bar graph does not show up. I should alsomention that I am using a motorola puck antenna on the dash and has worked just fine in warmer temps. Changing to the standard GPS45 antenna makes no difference.

Bruce

>
> Might it be the battery voltage?
> What does the battery bar graph look like when it's failing?
>
>
> ____________________________ Reply Separator________________________
> Subject: [APRSSIG:7498] Cold
> GPS45 Author: aprssig@tapr.org at CCGATE Date:12/19/96 10:51 PM
>
>
> Well, the temperature has dipped in the teens and lower 20's for the
> last couple of days here in Middle Tennessee. I have noticed that my
> GPS45 I left running with my tracker in the car has turned itself off.
> I will start it up again but after about 10 minutes it turns itself
> off again for lack of a satellite fix. If I put the GPS45 where hot
> air can blow in it it will finally lock on and start working again.
> The owners manual states that the operating temperature range is down
> to 5 deg. F. We have not got there yet. Has anybody else seen
> this phenomenon? Do I have a defective unit?
>
> Bruce

--
```
**************************************************************
* Bruce W. Martin           Internet: martinbw@telalink.net  *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                  *
* Hermitage TN  37076-2650  (615) 872-7733                   *
**************************************************************
```

668. Re: [APRSSIG:7531] No GPS data from DFJr MPA (part-2)

From: Joe Agrelo <jagrelo@cris.com>
Date: Fri, 20 Dec 1996 20:24:12 -0800
To: aprssig@tapr.org
Message-ID: <32BB666C.3595@cris.com>
Rendered body type: text/plain

Tommy Ellison wrote:
>
> I cannot get any GPS data strings from the DFjr MPA. I am using the
> Magellin Meridian/XL GPS set at the default 4800 baud. Have tried to set it
> as specified by the manual but with no success. I am getting DF telemetry
> just fine, but without the GPS position string. It's like the GPS is not
> even connected. Does anyone have any suggestions as to what I might be
> doing wrong? Any comments would be appreciated

Tommy,

I forgot to mention that the GPS posit rate is set to a default of 40
seconds,
You may want to shoten this just for your testing.

Posting here on the SIG so others may benefit as well.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 " "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

669. Re: [APRSSIG:7469] Re: Xmas specials

From: David Wells <davew@cruzio.com>
Date: Fri, 20 Dec 1996 20:14:50 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612201806.aa16984@bbs.cruzio.com>

Rendered body type: text/plain

```
At 09:50 AM 12/19/96 -0600, you wrote:
>On Wed, 18 Dec 1996, David Wells wrote:
>
>> The company I work for (which will remain nameless so I do not seem too
>> commercial) has been selling GPS-45's (and some other models) as
>> "Distressed" (used but good) at quite a savings off the usual price. Perhaps
>> this is what the person was refering to.
>
>APRSdos REPLY/COMMENT:  THis isnt HAM radio, hi hi..  HOw much????  Im
>sure there are folks here that would like to hear and maybe purchase
>one...
>
>Reply mail addr:   wb4apr@amsat.org
>See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
>GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
>
>.-
>
>

OK, OK. I work for West Marine. The stores that sell distressed products are
listed below. You must contact them for price and availability.

Seattle, WA.......................206-789-4640
Oakland, CA.......................510-532-5230
San Diego, CA.....................619-225-8844
Ft. Liquoredale err Lauderdale....305-527-5540
Alexandria, VA....................703-549-7020

Dave

David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

---

670. Re: [APRSSIG:7498] Cold GPS45

From: David Wells <davew@cruzio.com>
Date: Fri, 20 Dec 1996 20:14:53 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612201806.aa17094@bbs.cruzio.com>
Rendered body type: text/plain

```
At 12:24 AM 12/20/96 -0600, you wrote:
>Well, the temperature has dipped in the teens and lower 20's for the last
>couple of days here in Middle Tennessee. I have noticed that my GPS45 I left
>running with my tracker in the car has turned itself off. I will start it up
>again but after about 10 minutes it turns itself off again for lack of a
>satellite fix. If I put the GPS45 where hot air can blow in it it will
finally
>lock on and start working again. The owners manual states that the operating
>temperature range is down to 5 deg. F. We have not got there yet. Has anybody
>else seen this phenomenon? Do I have a defective unit?
>
>Bruce
>

I do not own a 45 and I do not have a manual here but if it does not say
"operating" temperature then it means storage temperature.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

---

671. Re: [APRSSIG:7513] Re: Cold GPS45

From: marley@lu.lincoln.edu
Date: Fri, 20 Dec 96 21:20:08 -0500
To: aprssig@tapr.org
Message-ID: <199612210219.UAA06007@tapr.org>
Rendered body type: text/plain

```
I HAVE ALSO HAD THIS PROBLEM WITH MY GARMAN 45 IN THE COLD.  I USUALLY LEAVE MY
TRACKER IN THE CAR, BUT WHEN IT FIRST GOT COLD SAT LOCK WAS IMPOSSIBLE UNLESS I
WARMED THE UNIT UP.  NOW I JUST TAKE THE GPS INSIDE AND IT WILL AQUIRE IN JUST A
FEW MINUTES.
```

```
                IS THIS WHAT THEY REFER TO AS A COLD START??  HI HI

73  AND A HAPPY HOLIDAY TO ALL

                de  N3OBQ  ROBERT MARLEY
                    N3OBP  SHERI MARLEY
```

---

672. USR Modem upgrade

From: CHEAD@CESADM.CORP.ti.com
Date: Fri, 20 Dec 1996 21:12:15 -0600 (CST)
To: aprssig@tapr.org
Cc: CHEAD@CESADM.CORP.ti.com
Message-ID: <961220211215.2c0055a9@CESADM.CORP.TI.COM>
Rendered body type: text/plain

```
This is not exactly aprs business, but is close. Would hate for anyone to miss
a free upgrade because they did not know about it.

US Robotics is offering a free upgrade of many of their modem products to the
new 56KB capability, but only if the request is made by 12/31/96. Check their
Web page at:

         http://www.usr.com

Merry Christmas, all.

73 Claude Head
   K5DTN
   chead@cesadm.corp.ti.com
```

---

673. Re: [APRSSIG:7513] Re: Cold GPS45

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 20 Dec 1996 22:45:28 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961220224322.23595A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Fri, 20 Dec 1996 ttyamada@CCGATE.HAC.COM wrote:

>
>      Might it be the battery voltage?
>      What does the battery bar graph look like when it's failing?

I didn't post the original question..(GPS shutdown in cold weather)...
but I thought I'd mention that not all Garmin 45s are the same. Mine does
*not* show the battery bar graph when running on external power.


Richard Amirault             N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

674. Re: [APRSSIG:7498] Cold GPS45

From: ke6nyt@fishnet.net (Dan Dicke)
Date: Fri, 20 Dec 1996 19:57:49 -0800
To: aprssig@tapr.org
Message-ID: <199612210357.TAA28252@big.fishnet.net>
Rendered body type: text/plain

```
I have a 45XL and it worked fine at 7 degrees at 9000 ft in Utah  deer
hunting Oct 20.   It worked better than my Icom ICZ1A.  It had a hard time.
Once I put it in my jacket for a couple of minutes it worked great also.
You may want to check your batteries.  The cold can trash batteries in a
heartbeat...I have seen on this net that people with the old 45 would keep
getting reset even on external power if the internal batteries were no good.
THe 45XL will run on external power without having batteries in.  However,
so that you don't loose what you got, it is a good idea to have the
batteries inside incase your external power dies.

Just a thought.

Dan
KE6NYT


>Well, the temperature has dipped in the teens and lower 20's for the last
>couple of days here in Middle Tennessee. I have noticed that my GPS45 I left
>running with my tracker in the car has turned itself off. I will start it up
>again but after about 10 minutes it turns itself off again for lack of a
```

```
>satellite fix. If I put the GPS45 where hot air can blow in it it will
finally
>lock on and start working again. The owners manual states that the operating
>temperature range is down to 5 deg. F. We have not got there yet. Has anybody
>else seen this phenomenon? Do I have a defective unit?
>
>Bruce
>
>
>--
>**************************************************************
>* Bruce W. Martin           Internet: martinbw@telalink.net   *
>* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                   *
>* Hermitage TN  37076-2650   Voice:     (615) 872-7733        *
>* FAX/MODEM: (615) 872-0045      APRS:3610.50N/08635.50W      *
>* "Being a Mac user is like being a Navy SEAL: a small, elite *
>*  group of people with access to the most sophisticated      *
>*  technology in the world, who everyone calls on to get the  *
>*  really tough jobs done quickly and efficiently."           *
>*  -- Nick Lehmann                                            *
>**************************************************************
>
>
```

---

675. Re: [APRSSIG:7542] USR Modem upgrade

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 20 Dec 1996 22:33:25 -0600
To: aprssig@tapr.org
Message-ID: <32BB6895.5EF1@concentric.net>
Rendered body type: text/plain

```
CHEAD@cesadm.corp.ti.com wrote:
>
> This is not exactly aprs business, but is close. Would hate for anyone to miss
> a free upgrade because they did not know about it.
>
> US Robotics is offering a free upgrade of many of their modem products to the
> new 56KB capability, but only if the request is made by 12/31/96. Check their
> Web page at:
>
>          http://www.usr.com
>
> Merry Christmas, all.
>
> 73 Claude Head
>    K5DTN
>    chead@cesadm.corp.ti.com

You are partly (but not very) correct. You did not mention that it's only for the
sporster modem (No others), like my Courier 28,8 dual standard.

Merry Christmas and a Happy New Year to all.
```

---

676. Re: [APRSSIG:7498] Cold GPS45

From: "L.S.Bradley" <leeb@islc.net>
Date: Sat, 21 Dec 1996 04:27:39 -0000
To: <aprssig@tapr.org>
Message-ID: <199612210426.XAA13482@server.islc.net>
Rendered body type: text/plain

```
----------
> From: Bruce W. Martin <martinbw@telalink.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7498] Cold GPS45
> Date: 20 December, 1996 6:24 AM
>
> Well, the temperature has dipped in the teens and lower 20's for the last

> couple of days here in Middle Tennessee. I have noticed that my GPS45 I
left
> running with my tracker in the car has turned itself off. I will start it
up
> again but after about 10 minutes it turns itself off again for lack of a
> satellite fix. If I put the GPS45 where hot air can blow in it it will
finally
> lock on and start working again. The owners manual states that the
operating
> temperature range is down to 5 deg. F. We have not got there yet. Has
anybody
```

```
> else seen this phenomenon? Do I have a defective unit?
>
> Bruce
>

Have you tried turning the display illumiation on when you first turn it
on??? I have noticed that the GPS-45 gets warm when I have been underway at
night. Maybe you check and see if that little bit of heat will settle the
thing down.


Lee W1WXS EM92pj
sv/FUNDY
leeb@islc.net
```

---

677. Re: [APRSSIG:7542] USR Modem upgrade

From: William Nolle <wa8inz@concentric.net>
Date: Fri, 20 Dec 1996 22:52:27 -0600
To: aprssig@tapr.org
Message-ID: <32BB6D0B.607F@concentric.net>
Rendered body type: text/plain

```
CHEAD@cesadm.corp.ti.com wrote:
>
> US Robotics is offering a free upgrade of many of their modem products to the
> new 56KB capability, but only if the request is made by 12/31/96. Check their
> Web page at:
>
>          http://www.usr.com
>
> Merry Christmas, all.
>
> 73 Claude Head
>    K5DTN
>    chead@cesadm.corp.ti.comAgain I let my fingers do the answering before fully investigating what
Claude was
saying in his message. I spend a little more time checking into this and it does in
fact cover several other models, but only those purchased within the last year or
so i believe. Sorry Claude.
```

---

678. Re: [APRSSIG:7545] Re: USR Modem upgrade

From: Roger Sellers <rsellers@rockford.com>
Date: Fri, 20 Dec 1996 23:11:47 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961220231145.006bb4e8@rockford.com>
Rendered body type: text/plain

```
At 10:59 PM 12/20/96 -0500, you wrote:
>
>CHEAD@cesadm.corp.ti.com wrote:
>> This is not exactly aprs business, but is close. Would hate for anyone
to >>miss a free upgrade because they did not know about it.
>>
>> US Robotics is offering a free upgrade of many of their modem products
to >>the new 56KB capability, but only if the request is made by 12/31/96.
Check >>their Web page at:
>>
>>          http://www.usr.com
>>
>> Merry Christmas, all.
>>
>> 73 Claude Head
>>    K5DTN
>>    chead@cesadm.corp.ti.com
>
>You are partly (but not very) correct. You did not mention that it's only
for the
>sporster modem (No others), like my Courier 28,8 dual standard.
>
>Merry Christmas and a Happy New Year to all.
>
>
No, I did see a section for courier purchased before Dec 31, 1996. Check it
out.


Roger Sellers   KB9LBU
email: Home rsellers@rockford.com
            KB9LBU@juno.com
```

```
        Work rsellers@snds.com
```

---

679. Re: [APRSSIG:7547] Re: USR Modem upgrade

From: rkramer@merge1.mergetel.com (Ron Kramer)
Date: Sat, 21 Dec 1996 06:07:38 GMT
To: aprssig@tapr.org
Message-ID: <32bc7e12.372573104@mail.mergetel.com>
Rendered body type: text/plain

```
On Fri, 20 Dec 1996 22:56:20 -0600 (CST), you wrote:

> I let my fingers do the answering before fully investigating what Claude was
>saying in his message. I spend a little more time checking into this and it does in
>fact cover several other models, but only those purchased within the last year or
>so i believe. Sorry Claude.
>
The Courier V.Everthing and the Courier I-modem
only state By 12/31/96 which indicates to me if purchased
anytime before 12/31/96
The others state between two dates...

73 de Ron                           Best Regards
Email: rkramer@mergetel.com      ve3mx@mergetel.com
Packet: ve3mx@ve3snp
```

---

680. Re: [APRSSIG:7548] Re: USR Modem upgrade

From: William Nolle <wa8inz@concentric.net>
Date: Sat, 21 Dec 1996 00:17:06 -0800
To: aprssig@tapr.org
Message-ID: <32BB9D02.6DAF@concentric.net>
Rendered body type: text/plain

```
Roger Sellers wrote:
>
>
> No, I did see a section for courier purchased before Dec 31, 1996. Check it
> out.
>
> Roger Sellers   KB9LBU
> email: Home rsellers@rockford.com
>             KB9LBU@juno.com
>        Work rsellers@snds.com

Yes in fact Claude and yourself are right, i noticed this after going deeper
into the webpage at their site. This would apply to my Courier dual standard
then also. That's a great deal and I already applied for it, won't be available
till the first quarter of 97 though. Thanks to you and Claude i won't miss out
on this one. By the way did my messages get screwed up, i send them from my new
laptop and when i seen them they didn't look right altough i was using the same
mailer.

--
      \////
      (0 0)
 *--o0-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

681. APRS 7.7e Dos and Windows 95

From: Steven Stark <steves68@mindspring.com>
Date: Sat, 21 Dec 1996 01:22:13 -0500
To: APRSSIG <aprssig@tapr.org>
Message-ID: <32BB8215.2AFF@mindspring.com>
Rendered body type: text/plain

```
I am running APRS 7.7e for dos under Win 95. Whenever I have it
minimized, the program seems to suspend any activity until I maximize
again. I have played with the properties and can't seem to get it right.
Any Hints would be appreciated.
73
--
X-Signature: AKA

Steve Stark/N4YOG (steves68@mindspring.com)
..
```

---

682. Re: APRS 7.7e Dos and Windows 95

From: Anthony Hickey <fhickey@neosoft.com>
Date: Sat, 21 Dec 1996 01:25:38 -0600
To: aprssig@tapr.org
Message-ID: <32BB90F2.6067@neosoft.com>
Rendered body type: text/plain

Steven Stark wrote:

> I am running APRS 7.7e for dos under Win 95. Whenever I have it minimized, the program seems to suspend any activity until I maximize again. I have played with the properties and can't seem to get it right. Any Hints would be appreciated.

I have discovered that it will work fine in a window as long as you have the box under properties "always suspend" unchecked. You can switch between a window and a full screen with the alt-enter keystroke. I push F-10 for windoz and then alt-enter. Win 95 has since *learned* to switch to a window by just pushing F-10, and bounce back to full screen with the space bar. Everything seems to work normally, if you are not running any processor demanding programs. a utility I have says it takes about 85% processor time when nothing else is running, and about 15% in the background. When I try to minimize it pauses and nothing is processed (I get hours missing in my H-list and everything is grayed out) I have discovered a egotistical program that checks the box "always suspend" for APRS and causes the same effect. The whole system seems a bit slower, but you'll do fine if you don't run multimedia, etc. So the only options I discovered that works is in a window or full screen.

Anthony AB5QR fhickey@neosoft.com

683. External Power for Tripmate

From: Jim Conrad <jjc@infi.net>
Date: Sat, 21 Dec 1996 04:04:44 -0500 (EST)
To: aprssig@tapr.org
Cc: dwilson@s850.mwc.edu
Message-ID: <2.2.16.19961221040405.38af7b98@mailhost.infi.net>
Rendered body type: text/plain

If your looking for an external power source for the Tripmate, Delorme just released one. This just came from the Delorme Web Page today;

>Tripmate Power Accessory Kit
>
>Stop buying batteries! The Tripmate Power Adapter Kit comes with two cables:
>one connects Tripmate to your car cigarette lighter, the other plugs
Tripmate >into the accessory port on your laptop PC and draws power from
your laptop. The
>Tripmate Power Adapter Kit is only $39, plus shipping and handling.

```
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
<:>       Jim Conrad - Ocean View Communications - jjc@infi.net      <:>
<:>  757-490-8127 Office  -  757-587-8251 Fax - 757-473-6740 Pager   <:>
<:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:><:>
```

684. Mery Xmas from the Sproul Bros

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Sat, 21 Dec 96 9:51:04 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.851179864.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

Mery Christmas from the Sproul Brothers...

A Ham's Night Before Christmas

Twas the night before Christmas,
And all through two-meters,
Not a signal was keying up
Any repeaters.

The antennas reached up
From the tower, quite high,
To catch the weak signals
That bounced from the sky.

The children, Tech-Pluses,

Took their HT's to bed,
And dreamed of the day
They'd be Extras, instead.

Mom put on her headphones,
I plugged in the key,
And we tuned 40 meters
For that rare ZK3.

When the meter was pegged
by a signal with power.
It smoked a small diode,
and, I swear, shook the tower.

Mom yanked off her phones,
And with all she could muster
Logged a spot of the signal
On the DX PacketCluster,

While I ran to the window
And peered up at the sky,
To see what could generate
RF that high.

It was way in the distance,
But the moon made it gleam -
A flying sleigh, with an
Eight element beam,

And a little old driver
who looked slightly mean.
So I though for a moment,
That it might be Wayne Green.

But no, it was Santa
The Santa of Hams.
On a mission, this Christmas
To clean up the bands.

He circled the tower,
Then stopped in his track,
And he slid down the coax
Right into the shack.

While Mom and I hid
Behind stacks of CQ,
This Santa of hamming
Knew just what to do.

He cleared off the shack desk
Of paper and parts,
And filled out all my late QSLs
For a start.

He ran copper braid,
Took a steel rod and pounded
It into the earth, till
The station was grounded.

He tightened loose fittings,
Resoldered connections,
Cranked down modulation,
Installed lightning protection.

He neutralized tubes
In my linear amp...
(Never worked right before --
Now it works like a champ).

A new, low-pass filter
Cleaned up the TV,
He corrected the settings
In my TNC.

He repaired the computer
That would not compute,
And he backed up the hard drive
And got it to boot.

Then, he reached really deep
In the bag that he brought,
And he pulled out a big box,
"A new rig?" I thought!

"A new Kenwood? An Icom?
A Yaesu, for me?!"
(If he thought I'd been bad
it might be QRP!)

Yes! The Ultimate Station!
How could I deserve this?
Could it be all those hours
that I worked Public Service?

He hooked it all up
And in record time, quickly
Worked 100 countries,
All down on 160.

I should have been happy,
It was my call he sent,
But the cards and the postage
Will cost two month's rent!

He made final adjustments,
And left a card by the key:
"To Gary, from Santa Claus.
Seventy-Three."

Then he grabbed his HT,
Looked me straight in the eye,
Punched a code on the pad,
And was gone - no good bye.

I ran back to the station,
And the pile-up was big,
But a card from St. Nick
Would be worth my new rig.

Oh, too late, for his final
came over the air.
It was copied all over.
It was heard everywhere.

The Ham's Santa exclaimed
What a ham might expect,
"Merry Christmas to all,
And to all, good DX."

(C) 1996 Gary Pearce KN4AQ

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

---

685. Re: [APRSSIG:7485] Manual WX Entries

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 21 Dec 1996 10:59:24 -0400
To: jratchf@bulldog.afsc.k12.ar.us
Cc: Aprssig@tapr.org
Message-ID: <851183964-0-eac@shore.net>
Rendered body type: text/plain

Hello,

If there is a timeout I would suggest slightly over a hour. After all the surface observations done by the Pros are generally done once an hour and I do not hear many complaints about that.

73 Eric eac@shore.net WB1HBU

---

686. Re: [APRSSIG:7531] No GPS data from DFJr MPA

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 21 Dec 1996 11:23:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961221112236.21366B-100000@arctic>
Rendered body type: text/plain

```
On Fri, 20 Dec 1996, Tommy Ellison wrote:

> I cannot get any GPS data strings from the DFjr MPA. I am using the
> Magellin Meridian/XL GPS set at the default 4800 baud....

APRSdos REPLY/COMMENT:  I assume the GPS is getting a fix.  My meridian
will output NOTHING unless it is getting GOOD valid fixes...  Makes
testing a big pain, especially in the winter.  FOr this reason alone, I
dont buy magellan anymore...  Maybe the XL fixed this...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

687. Re: [APRSSIG:7532] HF APRS Questions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 21 Dec 1996 11:30:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961221112424.21366C-100000@arctic>
Rendered body type: text/plain

```
On Fri, 20 Dec 1996, Richard Parry wrote:

>     I am trying to understand the benefits of having a personal HF APRS
> system.  For example, if I have a local GATE, why would I want to have a
> my own HF APRS system?... since I can see everything on HF on my VHF
> setup.>

APRSdos REPLY/COMMENT: Good question.  Here are some thoughts.

1) But you being on VHF and not able to see/hear/evaluate the HF
congestion on 10 MHz, you are strongly discouraged from sending any
routine packets back through the gate.  In otherwords, on VHF, you should
consider yourself an HF receiver only..

2) Yoou are only seeing packets sent via GATE,WIDE on HF.  Experienced HF
operators often leave off the added 14 characters for the GATE,WIDE
because they know that it drasticly shortens their packets and therefore
improves the probablilty of a good packet.  HF is most successful for
packets shorter than about 40 bytes.


Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

688. Re: [APRSSIG:7555] Re: Manual WX Entries

From: Paul Stump <n0lrf@amsat.org>
Date: Sat, 21 Dec 1996 10:59:05 -0800
To: aprssig@tapr.org
Message-ID: <32BC3379.2367@amsat.org>
Rendered body type: text/plain

```
Eric A. Cottrell wrote:

> If there is a timeout I would suggest slightly over a hour.  After all the
> surface observations
> done by the Pros are generally done once an hour and I do not hear many
> complaints about
> that.

Now you have, Eric. With all due respect, I prefer real-time updates.
However, 10 to 15 minute ones are a bit more reasonable...

Happy Holidays 2 all and thanks for the Xmas story, Keith Sproul!

--
73, Paul, n0lrf@amsat.org
```

689. Re: [APRSSIG:7536] Re: APRS on an 8088

From: Josh Housey <lhousey@excel.net>
Date: Sat, 21 Dec 1996 12:07:23 -0600
To: aprssig@tapr.org

Message-ID: <1.5.4.16.19961221120514.3af79aa4@excel.net>
Rendered body type: text/plain

```
At 06:52 PM 12/20/96 -0600, you wrote:
>There is a program called HGCIBM and it is installed 'hgcibm /e' where the
>/e is for 'emulate' I guess.  It allows the Herculese Graphics adapter to
>behave as if it were a CGA, Color Graphics Adapter.  It should work
>nicely with APRS.  73,
>
>
>John W. Wilson, KN4HX
>z004391b@bcfreenet.seflin.lib.fl.us
>
>
>
>
Hello John. Where on the internet can you find this??? Also, will it totally
work with APRS and the maps with it too???
Thanks for your response.
73
Josh, KG9BO
_________________________________________________
Josh, Lee, Linda, Steve, Travis, and Tim Housey
lhousey@excel.net
Sheboygan, Wisconsin
Amateur Radio: Josh, KG9BO es Lee, N9YLS
Packet: KG9BO@N9GHE.#MTW.WI.USA.NA
Packet: N9YLS@N9GHE.#MTW.WI.USA.NA
Lattitude: 43' 45" N
Longitude: 87' 43" W
________________________________________________
```

---

690. Re: [APRSSIG:7543] Re: Cold GPS45

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 21 Dec 1996 13:22:30 -0400
To: amirault@laraby.tiac.net
Cc: Aprssig@tapr.org
Message-ID: <851192550-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

There was a change in the firmware on the GPS45 that eliminated the
battery meter display when on External Power.

73 Eric eac@shore.net WB1HBU
```

---

691. Re: Funny Virus Warning

From: William Nolle <wa8inz@concentric.net>
Date: Sat, 21 Dec 1996 12:24:59 -0800
To: aprssig@tapr.org
Message-ID: <32BC479B.7976@concentric.net>
Rendered body type: text/plain

```
> Note: this warning has been created in response to the proliferation
> of warnings about the fictions Good times virus. Feel free to post.
>
> --------------------------------------
> Date: 12/19/96 2:28 PM
> From: Robert Crull
> Here's a really dangerous one!
>
> Beware!!!
>
> If you've ever received a note warning you of a GOOD TIMES computer
> virus, now you have a response--pretty funny one, too.
>
> READ THIS:
>
> Goodtimes will re-write your hard drive. Not only that, but it will
> scramble any disks that are even close to your computer. It will
> remove APRS from your system and at the same time turn all your ham
> radios into CB radios. It will also send a request to the FCC to
> cancel your ham license. If you own a digi it will go trough a meltdown
> process and come back up operating on Chan 9 CB band.

> It will recalibrate your refrigerator's coolness setting so all your
> ice cream goes melty. It will demagnetize the strips on all your credit
> cards, screw up the tracking on your television and use subspace
```

> field harmonics to scratch any CD's you try to play.
>
> It will give your ex-girlfriend your new phone number. It will mix
> Kool-aid into your fishtank. It will drink all your beer and leave
> its socks out on the coffee table when there's company coming over.
> It will put a dead kitten in the back pocket of your good suit pants
> and hide your car keys when you are late for work.
>
> Goodtimes will make you fall in love with a penguin. It will give you
> nightmares about circus midgets. It will pour sugar in your gas tank
> and shave off both your eyebrows while dating your girlfriend behind
> your back and billing the dinner and hotel room to your Discover
> card.
>
> It will seduce your grandmother. It does not matter if she is dead,
> such is the power of Goodtimes, it reaches out beyond the grave to
> sully those things we hold most dear.
>
> It moves your car randomly around parking lots so you can't find it.
> It will kick your dog. It will leave libidinous messages on your
> boss's voice mail in your voice! It is insidious and subtle. It is
> dangerous and terrifying to behold. It is also a rather interesting
> shade of mauve.
>
> Goodtimes will give you Dutch Elm disease. It will leave the toilet
> seat up. It will make a batch of methamphetamine in your bathtub and
> then leave bacon cooking on the stove while it goes out to chase
> grade schoolers with your new snowblower.
>
> It will corrupt your television set
> so that it only receives "Brady Bunch" and "Gilligan's
> Island" repeats. It causes enough neural damage to make
> you actually like Barry Manilow songs. It gives your phone number to
> telephone solicitors and encourages them to call you everyday at
> dinner
> time. It drinks milk straight from the carton. It laughs at jokes
> that aren't funny. It will play the stereo very loud, when you're
> trying to sleep. It will cause the collapse
> of civilization as we know it, if it isn't stopped.
>
> (add your own. IT'S A REAL GOOD TIME!)
>

Sorry for the bandwidth but i tought it was pretty funny, specially after
the ones that where posted here a while back.

```
--
      \////
      (0 0)
 *--oO-(_)-0o--*
 wa8inz@amsat.org
 wa8inz@cris.com
```

---

692. Re: [APRSSIG:7476] hf aprs

From: rhiii@mnsinc.com (Richard H.)
Date: Sat, 21 Dec 1996 18:27:00 GMT
To: aprssig@tapr.org
Message-ID: <32bc22e5.27031828@relay.mnsinc.com>
Rendered body type: text/plain

Oh boy !!!   Are you ever going to get tons of email explaining how
ssb works -- enjoy.

On Thu, 19 Dec 1996 11:43:31 -0600 (CST), you wrote:

>I have been running hf aprs off and on for 2 days now only
>monitoring and not broadcasting my position. I thought hf aprs was
>10149.50 khz lsb, but all the stations I hear are on 10151.46 khz
>lsb. Since this is outside of the 30 meter band I thought my icom 736
>was out of calibration, but I tuned my drake R 8 to receive the
>signals on the same frequency 10151.46 khz. Could someone explain to
>me what is happening. I can't imagine this many station being out of
>band so there must be a reason for this happening. 73
>Edward Lewis KQ6DX
>2959 Devon Way
>San Pablo, CA. 94806
>Packet KQ6DX@KJ6FY.#NOCA.CA.USA.NA
>Land Line 510-223-7156
>elewis@dsp.com

```
>
>
```

---

693. Re: Not buying Magellans

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sat, 21 Dec 1996 14:28:04 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961221142808.0907d4f8@mailhost.primenet.com>
Rendered body type: text/plain

```
At 10:23 AM 12/21/96 -0600, Bob Bruninga wrote:
>On Fri, 20 Dec 1996, Tommy Ellison wrote:
>
>> I cannot get any GPS data strings from the DFjr MPA. I am using the
>> Magellin Meridian/XL GPS set at the default 4800 baud....
>
>APRSdos REPLY/COMMENT:  I assume the GPS is getting a fix.  My meridian
>will output NOTHING unless it is getting GOOD valid fixes...  Makes
>testing a big pain, especially in the winter.  FOr this reason alone, I
>dont buy magellan anymore...  Maybe the XL fixed this...
>

The Magellan XL and Meridian XL both have a "simulator" mode that allows one
to test if your system is working properly.  So you can once again buy
Magellan products.

73,

Mark Fellhauer
KC7BXS
```

---

694. Re: [APRSSIG:7554] Mery Xmas from the Sproul Bros

From: "James R. Kauten, MD" <kauten@atl.mindspring.com>
Date: Sat, 21 Dec 1996 16:33:55 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961221213355.00c04418@pop.atl.mindspring.com>
Rendered body type: text/plain

```
Keith,

Excellent poem.  I have been referred to you by Mark regarding the changing
of my WinAPRS registration to my new call sign.

                Old Call sign:  KO4RQ
                New Call sign:  W4TE

Please let me know what I need to do to change the registration.

73,
Jim Kauten, MD, W4TE
=====================================================
James R. Kauten, M.D., W4TE ex KO4RQ (kauten@mindspring.com)
=====================================================
Phone:      (404) 355-9537 (Fax)            (404) 355-9515 (Daytime)
Address:  James R. Kauten, M.D.,  95 Collier Road,  Suite 2055
                                             Atlanta, GA,  30305-1955
=====================================================
```

---

695. The 12 Days....

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 22 Dec 1996 07:12:28 -0800
To: aprssig@tapr.org
Message-ID: <199612221512.HAA12137@m1.sprynet.com>
Rendered body type: text/plain

```
On the first day of Christmas my Elmer gave to me.....

A long wire in a tall tree...


Joyeux Noel!
KU0G

P.S.  More to come....
```

---

696. W3ADO QRP Heard

From: bbliss@juno.com (William B. Bliss)
Date: Sun, 22 Dec 1996 11:01:08 EST

To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <19961222.080027.2287.0.bbliss@juno.com>
Rendered body type: text/plain

Hi all SIGers,

This Sunday morning @ 221537GMT copied W3ADO
on the APRS BCN text line , out here in CA.
.
"BCN: W3ADO TESTING 4W MFJ QRP RIG"

Did not print his call/symbol on the map at his
location, but was heard and text line seen.

So qrp rigs work if conditions, propgation just
right. Maybee if he digie's thru couple stronger
station, like W7LUS, more could hear/copy him.
Also printed out on my beacon log page, but not on
the Position Log page..
Good work Bob !!! Break the rules and put couple
HF digi stations in your unproto path.. Hi..
Give us a complete run down on your QRP rig.

MERRY XMAS & HAPPY NEW YEAR . TO ALL

73'S & Enjoy, Bill/WB6LPG

NNNN
.

697. Re: 6.6 NO TRANSMIT?

From: pmann@juno.com (PETER J MANN)
Date: Sun, 22 Dec 1996 12:48:24 EST
To: aprssig@tapr.org
Message-ID: <19961222.023305.7327.1.PMANN@juno.com>
Rendered body type: text/plain

N5WRD, Jim has a problem...Loaded 6.6 APRS into 486 66 machine. Can hear
great but can NOT transmit! Same KAM TNC using SAME port with Pro-Comm
works packet on the SAME radio no problem! Any one else had this happen?

HAVE A GREAT DAY!
73
Pete

Best of the holiday greeting to all.

698. Re: [APRSSIG:7398] Re: Any NE New Jersey APRS on VHF?

From: u1003267@host
Date: Sun, 22 Dec 1996 14:15:44 +0000
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <9612221918.AA27163@host>
Rendered body type: text/plain

I'm new to APRS - still trying to figure out how to get the signals I
hear on my 2m rig and see on my PK232-MBX with the AEA software in
use to become icons on the WinAPRS map of NJ or for that matter any
map, but as soon as I do I plan on putting in 2 mobile (mine &
wife's) as well as two weather/fixed stations that can be used as
"digipeaters" if there is such a thing on APRS - I plan on putting
the fixed stations in Hewitt NJ (Near Waywayanda State Park/Greenwood
Lake) in Passaic County on the Warwick NY border and the other at the
Military Ocean Terminal in Bayonne NJ on one of my radio towers (In
shadows of NYC and Newark on NY Harbor).

Hopefully this will help the "network" in Northern NJ.

If ANYONE can help me getting these things setup - or just get me
started - I need and appreciate the help.

I can be reached at jpcirone@warwick.net or at
cironej@bayonne-emh3.army.mil

> Date: Tue, 17 Dec 1996 19:47:57 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: "Richard F. Garcia" <n2czf@magg.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7398] Re: Any NE New Jersey APRS on VHF?

>
> Another thing to consider is that I am speaking about APRS mobile, it is
> quite a different story from a home station. Take a drive APRS mobile
> anywhere other than in the shadow of NYC or SNJ region and you will find a
> lot of nothing on 145.79. WA4JNF-4 covers some parts of NNJ well but not
> that well. Unless N2MH-15 has changed in the past year he can be seen on
> occasions in some parts but had little to no coverage into Passaic County.
>
>
> SNIP----------
> > From: Boyd Prestwood <w2hob@mosquito.com>
> > Then someone ought to inform those multitudes just how to beacon. Down
> here
> > in SNJ, we only see WU2Z, KB2ICI, KB4CYC and not much else guys. I'm told
> > that there's an N2MH-15 as a WIDE digi on West Orange... never see him...
> >
> > Whatever happened to Mark Lehman, WO2J... never see him anymore... he had
> a
> > Wx Station, Gateway, and QTH all showing at one time... key station too
> into NY.
> >
> >
> > Have fun es 73 de Boyd
> > w2hob@mosquito.com
> >
>
>
>

---

699. Re: [APRSSIG:7565] The 12 Days....

From: jim.person@juno.com
Date: Sun, 22 Dec 1996 19:20:59 PST
To: aprssig@tapr.org
Message-ID: <19961222.192059.9150.0.jim.person@juno.com>
Rendered body type: text/plain

Is the following what the sig is for????????
73 de wd0gux - jim
On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@sprynet.com>
writes:
>On the first day of Christmas my Elmer gave to me.....
>
>A long wire in a tall tree...
>
>
>Joyeux Noel!
>KU0G
>
>P.S. More to come....
>
>

---

700. Re: [APRSSIG:7569] Re: The 12 Days....

From: rbost@itexas.net (Roy Bost)
Date: Sun, 22 Dec 1996 14:35:08 -0600
To: <aprssig@tapr.org>
Message-ID: <19961222203702919.AAA151@rbost.itexas.net>
Rendered body type: text/plain

Geez! Lighten up! What's wrong with a little Ham humor during the Holidays?
Are you working on being the next Scrooge? :-)
Happy Holidays!

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W

---

701. (no subject)

From: (unknown sender)
Date: (date unavailable)
Rendered body type: text/plain

Received: from carl (32.Pool1.Ascend03.MIA.Icanect.Net [206.142.161.224]) by foo.icanect.net
(8.8.4/8.7.5) with SMTP id PAA13230 for <aprssig@tapr.org>; Sun, 22 Dec 1996 15:48:03 -0500 (EST)
Message-Id: <199612222048.PAA13230@foo.icanect.net>

```
X-Sender: carlt@mail.icanect.net
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 22 Dec 1996 15:47:46 -0500
To: aprssig@tapr.org
From: Carl Taylor <carlt@icanect.net>
Subject: Re: [APRSSIG:7569] Re: The 12 Days....

Loosen up!!! Life has to offer than being narrow!!!

At 01:29 PM 12/22/96 -0600, you wrote:
>Is the following what the sig is for????????
>73 de wd0gux - jim
>On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@sprynet.com>
>writes:
>>On the first day of Christmas my Elmer gave to me.....
>>
>>A long wire in a tall tree...
>>
>>
>>Joyeux Noel!
>>KU0G
>>
>>P.S.  More to come....
>>
>>
>
>
>
--==Carl==--
```

---

702. Re: [APRSSIG:7569] Re: The 12 Days....

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 22 Dec 96 16:08:09 -0500
To: <aprssig@tapr.org>
Message-ID: <199612222108.QAA03805@newworld.bridge.net>
Rendered body type: text/plain

```
>>P.S.  More to come....

Please, if you are going to do it, not as 12 separate postings, OK?

Bah Humbug!

Steve K4HG
```

---

703. ALT-B

From: bbliss@juno.com (William B. Bliss)
Date: Sun, 22 Dec 1996 16:28:07 EST
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <19961222.132815.9015.0.bbliss@juno.com>
Rendered body type: text/plain

```
Attn: SIGers...

    APRSdos, Ver 77e, what happened to the ALT-B command
in HELP.TXT files ??????

    ALT-B no longer brings up "Enter new Beacon Text..."
and looking in HELP.TXT , ALTERNAT KEYS,  the
ALT B,  is no longer included.

    How does one change his Beacon text now ???
   Please advise ..   Thanks

                      Merry Xmas & Happy New Year............

   73's & Enjoy, Bill/WB6LPG

NNNN
```

---

704. Re: [APRSSIG:7569] Re: The 12 Days....

From: Paul Stump <n0lrf@amsat.org>
Date: Sun, 22 Dec 1996 15:27:49 -0800
To: aprssig@tapr.org
Message-ID: <32BDC3F5.72C2@amsat.org>

Rendered body type: text/plain

```
jim.person@juno.com wrote:
>
> Is the following what the sig is for????????

> >On the first day of Christmas my Elmer gave to me.....

I certainly HOPE SO! It didn't make me mad and I
found it refreshing...tis the season.

Happy Holidays, jim.person and Jim Duncan!

--
73, Paul, n0lrf@amsat.org
```

705. Re: [APRSSIG:7569] Re: The 12 Days....

From: k3ft@erols.com
Date: Sun, 22 Dec 1996 15:58:24 -0500
To: aprssig@tapr.org
Message-ID: <32BDA0F0.9B3@erols.com>
Rendered body type: text/plain

```
jim.person@juno.com wrote:
>
> Is the following what the sig is for????????
> 73 de wd0gux - jim

Let's lighten up and enjoy things! Sheesh! too much seriousness sucks all
the fun out of what we do as an avocation!

73

Chuck K3FT

> On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@sprynet.com>
> writes:
> >On the first day of Christmas my Elmer gave to me.....
> >
> >A long wire in a tall tree...
> >
> >
> >Joyeux Noel!
> >KU0G
> >
> >P.S.  More to come....
> >
> >
```

706. Re: [APRSSIG:7573] ALT-B

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sun, 22 Dec 1996 16:36:12 -0600
To: aprssig@tapr.org
Message-ID: <32BDB7DC.6FF1@digitalexp.com>
Rendered body type: text/plain

```
William B. Bliss wrote:
>     APRSdos, Ver 77e, what happened to the ALT-B command
> in HELP.TXT files ??????
>
>     ALT-B no longer brings up "Enter new Beacon Text..."
> and looking in HELP.TXT , ALTERNAT KEYS,  the
> ALT B,  is no longer included.

I think the new command structure is <alt>(S)etup, (S)tatus

regards,
Joe
```

707. Need Help FAST! with Error Code (PC)

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sun, 22 Dec 1996 17:43:35 -0500
To: <aprssig@tapr.org>
Cc: <mramos@magg.net>
Message-ID: <199612222250.RAA25772@grumpy.magg.net>
Rendered body type: text/plain

```
I know that this is way off topic but I need an answer FAST before I leave
for the holidays. I am building up a old 486 for my Dad and wanted to give
```

it to him as a gift before I leave tomorrow. I am getting 3 relatively long slow beeps equally spaced from each other as an error code when I boot up. I get no video at all to tell me what is wrong. I have removed every card one by one and still get the error code when I turn it on. Anyone have an idea as to what this code is ?

The reason I am rushing is that I was thinking to give him a taste of Internet for the holidays. I can set up the account right now with defaults and deal with the subscription issue over the phone once I leave. Not only that but he can be back on APRS while I am gone and possibly track me if I can find a GATE in range of NNJ.

Rich Garcia N2CZF
Jupiter Farms Florida
n2czf@magg.net
http://www.magg.net/~n2czf/aprs.html
http://www.magg.net/~n2czf/index.html

---

708. New Rule of SIG etiquette (was Re: The 12 Days....)

From: "Bruce W. Martin" <martinbw@telalink.net>
Date: Sun, 22 Dec 1996 17:02:34 -0600
To: aprssig@tapr.org
Message-ID: <9612221702.AA34778@oscar.telalink.net>
Rendered body type: text/plain

Gee, the original posting did not upset me at all. Even the thought of eleven more to follow didn't upset me. All the "RE:" are starting to get on my nerves but then I have seen it so often on this SIG that I guess it is ok to do it.

New Rule of SIG etiquette:

If a message is off topic then everybody in the world should reply to the off topic message on the SIG instead of by private e-mail. Lets be sure we maximize the e-mail everybody gets.

> jim.person@juno.com wrote:
> > Is the following what the sig is for???????? 73 de wd0gux - jim
>
> Let's lighten up and enjoy things! Sheesh! too much seriousness sucks
> all the fun out of what we do as an avocation!
>
> 73
>
> Chuck K3FT
>
> > On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@
> > sprynet.com> writes:
> > >On the first day of Christmas my Elmer gave to me.....
> > >
> > >A long wire in a tall tree...
> > >
> > >
> > >Joyeux Noel!
> > >KU0G
> > >
> > >P.S. More to come....
> > >
> > >
>
>
>

---

709. Re: [APRSSIG:7569] Re: The 12 Days....

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Sun, 22 Dec 1996 18:24:32 -0500
To: aprssig@tapr.org
Message-ID: <32BDC32F.14DB@co.pinellas.fl.us>
Rendered body type: text/plain

jim.person@juno.com wrote:
>
> Is the following what the sig is for????????
> 73 de wd0gux - jim
> On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@sprynet.com>
> writes:
> >On the first day of Christmas my Elmer gave to me.....
> >

```
> >A long wire in a tall tree...
> >
> >
> >Joyeux Noel!
> >KU0G
> >
> >P.S.  More to come....
> >
> >
Oh, go climb a tall tower MR SCROOGE
--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

---

710. Re: [APRSSIG:7577] Need Help FAST! with Error Code (PC)

From: Dayglo <dayglo@radix.net>
Date: Sun, 22 Dec 1996 18:13:42 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961222231342.007003f0@pop.radix.net>
Rendered body type: text/plain

The reason why I am posting an answer to this question on the group is to make a point that you should include as much information as possible so that we can help you with your problem. You did not specify what manufacturer of your BIOS is.

Three beeps signifies:

AMI BIOS: RAM failure particularly due to the high RAM area on pin 20 of the microprocessor

IBM BIOS: 3270 keyboard card error

Unfortunately I have no data for any other BIOS manufacturers.

I would try removing the RAM chips one by one to see if you still get the error. I would also re-seat the processor especially if you have one of those ZIF sockets.

>I know that this is way off topic but I need an answer FAST before I leave
>for the holidays. I am building up a old 486 for my Dad and wanted to give
>it to him as a gift before I leave tomorrow. I am getting 3 relatively long
>slow beeps equally spaced from each other as an error code when I boot up.
>I get no video at all to tell me what is wrong. I have removed every card
>one by one and still get the error code when I turn it on. Anyone have an
>idea as to what this code is ?

---

711. APRS Wattage

From: Dayglo <dayglo@radix.net>
Date: Sun, 22 Dec 1996 18:19:40 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961222231940.007160ec@pop.radix.net>
Rendered body type: text/plain

What would be an adequate amount of power to transmit APRS on 2M? I am currently building an APRS system with the HPVFC (as soon as I receive it) from Agrelo Engineering. It will put out 800 milliwatts which I am assuming is not enough. Does anyone have any recommendations on amplifiers for the HPVFC?

---

712. Re: [APRSSIG:7577] Need Help FAST! with Error Code (PC)

From: Paul Stump <n0lrf@amsat.org>
Date: Sun, 22 Dec 1996 17:29:38 -0800
To: aprssig@tapr.org
Message-ID: <32BDE082.51C1@amsat.org>
Rendered body type: text/plain

Richard F. Garcia wrote:

> I get no video at all to tell me what is wrong. I have removed every card
> one by one and still get the error code when I turn it on. Anyone have an
> idea as to what this code is ?

Try a <delete> during boot-up to see your CMOS settings?

Might see something screwey there?

Hope that's not a dumb suggestion, Richard, sorry if it is...
Happy Holidays &

73, Paul, n0lrf@amsat.org

713. APRS 40m HF discussion

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Dec 1996 18:45:15 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961222183115.7849B-100000@arctic>
Rendered body type: text/plain

We need to launch a serious 40 meter crusade for an APRS frequency. I believe this band is the best for local one-two day travel for reporting ones position back home during the day. 30 m I think is a little long and better for ofshore boaters and further distance travelers. ALthough there will be differences beyween N.S.E and W due to local QRM from Canada, Mexico, S.America, etc, we are still best off with one freq. ALthough in the lnog run there is certainly nothing wrong with multiple freqs..

Notice how we carved out our own on 10.151 by shrewd thinknig. Can everyone apply their gray cells and come up with some magic on 40m? I do NOT know the band. I am not an HF person... What freqs are currently in use? Does anyone have a scanning rig and want to write a specturm analyuzer program to scan the band for a few nomths and build up some statistics? I will make a stab at this, but it will take me a while...

Since it will take years to get any satellite APRS channel, we may as well caarve out a solid position on HF for all our traveling needs.
And besides its lonely to travel where there aint no digis...

By the way, soneone did hear my QRP signal. See below:

On 21 Dec 1996 JOHN.LANGTRY@resonet.com wrote:

```
>
> Hi Bob !
>
> To confirm (okay, QSL) that I really did see you up here in Toronto,
> I offer the following from my backup file :
>
> l,W3ADO     211304 @162322zTesting 4 w MFJ QRP rig
>
> and
>
> h,W3ADO     , 9  1  1 , 999
>
> which is rather impressive when you re-call how band the band is,
> around the lunch time !
>
> Please keep us posted via the SIG with your progress; I'm thinking
> along the same lines, for a perminate Toronto APRS GATE, and free up
> my IC-775DSP and see if we can get some of the Eurpoean stations off
> their butts and onto 20M APRS.
>
> Until next time, vy 73 de John VE3NEC (john.langtry@resonet.com)
>
```

APRSdos REPLY/COMMENT:

```
Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

714. Re: [APRSSIG:7577] Need Help FAST! with Error Code (PC

From: Roger Sellers <rsellers@rockford.com>
Date: Sun, 22 Dec 1996 17:47:26 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961222174724.006bd764@rockford.com>
Rendered body type: text/plain

At 05:11 PM 12/22/96 -0500, you wrote:

```
>
> I am getting 3 relatively long
>slow beeps equally spaced from each other as an error code when I boot up.
>I get no video at all to tell me what is wrong. I have removed every card
```

```
>one by one and still get the error code when I turn it on. Anyone have an
>idea as to what this code is ?
>
  That sounds like  a video card or memory problem. Check to see all cards
are seated correctly. Same for memory SIMM. If it's memory, you may have a
bad SIMM or be mixing parity and NON-Parity memory.

  That's a quick down and dirty analysis. I hope I'm right.

73,


Roger Sellers   KB9LBU
email: Home rsellers@rockford.com
            KB9LBU@juno.com
       Work rsellers@snds.com
```

---

715. Re: [APRSSIG:7569] Re: The 12 Days....

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 22 Dec 1996 15:53:20 -0800
To: aprssig@tapr.org
Message-ID: <199612222353.PAA11911@m1.sprynet.com>
Rendered body type: text/plain

```
At 13:28 12/22/96 -0600, you wrote:
>Is the following what the sig is for????????
>73 de wd0gux - jim
>On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@sprynet.com>
>writes:
>>On the first day of Christmas my Elmer gave to me.....
>>
>>A long wire in a tall tree...
>>
>>
>>Joyeux Noel!
>>KU0G
>>
>>P.S.  More to come....
>>
>>

Oh SHUT UP!  It's Christmas time, for Heaven's Sake....Lighten up and take
your "Bah Humbug" somewhere else!

I wave my mistletoe in your general direction...

May a rabid reindeer prance merrily around your lawn marking his territory...

May a Scotch Pine drop all its needles in the shag carpet in your living room...

Your mother wears jingle-socks and your father smells of eggnog!

Now go away or I will taunt you a second time ya ol' Scrooge, you!

Felix Navidad!
Jim, KU0G
```

---

716. Verse two....

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 22 Dec 1996 15:55:16 -0800
To: aprssig@tapr.org
Message-ID: <199612222355.PAA12239@m1.sprynet.com>
Rendered body type: text/plain

```
On the second day of Christmas my Elmer gave to me...

Two SIG'ers whining (we'll be exchanging this gift on Boxing Day!)

and a long wire in a tall tree!

Festive Yule!
Jim, KU0G
```

---

717. Re: W3ADO QRP Heard

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Dec 1996 19:11:19 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961222190930.7849H-100000@arctic>

Rendered body type: text/plain

```
On Sun, 22 Dec 1996, William B. Bliss wrote:

>      This Sunday morning @ 221537GMT copied W3ADO
> on the APRS BCN text line , out here in CA.
> .
>   "BCN: W3ADO TESTING 4W MFJ QRP RIG"

APRSdos REPLY/COMMENT:  OOPS!  As I left work Friday, and since Jan is not
going to deliver my QRP XTAL till sometime in JAN even after payuing the 3
day premium, I restored the 100 WATT rig and forgot to change the
BEACON...   OOPS>....

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

718. Re: [APRSSIG:7567] Re: 6.6 NO TRANSMIT?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Dec 1996 19:12:59 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961222191208.7849I-100000@arctic>
Rendered body type: text/plain

```
INITTAPR.TNC with those old versions set PAR 0 and aI believe that KAM
needs PAR NONE.   Edit the change.  The file is in the APRS\SYSTEM
directory...
 On Sun, 22 Dec 1996, PETER J MANN wrote:

> N5WRD, Jim has a problem...Loaded 6.6 APRS into 486 66 machine.  Can hear
> great but can NOT transmit!  Same  KAM TNC using SAME port with Pro-Comm
> works packet on the SAME radio no problem!  Any one else had this happen?
>
> HAVE A GREAT DAY!
> 73
> Pete
>
> Best of the holiday greeting to all.
>
>

APRSdos REPLY/COMMENT:

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

719. Re: The 12 Days....

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sun, 22 Dec 1996 17:17:12 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961222171715.09076e92@mailhost.primenet.com>
Rendered body type: text/plain

```
At 01:28 PM 12/22/96 -0600, jim.person@juno.com wrote:

>Is the following what the sig is for????????
>73 de wd0gux - jim
>On Sun, 22 Dec 1996 09:16:52 -0600 (CST) Jim Duncan <ku0g@sprynet.com>
>writes:
>>On the first day of Christmas my Elmer gave to me.....
>>
>>A long wire in a tall tree...


Yes it is.  So stop being a grinch and let people enjoy the holidays.

Mark KC7BXS
```

---

720. Re: [APRSSIG:7577] Need Help FAST! with Error Code (PC)

From: Les Blalock <lcb911@apex2000.net>
Date: Sun, 22 Dec 1996 18:31:41 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961222182938.1c2f1ce4@apex2000.net>
Rendered body type: text/plain

```
The old original IBM audio code of 3 long beeps was a keyboard error.
```

Good luck

Les/N5KOA

At 04:54 PM 12/22/96 -0600, you wrote:
SNIP...
>I am getting 3 relatively long
>slow beeps equally spaced from each other as an error code when I boot up.
>Rich Garcia N2CZF

---

721. Re: [APRSSIG:7578] New Rule of SIG etiquette (was Re: The 12 Days....)

From: Bob Lorenzini <hwm@netcom.com>
Date: Sun, 22 Dec 1996 16:32:29 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.95.961222163042.103A-100000@mm.wd6dod.ampr.org>
Rendered body type: text/plain

And lets be sure to quote the offending message in its entirity.

---

722. Re: [APRSSIG:7577] Need Help FAST! with Error Code (PC)

From: wb7vdn@ro.com (R. Lamb)
Date: Sun, 22 Dec 1996 18:52:31 -0600
To: aprssig@tapr.org
Message-ID: <199612230052.SAA21528@sh1.ro.com>
Rendered body type: text/plain

>I know that this is way off topic but I need an answer FAST before I leave
>for the holidays. I am building up a old 486 for my Dad and wanted to give
>it to him as a gift before I leave tomorrow. I am getting 3 relatively long
>slow beeps equally spaced from each other as an error code when I boot up.
>I get no video at all to tell me what is wrong. I have removed every card
>one by one and still get the error code when I turn it on. Anyone have an
>idea as to what this code is ?
>
>The reason I am rushing is that I was thinking to give him a taste of
>Internet for the holidays. I can set up the account right now with defaults
>and deal with the subscription issue over the phone once I leave. Not only
>that but he can be back on APRS while I am gone and possibly track me if I
>can find a GATE in range of NNJ.
>
>Rich Garcia N2CZF
>Jupiter Farms Florida
>n2czf@magg.net
>http://www.magg.net/~n2czf/aprs.html
>http://www.magg.net/~n2czf/index.html
>
>
As far as I can tell... it means that the first 64K of memory is bad.
Try re-seating the Simms and rebooting it.

```
Ron Lamb           |    Timothy Twerp was most astounded.
WB7VDN             |    When what he thought was, wasn't grounded.
wb7vdn@ro.com      |    In fact, one could say he was most transfixed.
Huntsville, AL.    |    With his thumb on pin 3 of a live 6L6!
```

---

723. on the steep learning curve...

From: cunninghamt@ccgate.genrad.com
Date: Sun, 22 Dec 96 01:27:35 EST
To: aprssig@tapr.org
Message-ID: <9611228513.AA851317149@ccgate.genrad.com>
Rendered body type: text/plain

Greetings,

I am on the very steep side of the learning curve with APRS. Since I just acquired a Pico-Packet and a Garmin GPS 45XL, I thought I would put them to some other useful functions when I am traveling on the road, which is a frequent event.

I just got all this stuff working together... GPS interfaced to the Pico-packet and the Pico-Packet to the radio. It appears to be working OK. Since I will be on the road in the next days, weeks, months, etc., I need some advice on how to set the TNC parameters.

So far, I set the GPS to the RTCM/NMEA (NMEA 0183 1.5) 4800 baud
setting. This seems to fill the LTEXT and L1TEXT fields on the
Pico-Packet. The NMEA 0183 2.0 did not seem to work so I changed it
to the 1.5.   I noticed that when I had it set to the NMEA/NMEA
setting, the L1TEXT fields were not being updated until I changed the
GPS receiver to RTCM/NMEA to get the DGPS information.

My TNC settings are MYCALL=N8DEU, MYALIAS=RELAY, UNPROTO=APRS VIA
WIDE, and LOCATION E 6. Where do I put a field for information if
I want to identify as a mobile or perhaps, what frequency I am
monitoring

Since I will be operating on VHF, my question is how should the TNC
settings be adjusted to avoid any nasty side effects if I have not
caused any yet. The hardware plugged and played the first time (no
plug and pray here), so it is a matter of getting the TNC parameters
set correctly. Also, if I have an HF rig available on occasion, what
settings would I use on the TNC. Would they be different than VHF ?

Any help is appreciated since I am starting with my feet on the
ground running.... Next step is getting the APRS software and
tinkering on that end...

Thanks,

Tim - N8DEU (n8deu@amsat.org)

724. Re: [APRSSIG:7583] APRS 40m HF discussion

From: Paul Stump <n0lrf@amsat.org>
Date: Sun, 22 Dec 1996 20:29:50 -0800
To: aprssig@tapr.org
Message-ID: <32BE0ABE.1B21@amsat.org>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> We need to launch a serious 40 meter crusade for an APRS frequency.

Count me in. Will attempt to monitor 40m activity here near K.C...
Think I'll start with 7.085, LSB, to start...
Anyone else?

Happy Christmas &

--
73, Paul, n0lrf@amsat.org

725. Re: [APRSSIG:7439] APSR SIX METER LINK

From: n0ykx@juno.com (Bob Powers)
Date: Sun, 22 Dec 1996 21:50:31 EST
To: aprssig@tapr.org
Message-ID: <19961222.204652.18726.6.n0ykx@juno.com>
Rendered body type: text/plain

On Wed, 18 Dec 1996 18:14:07 -0600 (CST) Kenneth I Mathews
<wd4cqe@juno.com> writes:
>Start looking for APRS six meter link linked via WA4GKM-5 by the
>Weekend.

I'm curious as to what freq you are using and where you are located? I
am in central Iowa and might try and listen for APRS traffic from here.

Bob Powers
N0YKX
n0ykx@juno.com or
bob@ia-ngnet.army.mil

726. Re: [APRSSIG:7593] on the steep learning curve...

From: "Jimmy Burkhalter" <kb5wio@fia.net>
Date: Sun, 22 Dec 1996 21:44:32 -0600
To: <aprssig@tapr.org>
Message-ID: <199612230344.TAA24290@kinsey.fia.net>
Rendered body type: text/plain

> From: cunninghamt@ccgate.genrad.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:7593] on the steep learning curve...
> Date: Sunday, December 22, 1996 8:05 PM
>
>   Greetings,
>
>   I am on the very steep side of the learning curve with APRS. Since
I
>   just acquired a Pico-Packet and a Garmin GPS 45XL, I thought I would

>   put them to some other useful functions when I am traveling on the
>   road, which is a frequent event.
>
>   I just got all this stuff working together... GPS interfaced to the

>   Pico-packet and the Pico-Packet to the radio. It appears to be
>   working OK. Since I will be on the road in the next days, weeks,
>   months, etc., I need some advice on how to set the TNC parameters.
>
>   So far, I set the GPS to the RTCM/NMEA (NMEA 0183 1.5) 4800 baud
>   setting. This seems to fill the LTEXT and L1TEXT fields on the
>   Pico-Packet. The NMEA 0183 2.0 did not seem to work so I changed it

>   to the 1.5.   I noticed that when I had it set to the NMEA/NMEA
>   setting, the L1TEXT fields were not being updated until I changed
the
>   GPS receiver to RTCM/NMEA to get the DGPS information.
>
>   My TNC settings are MYCALL=N8DEU, MYALIAS=RELAY, UNPROTO=APRS VIA
>   WIDE, and LOCATION E 6. Where do I put a field for information if
>   I want to identify as a mobile or perhaps, what frequency I am
>   monitoring
>
>   Since I will be operating on VHF, my question is how should the TNC
>   settings be adjusted to avoid any nasty side effects if I have not
>   caused any yet. The hardware plugged and played the first time (no
>   plug and pray here), so it is a matter of getting the TNC parameters

>   set correctly. Also, if I have an HF rig available on occasion,
what
>   settings would I use on the TNC. Would they be different than VHF ?
>
>   Any help is appreciated since I am starting with my feet on the
>   ground running.... Next step is getting the APRS software and
>   tinkering on that end...
>
>
>
>   Thanks,
>
>   Tim - N8DEU (n8deu@amsat.org)
>
>

The mobile id is determed by the sid number like N8DEU-9 for a car symble
or -12 for a jeep. Read your APRS mobile text for the rest of the sid
settings.

Jimmy Burkhalter KB5WIO Amarillo, Texas

727. Re: [APRSSIG:7587] Re: W3ADO QRP Heard

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sun, 22 Dec 1996 23:17:57 -0500
To: <aprssig@tapr.org>
Message-ID: <199612230424.XAA14961@grumpy.magg.net>
Rendered body type: text/plain

Oh NO! Not JAN!! You think your MFJ QRP had problems before just wait!

> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7587] Re: W3ADO QRP Heard
> Date: Sunday, December 22, 1996 7:11 PM
> APRSdos REPLY/COMMENT: OOPS! As I left work Friday, and since Jan is
not

> going to deliver my QRP XTAL till sometime in JAN even after payuing the
3
> day premium, I restored the 100 WATT rig and forgot to change the
> BEACON...   OOPS>....
>
> Reply mail addr: wb4apr@amsat.org
> See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

728. Thanks to all RE: beep Codes

From: "Richard F. Garcia" <n2czf@magg.net>
Date: Sun, 22 Dec 1996 23:41:41 -0500
To: <aprssig@tapr.org>
Message-ID: <199612230448.XAA16416@grumpy.magg.net>
Rendered body type: text/plain

Thanks to all for replying so quickly to the beep codes. Yes it is a AMI
BIOS and yes it probably is the memory, I had bought some new stuff (but
saw it get checked out!) when I did the upgrade. I do not even remember if
it was parity or non parity but I will track down the seller once I get
back and wring him out. It is probably that he gave me the incorrect
parity.

I got a ton of replies so it just proves that everyone on the sig is not
all that bad! Not even one flame! that surprised me. Thanks again for the
replies at least it kept me from spinning my wheels in vein at this late
hour.

Happy Holidays to all!
Rich Garcia N2CZF
Jupiter Farms Florida
n2czf@magg.net
http://www.magg.net/~n2czf/aprs.html
http://www.magg.net/~n2czf/index.html

---

729. Re: APRS 40m HF discussion

From: pmann@juno.com (PETER J MANN)
Date: Mon, 23 Dec 1996 02:26:48 EST
To: aprssig@tapr.org
Message-ID: <19961223.012507.4983.0.PMANN@juno.com>
Rendered body type: text/plain

7.085 LSB I'll set the radio tonight.

HAVE A GREAT DAY!
Pete
KF5RD

---

730. Re: APRS 40m HF discussion

From: Anthony Hickey <fhickey@neosoft.com>
Date: Mon, 23 Dec 1996 02:09:01 -0600
To: aprssig@tapr.org
Message-ID: <32BE3E1D.6CDE@neosoft.com>
Rendered body type: text/plain

Bob Bruninga wrote:
> > We need to launch a serious 40 meter crusade for an APRS frequency. I
> believe this band is the best for local one-two day travel for reporting
> ones position back home during the day. 30 m I think is a little long and
> better for ofshore boaters and further distance travelers. ALthough there
> will be differences beyween N.S.E and W due to local QRM from Canada,
> Mexico, S.America, etc, we are still best off with one freq.

Please keep in mind foreign broadcast stations. They can be rather
strong (500 kw) and annoying especially since they broadcast a carrier
which will confuse TNCs without DSP (and probably some with DSP) or an
automatic notch. Their actual modulation is rather broad-banded and
will cause problems, but a tight (500 Hz.) IF filter can make them
almost transparent. Most of the broadcast in the 40m band is above
7.100 MHz, but peering into my 1992 reference I see stations on
7.095,7.080,7075. These stations are rather weak compared to most and
transmit intermittently (sorry I can't spell), but with close to 10 Khz
bandwith this can cause some problems. Not everyone can afford to get a
500Hz IF filter and DSP. We may just have to live with it and put up
with interference, besides I have no idea what other Ham operations
might be out there..
        Considering the added atmospheric noise and interference has anyone
considered using pactor? I know not everyone has this either, but it

```
would be quite an advantage except for the slower baud rate which can
also be an advantage at times...
```

---

731. Re: [APRSSIG:7583] APRS 40m HF discussion

From: rhiii@mnsinc.com (Richard H.)
Date: Mon, 23 Dec 1996 11:15:04 GMT
To: aprssig@tapr.org
Message-ID: <32be669f.45640770@relay.mnsinc.com>
Rendered body type: text/plain

```
On Sun, 22 Dec 1996 17:49:18 -0600 (CST), you wrote:

>We need to launch a serious 40 meter crusade for an APRS frequency.  I
>believe this band is the best for local one-two day travel for reporting
>ones position back home during the day.  30 m I think is a little long and
>better for ofshore boaters and further distance travelers.

Yes !  A move to establish a 40m freq is well overdue.  I work a fair
amount of packet on 40m and think that 7089 is about as good as it
going to get there.

-- Richard/N2JR
```

---

732. Registration

From: don c miller <w9ntpdon@ind.tds.net>
Date: Mon, 23 Dec 96 07:58:31 EST
To: aprssig@tapr.org
Message-ID: <MAPI.Id.0016.00396e7470646f6e3831374230303035@MAPI.to.RFC822>
Rendered body type: text/plain

```
Please subscribe me.    Don C. Miller, W9NTP  Email address
is: w9ntpdon@.tds.net
```

---

733. Day Three...

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 23 Dec 1996 05:35:43 -0800
To: aprssig@tapr.org
Message-ID: <199612231335.FAA16706@m1.sprynet.com>
Rendered body type: text/plain

```
On the third day of Christmas my Elmer gave to me....

THREE GPS'es (thanks Garmin!)

Two Sig'ers whining
and a Long Wire in a Tall Tree...

(I wonder just what I can exchange those whining SIG'ers for, surely not
much trade-in value....Just my luck it's one of those "no returns/no
exchanges" items, too!)

May a half-crazed snow-person (not political correctness!) park themself on
your front steps to ward off the Grinch!

Jim, KU0G
```

---

734. Re: [APRSSIG:7599] Re: APRS 40m HF discussion

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 23 Dec 1996 07:43:49 -0800
To: aprssig@tapr.org
Message-ID: <32BEA8B5.1885@amsat.org>
Rendered body type: text/plain

```
PETER J MANN wrote:
>
> 7.085 LSB  I'll set the radio tonight.

I'm home today and will be monitoring as
soon as I can figure out & fix an audio
problem in my HF/KAM cable...

Will also check out 7.089.00 LSB, too.

--
73, Paul, n0lrf@amsat.org
```

---

735. Re: [APRSSIG:7602] Registration

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 23 Dec 1996 05:54:16 -0800
To: aprssig@tapr.org
Message-ID: <199612231354.FAA19481@m1.sprynet.com>
Rendered body type: text/plain

```
At 07:06 12/23/96 -0600, you wrote:
>Please subscribe me.    Don C. Miller, W9NTP  Email address
>is: w9ntpdon@.tds.net
>
We can't do that. You have to do it yourself.  Send EMail to

listserv@tapr.org

No Subject...

In body of message type

subscribe aprssig


Nothing else in body, send it and you too will be inundated by the
voluminous and sometimes useful information that flows from the fountain
source of all APRS knowledge!  Enjoy!!!
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

736. GPS difference

From: James Kerns <jkerns@usit.net>
Date: Mon, 23 Dec 1996 09:15:24 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612231415.JAA04597@smtest.usit.net>
Rendered body type: text/plain

```
Happy Holidays to all.

I have a Garman 50 which I've used a couple times from Tn. to West Coast.
Is their a good reason to change to another GPS unit that is better and
won't have to change wiring? I notice some of the Ads have some sort of map
on the readout page.  I have never used mine for anything but APRS.  Someone
advise, please.
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)
```

---

737. Re: [APRSSIG:7583] APRS 40m HF discussion

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Dec 1996 10:00:14 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961223095236.28906B-100000@arctic>
Rendered body type: text/plain

```
On Mon, 23 Dec 1996 gphowell@mindspring.com wrote:

> forget 40.  with all the HF BBS stations in place, "carving out" a spot
> would be just that --  stepping on someone's toes in a big time fashion.

APRSdos REPLY/COMMENT: I expect the shortwave QRM in the evenings, but the
intent is a daytime near-vertical-incidence HF reporting freqeuency for
mobiles out a few hundred miles...  WIth thees criteria, can we find a
freq that may be totally useless at night, but which is usable during the
day?  Don't think DX frequency or DX antennas.  What you want is near
vertical incidence.   Hummh,  or is N-V-I even better on 80m?  We know
that 80m multipath in the evenings makes 300 baud packet useless...  But
during the day, there should be no multipath... just very weak sigs..

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

738. Re: [APRSSIG:7600] Re: APRS 40m HF discussion

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Dec 1996 10:11:06 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.GSO.3.95.961223100526.28906C-100000@arctic>
Rendered body type: text/plain

```
On Mon, 23 Dec 1996, Anthony Hickey wrote:

> Please keep in mind foreign broadcast stations, [whos carrier ...]
> will confuse TNCs without DSP (and probably some with DSP) or an
> automatic notch....  but a tight (500 Hz.) IF filter can make them
> almost transparent.  Most of the broadcast in the 40m band is above
> 7.100 MHz, but peering into my 1992 reference I see stations on
> 7.095,7.080,7075.  These stations are rather weak compared to most and

APRSdos REPLY/COMMENT:  I agree, in fact, I think that is where we can
search, a freq that has a broadcaster in the normal 2.7 KHz passband of
an SSB rig to drive everyohne else away, and then we operate with 500 Hz
filters and get through easily.  I dont have a 500 Hz IF rig yet (that can
both XMT and receive through the same XTAL, BUT that is my current
mission, to design and build a single freq XTAL controlled HF data radio
with 500 HZ bandwidth for dedicated APRS use for under $199...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

739. Re: [APRSSIG:7607] Re: APRS 40m HF discussion

From: schiers@ames.net
Date: Mon, 23 Dec 96 09:07:14 -0600
To: aprssig@tapr.org
Message-ID: <199612231509.JAA01861@brain.ames.net>
Rendered body type: text/plain

```
In <Pine.GSO.3.95.961223095236.28906B-100000@arctic>, on 12/23/96 at 08:57
AM,
   Bob Bruninga <bruninga@nadn.navy.mil> said:

>WIth thees criteria, can we find a
>freq that may be totally useless at night, but which is usable during the
>day?

In the winter, especially mid-winter, there is still going to be severe
qrm from DX broadcast. It lasts until after 10:00 a.m. local in the
midwest and starts up again around 2:00 p.m. NVI antennas will help, but
when the  stations are 20 to 30 dB over S-9, you still hear them big time.


I'm not trying to discourage anyone, just commenting on my experience with
40m mid-winter conditions. I still think 40m would be better than 80m,
where the range will be under 150 miles, during the day and signals fairly
weak, not to mention the contribution of less than 6% efficiency of mobile
antennas on that band. 73,

hasan schiers, N0AN--
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

740. Re: Cant see ICONs

From: Mark Sproul <sproul@ap.org>
Date: Mon, 23 Dec 1996 10:15:11 -0500
To: aprssig@tapr.org
Cc: jpcirone@warwick.net
Message-ID: <v03007806aee451b869f9@[165.1.27.20]>
Rendered body type: text/plain

```
>I'm new to APRS - still trying to figure out how to get the signals I
>hear on my 2m rig and see on my PK232-MBX with the AEA software in
>use to become icons on the WinAPRS map of NJ or for that matter any
>map, but as soon as I do I plan on putting in 2 mobile (mine &
>wife's) as well as two weather/fixed stations that can be used as
>"digipeaters" if there is such a thing on APRS - I plan on putting
>the fixed stations in Hewitt NJ (Near Waywayanda State Park/Greenwood
>Lake) in Passaic County on the Warwick NY border and the other at the
>Military Ocean Terminal in Bayonne NJ on one of my radio towers (In
>shadows of NYC and Newark on NY Harbor).
>

This is normally a TNC settings problem. Most likly you have HEADERLN ON,
it must be set to off.  If you still cant get it to work, go into a
TERMINAL program and save about 1/2 hour worth of data, then send it to me
```

and I will look at it and see what is going on.

This offer is to anyone who can see data coming into WinAPRS but does not see ANY stations on the screen. Of course I would prefer you read the docs first but I will help when ever I can.

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

741. HF tones.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Dec 1996 10:30:20 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961222203907.8940C-100000@arctic>
Rendered body type: text/plain

My OLD KAMs used 1600 and 1800 HZ tones for HF (center freq of 1700 hz). I believe some others use 2125 Hz, and others 2110? Since I am designing a XTAL controled HF DATA Xcvr for APRS, I need to be pretty sure of everyone's tones. Some MFRs still use only the original 170 HZ shift used for 60 WPM RTTY and never even changed for the 200 Hz shift for ASCII.. Lets fill in another table:

HF TNC	LOW	CENTER	HIGH	SHIFT	
BELL 202	2025	2125	2225	200	The original standard for 300 baud
KAM (old)	1600	1700	1800	200	
KAM Plus	?	?	?	?	
MFJ 1270/74B	?	1700	?	?	Only the 1700 is ref'ed in manual
MFJ 1270/74c	2125	2210	2295	170	(I think)
MFJ 1278	2125	2210	2295	170	
PK-232	?	?	?	?	
PK-2232	?	?	?	?	
PK-900	?	?	?	?	
DSP-12	2125	2225	2325	200	(Wierd!)

Don't worry, my design will accomodate all of the above, but I need a baseline for optimizing the design...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

742. Tripmate & KCP-3/HSP cable

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Mon, 23 Dec 1996 10:27:34 -0500
To: "Sig APRS" <aprssig@tapr.org>
Message-ID: <199612231529.KAA12148@erinet.com>
Rendered body type: text/plain

Think I got in over my head with my first venture with GPS here.

I have the KCP-3 & HSP Kantronics cable and need help with hooking the HSP 3 wires to a DB9 connector that will mate with the Tripmate DB9 connector. Wires in question from the HSP cable are ground, red & white.

Once these are correctly in place, can someone supply me with the necessary cmds that I need to set the unit into operation.

Thanks es Vry 73 de Tru K8JUG
truxenia@erinet.com

743. Re: [APRSSIG:7605] Re: Registration

From: Jack LeBreton <bm670@freenet.toronto.on.ca>
Date: Mon, 23 Dec 1996 10:51:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9612231037.A984-0100000@queen>
Rendered body type: text/plain

Merry Christmas, SIGgers,

What a delightful reply, in light of all the FLAMING
we've just seen!

Best of the Season,
de Jack VA3JAX

On Mon, 23 Dec 1996, Jim Duncan wrote:

> At 07:06 12/23/96 -0600, you wrote:
> >Please subscribe me.   Don C. Miller, W9NTP Email address
> >is: w9ntpdon@.tds.net
> >
> We can't do that. You have to do it yourself. Send EMail to
>
> listserv@tapr.org
>
> No Subject...
>
> In body of message type
>
> subscribe aprssig
>
>
> Nothing else in body, send it and you too will be inundated by the
> voluminous and sometimes useful information that flows from the fountain
> source of all APRS knowledge! Enjoy!!!
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@kcaprs.com
> EMail: ku0g@sprynet.com
>
>

---

744. RE: [APRSSIG:7600] Re: APRS 40m HF discussion

From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
Date: Mon, 23 Dec 1996 09:04:00 -0800 (PST)
To: aprssig <aprssig@tapr.org>
Message-ID: <32BEAAFD@gismtpgate.gi.com>
Rendered body type: text/plain

Does this message mean that you would propose a shift of all
HF APRS ops to Pactor? An interesting thought, but how much
better is broadcast (UI) Pactor?

In the presence of interference I would think that unconnected packet /
pactor copy would be strongly related to the (TNC/modem/controller)
used. As an example, my DSP-232 seems to get better copy on Packet
than broadcast Pactor, probably due to some characteristics of the DSP.
My KAM is the opposite (and of course has no DSP).

Dave Borcher K7NG
dborcher@nogmail.gi.com

From: aprssig
To: aprssig
Subject: [APRSSIG:7600] Re: APRS 40m HF discussion
Date: Monday, December 23, 1996 2:09AM

Bob Bruninga wrote:
> > We need to launch a serious 40 meter crusade for an APRS frequency. I
> believe this band is the best for local one-two day travel for reporting
> ones position back home during the day. 30 m I think is a little long and
> better for ofshore boaters and further distance travelers. ALthough there
> will be differences beyween N.S.E and W due to local QRM from Canada,
> Mexico, S.America, etc, we are still best off with one freq.

Please keep in mind foreign broadcast stations. They can be rather
strong (500 kw) and annoying especially since they broadcast a carrier
which will confuse TNCs without DSP (and probably some with DSP) or an
automatic notch. Their actual modulation is rather broad-banded and
will cause problems, but a tight (500 Hz.) IF filter can make them
almost transparent. Most of the broadcast in the 40m band is above
7.100 MHz, but peering into my 1992 reference I see stations on
7.095,7.080,7075. These stations are rather weak compared to most and
transmit intermittently (sorry I can't spell), but with close to 10 Khz
bandwith this can cause some problems. Not everyone can afford to get a

500Hz IF filter and DSP. We may just have to live with it and put up with interference, besides I have no idea what other Ham operations might be out there..

Considering the added atmospheric noise and interference has anyone considered using pactor? I know not everyone has this either, but it would be quite an advantage except for the slower baud rate which can also be an advantage at times...

---

745. Re: [APRSSIG:7611] HF tones.

From: "Lee Walden" <lwalden@ebmud.com>
Date: Mon, 23 Dec 1996 08:29:37 -0800
To: <aprssig@tapr.org>
Message-ID: <9612231625.AA14777@phantasm>
Rendered body type: text/plain

```
> Some MFRs still use only the original 170 HZ shift
> used for 60 WPM RTTY and never even changed for the 200 Hz shift for
> ASCII..  Lets fill in another table:
>
> HF TNC         LOW   CENTER HIGH SHIFT
> --------       ----  ------ ---- -----
> BELL 202       2025   2125  2225  200   The original standard for 300
baud
> KAM (old)      1600   1700  1800  200
> KAM Plus        ?      ?     ?     ?
> MFJ 1270/74B    ?     1700   ?     ?    Only the 1700 is ref'ed in manual
> MFJ 1270/74c   2125   2210  2295  170   (I think)
> MFJ 1278       2125   2210  2295  170

  PK-88          2025    ?    2225  200   PER MANUAL PAGE 4-20
> PK-232          ?      ?     ?     ?
> PK-2232         ?      ?     ?     ?
> PK-900          ?      ?     ?     ?
> DSP-12         2125   2225  2325  200   (Wierd!)
>
I imagine that the other AEA PK2XX use the same settings ass the PK-88.
```

---

746. Re: (former) ALT-B

From: N2ZRC@gnn.com (Arte Booten)
Date: Mon, 23 Dec 1996 12:09:31
To: aprssig@tapr.org
Message-ID: <199612231709.MAA25384@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

On Sun, 22 Dec 1996 Joe Foor responded to William B. Bliss, who wrote:

```
>>    APRSdos, Ver 77e, what happened to the ALT-B command in HELP.TXT files ??????
```

with:

```
>I think the new command structure is <alt>(S)etup, (S)tatus
```

Close, but no cigar. It's I(nput) M(y) S(tatus). To transmit it, press X(mit) S(tatus), which used to be X-B. Note also that the config file has been changed and, if you look in your root directory, you'll see a new CFIG77b.APR in addition to your old one. 73

Arte Booten N2ZRC@gnn.com

---

747. RE: [APRSSIG:7611] HF tones.

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 23 Dec 1996 12:15:41 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF0CB.050595A0@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Monday, December 23, 1996 4:34 AM, Bob Bruninga[SMTP:bruninga@nadn.navy.mil] wrote:
>My OLD KAMs used 1600 and 1800 HZ tones for HF (center freq of 1700 hz).
>I believe some others use 2125 Hz, and others 2110?  Since I am designing
>a XTAL controled HF DATA Xcvr for APRS, I need to be pretty sure of
>everyone's tones.  Some MFRs still use only the original 170 HZ shift
>used for 60 WPM RTTY and never even changed for the 200 Hz shift for
>ASCII..  Lets fill in another table:
>
>HF TNC         LOW   CENTER HIGH SHIFT
```

```
>--------       ----  ------ ---- -----
>BELL 202       2025   2125  2225  200   The original standard for 300 baud
>KAM (old)      1600   1700  1800  200
>KAM Plus         ?      ?     ?     ?
>MFJ 1270/74B     ?     1700   ?     ?    Only the 1700 is ref'ed in manual
>MFJ 1270/74c   2125   2210  2295  170   (I think)
>MFJ 1278       2125   2210  2295  170
>PK-232           ?      ?     ?     ?
>PK-2232          ?      ?     ?     ?
>PK-900           ?      ?     ?     ?
>DSP-12         2125   2225  2325  200   (Wierd!)
>
>Don't worry, my design will accomodate all of the above, but I need a
>baseline for optimizing the design...
>
>Reply mail addr:   wb4apr@amsat.org
```

Make that Bell 103, not 202. Bell 202 is the standard for VHF packet, 1200/2200 Hz.

The PacComm TNC-220 (out of production) used 2025/2195 Hz.
The TNC-320 and PC-320 use 1600 and 1800 Hz.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(BL1`0:0" `$````````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.```````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'``````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`'0```%)%.B!;05!24U-)1SHW-C$Q72!(1B!T;VYE<RX`
M\ <!!8 #``X```#,!PP`%P`,``\`*0`!`#L!`2" `P`.````S <,`!<`# `-
M`"0``0`T`0$)@ $`(0```$-",D$T0T,T-#$U0T0P,3$X,$0U,# T,# U,CE"
M0T0W``X'``0.0!@#X!@``% ````L`(P```````P`F```````+`"D```````,`
M+@```````P`V``````! `#D`X*E\[/3PNP$>`' ``0```!T```!213H@6T%0
M4E-324<Z-S8Q,5T@2$8@=&]N97,N``````(!<0`!````%@````&[\/3L<\1,
M*LQ<01'0@-4`0 4IO-<``!X`'@P!````!0```%--5% ``````'@`?# $````1
M````9W=Y;D!P86-C;VUM+F-O;0`````#``80$S9EK@,`!Q#S`P``'@`($ $`
M``!E````3TY-3TY$05DL1$5#14U"15(R,RPQ.3DV-#HS-$%-+$)/0D)254Y)
M3D=!4TU44#I"4E5.24Y'04!.041.3D%664U)3%=23U1%.DU93TQ$2T%-4U53
M140Q-C P04Y$,3@P,$A:5 ``````"`0D0`0```&4%``!A!0``9PP``$Q:1G7A
ME=X@_P`*`0\"%0*D`^0%ZP*#`% 3`U0"`&-H"L!S971N,@8`!L,"@S(#Q0(`
M<,QR<1(@#_]F,P1&$W/L,2 (50*#-!,,!Q,"@^XU$PH5X!/M?0J ",\)V2([
M&P\R-34<+V4Q/#(X`H *@0VQ"V!N9Q@Q,#,5``L#;&DS7C8-\ M5%L(,`6,`
M0" *3P.@30(@9&%Y+#0@1 6090;0!) @,@(S(C Q.3DV(#0H.C,T%Z!-(C!"
M;S)B(_!R=0,``'V!A6T!33510.F(D54 @;F%D;BXEL'9Y1"YM`Q!=('<#8'3T
M93H*A3X+1A+R(3,2\$L3D";!8P5 37DAD$Q81"!+(\ $('41\&2S(Q @4# @
M`' J(3@J8?!(6B!T`B 'D0(0!<#P2$8@*")P`C BL0-0H&5Q(&]F(Q W*F'P
M:'HI+@J'()\G?RB)#$D@(J @(&5V92#N<P-P,9 FP&@$D"G3(M#U'I U*Q!Z
M(C JDC(%,K!Y'X _( 8`"X B<#$!8>QM( VP`)!G)'(MOR[/`R_?*0%A(%A4
M04QN( 6@`C #8&PJ$2OQ1&9!.3 Y$&-V+($%L4'X4%)3(C Q$"MP*A$K4*TQ
M(2 3D!(`="E <PAP?3'A9C6O-K\WSRD!,7%RVGDK82<$("M3+C1!,<+(3492
M!"!S= ,0`R![,G("(&PI0#(1+. %$&=/"X '0"T2*Q)S: :0='\]/SY//U\I
M`2GS*[(@4""(5U!-!_!45%DJ@_\K<$"A0((#H!&Q'V!(94-2^P'0*P%Z1(0K
MHD3O1?]'#X$I`4%30TE)+D&1_DP2`"N10H(+@"J!,@,K0/\!H#G0)O9,_TX/
M*&M2+U,_QU1/*0$K\51.0S1 644(3$]764%#14Y4Q$52*Q!)1T@&`%J@O$94
M58]6GU>O*0$M7J7O645>Y%[%8!<M6T]<7UUO\2D!0D5,.5 !T!(@643_9+$R
MX&4Q,L(BT&8@9?(J87TT0%1#:D)@*I$+$2NC,^$J86)A=61A#V(?8R_/*0$I
MH2P0!O!D*5E$*D/_;3$M,BK$2W)I#VH?:R]L-?Y0"D $(%E%-#%RV'.%;K^G
M;\]PWRD"1DHC$#(M,/ O-S1"<MAMQ'-Z(:"70R4M(P0`(!L09B<J$?M1$0.!
M=0= =%]U;W9_=XS>8V679A$?@&8".66!1"*=-$ H,1 R$ N :RE\3_=]7WYO
M=X@X9.: KRT2@K_'@\^$WRD!4$LM(N!DUO]R[W/_B1^*+XL[B_J,SXW?]X[O
MC_^+9SEFDY'_DP^4'\.5+RAK1%-0+1Z064=/AP=EXXP`9E<H5PB19/XA@J^:
M3YM?54^@?Z&/G#9U`B G!4!W!;! P"(P;7\I0#44)I!"@@#0!: $86&_)M J
M@$*1+/%#4@&@;S& V2(P8G4P\CNC8:,/I!]_I2\I`6C $? @("MP*Z-O\P4P
M!W!I>B2!0T,U%% P?RVOJ[^LSZ+/L3^R3RC%4CYE"U I0 # `Q$EP&1R0CI9
M07=B-&$3D$#U-.!SJ) N!;"O<#1 "HO'("\A-0J%36%K,9 R$/^HD"/P,4!$
M`1^0(C!1462BOT&1O.-DLGL10U)GNU8K\;4*L&.\8'0C`4N!+V8@;TN3L%8*
MA6;B4 #0"%!M_S3P61&1@2IP;*"J`2SQ*+'T9'4I`&D"(&S@*?-E4O_ \",@
M,N*P5F;BPR*,`"IT_E#&U#)R*DW!;@J/"Y$84N$M("!'=WD#H+<@"8#Y(B%7
M,61ARA7"IL*AP&&_!_ EP,20$C%"8"* <\&,FF?+T4# ,:A!;2ZH007*%6@"
```

```
M0' Z+R]W5=' +M _(!HQ`--@`````P`0$ `````#`!$0`````$ `!S" HC.B
M]/"[`4 `"#" HC.B]/"[`1X`/0`!````!0```%)%.B ``````P`--/TW``!^
!,/"[
`
end
```

---

748. Re: [APRSSIG:7577] Need Help FAST! with Error Code (PC)

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Mon, 23 Dec 1996 11:46:03 -0800
To: aprssig@tapr.org
Message-ID: <32BEE17B.2FA5@cjnetworks.com>
Rendered body type: text/plain

Richard F. Garcia wrote:
>
> I know that this is way off topic but I need an answer FAST before I leave
> for the holidays. I am building up a old 486 for my Dad and wanted to give
> it to him as a gift before I leave tomorrow. I am getting 3 relatively long
> slow beeps equally spaced from each other as an error code when I boot up.
> I get no video at all to tell me what is wrong. I have removed every card
> one by one and still get the error code when I turn it on. Anyone have an
> idea as to what this code is ?
>
> The reason I am rushing is that I was thinking to give him a taste of
> Internet for the holidays. I can set up the account right now with defaults
> and deal with the subscription issue over the phone once I leave. Not only
> that but he can be back on APRS while I am gone and possibly track me if I
> can find a GATE in range of NNJ.
>
> Rich Garcia N2CZF
> Jupiter Farms Florida
> n2czf@magg.net
> http://www.magg.net/~n2czf/aprs.html
> http://www.magg.net/~n2czf/index.html

CHECK YOUR MEMORY CONFIGURATION!
I have seen this when the wrong bank is filled first, or the memory Simm
is incompatible to the board, or one of the simm strips is not
completely seated.
You will not get any video or anything, is the PC is not seeing the RAM
first..
Hope this helps!
De AA0MM Ross.

---

749. Delormes Tripmate GPS

From: "Jason Baack" <baack@maine.maine.edu>
Date: Mon, 23 Dec 1996 12:49:37 +0000
To: aprssig@tapr.org
Message-ID: <199612231849.NAA15073@monet.umecut.maine.edu>
Rendered body type: text/plain

Greetings all,
I am a newbie to the group and was wondering a basic question.

Can the GPS that is in Delorme's "Tripmate" package (map CD + GPS
receiver) be utlized to work with the APRS software for amateur use?

The cost is right ($150 ish..) I was wondering if it was possible.

Thanks for any help.

Jason N1RWY
Jason K. Baack
Cutler Health Center
Electronic Communications Coordinator
Voice: 207.581.4140
Fax: 207.581.3997
http://www.umecut.maine.edu
Email:baack@maine.edu

---

750. RE: [APRSSIG:7615] Re: HF tones.

From: "Borcher, David (NG-MS)" <DBORCHER@nogmail.gi.com>
Date: Mon, 23 Dec 1996 11:19:00 -0800 (PST)
To: aprssig <aprssig@tapr.org>
Message-ID: <32BECAAC@gismtpgate.gi.com>
Rendered body type: text/plain

The AEA DSP232 has two "modems" in DSP which will allow selection
of either 1600/1800 Hz or 2125/2325 Hz. I find the low tones work better

on both Tx and Rx thru my FT900.

K7NG

From: aprssig
To: aprssig
Subject: [APRSSIG:7615] Re: HF tones.
Date: Monday, December 23, 1996 10:33AM

```
> Some MFRs still use only the original 170 HZ shift
> used for 60 WPM RTTY and never even changed for the 200 Hz shift for
> ASCII..  Lets fill in another table:
>
> HF TNC         LOW   CENTER HIGH SHIFT
> --------       ----  ------ ---- -----
> BELL 202       2025   2125  2225  200   The original standard for 300
baud
> KAM (old)      1600   1700  1800  200
> KAM Plus        ?      ?     ?     ?
> MFJ 1270/74B    ?     1700   ?     ?    Only the 1700 is ref'ed in manual
> MFJ 1270/74c   2125   2210  2295  170   (I think)
> MFJ 1278       2125   2210  2295  170

  PK-88          2025    ?    2225  200   PER MANUAL PAGE 4-20
> PK-232          ?      ?     ?     ?
> PK-2232         ?      ?     ?     ?
> PK-900          ?      ?     ?     ?
> DSP-12         2125   2225  2325  200   (Wierd!)
>
```

I imagine that the other AEA PK2XX use the same settings ass the PK-88.

751. Indianapolis, Dayton area

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Mon, 23 Dec 1996 13:32:35 -0600
To: aprssig@tapr.org
Message-ID: <32BEDE53.7C23@cedar.net>
Rendered body type: text/plain

I'm new to APRS. :)

I've got it installed and on, and my TNC tuned to 145.790(S)

I haven't heard anyone in 24 hrs+

Am I on the wrong freq here, or am I in the middle of an "aprs wasteland"?

My QTH is in Muncie, around 40:14N, 85:22W.

I'm running 1W into a discone at 20'. This has done well locally on packet, and can be copied easily at 5 miles with an HT.

Thanks

752. Re: [APRSSIG:7619] Delormes Tripmate GPS

From: Mark Sproul <sproul@ap.org>
Date: Mon, 23 Dec 1996 13:28:32 -0500
To: aprssig@tapr.org
Message-ID: <v03007809aee47fa5341e@[165.1.27.20]>
Rendered body type: text/plain

```
>Greetings all,
>I am a newbie to the group and was wondering a basic question.
>
>Can the GPS that is in Delorme's "Tripmate"  package ( map CD + GPS
>receiver) be utlized to work with the APRS software for amateur use?
>
>The cost is right ( $150 ish..) I was wondering if it was possible.
>
>Thanks for any help.
>
```

The next release of WinAPRS and MacAPRS will support the tripmate, I hope to have this release out REAL soon. (by tommorrow I hope)

Mark

```
___________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

753. Re: [APRSSIG:7619] Delormes Tripmate GPS

From: Robert Winingham <kc5ejk@onramp.net>
Date: Mon, 23 Dec 1996 12:31:29 -0600
To: aprssig@tapr.org
Cc: baack@maine.maine.edu
Message-ID: <v03007800aee47c271d76@[199.1.11.114]>
Rendered body type: text/plain

>Can the GPS that is in Delorme's "Tripmate" package (map CD + GPS
>receiver) be utlized to work with the APRS software for amateur use?
>
>The cost is right ($150 ish..) I was wondering if it was possible.

Yes. Changes have been or are being made to all APRS version to support it.
(Per- Bob, Mark & Keith sig messages)

If you self-init the unit you can use it with current versions as it
will output almost standard NMEA data.

I paid $125 plus 5 postage.

You will need the $39 power adapter or make your own power supply,
as the basic unit is only battery powered.

It is a good deal if you need the SA4 software.
SA4 runs a bit slow on my Softwindows Mac.

ftp://sundae.triumf.ca/pub/peter/tripmate.faq

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

754. Fw: SA4 in Black and White

From: jkozak@erols.com (John W. Kozak)
Date: Mon, 23 Dec 1996 13:58:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612231858.NAA18807@smtp2.erols.com>
Rendered body type: text/plain

I haven't tried it yet but this message may help if you
are running a monochrome laptop....

JWK

>----------
>> From: Joe Krantz <joe.krantz@symbios.com>
>> Newsgroups: sci.geo.satellite-nav
>> Subject: SA4 in Black and White
>> Date: Monday, December 23, 1996 11:59 AM
>>
>> I copied SA4 to my old B&W laptop, and was unimpressed with the
>> shades of grey displayed for the various colors.
>>
>> I didn't find any help in the limited documentation,
>> so I went poking around and found the file COLOR.CLR
>> which defines the colors used for the map display.
>> There are other .CLR files, and I have no idea what
>> they are used for.
>>
>> I spent some time determining what each of the colors
>> as used for (and some of the colors defined in the
>> file do not appear to be used at all), and remapped
>> the appropriate colors to black or white. I used
>> a light grey for water and a dark grey for parks.
>>
>> Attached is my B&W color definitions. Note that the first
>> number is the color number, the second three numbers on
>> each line are the RGB (Red Green Blue) values that define the

```
>> color, everything else is a comment.  Lines with seven numbers are
>> the lines I have changed, the last three numbers are the original color
>> definition for reference.  I have added comments, generally after
>> the "***" which describe what I think the colors are used for.
>>
>>      Joe
>> ATLAS4\COLOR.CLR
>>
>--------------------------------------------------------------------------
>> ; Color.clr edited 3-4-96 by Jeff D.
>> ; B&W definitions by Joe.Krantz@Symbios.com
>>
>> 0    0   0   0 black *** labels, grids, symbol outlines, some symbols
>> 1  255 255 255 white *** center line of interstate and xxx, background on
>interstate labels and state
>> route labels
>> 2    0   0   0 255 255   0 yellow_70_ko   *** City, Exit, Point of
>Interest, State Boundry, National
>> Boundry
>> 3    0   0   0 255 128   0 orange  *** Locale & County Seat symbols
>> 4    0   0   0   0 255   0 green *** Park/Reservation(tree symbol),
>Zipcode Boundry, State Capital
>> (star)
>> 5    0   0   0 255   0   0 red *** interstate & Hospital SYMBOLs ***
>> 6    0   0   0   0 255 255 cyan *** Geographic Feature(inverted triangle)
>> 7    0   0   0   0   0 255 blue  *** interstate SYMBOL, water LABELs,
>Lake/Ocean1
>> 8    0   0   0 158 158 158 dk_gray   *** Utility/Pipe, Railroad
>> 9    0   0 128 dk_blue ??????
>> 10   0   0   0   0 128   0 dk_green   *** Small Town, *some* County
>Border center lines
>> 11   0   0   0 pale_cyan ??????
>> 12   0   0   0 177 126  20 dk red        ** Trail, Cemetery ***
>> 13   0   0   0 255   0 255 magenta   *** Summit(triangle), Mega
>City(diamond)
>> 14 255 255 255 255 255 209 land_tint_pale_yellow *** land ***
>> 15 192 192 192 lt_gray_10k_military_op ??????
>> 21 190 209 188 Military Reservations ??????
>> 22 221 192 166 Tribal lands ??????
>> 23 255 255 192 1000-3000.screen_3000-7000.print_20y ??????
>> 24 255 255 162 3000-7000.screen_7000-10000.print_40y ?????
>> 25 255 255 255 254 235 146 Urbans/Populated areas (jc) *** Population
>Center
>> 26 179 231 255 ??????
>> 27 255 255 255 210 174 2 mud_rock_sand_10m_40y_20k *** Sand/Rock(tint)
>> 33 252 241 228 oil/gas_fields ??????
>> 34 255 255 255  70 236 166 *** Inundated Area ***
>> 39 236 250 251 salt_pans ??????
>> 41 226 217 211 quarries ??????
>> 45 153 255 255 below_sea_level ??????
>> 48 130 245 135 state_forest/park_(experimental_color) (jc) ??????
>> 49 110 235 115  nat_forest/park (jc)
>> 50 255   0   0 96 192 96 green 2 (jc) *** Toll Highway, City Park ***
>> 51   0   0   0 255 128 128 red 3 (jc) ** local road (and local road
>outline at mag 15 & 16),
>> ;                                     stateroute, major connector *** not us highway
>> 52 255 127   0 160 160 255 cyan 2 (jc) *** river/canal, intermittent
>river
>> 53 96 96 255 blue 2 (jc) ?????
>> 54   0   0   0 123 123 255 dk blue 2 (jc)  *** interstate/limited access,
>Limited Access
>> 55 255 255   0 208 224 255 pale cyan 2 (jc) *** Lake, Water,
>Wetland*tint, Lake/Ocean2
>> 56   0   0   0 255 96 96  red 2 (jc) *** US Highway, Primary State Route,
>Major Hiway, Major Road ***
>> 57   0   0   0 210 212 214 mag 16 hwy  160 160 lt gray 2 (jc) County
>Boundry & County Boundry Highlight
>> 58 128 0 255  color for the preffered route ?????
>> 59 255 255 255 160 255 160 Woodlands *** Woodlands(tint)
>>
>>
>--------------------------------------------------------------------------
>>
>
>
```

755. (no subject)

From: "Jason Baack" <baack@maine.maine.edu>
Date: Mon, 23 Dec 1996 14:03:00 +0000
To: aprssig@tapr.org
Message-ID: <199612232002.PAA15215@monet.umecut.maine.edu>
Rendered body type: text/plain

```
Greetings all,
 I am a newbie to the group and was wondering a basic question.

 Can the GPS that is in Delorme's "Tripmate"  package ( map CD + GPS
 receiver) be utlized to work with the APRS software for amateur use?

 The cost is right ( $150 ish..) I was wondering if it was possible.

 Thanks for any help.

 Jason  N1RWY
 Jason K. Baack
 Cutler Health Center
 Electronic Communications Coordinator
 Voice: 207.581.4140
 Fax:   207.581.3997
 http://www.umecut.maine.edu
 Email:baack@maine.edu


Jason K. Baack
Cutler Health Center
Electronic Communications Coordinator
Voice: 207.581.4140
Fax:   207.581.3997
http://www.umecut.maine.edu
Email:baack@maine.edu
```

---

756. SA4 in Black and White

From: jkozak@erols.com (John W. Kozak)
Date: Mon, 23 Dec 1996 14:19:07 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612231919.OAA20957@smtp2.erols.com>
Rendered body type: text/plain

```
A follow-up to a message I just forwarded to the sig.
I was just about to edit the 'color.clr' file in SA4 for monochrome when I
noticed a file called 'bw.clr'. They already have the setup for monochrome
displays. No mention of the file in the Docs so I guess I'll just rename it
to 'color.clr' and see what happens!

John Kozak; N3AGG
jkozak@erols.com
```

---

757. Re: [APRSSIG:7621] Indianapolis, Dayton area

From: Roger Sellers <rsellers@rockford.com>
Date: Mon, 23 Dec 1996 13:34:50 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961223133448.006c36d0@rockford.com>
Rendered body type: text/plain

```
At 12:54 PM 12/23/96 -0500, you wrote:
>I'm new to APRS. :)
>I've got it installed and on, and my TNC tuned to 145.790(S)
>I haven't heard anyone in 24 hrs+
>Am I on the wrong freq here, or am I in the middle of an "aprs
>wasteland"?
>My QTH is in Muncie, around 40:14N, 85:22W.
>I'm running 1W into a discone at 20'. This has done well locally on
>packet, and can be copied easily at 5 miles with an HT.
>
>Thanks
>
>
 You might try a vericle or beam toward Indianapolis or Chicago. I suspect
if your using a radio shack type discone, that may the problem. I'm in
Rockford, and regulaly see some stations in NW Indiana. Try changing
antennas if you have  a different one. Also try to find out if there is
anyone else in the area running APRS. If they are on a tower, you may be
able to link thru it.

73,
Roger Sellers   KB9LBU
email: Home rsellers@rockford.com
            KB9LBU@juno.com
       Work rsellers@snds.com
```

758. Re: [APRSSIG:7621] Indianapolis, Dayton area

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Mon, 23 Dec 1996 14:37:52 -0500
To: <aprssig@tapr.org>
Message-ID: <199612231939.OAA23378@erinet.com>
Rendered body type: text/plain

```
Hi Dave,

     We have a number of APRS Stations in the Dayton area with the
closest to you being near
the Brookville area near I70 about 56 airline miles from you.

Vry 73 de Tru K8JUG
truxenia@erinet.com


----------
> From: Dave VanHorn <dvanhorn@cedar.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7621] Indianapolis, Dayton area
> Date: Monday, December 23, 1996 1:41 PM
>
> I'm new to APRS. :)
>
> I've got it installed and on, and my TNC tuned to 145.790(S)
>
> I haven't heard anyone in 24 hrs+
>
> Am I on the wrong freq here, or am I in the middle of an "aprs
> wasteland"?
>
> My QTH is in Muncie, around 40:14N, 85:22W.

>
> I'm running 1W into a discone at 20'. This has done well locally on
> packet, and can be copied easily at 5 miles with an HT.
>
> Thanks
>
```

759. TNC config for HF

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Mon, 23 Dec 1996 12:24:15 -0800
To: aprssig@tapr.org
Message-ID: <32BEEA6F.74B9@ix.netcom.com>
Rendered body type: text/plain

```
G'day SIG

In my experience on the HF digital modes (HF Packet, ASCII, AMTOR, RTTY,
PACTOR & G-TOR) I have found the following to be the Internationally
excepted standard.

MARK  2125
SPACE 2295
SHIFT 170

MOST TNC's worth their salt, are easily programed to the above config.

I find the 500Hz filter to be to wide at this noisy QTH. 270Hz is more
to my liking, BUT... a 270Hz (CW/Digital) filter (in most cases) will
either have to be installed in the rig's SSB socket, or the station will
have to run FSK, which in my opinion is the only way to go.

 Oh.., UI PACTOR is actually Forward Error Correcting (FEC).

Bill/LFM

APRS Gateway Stn. for the West Coast
```

760. Re: [APRSSIG:7606] GPS difference

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 23 Dec 1996 14:39:37 -0800
To: aprssig@tapr.org
Message-ID: <32BF0A28.76F@amsat.org>
Rendered body type: text/plain

James Kerns wrote:

> I have a Garman 50 which I've used a couple times from Tn. to West Coast.
> Is their a good reason to change to another GPS unit that is better and
> won't have to change wiring? I notice some of the Ads have some sort of map
> on the readout page. I have never used mine for anything but APRS. Someone
> advise, please.

Hi Jim, the GPS 50 is fine for APRS NMEA input. It's a generation old
and the newer units fix their postion a bit faster and have bells &
whistles (like real geographical maps). But of course, they cost more...

If you're doing APRS, the 50 is fine unit.

Happy Holiddays &

--
73, Paul, n0lrf@amsat.org

761. Re: [APRSSIG:7607] Re: APRS 40m HF discussion

From: Paul Stump <n0lrf@amsat.org>
Date: Mon, 23 Dec 1996 14:53:54 -0800
To: aprssig@tapr.org
Message-ID: <32BF0D82.7870@amsat.org>
Rendered body type: text/plain

Bob Bruninga wrote:

> APRSdos REPLY/COMMENT: I expect the shortwave QRM in the evenings, but the
> intent is a daytime near-vertical-incidence HF reporting freqeuency for
> mobiles out a few hundred miles... WIth thees criteria, can we find a
> freq that may be totally useless at night, but which is usable during the
> day? Don't think DX frequency or DX antennas. What you want is near
> vertical incidence.   Hummh, or is N-V-I even better on 80m? We know
> that 80m multipath in the evenings makes 300 baud packet useless... But
> during the day, there should be no multipath... just very weak sigs..

Been on 7.085.00 LSB most of the day...some QRM, but not too bad. Will
camp out there over Christmas. Any & all reports/advice are very
welcome...watching for Pete tonight and anyone else...so far no one
else.

>From near Kansas City, Happy Holidays &

73, Paul, n0lrf@amsat.org

762. Re: [APRSSIG:7627] Re: Indianapolis, Dayton area

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Mon, 23 Dec 1996 15:57:54 -0600
To: aprssig@tapr.org
Message-ID: <32BF0062.6EB1@cedar.net>
Rendered body type: text/plain

Roger Sellers wrote:
>
> At 12:54 PM 12/23/96 -0500, you wrote:
> >I'm new to APRS. :)
> >I've got it installed and on, and my TNC tuned to 145.790(S)
> >I haven't heard anyone in 24 hrs+
> >Am I on the wrong freq here, or am I in the middle of an "aprs
> >wasteland"?
> >My QTH is in Muncie, around 40:14N, 85:22W.
> >I'm running 1W into a discone at 20'. This has done well locally on
> >packet, and can be copied easily at 5 miles with an HT.
> >
> >Thanks
> >
> >
> You might try a vericle or beam toward Indianapolis or Chicago. I suspect
> if your using a radio shack type discone, that may the problem. I'm in
> Rockford, and regulaly see some stations in NW Indiana. Try changing
> antennas if you have a different one. Also try to find out if there is
> anyone else in the area running APRS. If they are on a tower, you may be

```
> able to link thru it.
>

That was the main purpose of posting here, finding our who is active
near me, and what I might be doing wrong in freq. The TNC and radio
have been together a LONG time, and all I did was dial it over to APRS.

I'm going to try a beam tonight (I hope) and see what that gets into
either Dayton or Indy. Chicago is a BIT of a haul for me, especially
at 1W. I could add power, but that seems the wrong way to solve the
problem.

Thanks.
```

---

763. Re: [APRSSIG:7628] Re: Indianapolis, Dayton area

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Mon, 23 Dec 1996 15:59:59 -0600
To: aprssig@tapr.org
Message-ID: <32BF00DF.2D52@cedar.net>
Rendered body type: text/plain

```
Truman Boerkoel wrote:
>
> Hi Dave,
>
>      We have a number of APRS Stations in the Dayton area with the
> closest to you being near
> the Brookville area near I70 about 56 airline miles from you.
>
What do you think my odds are at 1W into a 4 el beam? 56 miles makes
it JUST farther than indy, but I'm more interested in what's going on
over this way rather than indy.

Once enough stations get on, this is going to be VERY slick.
```

---

764. APRS77f.zip Posted

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 23 Dec 1996 16:08:55 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961223160603.4187A-100000@arctic>
Rendered body type: text/plain

```
This has only a few changes so download only if these items affect you.
I posted only the APRS77f.zip and the upgrade from 77eto77f.zip.  Here
are changes.  If they DO affect you, please try it out...

Ver 77f: Fixed zoom-to-far crashes by increasing minimum zoom by 2
* IMPORTANT FOR HF: Put HF Alias in Config 6th line of CFIG file.  Change
  -1,4800,0 to -1,4800,ECHO if you want to use old CFIG file...
* Modified Mic TELEMETRY format to include 5 analog channels instead of 4
  to be compatible with MIM format.  Only 4 are still used.  See MIC-E.txt
* Manual WX entries will die after 30 minutes.  The WX report remains but
  the station symbol changes to a dot, making it NOT wx.
* Fixed WX fade to gray still showing CALLsign..
* Tried again to fix "APRS did not see a digipeat message....
* MAPFIX29 modified to overlay COMPRESSED maps and now all of my standard
  distros of maps will be in compressed format for double the load speed

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

---

765. Re: [APRSSIG:7622] Re: Delormes Tripmate GPS

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 23 Dec 96 16:57:33 -0500
To: <aprssig@tapr.org>
Message-ID: <199612232157.QAA06339@newworld.bridge.net>
Rendered body type: text/plain

```
>>Can the GPS that is in Delorme's "Tripmate"  package ( map CD + GPS
>>receiver) be utlized to work with the APRS software for amateur use?
>>
>>The cost is right ( $150 ish..) I was wondering if it was possible.
>>
>>Thanks for any help.
>>
>
>
```

```
>The next release of WinAPRS and MacAPRS will support the tripmate, I hope
>to have this release out REAL soon. (by tommorrow I hope)
>
But you don't have to wait, if you re-wire the serial port to send tie
the input and output of the tripmate together. Not only is the price
right, it is an excellent unit.

Steve K4HG
```

---

766. FTP sites

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Mon, 23 Dec 1996 17:22:07 -500
To: aprssig@tapr.org
Message-ID: <B0000122609@eagnet.com>
Rendered body type: text/plain

```
What are the common ftp sites that used to retrieve
APRS files?

Thanks

Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548       n1nfc@hotmail.com
Ph:912-729-5287           n1nfc@aol.com
Data:912-729-6067    AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm
```

---

767. Re: North Pole

From: rbost@itexas.net (Roy Bost)
Date: Mon, 23 Dec 1996 16:32:09 -0600
To: <aprssig@tapr.org>
Message-ID: <19961223223409457.AAA88@rbost.itexas.net>
Rendered body type: text/plain

```
Look to the North Pole if you have HF APRS or have a GATE in your area.
Looks like Santa is getting ready!

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

---

768. APRS files?

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Mon, 23 Dec 1996 17:54:36 -500
To: aprssig@tapr.org
Message-ID: <B0000122643@eagnet.com>
Rendered body type: text/plain

```
What ftp site do I use to aquire the APRS files?

Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548       n1nfc@hotmail.com
Ph:912-729-5287           n1nfc@aol.com
Data:912-729-6067    AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm
```

---

769. Re: [APRSSIG:7630] Re: GPS difference

From: James Kerns <jkerns@usit.net>
Date: Mon, 23 Dec 1996 18:19:54 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612232319.SAA23341@smtest.usit.net>
Rendered body type: text/plain

```
snip--->Hi Jim, the GPS 50 is fine for APRS NMEA input. It's a generation old
>and the newer units fix their postion a bit faster and have bells &
>whistles (like real geographical maps). But of course, they cost more...
>
>If you're doing APRS, the 50 is fine unit.
>
>Happy Holiddays &
>
>--
>73, Paul, n0lrf@amsat.org
>
>
```

paul thanks, you answered my questions. Merry Christmas
>
>
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

---

770. Merry Christmas

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 23 Dec 1996 17:17:45 -0700
To: aprssig@tapr.org
Message-ID: <2.2.32.19961224001745.006822c8@mailhost.primenet.com>
Rendered body type: text/plain

It is the time of year that our thoughts turn to joy and our friends. Carol and I want to take this opportunity to wish you a very heart felt "Merry Christmas". May all your dreams and wishes come true, and may Santa find your chimney without difficulty.

73, Alan & Carol Unangst

Alan K. Unangst, WC7R
Phone: (520) 445-1465
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

---

771. Re: [APRSSIG:7611] HF tones.

From: "wb8vji" <wb8vji@tir.com>
Date: Mon, 23 Dec 1996 19:30:24 -0500
To: <aprssig@tapr.org>
Message-ID: <199612240029.TAA09794@tir.com>
Rendered body type: text/plain

```
----------
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7611] HF tones.
> Date: Monday, December 23, 1996 10:34 AM
>
> My OLD KAMs used 1600 and 1800 HZ tones for HF (center freq of 1700 hz).
> I believe some others use 2125 Hz, and others 2110?  Since I am designing
> a XTAL controled HF DATA Xcvr for APRS, I need to be pretty sure of
> everyone's tones.  Some MFRs still use only the original 170 HZ shift
> used for 60 WPM RTTY and never even changed for the 200 Hz shift for
> ASCII..  Lets fill in another table:
>
> HF TNC         LOW   CENTER HIGH SHIFT
> --------       ----  ------ ---- -----
> BELL 202       2025   2125  2225  200   The original standard for 300
baud
> KAM (old)      1600   1700  1800  200
> KAM Plus        ?      ?     ?     ?
> MFJ 1270/74B    ?     1700   ?     ?    Only the 1700 is ref'ed in manual
> MFJ 1270/74c   2125   2210  2295  170   (I think)
> MFJ 1278       2125   2210  2295  170
> PK-232          ?      ?     ?     ?
```

Bob my pk232 says 2110 2210 2310 200

```
> PK-2232         ?      ?     ?     ?
> PK-900          ?      ?     ?     ?
> DSP-12         2125   2225  2325  200   (Wierd!)
>
> Don't worry, my design will accomodate all of the above, but I need a
> baseline for optimizing the design...
>
> Reply mail addr:   wb4apr@amsat.org
> See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
> GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
>
>
```

772. Adaptive Tracker reporting rate

From: bob <w2g3zfj@unix.asb.com>
Date: Mon, 23 Dec 1996 19:29:21 -0500
To: aprssig@tapr.org
Message-ID: <32BF23E1.7BF4@unix.asb.com>
Rendered body type: text/plain

Hi Folks and Seasons Greetings!

As I have this week off work, I have managed to complete a project I have had on the 'back burner' for a lonnnng time.

My GPS Engine (A Magnavox unit) only outputs GGA and VTG sentences, in order to save bandwidth I programmed a small microcontroller (the DOMINO from Micromint) to synthesize an RMC sentence from the GGA and VTG. This has worked fine for the last 6 months.

Now, the DOMINO was using only 384 bytes out of the 32k availabe so I thought I would 'tap into' the programming power available and use it to change the trackers reporting rate according to how fast I was proceeding. My initial test, which I got working today, was to set the reporting rate to low (once every 15 mins) if the VTG sentence reported a speed less than 10 knots for >1 min. If the speed was >10knots it would immediately revert back to high (once a minute).

This seems to work OK, my 'only' bug to date has been that if it loses lock it reverts to fast reporting rate. I'll fix that tomorrow!

If anyones interested I will post the info, program etc in the APRS section of my home page (http://www.asb.com/usr/w2g3zfj/aprs1.htm). Let me know if you want it.

Now what I'd like to to next is to get the DOMINO to wake up every 15 mins, power on the GPS, get a fix and then broadcast it. Ideally I'd like to let the system run all the time but I find that if I don't run the car every day then the battery dies, especially in the cold!

73 de bob w2/g3zfj

w2g3zfj@unix.asb.com

---

773. Re: [APRSSIG:7636] FTP sites

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 23 Dec 1996 17:37:08 -0800
To: aprssig@tapr.org
Message-ID: <199612240137.RAA23062@m1.sprynet.com>
Rendered body type: text/plain

At 16:25 12/23/96 -0600, you wrote:
>What are the common ftp sites that used to retrieve
>APRS files?
>
>Thanks

Please feel free to download from ftp.kcaprs.org/files
or you can get there by browser at www.kcaprs.org/files...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

774. RE: [APRSSIG:7621] Indianapolis, Dayton area

From: pscc@seidata.com
Date: Mon, 23 Dec 96 22:07:32 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.961223221103.pscc@S.E.I. Data.seidata.com>
Rendered body type: text/plain

Dave,

My QTH is Lawrenceburg, In. near Cincinnati, Ohio. We have a fair amount of APRS here on 145.790 but I see none from the rest of Indiana. I am alone! I would think there should be plenty but I am not seeing them. Perhaps none are close enough to digi through the group in the In-Oh-Ky area.

If you get some action up there maybe I can see it here too. Good luck.

Lee Kissell
8 Meyerfield Place
Lawrenceburg, In. 47025
812-537-3579 Voice & Fax

E-mail pscc@seidata.com
WWW   http://www.seidata.com/~pscc

Amateur KB9OBE EN79 147.285, 146.805, 146.880, 146.520

Date: 12/23/96
--- end of mail

775. RE: [APRSSIG:7634] APRS77f.zip Posted

From: pscc@seidata.com
Date: Mon, 23 Dec 96 22:17:41 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.961223222052.pscc@S.E.I. Data.seidata.com>
Rendered body type: text/plain

Bob,

I just mailed my registration in last Thursday. If I download the 77f version will my registration still be good? I don't want to cause myself any grief. I do get the "APRS did not see a digipeat message.." error, guess it's not me huh?

Otherwise it works great and I am having a good time with it here in Indiana! Merry Christmas.

Lee Kissell
8 Meyerfield Place
Lawrenceburg, In. 47025
812-537-3579 Voice & Fax

E-mail pscc@seidata.com
WWW   http://www.seidata.com/~pscc

Amateur KB9OBE EN79 147.285, 146.805, 146.880, 146.520

Date: 12/23/96
--- end of mail

776. Re: [APRSSIG:7643] Re: FTP sites

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Mon, 23 Dec 1996 23:03:58 -500
To: aprssig@tapr.org
Message-ID: <B0000123228@eagnet.com>
Rendered body type: text/plain

> Date: Mon, 23 Dec 1996 19:38:40 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Jim Duncan <ku0g@sprynet.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7643] Re: FTP sites

> At 16:25 12/23/96 -0600, you wrote:
> >What are the common ftp sites that used to retrieve
> >APRS files?
> >
> >Thanks
>
> Please feel free to download from ftp.kcaprs.org/files
> or you can get there by browser at www.kcaprs.org/files...
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@kcaprs.com
> EMail: ku0g@sprynet.com
>
>

Thanks for the info

73

Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548   n1nfc@hotmail.com
Ph:912-729-5287   n1nfc@aol.com
Data:912-729-6067   AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm

---

777. Re: [APRSSIG:7646] Re: FTP sites

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 23 Dec 1996 20:45:04 -0800
To: aprssig@tapr.org
Message-ID: <199612240445.UAA15551@m1.sprynet.com>
Rendered body type: text/plain

The latest version of APRSDos (7.7f) is now available through either FTP or
Netscape/Mosaic from KCAPRS.

For FTP: ftp://ftp.kcaprs.org/files

>From Netscape/Etc.: http://www.kcaprs.org/files

Upgrade file is named 77eto77f.zip
Full Release is names APRS77F.zip

Enjoy!!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

778. Re: [APRSSIG:7637] Re: North Pole

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Tue, 24 Dec 1996 00:02:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961224000006.8813B-100000@laraby.tiac.net>
Rendered body type: text/plain

On Mon, 23 Dec 1996, Roy Bost wrote:

> Look to the North Pole if you have HF APRS or have a GATE in your area.
> Looks like Santa is getting ready!
>
> Roy Bost, N5TAM
> Granbury, Tx.
> rbost@itexas.net
> 32 25' 33"N   97 48' 59"W

Today (Mon) I noticed that someone uploaded a posit for Santa loading his
sleigh...but the lat/lon put him near the equator, not the North Pole!

As the sarge on Hill Street Blues always said, "Hey, let's be carefull
out there!"

Richard Amirault   N1JDU   Boston, Massachusetts USA
amirault@tiac.net   "Go Fly A Kite"

---

779. 30-meter band expansion?

From: N2ZRC@gnn.com (Arte Booten)
Date: Tue, 24 Dec 1996 00:14:51
To: aprssig@tapr.org
Message-ID: <199612240514.AAA17587@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

I clipped the following from "The Hudson Valley Loop," which
is put out via e-mail from the ARRL Hudson Division.

>   High Frequency (3-30 MHz) Spectrum Planning Options, a
>planning document released December 13 by the National
>Telecommunications and Information Administration, says the HF
>spectrum is flexible enough "to accommodate most, if not all,"
>demands for additional HF spectrum, including new and bigger HF
>ham bands. The NTIA is an Executive Branch agency in the
>Department of Commerce that's responsible for developing

>telecommunications policy and advising the President on
>telecommunications matters. The NTIA's latest report is a
>follow-on to an NTIA study released in March 1995 (see QST, June
>1995, page 75).
>   The Options report addresses spectrum availability and long-
>range planning options for services that were identified in the
>earlier report as needing additional HF spectrum--including
>Amateur Radio. The report cites a potential 900 kHz or so of
>expanded or upgraded allocations for Amateur Radio in the HF
>spectrum, including:
>   + an exclusive, worldwide allocation at 3500 to 3800 kHz
>   + a new band at 4945 to 4995 kHz (additional technical
>   studies would be required)
>   + an "aligned worldwide" allocation at 6900 to 7200 kHz
>***
>   + expanded worldwide, primary allocations at 10100 to 10350
>   and 14000 to 14400 kHz
>***
>   + expanded allocations at 18068 to 18318, 24740-24890, and
>   28000 to 30000 kHz.
===

Just thought y'all might like to know. 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

780. New Kansas Maps Posted!!!

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 23 Dec 1996 21:48:43 -0800
To: aprssig@tapr.org
Cc: n0lrf@amsat.org
Message-ID: <199612240548.VAA27613@m1.sprynet.com>
Rendered body type: text/plain

I have posted a new set of map files for the State of Kansas! The file is named KSMAPS01.ZIP. In it you will find many street-level maps as well as regional maps already included in other map distributions.

The file is posted on the TAPR FTP site and the KCAWG web site (www.kcaprs.org)...

Merry Christmas, Kansans!!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

781. Re: [APRSSIG:7649] 30-meter band expansion?

From: Jim Duncan <ku0g@sprynet.com>
Date: Mon, 23 Dec 1996 22:11:54 -0800
To: aprssig@tapr.org
Message-ID: <199612240611.WAA01904@m1.sprynet.com>
Rendered body type: text/plain

>>   + an exclusive, worldwide allocation at 3500 to 3800 kHz

Looks like we stand to LOSE ground here! (200 kHz in fact...)

>>   + a new band at 4945 to 4995 kHz (additional technical
>>   studies would be required)

OK, this will probably carry the same weight with 40 and 80 meters as the 10 MHz allocation did with 15 and 20 meters. Some potential here!!! Not sure I want it if we have to give up 200 kHz on 80 (biggest part of the phone band, but I WON'T be sorry to see 3895 go away!)

>>   + an "aligned worldwide" allocation at 6900 to 7200 kHz

I doubt this one would go "unpunished"! Of course, if the broadcasters were cleared out of the DX portion then I'd say a fair exchange!!!

```
>>************************************************************************
>>     +  expanded worldwide, primary allocations at 10100 to 10350
>>           and 14000 to 14400 kHz
>>************************************************************************

Oh, YES!!!

>>     +  expanded allocations at 18068 to 18318, 24740-24890, and
>>           28000 to 30000 kHz.

These bands are VASTLY under-utilized and this may be an opportunity for all
amateurs to really expand their operations!  I can see an expansion of the
NOvice phone privileges on 10, more FM, too!  Interesting!!!

All in all, with the exception of the loss of 200 kHz of 80 meter phone band
(the home of the raving lunatic fringe and obsolete ???  traffic nets), my
initial reaction is favorable...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

782. APRS 77F

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Tue, 24 Dec 1996 05:04:58 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <32BFD4FA.5181@n-link.com>
Rendered body type: text/plain

```
I just downloaded aprs 77f and tried to unzip it..
I received a message that says there are errors in the .zip file.
I retiried the download again, Again tried to run pkunzip.
I received the same error again about a error in the .zip file..
Has anyone else had a problem to unzip the APRS77F.ZIP file?
Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line
```

---

783. 40m report...

From: Paul Stump <n0lrf@amsat.org>
Date: Tue, 24 Dec 1996 07:25:12 -0800
To: aprssig@tapr.org
Message-ID: <32BFF5D8.5B8A@amsat.org>
Rendered body type: text/plain

```
Happy Xmas Eve All,

I've been running an APRS GATE on 7.085.00 LSB for
the past 18 hours or so...(near Kansas City).

Only other station heard was Richard, N2JR, in N.
Virginia. Hope you saw me, Richard? Saw no one
over night (expected). When I checked the freq.
this morning, there is a nasty S9+10 heterodyne
near by. Notched it down to S3, and will
continue to camp out here all day. Also Spanish
speaking stations (SSB) occasionally.

Come join me! (it's pretty lonely down here).
--
73, Paul, n0lrf@amsat.org
```

---

784. 40 Meter

From: Jim Prentice WA2MZF QCWA <PRENTICE@scanva.canton.edu>
Date: Tue, 24 Dec 1996 08:53:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <01IDDS2GY9W2001976@scanva.canton.edu>
Rendered body type: text/plain

```
I was up for a little while last night and heard a signal but could not
see or list anyone. was short time as had to go out etc, but will be listening
7085 lsb for next several days to see what happens.
```

wa2mzf

785. Re: [APRSSIG:7652] APRS 77F

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Tue, 24 Dec 1996 09:18:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612241418.JAA06780@itchy.mosquito.com>
Rendered body type: text/plain

```
At 05:05 12/24/96 -0600, Tommy Taylor wrote:

>I just downloaded aprs 77f and tried to unzip it..
>I received a message that says there are errors in the .zip file.
>I retiried the download again, Again tried to run pkunzip.
>I received the same error again about a error in the .zip file..
>Has anyone else had a problem to unzip the APRS77F.ZIP file?

W2HOB REPLY:

No problem here... unzipped ok and is running.

 Have fun es 73 de Boyd
 w2hob@mosquito.com
```

786. Re: Colorado APRS

From: n4tgo@sprynet.com
Date: Tue, 24 Dec 1996 06:54:03 -0800
To: aprssig@tapr.org
Message-ID: <199612241454.GAA10444@m9.sprynet.com>
Rendered body type: text/plain

```
Just coming on-line with APRS, so somebody tell me where to monitor and so
forth.

Is there special freqs?  i.e. 440, 2m etc

Also on HF, whats the best TNC to use?

Thanks

Doug/N4tgo


NOTE:  Any groups in Colorado?

n4tgo@sprynet.com
```

787. Re: [APRSSIG:7651] Re: 30-meter band expansion?

From: "Paul Knupke Jr." <knupke@babbage.csee.usf.edu>
Date: Tue, 24 Dec 1996 10:40:35 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612241540.KAA28000@babbage.csee.usf.edu>
Rendered body type: text/plain

```
At 12:18 AM 12/24/96 -0600, you wrote:

>Looks like we stand to LOSE ground here! (200 kHz in fact...)

Actually I believe it will give 3500-3800 world wide, while in ITU Region 2
will keep 3500-4000 KHz.  So no loss for us.

What I can see is a phone band on 30 meters (10200 or 10250 to 10350
probably), as well as more room for 10 meter FM repeaters.

A realligned 40 meter band meaning we don't have to operate split to talk to
those outside ITU Region 2.

A new band in the 4.9 meg band is also neat.

I don't want to open up the pro/no code debate but technician plus should
get additional privledges if we see more spectrum.

Also more room for contest free operation as well as more room for digial
operations including maybe a good 40 meter frequency a possibility for APRS
users.  (See I mentioned APRS!!)
```

Also during the better parts of solar cycles, we have room to really spread out on 12, 17 and 30 meters and really learn how they propagate. Lastly, a phone band on 30 meters will be a really neat thing as its propogation is a mix between 20 and 40, with longer paths than 40 in the day, but it doesn't die as early as 20.

73 and Happy Holidays

```
de Paul
Paul E. Knupke, Jr.                *
knupke@csee.usf.edu                *
Largo, Florida                     *  You can fight
Amateur Radio KR4YL                *  Without ever winning
Fidonet 1:3603/570.0               *  But never ever win
Assistant E.C. Pinellas A.R.E.S.   *  Without a fight
Florida Contest Group Member       *           ... Neil Peart
Trustee KE4ZYU/R 224.78 Clearwater *               "Resist" by RUSH
```

---

788. Adaptive Tracker Controller

From: bob <w2g3zfj@unix.asb.com>
Date: Tue, 24 Dec 1996 10:38:59 -0500
To: aprssig@tapr.org
Message-ID: <32BFF913.7BA@unix.asb.com>
Rendered body type: text/plain

Hi Folks and Seasons Greetings

Several inquiries about my previous posting on an adaptive tracker controller that alters the beacon rate according to your speed. So, I have entered the info (such as it is!) onto my aprs home page (http://www.asb.com/usr/w2g3zfj/aprs1.htm).

Let me know if anyone else tries it.The approach could be easily adapted to many other forms of microcontroller. I previously used a 68HC11 for a similar task before we had GPS code in the TNC's but it was quicker to get going in BASIC for this task. I have also used the BASIC STAMPS but found that they have difficulty in keeping up with the data stream from the GPS unit, maybe the later ones are faster?

I believe that units like this and the MIC-E encoder etc have many useful tasks to perform in the APRS world. For example, it would be trivial for this controller to monitor the ignition status and switch to rapid reporting rate with a different symbol if the car was stolen. It can also monitor analogue values so it could remotely send temperature, battery voltage etc. I'll see how much time I have to pursue these ideas over the holiday.

73 to one and all

bob, w2/g3zfj
w2g3zfj@unix.asb.com

---

789. Re: [APRSSIG:7652] APRS 77F

From: Rusty Haddock <rusty@fe2o3.lonestar.org>
Date: Tue, 24 Dec 1996 08:54:29 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199612241454.IAA30955@fe2o3.lonestar.org>
Rendered body type: text/plain

Tommie Taylor wrote:

```
    >
    >I just downloaded aprs 77f and tried to unzip it..
    >I received a message that says there are errors in the .zip file.
    >I retiried the download again, Again tried to run pkunzip.
    >I received the same error again about a error in the .zip file..
    >Has anyone else had a problem to unzip the APRS77F.ZIP file?
    >Tommie
```

I FTP'd it at work from ftp.tapr.org last night (Monday) then xfer'd it to my home system. Just tested it after reading your message (with the -t option of the Linux version) and it found no errors.

While it may be obvious to most, and I don't know your level of expertise, allow me to remind you that the file needs to be transferred in binary mode.

One way or another it sounds like your .ZIP file is corrupted.
If I can help, lemme know.

Merry Christmas!

-Rusty-

```
--
   _____        Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
|\/   o \   o
|   (  -<  O o  I planted my antenna farm and what popped up was aluminum
|/\__V__/       and copper tubing.  Strange thing is... I used steel seeds!
```

---

790. WinAPRS Version 1.1.8

From: Mark Sproul <sproul@ap.org>
Date: Tue, 24 Dec 1996 10:45:09 -0500
To: aprssig@tapr.org
Message-ID: <v03007801aee5a9b03071@[165.1.27.20]>
Rendered body type: text/plain

To all WinAPRS users

I have just released version 1.1.8 of WinAPRS, there are MANY new features,
most of which are in direct response to user input and requests. Both the
full versions and the update zip files are both on TAPR and Rutgers.

Rutgers site at ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/
TAPR site at ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/

The documentation has been updated and is at http://aprs.rutgers.edu/
I made an announcment about a week ago that its a new web server, a Mac
runnining Linux. It seems to me to be preforming much better and the logs
show that it has been getting lots of use but I have not heard any feed
back from users yet.

MacAPRS Version 2.6.8 - December 24, 1996
WinAPRS Version 1.1.8

```
       Added weather charts, last 24 hours of your local weather data
                (if you have a weather unit attached).
       Drawing / Erasing lines now working properly.
       Can read dos COMPRESSED maps
       Added DIRECT STATIONS ONLY to display options.
       Callbook data base support - can now generate the indexes
                from WinAPRS directly, see CD-ROM call sign data bases
       Rewrote the GRIDSQUARE display code so it is MUCH MUCH faster.
       Major improvements to RDF operation and display
       Fixed date bug that caused the date to always show up as 12/31/96
       Fixed bug in rain reporting when using Davis Weather unit.
       Added support for the Delomore Tripmate GPS unit
       Added display of National Weather Services station locations.
       MacAPRS -- Rearanged some of the Menus, this was done for two
                reasons, one to simplify the menus and two, to make the menus
                for MacAPRS and WinAPRS more alike, this makes programming
                and documentation easier.
       Finished Civil Air Patrol / Search And Resqueue grid display,
                now includes labels.
       Can now read dosAPRS .HST files.
       UnprotoPath window bug fixed
```

Merry Christmas to all

Mark Sproul

```
____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

---

791. Re: [APRSSIG:7656] Re: Colorado APRS

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 24 Dec 1996 07:57:11 -0800
To: aprssig@tapr.org
Message-ID: <199612241557.HAA24890@m1.sprynet.com>
Rendered body type: text/plain

At 08:58 12/24/96 -0600, you wrote:
>

```
>Just coming on-line with APRS, so somebody tell me where to monitor and so
>forth.
>
>Is there special freqs?

VHF:  145.79 MHz
HF: 10.151 MHz or 7.085 MHz

>
>Also on HF, whats the best TNC to use?

KAM or PK900

>
>Thanks

You're welcome!

>NOTE:  Any groups in Colorado?

Look for KB0MQQ and others in the Denver area on both HF and VHF!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

792. Re: [APRSSIG:7621] Indianapolis, Dayton area

From: jeff.ruhnke@juno.com
Date: Mon, 23 Dec 1996 20:14:30 PST
To: aprssig@tapr.org
Message-ID: <19961224.100149.7743.0.jeff.ruhnke@juno.com>
Rendered body type: text/plain

```
On Mon, 23 Dec 1996 12:41:14 -0600 (CST) Dave VanHorn
<dvanhorn@cedar.net> writes:
>I'm new to APRS. :)
>
>I've got it installed and on, and my TNC tuned to 145.790(S)
>
>I haven't heard anyone in 24 hrs+
>
>Am I on the wrong freq here, or am I in the middle of an "aprs
>wasteland"?
>
>My QTH is in Muncie, around 40:14N, 85:22W.
>
>I'm running 1W into a discone at 20'. This has done well locally on
>packet, and can be copied easily at 5 miles with an HT.
>
>Thanks
>
>I know ther are a few stations in Lafyatte Ind. N.I.A.N.  (  Northeren
Illinois APRS Network is working on going down there and help them get a
better path out and to be able to digi into Chicago. There is a Skywarn
Station in Wapauck Ind ( east of Crown Point) and there is a station
that pops up sometimes here in Chicago.  You should be able to hit
Lafyatte and Dayton Oh.

Jeff N9WEB
Board Nember N.I.A.N.
```

793. WinAPRS and SAMS / QRZ CD-ROM

From: Mark Sproul <sproul@ap.org>
Date: Tue, 24 Dec 1996 11:15:00 -0500
To: aprssig@tapr.org
Message-ID: <v03007803aee5b0f3e4c5@[165.1.27.20]>
Rendered body type: text/plain

```
There have been several people asking about the indexes required for SAMS
and QRZ CD-ROM.

If you are using one of these CD-ROMs, you should download Version 1.1.8,
it now has the ability to CREATE these indexes from the CD-ROM.


Mark
```

```
_____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

---

794. Re: [APRSSIG:7660] WinAPRS Version 1.1.8

From: bob <w2g3zfj@unix.asb.com>
Date: Tue, 24 Dec 1996 11:37:27 -0500
To: aprssig@tapr.org
Message-ID: <32C006C7.27D8@unix.asb.com>
Rendered body type: text/plain

```
Hi Mark

Just downloaded and installed winaPRS v1.1.8. Is there a bug in the dos
maps display? All of the dos maps I bring up have lots of lines
criss-crossing the display. The win maps work fine. Everything else
seems OK so far. I like the wx display.

73 de bob w2/g3zfj
w2g3zfj@unix.asb.com


Mark Sproul wrote:
>
> To all WinAPRS users
>
> I have just released version 1.1.8 of WinAPRS, there are MANY new features,
> most of which are in direct response to user input and requests.  Both the
> full versions and the update zip files are both on TAPR and Rutgers.
>
>   Rutgers site at ftp://aprs.rutgers.edu/pub/hamradio/aprs/WinAPRS/
>   TAPR site at ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/
>
> The documentation has been updated and is at http://aprs.rutgers.edu/
> I made an announcment about a week ago that its a new web server, a Mac
> runnining Linux.  It seems to me to be preforming much better and the logs
> show that it has been getting lots of use but I have not heard any feed
> back from users yet.
>
> MacAPRS Version 2.6.8 - December 24, 1996
> WinAPRS Version 1.1.8
>
>        Added weather charts, last 24 hours of your local weather data
>                (if you have a weather unit attached).
>        Drawing / Erasing lines now working properly.
>        Can read dos COMPRESSED maps
>        Added DIRECT STATIONS ONLY to display options.
>        Callbook data base support - can now generate the indexes
>                from WinAPRS directly, see CD-ROM call sign data bases
>        Rewrote the GRIDSQUARE display code so it is MUCH MUCH faster.
>        Major improvements to RDF operation and display
>        Fixed date bug that caused the date to always show up as 12/31/96
>        Fixed bug in rain reporting when using Davis Weather unit.
>        Added support for the Delomore Tripmate GPS unit
>        Added display of National Weather Services station locations.
>        MacAPRS -- Rearanged some of the Menus, this was done for two
>                reasons, one to simplify the menus and two, to make the menus
>                for MacAPRS and WinAPRS more alike, this makes programming
>                and documentation easier.
>        Finished Civil Air Patrol / Search And Resqueue grid display,
>                now includes labels.
>        Can now read dosAPRS .HST files.
>        UnprotoPath window bug fixed
>
> Merry Christmas to all
>
> Mark Sproul
>
> _____________________________________________________________________________
> Mark Sproul                      |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                    |Work: 609-860-7120
> North Brunswick, NJ              |Fax:  609-860-7129
> http://msproul.rutgers.edu/
> _____________________________________________________________________________
```

795. FTP site correction

From: Mark Sproul <sproul@ap.org>
Date: Tue, 24 Dec 1996 11:42:15 -0500
To: aprssig@tapr.org
Message-ID: <v03007807aee5b813915b@[165.1.27.20]>
Rendered body type: text/plain

```
The rutgers FTP address I gave is no longer valid because of the new Web
server, The TAPR address is still correct.

For FTP access use

  Rutgers site at ftp://msproul.rutgers.edu/pub/hamradio/aprs/WinAPRS/

or

 TAPR site at ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/



Mark

___________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
___________________________________________________________________________
```

796. Re: [APRSSIG:7638] APRS files?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 24 Dec 1996 11:53:52 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961224115316.4827C-100000@arctic>
Rendered body type: text/plain

```
On Mon, 23 Dec 1996, Bill Carreira Jr. wrote:

> What ftp site do I use to aquire the APRS files?

APRSdos REPLY/COMMENT: @tapr.org in
tapr/SIG/aprssig/files/dosstuff/APRSdos area


Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

797. Re: [APRSSIG:7660] WinAPRS Version 1.1.8

From: Greg Noneman <greg@clubnet.net>
Date: Tue, 24 Dec 96 09:11:21 -0800
To: <aprssig@tapr.org>
Message-ID: <1360703867-29295971@www.clubnet.net>
Rendered body type: text/plain

```
Are you going to be releasing MacAPRS v 2.6.8 as well?


Greg
WB6ZSU
```

798. Re: [APRSSIG:7662] Re: Indianapolis, Dayton area

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Tue, 24 Dec 1996 12:13:41 -0600
To: aprssig@tapr.org
Message-ID: <32C01D55.547@cedar.net>
Rendered body type: text/plain

```
> >I know ther are a few stations in Lafyatte Ind. N.I.A.N.  (  Northeren
> Illinois APRS Network is working on going down there and help them get a
> better path out and to be able to digi into Chicago. There is a Skywarn
> Station in Wapauck Ind ( east of Crown Point) and there is a station
> that pops up sometimes here in Chicago.  You should be able to hit
> Lafyatte and Dayton Oh.

Hmm. Maybe I need to loose the discone and go with a J-Pole or
something. I'm
```

apparently not getting the range, even with 60W and helical filter and
gaasfet preamp.
Grr.. I can set up a permanent station here as soon as I get my feet
wet. I have a PC
I can dedicate, and I'm already running a network, what's one more node
;)

What would I need, besides TNC, decent antenna, PC and APRS to be a
"wide" node?

---

799. Re: [APRSSIG:7660] WinAPRS Version 1.1.8

From: Joe Agrelo <jagrelo@cris.com>
Date: Tue, 24 Dec 1996 12:50:01 -0800
To: aprssig@tapr.org
Message-ID: <32C041F9.4845@cris.com>
Rendered body type: text/plain

Mark Sproul wrote:
>
> To all WinAPRS users
>
> I have just released version 1.1.8 of WinAPRS, there are MANY new features,
> most of which are in direct response to user input and requests. Both the
> full versions and the update zip files are both on TAPR and Rutgers.

Mark,

I don't see at either ftp site.

73 De Joe N2OOC (new address & phone effective 8/15)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Agrelo Engineering
Joe Agrelo/President
P.O.Box 231 Pattersonville, NY 12137 USA
ph (518)864-7551 effective 8/15
fax (518)864-7553 "   "
mailto:Jagrelo@cris.com
WEB: http://home.navisoft.com/agrelo/ae.htm
Designer & Manufacturer of intelligent microprocessor
based Doppler, talking products and RF.
Experts in Microchip & Motorola processors
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

---

800. Re: [APRSSIG:7665] FTP site correction

From: schiers@ames.net
Date: Tue, 24 Dec 96 11:56:12 -0500
To: Mark Sproul <sproul@ap.org>
Cc: aprssig@tapr.org
Message-ID: <199612241755.LAA19759@brain.ames.net>
Rendered body type: text/plain

In <v03007807aee5b813915b@[165.1.27.20]>, on 12/24/96 at 10:53 AM,
Mark Sproul <sproul@ap.org> said:

>The rutgers FTP address I gave is no longer valid because of the new Web
>server, The TAPR address is still correct.

>For FTP access use

> Rutgers site at ftp://msproul.rutgers.edu/pub/hamradio/aprs/WinAPRS/

>or

> TAPR site at ftp://ftp.tapr.org/tapr/SIG/aprssig/files/winstuff/WinAPRS/

>Mark

>____
>Mark Sproul |Amateur Radio: KB2ICI
>Software Engineer @ Assoc Press |
>sproul@ap.org |Work: 609-860-7120
>North Brunswick, NJ |Fax: 609-860-7129
>http://msproul.rutgers.edu/
>____

I just went to both sites and it is not there. Did it get pulled because of a bug? Latest version showing as of 11:57 a.m. cdt is 117. Very strange.

73,

hasan schiers, N0AN
----
schiers@ames.net
----

801. Re: [APRSSIG:7659] Re: Need

From: James Kerns <jkerns@usit.net>
Date: Tue, 24 Dec 1996 13:10:29 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612241810.NAA18030@smtest.usit.net>
Rendered body type: text/plain

Merry Christams and A Happy New Year to All.

Wonder since AEA out of business, if anyone has an AEA 232MBX for sale. Would like to replace mine as I have rigs all wired for it and use PKRATT program. Would like a GOOD used one or a new one if anyone has one. Please send price and details. Thanks
Jim Kerns
N4PUQ
jkerns@usit.net
Oliver Springs, Tn.
(just outside Oak Ridge where everyone glows in the dark!!)

802. Re: [APRSSIG:7667] Re: WinAPRS Version 1.1.8

From: Mark Sproul <sproul@ap.org>
Date: Tue, 24 Dec 1996 12:47:17 -0500
To: aprssig@tapr.org
Message-ID: <v03007809aee5c78c3409@[165.1.27.20]>
Rendered body type: text/plain

>Are you going to be releasing MacAPRS v 2.6.8 as well?
>
>
>Greg
>WB6ZSU

Yes, hopefully by thursday

Mark

```
____________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
____________________________________________________________________________
```

803. Re: [APRSSIG:7664] Re: WinAPRS Version 1.1.8

From: Mark Sproul <sproul@ap.org>
Date: Tue, 24 Dec 1996 13:38:23 -0500
To: aprssig@tapr.org
Message-ID: <v0300780baee5d34df715@[165.1.27.20]>
Rendered body type: text/plain

>Hi Mark
>
>Just downloaded and installed winaPRS v1.1.8. Is there a bug in the dos
>maps display? All of the dos maps I bring up have lots of lines
>criss-crossing the display. The win maps work fine. Everything else
>seems OK so far. I like the wx display.
>

I pulled the release, fixed the bug and put it back. The rutgers WEB server is behaving just fine, but the FTP sever is a little slow, the files are on TAPR now.

```
Mark

______________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
______________________________________________________________________
```

804. Re: [APRSSIG:7673] Re: WinAPRS Version 1.1.8

From: schiers@ames.net
Date: Tue, 24 Dec 96 13:11:32 -0500
To: Mark Sproul <sproul@ap.org>
Cc: aprssig@tapr.org
Message-ID: <199612241920.NAA20707@brain.ames.net>
Rendered body type: text/plain

```
In <v0300780baee5d34df715@[165.1.27.20]>, on 12/24/96 at 12:43 PM,
   Mark Sproul <sproul@ap.org> said:

>I pulled the release, fixed the bug and put it back. The rutgers WEB
>server is behaving just fine, but the FTP sever is a little slow, the
>files are on TAPR now.

I got the new one from TAPR a few minutes ago...

Something is wrong with the U-2000 wx . It was working as
it should with 117, all I did was upgrade and now my pressure is being
transmitted as zero, the gust info is corrupted with what appears to be
the pressure. The string being transmitted is not valid. Lemme see if I
can grab it:

history file shows this as the end of the wx string: /P000/G10288064/U2a

The info before it (in the string) looks normal:

  path info then:@241912zlat/lon_019/012/T015/P000/G10288064/U2a

should it read U2a or U2k...will try restarting the program. Have checked
U2000 in the wx setup. 73,

hasan schiers, N0AN
-------------------------------------------------------------
schiers@ames.net
-------------------------------------------------------------
```

805. Re: [APRSSIG:7673] Re: WinAPRS Version 1.1.8

From: schiers@ames.net
Date: Tue, 24 Dec 96 13:23:51 -0500
To: aprssig@tapr.org
Cc: Mark Sproul <sproul@ap.org>
Message-ID: <199612241922.NAA20729@brain.ames.net>
Rendered body type: text/plain

```
In <v0300780baee5d34df715@[165.1.27.20]>, on 12/24/96 at 12:43 PM,
   Mark Sproul <sproul@ap.org> said:

>>Hi Mark
>>
>>Just downloaded and installed winaPRS v1.1.8. Is there a bug in the dos
>>maps display? All of the dos maps I bring up have lots of lines
>>criss-crossing the display. The win maps work fine. Everything else
>>seems OK so far. I like the wx display.
>>



>I pulled the release, fixed the bug and put it back. The rutgers WEB
>server is behaving just fine, but the FTP sever is a little slow, the
>files are on TAPR now.

>Mark

I forgot to mention that I am using the update version.

hasan schiers, N0AN
-------------------------------------------------------------
```

```
schiers@ames.net
------------------------------------------------------------
```

806. Re: [APRSSIG:7644] RE: Indianapolis, Dayton area

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Tue, 24 Dec 1996 14:27:09 -0600
To: aprssig@tapr.org
Message-ID: <32C03C9D.3587@cedar.net>
Rendered body type: text/plain

```
>
> If you get some action up there maybe I can see it here too. Good luck.
>

I now have a 5 el beam with 60W pointed roughly at the Dayton area.
I'm set to send hourly, I'll leave it up that way for a while and see.
```

807. Re: [APRSSIG:7673] Re: WinAPRS Version 1.1.8

From: schiers@ames.net
Date: Tue, 24 Dec 96 13:27:31 -0500
To: Mark Sproul <sproul@ap.org>
Cc: aprssig@tapr.org
Message-ID: <199612241930.NAA20807@brain.ames.net>
Rendered body type: text/plain

```
In <v0300780baee5d34df715@[165.1.27.20]>, on 12/24/96 at 12:43 PM,
   Mark Sproul <sproul@ap.org> said:

>I pulled the release, fixed the bug and put it back. The rutgers WEB
>server is behaving just fine, but the FTP sever is a little slow, the
>files are on TAPR now.

I rebooted, no change. Wind gust is showing in the weather list as -1120,
pressure still zero.

Interestingly enough, the Weather Display of local weather shows 1029.6
mb. Weather/RDF settings shows 10295.

The weather list itself has severe errors and the string being transmitted
(both viewed as transmitted and reviewed in the history file) has the
errors I noted in the prior message.

I have verified that I have things set for the U-2000 and nothing was
changed from version 117 to the 118 update. Maybe I missed some change I
was supposed to make in the docs...or is this a buglet?

hasan schiers, N0AN
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

808. Re: [APRSSIG:7664] Re: WinAPRS Version 1.1.8

From: Neil Lauritsen <scout@gte.net>
Date: Tue, 24 Dec 1996 15:18:53 -0500
To: aprssig@tapr.org
Message-ID: <32C03AAD.1FB@gte.net>
Rendered body type: text/plain

```
bob wrote:

> Just downloaded and installed winaPRS v1.1.8. Is there a bug in the dos
> maps display? All of the dos maps I bring up have lots of lines
> criss-crossing the display. The win maps work fine. Everything else
> seems OK so far. I like the wx display.
>
> 73 de bob w2/g3zfj
> w2g3zfj@unix.asb.com

I have noted the same "buglet" here. Other than that it looks great and
finally for the first time my SAMS CD works as it should..having the
program create the samcd.idx file works great..Tnx for a nice xmas
present.

73,

Neil, KA3DBK
scout@gte.net
```

809. WinAPRS Version 1.1.8

From: Paul Stump <n0lrf@amsat.org>
Date: Tue, 24 Dec 1996 15:04:29 -0800
To: aprssig@tapr.org
Message-ID: <32C0617D.32A1@amsat.org>
Rendered body type: text/plain

```
Mark Sproul wrote:

> I have just released version 1.1.8 of WinAPRS, there are MANY new features,

> Merry Christmas to all

And the same to you Mark, Keith & Bob!

LOVE the WX graphs! Will now take the 8088 laptop
to the office for 24hr APRSDos station!

Thanks also for the date fix and Direct Stations!

This is going to be my second best Christmas
present---Santa's bringing me a Standard C508A
micro HT tonight, to build a SCAT (Self Contained
Automatic Tracker), using a MIM, GPS 25, PT5101
regulator and 7.2vdc batt pack....will keep
you posted.

All the BEST from the Midwest!

--
73, Paul, n0lrf@amsat.org
```

810. 40m report...

From: Paul Stump <n0lrf@amsat.org>
Date: Tue, 24 Dec 1996 15:10:41 -0800
To: aprssig@tapr.org
Message-ID: <32C062F1.10E3@amsat.org>
Rendered body type: text/plain

```
Camped out at 7.088.00 LSB now. It is a
little less busy this afternoon. If this
changes, will try 7.085.00 LSB again.

Only station seen so far today is Pete,
WA4HEI, in MI. Thanks 4 joining me Pete!
(you were S9+10).

Cya & don't eat too much tomorrow.

May Santa bring U everything U deserve,
not what U want...

--
73, Paul, n0lrf@amsat.org
```

811. WinAPRS 1.1.8 & Peet Bros U-2000

From: BordingK@aol.com
Date: Tue, 24 Dec 1996 16:32:51 -0500
To: aprssig@tapr.org
Message-ID: <961224163250_1155318519@emout01.mail.aol.com>
Rendered body type: text/plain

```
Just loaded up WinAPRS 1.1.8 and noticed something weird!  In both Weather
List window and surrounding my station icon it shows all wx info correctly
EXCEPT WIND GUST.  New display shows winds (0) / wind gust.  That shows as
-1120 MPH.  This a light breeze, but it doesn't seem that windy! ha ha (or ho
ho)

In Weather Display  High and Low wind seems normal.

Anyone else having same/similar problem.

Merry Christmas to all!

de KF4COH
Ken in Jax. FL
```

812. GPS

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Tue, 24 Dec 1996 15:56:56 -0800
To: aprssig@tapr.org
Message-ID: <32C06DC8.4138@n-link.com>
Rendered body type: text/plain

```
Paul Stump wrote:
>
> Happy Xmas Eve All,
>
> I've been running an APRS GATE on 7.085.00 LSB for
> the past 18 hours or so...(near Kansas City).
>
> Only other station heard was Richard, N2JR, in N.
> Virginia. Hope you saw me, Richard? Saw no one
> over night (expected). When I checked the freq.
> this morning, there is a nasty S9+10 heterodyne
> near by. Notched it down to S3, and will
> continue to camp out here all day. Also Spanish
> speaking stations (SSB) occasionally.
>
> Come join me! (it's pretty lonely down here).
> --
> 73, Paul, n0lrf@amsat.org
Paul just received the cable, Thanks a GREAT Bunch.. Just what I
needed..
You're the best...  GPS Mobile here I go..
73's Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line
```

813. Re: [APRSSIG:7659] Re: APRS 77F

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Tue, 24 Dec 1996 16:00:13 -0800
To: aprssig@tapr.org
Message-ID: <32C06E8D.72CE@n-link.com>
Rendered body type: text/plain

```
Rusty Haddock wrote:
>
> Tommie Taylor wrote:
>     >
>     >I just downloaded aprs 77f and tried to unzip it..
>     >I received a message that says there are errors in the .zip file.
>     >I retiried the download again, Again tried to run pkunzip.
>     >I received the same error again about a error in the .zip file..
>     >Has anyone else had a problem to unzip the APRS77F.ZIP file?
>     >Tommie
>
> I FTP'd it at work from ftp.tapr.org last night (Monday) then xfer'd
> it to my home system.  Just tested it after reading your message
> (with the -t option of the Linux version) and it found no errors.
>
> While it may be obvious to most, and I don't know your level of
> expertise, allow me to remind you that the file needs to be
> transferred in binary mode.
>
> One way or another it sounds like your .ZIP file is corrupted.
> If I can help, lemme know.
>
> Merry Christmas!
>
>         -Rusty-
> --
>    _____        Rusty Haddock  ##  KD4WLZ  ##  rusty@fe2o3.lonestar.org
> |\/   o \   o
> |   (  -<  O o  I planted my antenna farm and what popped up was aluminum
> |/\__V__/       and copper tubing.  Strange thing is... I used steel seeds!
Thanks Rusty as I think I will try another FTP, when I run the PKZIPFIX
it fixed most of the files and they unzipped ok except 1 file...
Thanks for your advice.
Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
```

Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691   This is also a FAX Request line

814. MapFix29.exe

From: jud <judlynn@norfolk.infi.net>
Date: Tue, 24 Dec 1996 17:21:45 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612242221.RAA25460@mh004.infi.net>
Rendered body type: text/plain

I just downloaded 77F today and every thing seems to work OK except I can't
load a map using MapFix29. Works fine using MapFix28. Anyone else having
this problem?

```
             73, and Merry Christmas everyone, Jud, KE4HFX
                              ))((((( 
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

815. Re: [APRSSIG:7652] APRS 77F

From: wa4mej@juno.com (john w dent)
Date: Tue, 24 Dec 1996 13:26:16 EDT
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <19961224.184905.4351.0.wa4mej@juno.com>
Rendered body type: text/plain

tommie
i just downloaded APRS 7.7f and it's all ok also the up date from 7.7d to

77f it is also ok

73 and good luck
john wa4mej

On Tue, 24 Dec 1996 05:05:38 -0600 (CST) Tommie Taylor
<tomcmugs@n-link.com> writes:

```
>I just downloaded aprs 77f and tried to unzip it..
>I received a message that says there are errors in the .zip file.
>I retiried the download again, Again tried to run pkunzip.
>I received the same error again about a error in the .zip file..
>Has anyone else had a problem to unzip the APRS77F.ZIP file?
>Tommie
>--
>A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
>WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
>http://www.web2.com/cmugs/
>Internet: tomcmugs@n-link.com / tomcmugs@juno.com
>Phone:  (512) 556-4691   This is also a FAX Request line
>
>
```

816. MapFix29

From: jud <judlynn@norfolk.infi.net>
Date: Tue, 24 Dec 1996 20:31:51 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612250131.UAA12620@mh004.infi.net>
Rendered body type: text/plain

I just downloaded 77F today and every thing seems to work OK except I can't
load a map using MapFix29. Works fine using MapFix28. Anyone else having
this problem?

```
             73, and Merry Christmas everyone, Jud, KE4HFX
                              ))((((( 
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

817. Re: [APRSSIG:7686] MapFix29

From: moyers@bellsouth.net
Date: Tue, 24 Dec 1996 21:33:05 EDT
Message-ID: <199612250228.VAA01545@gatekeeper.vic.com>
Rendered body type: text/plain

```
** Reply to note from aprssig@tapr.org Tue, 24 Dec 1996 19:36:54 -0600 (CST)
>
>
> I just downloaded 77F today and every thing seems to work OK except I can't load a map using
> MapFix29. Works fine using MapFix28. Anyone else having this problem? 73, and Merry
> Christmas everyone, Jud, KE4HFX ))(((( )_ _( [o o]

Yes, I have had the problem.  The work around is DON'T put the .MAP on the end of the
filename.  The bad problem is that you can't load .DAT files only .MAP files.  So don't delte
your copy of mapfix28.exe yet.

73 John N4QEA




John Moyers   N4QEA
PACKET -  N4QEA @ N4QEA.#METN.TN.USA.NA
INET -  moyers@vic.com
Cruise Missile - 36 02.86N  083 55.40W  A=0001100
```

---

818. Re: [APRSSIG:7681] WinAPRS 1.1.8 & Peet Bros U-2000

From: schiers@ames.net
Date: Tue, 24 Dec 96 20:42:26 -0500
To: aprssig@tapr.org
Message-ID: <199612250241.UAA24298@brain.ames.net>
Rendered body type: text/plain

```
In <961224163250_1155318519@emout01.mail.aol.com>, on 12/24/96 at 03:38
PM,
   BordingK@aol.com said:

>Just loaded up WinAPRS 1.1.8 and noticed something weird!  In both
>Weather List window and surrounding my station icon it shows all wx info
>correctly EXCEPT WIND GUST.  New display shows winds (0) / wind gust.
>That shows as -1120 MPH.  This a light breeze, but it doesn't seem that
>windy! ha ha (or ho ho)

>In Weather Display  High and Low wind seems normal.

>Anyone else having same/similar problem.

>Merry Christmas to all!

>de KF4COH
>Ken in Jax. FL

I talked to both Mark and Keith earlier in the evening. When
they added the Davis baro support, it broke the U2000 stuff.
They are aware of the problem and working on it. 73

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

---

819. Garmin 45XL Data Cable

From: "Bob Dye" <kc4hdk@gate.net>
Date: Tue, 24 Dec 1996 22:23:39 -0500
To: "aprs sig" <aprssig@tapr.org>
Message-ID: <199612250326.WAA53562@osceola.gate.net>
Rendered body type: text/plain

```
I just purchased the Garmin 45XL with the data cable and did the old
resistor "pull down" trick on the gps to computer line and the NEMA data is
going to the computer just fine.  I then took a resistor and a diode in
series with a zener to ground to change the -12 to +12 to 0 or +5 for the
computer to the gps.  This works great on loop back test ect.  Delorme
Street Atlas 4.0 and Map Expert both read/write waypoints to the GPS and I
can't seem to get these features working.  The tracking functions work
great.  Are the other control lines of the RS232 being used?  Anybody with
any input I would appreciate it.  Please e-mail below.
```

Thanks,

Bob
kc4hdk@gate.net
561.552.3114 Voice Mail

Merry Christmas!

---

820. Garmin GPS II

From: Stephan Sykes <ssykes@emirates.net.ae>
Date: Wed, 25 Dec 1996 07:40:29 +0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF237.5D368DC0@csg032.emirates.net.ae>
Rendered body type: text/plain

When I was back in the States this fall, I purchased a GPS II. Is there a program which takes the track data from it to generate a map? I am trying to develop a map of the UAE.

Steve Sykes
KD2OM/A61AA
Abu Dhabi, UAE

---

821. WinAPRS 1.1.8

From: Jerry Rector <jerryr49@magg.net>
Date: Tue, 24 Dec 1996 22:44:24 -0500
To: "'sproul@ap.org'" <sproul@ap.org>
Cc: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF1EC.0901A820@wpb-101.magg.net>
Rendered body type: text/plain

Mark:
Under Win95 - 386 - 16-Meg

WinAPRS 1.1.8 with Davis Wx Monitor II

Cannot now transmit weather data packet -
gives WinAPRS Alert box : Weather Data Invalid

Weather data in display window is OK

WinAPRS 1.1.7 does not give this error, and
transmits weather data OK

(MFJ TNC on Port 2 (9600 8N1))
(Davis Weather Monitor II on Port 4 (2400 8N1)

Again, problem first showed up on 1.1.8

73,
Jerry, KB4OAM
jerryr49@magg.net

---

822. Re: [APRSSIG:7690] Garmin GPS II

From: Jim Duncan <ku0g@sprynet.com>
Date: Tue, 24 Dec 1996 20:49:47 -0800
To: aprssig@tapr.org
Message-ID: <199612250449.UAA26711@m1.sprynet.com>
Rendered body type: text/plain

At 21:47 12/24/96 -0600, you wrote:
>When I was back in the States this fall, I purchased a GPS II. Is there a
>program which takes the track data from it to generate a map? I am trying
>to develop a map of the UAE.
>
>Steve Sykes
>KD2OM/A61AA
>Abu Dhabi, UAE

Steve:

Did you know that the GPS-II was recalled by Garmin due to bad software (I think)...Perhaps Paul, N0LRF, will enlighten us???

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com

EMail: ku0g@sprynet.com

---

823. Re: 30-meter band expansion?

From: N2ZRC@gnn.com (Arte Booten)
Date: Wed, 25 Dec 1996 01:05:41
To: aprssig@tapr.org
Message-ID: <199612250606.BAA15294@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Tue, 24 Dec 1996 Jim Duncan replied to my:

>>*************************************************************************
>>     +  expanded worldwide, primary allocations at 10100 to 10350
>>           and 14000 to 14400 kHz
>>*************************************************************************

     with

>Oh, YES!!!

     I think those that've responded so far have missed the point I no-
ticed.  We've been fortunate in that "our" 30M frequency is right there
at the very EDGE of this admittedly underutilized  band (and it's selec-
tion was obviously, at the time, well thought out) but if it's extended
up another 200 kHz, we'll be far more susceptible to QRM as folks will
figure "hey, let's go park ourselves on this nice even number of 10.150
and play PACTOR" or some such.

     We may have to move APRS 30M ops up to 10.351 LSB in order to pre-
serve what we've got.  Which, of course, is a better idea than going DOWN
to 10.099 USB (you can always cut OFF a few inches from the old dipole,
adding it on is a bit more of a problem.)

     As for the proposed Amateur ops at 4.9 mHz, I dunno.  That rubs me
the wrong way, too close to the Time Beacons on 5 MHz ... BIG signals lots
of people (including Hams) rely on.  And kind of like operating too near
the 20M beacon frequencies.  The whole idea appeals to me about the same
as the sound of fingernails on a blackboard.

     All this, of course, is just the take from a lowly no-code that's been
an SWL for about the past twenty or so years.  73 & a Very Merry to All.


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

---

824. WinAPRS 1.1.9

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Wed, 25 Dec 96 1:22:50 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.851494970.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

```
There were a couple minor problems with the version we released today.

The first problem was a minor issue with the display of DOS maps.
We added support for the DOS Compressed Map format, and this led
to a bug in the NORMAL DOS maps.

The other bug was in the weather stuff.  We had added a couple
features in the DAVIS weather stuff and this caused the U-2000
to have a problem.

All of this should be fixed now.


We would like thank Hasan Schiers (N0AN) and Bob (w2/g3zfj) for their help
in finding and solving these problems.  We would especially like to thank
Hasan for helping with this late on Christmas Eve...


Mark and Keith Sproul
```

```
Keith Sproul                            Ham Radio: WU2Z
Student Housing Network Coordinator     ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/     908 821-4828 Home
```

825. RE: [APRSSIG:7692] Re: Garmin GPS II

From: Stephan Sykes <ssykes@emirates.net.ae>
Date: Wed, 25 Dec 1996 09:17:30 +0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF24E.BF0EA700@csg065.emirates.net.ae>
Rendered body type: text/plain

```
No I didn't.  I just got it about 1 week ago.  It wasn't even released when
I was in the states.  It does seem to take a long time to lock on when
first turning on.  Maybe I should contact Garmin?
Steve

----------
From:   Jim Duncan[SMTP:ku0g@sprynet.com]
Sent:   Wednesday, December 25, 1996 2:54 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:7692] Re: Garmin GPS II

At 21:47 12/24/96 -0600, you wrote:
>When I was back in the States this fall, I purchased a GPS II.  Is there a
>program which takes the track data from it to generate a map?  I am trying
>to develop a map of the UAE.
>
>Steve Sykes
>KD2OM/A61AA
>Abu Dhabi, UAE

Steve:

Did you know that the GPS-II was recalled by Garmin due to bad software (I
think)...Perhaps Paul, N0LRF, will enlighten us???

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

826. Re: [APRSSIG:7694] WinAPRS 1.1.9

From: Steve Dimse <sdimse@bridge.net>
Date: Wed, 25 Dec 96 02:22:46 -0500
To: <aprssig@tapr.org>
Message-ID: <199612250722.CAA29092@newworld.bridge.net>
Rendered body type: text/plain

```
>Sent:        12/25/96 1:28 AM
>Received:    12/25/96 2:20 AM
>From:        Keith Sproul, ksproul@hardees.rutgers.edu

Geez, your up late...at least I have the excuse of being at work...

So how come the Windows version is always the first out of the gates
these days?

Merry Xmas de Steve
```

827. Re: [APRSSIG:7695] Re: Garmin GPS II

From: Paul Stump <n0lrf@amsat.org>
Date: Wed, 25 Dec 1996 06:54:38 -0800
To: aprssig@tapr.org
Message-ID: <32C1402E.3F81@amsat.org>
Rendered body type: text/plain

```
Stephan Sykes wrote:
>
> No I didn't.  I just got it about 1 week ago.  It wasn't even released when
> I was in the states.  It does seem to take a long time to lock on when
> first turning on.  Maybe I should contact Garmin?
> Steve

> >When I was back in the States this fall, I purchased a GPS II.  Is there a
> >program which takes the track data from it to generate a map?  I am trying
> >to develop a map of the UAE.
> >
> >Steve Sykes
> >KD2OM/A61AA
> >Abu Dhabi, UAE
>
> Steve:
>
> Did you know that the GPS-II was recalled by Garmin due to bad software (I
> think)...Perhaps Paul, N0LRF, will enlighten us??

Steve, your best bet is to contact Product Support for their help. I do
not know the answers, but will try to find out...I hope there is a
toll-free phone # to call from over there. The State-side one is
800-800-1020. BTW, I'm sure there is some software available to
replay your tracks. Ask Product Support about that too.

Happy Holidays,

--
73, Paul, n0lrf@amsat.org
```

---

828. MC

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Wed, 25 Dec 1996 07:22:51 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <32C146CB.976@n-link.com>
Rendered body type: text/plain

```
MERRY CHRISTMAS TO ALL...
Lampasas, TX
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone:  (512) 556-4691   This is also a FAX Request line
```

---

829. Re: [APRSSIG:7654] 40 Meter

From: rhiii@mnsinc.com (Richard H.)
Date: Wed, 25 Dec 1996 13:50:59 GMT
To: aprssig@tapr.org
Message-ID: <32c3305a.9300948@relay.mnsinc.com>
Rendered body type: text/plain

```
Have six stations heard so far on 7085:
        WB8SKP, NU5Q, KB4IVO, WV0T-9, N0LRF, WA4HEI

All with quite good copy into N. VA -- 50 sw of Wash DC.

-- de Richard/N2JR
```

---

830. Re: [APRSSIG:7693] Re: 30-meter band expansion?

From: schiers@ames.net
Date: Wed, 25 Dec 96 07:56:53 -0500
To: aprssig@tapr.org
Message-ID: <199612251357.HAA26374@brain.ames.net>
Rendered body type: text/plain

```
In <199612250606.BAA15294@mail-e2b.gnn.com>, on 12/25/96 at 12:14 AM,
   N2ZRC@gnn.com (Arte Booten) said:

>   We may have to move APRS 30M ops up to 10.351 LSB in order to pre-
>serve what we've got.  Which, of course, is a better idea than going DOWN
>to 10.099 USB (you can always cut OFF a few inches from the old dipole,
>adding it on is a bit more of a problem.)

I agree, if a move is contemplated (and admittedly this is way down the
line), we should move UP to the band edge just like we are now. It will
save lots of qrm, AND in my special case, improve the performance of my
Log Periodic. I will have to go into my TS-870s and figure out how to open
up "out of band transmit". Even now, I can't tranmit on 10.151 lsb. Rig
refuses to go into tx because it detects out of band. Hence, I am on
10.147 usb. 73,

hasan schiers, N0AN
-------------------------------------------------------------
schiers@ames.net
```

----

831. Dos APRS manual

From: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Date: Wed, 25 Dec 1996 09:25:59 -0500
To: <aprssig@tapr.org>
Message-ID: <199612251433.JAA22034@nebula.ispace.com>
Rendered body type: text/plain

Greetings to all!
I finally finished the APRS Dos Manual and it includes ver 77e. The manual
includes all readme files of Bob's distribution plus some trips and tricks.
The manual has a table of content and an Index to help find answers for
problems or question. The cost is $15.00 plus shipping $7.00 or if you come
to Orlando Hamcation it will be there. Unfortunately it is too heavy to
send USPS express mail as I took a sample to get the shipping price. If you
want the manual send $15.00 plus shipping cost, check or money order to:
Jacques Voisin, KD4TWB
1245 Minnesota Street
Orlando, FL 32803
I want you to know that I am not making any big money out of this just
covering my expenses.
If you have any questions please address E-Mail direct to me so that we do
not put too much bandwidth on the SIG.
73's
Jacques, KD4TWB

832. MapFix29

From: jud <judlynn@norfolk.infi.net>
Date: Wed, 25 Dec 1996 11:05:09 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612251605.LAA18010@mh004.infi.net>
Rendered body type: text/plain

I just downloaded 77F today and every thing seems to work OK except I can't
load a map using MapFix29. Works fine using MapFix28. Anyone else having
this problem?

```
             73, and Merry Christmas everyone, Jud, KE4HFX
                              ))(((((
                              )_   _(
                              [o   o]
=========================OOO===(_)===OOO=========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
==================================================================
```

5423 Barnhollow Rd.
Norfolk, VA 23502-3604

833. Re: Dos APRS manual

From: kb8pff@juno.com
Date: Wed, 25 Dec 1996 12:12:18 EST
To: aprssig@tapr.org
Message-ID: <19961225.120528.7391.0.kb8pff@juno.com>
Rendered body type: text/plain

On Wed, 25 Dec 1996 08:41:38 -0600 (CST) "Jacques C. VOISIN"
<jvoisin@nebula.ispace.com> writes:
>Greetings to all!
>I finally finished the APRS Dos Manual and it includes ver 77e. The
>manual
>includes all read me files of Bob's distribution plus some trips and
>tricks.
>The manual has a table of content and an Index to help find answers
>for
>problems or question. The cost is $15.00 plus shipping $7.00 or if you
>come
>to Orlando Hamcation it will be there. Unfortunately it is too heavy
>to
>send USPS express mail as I took a sample to get the shipping price.
>If you
>want the manual send $15.00 plus shipping cost, check or money order
>to:
>Jacques Voisin, KD4TWB
>1245 Minnesota Street
>Orlando, FL 32803
>I want you to know that I am not making any big money out of this just
>covering my expenses.
>If you have any questions please address E-Mail direct to me so that

>we do
>not put too much bandwidth on the SIG.
>73's
>Jacques, KD4TWB
>
>

Why not just upload it to the Internet somewhere so everyone can have
it!
Sounds fair to me, anyone else think so ?

834. Recent Order

From: Marc Cohen <LTCCohen@artsci.net>
Date: Wed, 25 Dec 1996 10:08:54 -0800
To: APRS Bob Bruninga <aprssig@tapr.org>
Message-ID: <32C16DB6.5F4D@artsci.net>
Rendered body type: text/plain

Good morning and Merry Xmas. I writing on behalf of my friend, David
Moye (Palmdale CA). He placed an order from you about two weeks ago and
would like to know the status of the shipment.

He ordered a map, validation and most current version.

Also, if I want to use his latest version, do I just send you $14 for
the validation?

Thanks for your time.

Marc Cohen
ltccohen@artsci.net

835. 40m Report...

From: Paul Stump <n0lrf@amsat.org>
Date: Wed, 25 Dec 1996 14:33:51 -0800
To: aprssig@tapr.org
Message-ID: <32C1ABCF.24E2@amsat.org>
Rendered body type: text/plain

Season's Greetings SIG-Heads,

Plan to stay on 7.085.00 LSB for a few days now...

Have seen this Christmas day:

N2JR, Richard, Warrenton, VA
VA3MW, WX, Canada (all I know)
VE3DOH, WX, ditto
NU5Q, Carl, Slidell, LA
WA4HEI, Pete, UP, MI

All had S9 to S9+15 signals. Please come join us and
set ur UNproto to GATE,WIDE so the locals can CU2.

Happy work tomorrow for some of us!

--
73, Paul, n0lrf@amsat.org

836. Re: [APRSSIG:7700] Re: 30-meter band expansion?

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Wed, 25 Dec 1996 14:07:10 -0800
To: aprssig@tapr.org
Message-ID: <32C1A58D.498D@ix.netcom.com>
Rendered body type: text/plain

schiers@ames.net wrote:
>
> In <199612250606.BAA15294@mail-e2b.gnn.com>, on 12/25/96 at 12:14 AM,
>   N2ZRC@gnn.com (Arte Booten) said:
>
> >   We may have to move APRS 30M ops up to 10.351 LSB in order to pre-
> >serve what we've got. Which, of course, is a better idea than going DOWN
> >to 10.099 USB (you can always cut OFF a few inches from the old dipole,
> >adding it on is a bit more of a problem.)
>
> I agree, if a move is contemplated (and admittedly this is way down the

> line), we should move UP to the band edge just like we are now. It will
> save lots of qrm, AND in my special case, improve the performance of my
> Log Periodic. I will have to go into my TS-870s and figure out how to open
> up "out of band transmit". Even now, I can't tranmit on 10.151 lsb. Rig
> refuses to go into tx because it detects out of band. Hence, I am on
> 10.147 usb. 73,
>
> hasan schiers, N0AN
> ---
> schiers@ames.net
> ---

KB6LFM WRITES:

FSK is the answer to your problems Hasan. Happy & SAFE Holidays!

Bill/LFM

APRS Gateway Stn. for the West Coast

---

837. Re: [APRSSIG:7690] Garmin GPS II

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Dec 1996 17:38:48 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961225173808.20911D-100000@arctic>
Rendered body type: text/plain

On Tue, 24 Dec 1996, Stephan Sykes wrote:

> When I was back in the States this fall, I purchased a GPS II. Is there a
> program which takes the track data from it to generate a map? I am trying
> to develop a map of the UAE.
>

APRSdos REPLY/COMMENT: I have digitized a map of Dujbai... will look for
it next week...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

838. Re: [APRSSIG:7704] Recent Order

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 25 Dec 1996 17:45:31 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961225174423.20911F-100000@arctic>
Rendered body type: text/plain

On Wed, 25 Dec 1996, Marc Cohen wrote:

> Good morning and Merry Xmas. I writing on behalf of my friend, David
> Moye (Palmdale CA). He placed an order from you about two weeks ago and
> would like to know the status of the shipment.
>
> He ordered a map, validation and most current version.

APRSdos REPLY/COMMENT: I have made a map of Los Angeles for someone and
have been carryin it around for aweek. Cnat find the guys form, so I dont
know who to send it to. He lived near Palmdale CA I think???

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

839. Re: [APRSSIG:7703] Re: Dos APRS manual

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 25 Dec 1996 19:37:59 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aee784df81f1@[199.1.11.109]>
Rendered body type: text/plain

>Why not just upload it to the Internet somewhere so everyone
>can have it!
>Sounds fair to me, anyone else think so ?

No!
Well, "trips and tricks" do have some value :-)
Some people don't have printers and might like a well printed
manual.

A person with full internet access can find several places
that have the same docs of the readme files.
"Let your brain do the walking"

You could also "See the movie or buy the APRS Book"

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

840. KPC-3 / Mac aprs interface

From: Rich Josephson <Josephson@TIGGER.STCLOUD.MSUS.EDU>
Date: Wed, 25 Dec 1996 19:54:24 -0600
To: aprssig@tapr.org
Message-ID: <32C1DAD0.138@stcloud.msus.edu>
Rendered body type: text/plain

I just got a new Kantronics KPC-3 and and trying to get it to work with
the Mac APRS version 2.6.7. I am using a commerial modem cable. In the
manual they talk about junpers between pins 5 and 20 (CTS and DTR) Any
other thoughts before I start looking for a couple DB-25 connectors to
install the jumpers? Thanks>

Rich Josephson
josephson@stcloud.msus.edu

---

841. Compass input

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Wed, 25 Dec 1996 21:08:31 -0600
To: aprssig@tapr.org
Message-ID: <32C1EC2F.359B@cedar.net>
Rendered body type: text/plain

How does APRS take a doppler heading input (relative to vehicle) and
translate it to a bearing (relative to earth).

I see how you can take a track where the vehicle is moving and establish
the vehicle's orientation, assuming you aren't driving backwards or
crabbing a heli, but at low speeds, the GPS 50' error is going to be
a big problem. Two sequential position reports can be off by 100' at
max, and in an unspecified direction. The average error between two
positions is probably more like 25', so unless I'm moving more than
25fps, the error induced "noise" is a larger portion of my true vector
than my motion is. This would be a problem.

Is there any way to input compass data (IE Precision Navagation) into
the system?

Thanks

---

842. Re: [APRSSIG:7711] Compass input

From: Dayglo <dayglo@radix.net>
Date: Wed, 25 Dec 1996 22:01:51 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961226030151.0070f8c8@pop.radix.net>
Rendered body type: text/plain

>Is there any way to input compass data (IE Precision Navagation) into
>the system?

I do not have an answer to this question but would be very interested in
one. The Vector 2X application notes state that one of the uses of the
compass is a GPS system backup for azimuth data. I was hoping to incoporate
it into my system as a backup whenever satellites are not available for the
GPS. For people looking for more information point your browser to:
http://www.pcweb.com/pni/.

---

843. Re: [APRSSIG:7711] Compass input

From: Steve <sdimse@bridge.net>
Date: Wed, 25 Dec 96 22:07:02 -0500
To: <aprssig@tapr.org>
Message-ID: <199612260306.WAA05512@newworld.bridge.net>
Rendered body type: text/plain

>How does APRS take a doppler heading input (relative to vehicle) and
>translate it to a bearing (relative to earth).
>
>I see how you can take a track where the vehicle is moving and establish
>the vehicle's orientation, assuming you aren't driving backwards or
>crabbing a heli, but at low speeds, the GPS 50' error is going to be
>a big problem. Two sequential position reports can be off by 100' at
>max, and in an unspecified direction. The average error between two
>positions is probably more like 25', so unless I'm moving more than
>25fps, the error induced "noise" is a larger portion of my true vector
>than my motion is. This would be a problem.
>
GPS doesn't use successive positions to obtain course and speed, rather
it uses the doppler shifts of the received signals, which with a
multi-channel receiver is quite accurate. When travelling a straight road
I rarely see more than 0.5 degree swings of the heading. The bigger
problem is when stopped, some gps's will hold the last compass reading
with a significant velocity, but most continue to report headings which
swing wildly and have no relation to actual vehicle heading. Since many
electronic compasses put out NMEA strings, in theory APRS ought to be
able to read this data, but I don't know whether this feature is
implemented in Mac/Win/APRS/dos. Bob? Keith? Mark?

Steve K4HG

---

844. Re: [APRSSIG:7711] Compass input

From: Dayglo <dayglo@radix.net>
Date: Wed, 25 Dec 1996 22:12:03 -0500
To: aprssig@tapr.org
Message-ID: <2.2.32.19961226031203.0071a420@pop.radix.net>
Rendered body type: text/plain

>Is there any way to input compass data (IE Precision Navagation) into
>the system?

I just hit their web page and found a relatively new product they
manufacture called the TCM2. This compass will output heading information
in NMEA 0183 format. Sounds all that you would need is a microcontroller
controlling the flow of data between the GPS and the compass.

---

845. Re: Compass input

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 25 Dec 1996 20:24:50 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961225202453.0ac7e394@mailhost.primenet.com>
Rendered body type: text/plain

At 08:11 PM 12/25/96 -0600, you wrote:

>I see how you can take a track where the vehicle is moving and establish
>the vehicle's orientation, assuming you aren't driving backwards or
>crabbing a heli, but at low speeds, the GPS 50' error is going to be
>a big problem. Two sequential position reports can be off by 100' at
>max, and in an unspecified direction. The average error between two
>positions is probably more like 25', so unless I'm moving more than
>25fps, the error induced "noise" is a larger portion of my true vector
>than my motion is. This would be a problem.
>
>Is there any way to input compass data (IE Precision Navagation) into
>the system?

I think you assume too much. Bearing reports via GPS are as accurate as
any other system as SA only affects position reports and not speed or
bearing, assuming you are moving more than about 2 mph. GPS is certainly
as accurate as any "hall effect" sensor compass available. Of course, GPS
bearing information isn't displayed unless you're moving. In that case
some form of direction reporting might be disirable.

73,

Mark KC7BXS

---

846. Re: [APRSSIG:7689] Garmin 45XL Data Cable

From: Bruce Douberley <bcdpe@innova.net>
Date: Wed, 25 Dec 1996 22:52:59 -0500
To: aprssig@tapr.org
Message-ID: <32C1F69B.3FEA@innova.net>

Rendered body type: text/plain

Bob Dye wrote:
>
> I just purchased the Garmin 45XL with the data cable and did the old
> resistor "pull down" trick on the gps to computer line and the NEMA data is
> going to the computer just fine. I then took a resistor and a diode in
> series with a zener to ground to change the -12 to +12 to 0 or +5 for the
> computer to the gps. This works great on loop back test ect. Delorme
> Street Atlas 4.0 and Map Expert both read/write waypoints to the GPS and I
> can't seem to get these features working. The tracking functions work
> great. Are the other control lines of the RS232 being used? Anybody with
> any input I would appreciate it. Please e-mail below.
>
> Thanks,
>
> Bob
> kc4hdk@gate.net
> 561.552.3114 Voice Mail
>
> Merry Christmas!

I have just recently acquired my xmiter(mfj unit) and am using a pk-12.
I did get some kind of data out of the 45xl to the screen with the aprs
adapter and a laptop running aprsdos as hsp (though nothing to xmiter).
I was using my reg #s for aprs and gps. There is nothing happening when
used as a stand alone system. I am not familiar with the resistor pull
down trick mentioned above. The TNC is setup with the instructions from
the AEA manual(gps + to pin 2 of db25 and gps - to pin 1). If anyone
can help please I would greatly appreciate it.
Thanks in advance.
Merry Christmas!!
Bruce Douberley
WB4JNE

847. Re: [APRSSIG:7692] Re: Garmin GPS II

From: Greg Noneman <greg@clubnet.net>
Date: Wed, 25 Dec 96 19:55:54 -0800
To: <aprssig@tapr.org>
Message-ID: <1360578644-36827790@www.clubnet.net>
Rendered body type: text/plain

The GPS II receiver had a minor software bug that resulted in incorrect
indication of cross track error on the highway screen. The bug was
present in version 2.0.4 an earlier. New shipments (v 2.0.5) have the
problem corrected. Owners with earlier vesrion can return the unit for
upgrade (or replacement). The GPS II is not "sealed" like the GPS 45.

Greg
WB6ZSU
greg@clubnet.net

848. Re: [APRSSIG:7710] KPC-3 / Mac aprs interface

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 25 Dec 1996 22:30:54 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aee7a268a786@[199.1.11.102]>
Rendered body type: text/plain

>I just got a new Kantronics KPC-3 and and trying to get it to work with
>the Mac APRS version 2.6.7. I am using a commerial modem cable. In the
>manual they talk about junpers between pins 5 and 20 (CTS and DTR) Any
>other thoughts before I start looking for a couple DB-25 connectors to
>install the jumpers? Thanks>
>

There are always several flavors of "commerial modem cable".
I had no problem using a PK-96 TNC but the same cable did not work on a
KPC-3 TNC from my PowerBook another one did.
I use a PCMCIA serial card now.

NOTE:
Anyone doing work with a Computer and RS-232 needs to go to Radio-Shack
and get a RS-232 jumper test box. This will save tons of time testing
the computer link to the TNC, GPS, DFjr, WX.

I would give up my SWR meter before I would give up
my RS-232 tester box.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

849. Re: [APRSSIG:7710] KPC-3 / Mac aprs interface

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Wed, 25 Dec 1996 21:33:46 -0700
To: aprssig@tapr.org
Message-ID: <32C20028.27FC@goodnet.com>
Rendered body type: text/plain

Using a terminal program, does the computer talk to the TNC? I used a standard Mac Modem cable without any problems. Get that working first, then try MacAPRS.

--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord." Jos 24:15

Rich Josephson wrote:
>
> I just got a new Kantronics KPC-3 and and trying to get it to work with
> the Mac APRS version 2.6.7. I am using a commerial modem cable. In the
> manual they talk about junpers between pins 5 and 20 (CTS and DTR) Any
> other thoughts before I start looking for a couple DB-25 connectors to
> install the jumpers? Thanks>
>
> Rich Josephson
> josephson@stcloud.msus.edu

---

850. Re: 30-meter band expansion?

From: N2ZRC@gnn.com (Arte Booten)
Date: Wed, 25 Dec 1996 23:38:05
To: aprssig@tapr.org
Message-ID: <199612260438.XAA20758@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All & a Very Merry,

On Wed, 25 Dec 1996 Hasan Schiers replied:

>... if a move is contemplated (and admittedly this is way down the line),
>we should move UP to the band edge just like we are now.

I don't remember if this proposed expansion is slated for WRC-97 or WRC-99, but think we will have to move within a very short time of its implementation.

>... I will have to go into my TS-870s and figure out how to open up "out
>of band transmit".

No doubt many of the newest batch of the current crop of HF rigs will be able to transmit in what is now "out-of-band" areas with software patches, adding or removing diodes or some such method. Since many of these new boxes are so heavily reliant on "smart sand," the manufacturers aren't (at least we should hope) so short-sighted as to deny the possibility of future band expansion (or, for that matter, contraction) of "legal" amateur bands.

Mods already exist for allowing most, if not all, of these rigs to operate on MARS and CAP frequencies. I'm sure the engineers at Kenwood, Yaesu, Icom, etc. have considered other possibilities that, when cornered at a hamfest and queried about, get that twinkle in their collective eyes that I know we've all seen and clam up or change the subject.

I remember when the IC-706 was about to be released I saw it at Icom's booth at the New York State Convention. When I asked the fine gentleman about whether or not it is modifiable to the proposed expansion of 40 meters of 6.9 to 7.2 mHz, he rapidly started to point out the unit's current requirements on 13.8 volts. But he DID have THAT look in his eyes ... the one that said, "yeah, but I'm not allowed to tell you about it!" I knew it! 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

851. Re: [APRSSIG:7696] Re: WinAPRS 1.1.9

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 25 Dec 1996 22:45:55 -0600
To: aprssig@tapr.org
Message-ID: <v03007803aee7b2a67865@[199.1.11.114]>
Rendered body type: text/plain

```
>So how come the Windows version is always the first out of the gates
>these days?
>
>Merry Xmas de Steve

Now, this does not apply to Keith or Mark but ......


"Funny how the Win95 titles always show up first, isn't it?  My sources
tell me it's because the software publishers know they have to get the
Win95 version out first otherwise once the programmers are done writing
the Mac version they won't want to work on the Windoze version."   :-)


73 and 1997







Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

852. Re: Compass input

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Wed, 25 Dec 1996 21:50:52 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961225215052.3f67ce3e@mailhost.primenet.com>
Rendered body type: text/plain

```
At 08:11 PM 12/25/96 -0600, you wrote:

>I see how you can take a track where the vehicle is moving and establish
>the vehicle's orientation, assuming you aren't driving backwards or
>crabbing a heli, but at low speeds, the GPS 50' error is going to be
>a big problem. Two sequential position reports can be off by 100' at
>max, and in an unspecified direction. The average error between two
>positions is probably more like 25', so unless I'm moving more than
>25fps, the error induced "noise" is a larger portion of my true vector
>than my motion is. This would be a problem.
>
>Is there any way to input compass data (IE Precision Navagation) into
>the system?


I think you assume too much.  Bearing reports via GPS are as accurate as
any other system as SA only affects position reports and not speed or
bearing, assuming you are moving more than about 2 mph.  GPS is certainly
as accurate as any "hall effect" sensor compass available.  Of course, GPS
bearing information isn't displayed unless you're moving.  In that case
some form of direction reporting might be disirable.

73,

Mark KC7BXS
```

853. APRS MANUAL ON INTERNET

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Wed, 25 Dec 96 22:59 EST
To: aprssig@tapr.org
Message-ID: <m0vd6yb-000Qe2C@nevets.oau.org>
Rendered body type: text/plain

```
On  25 Dec 1996 Robert Winingham, KC5EJK said:
> Subject: [APRSSIG:7709] Re: Dos APRS manual
>
> >Why not just upload it  to the Internet somewhere so everyone
> >can have it!
> >Sounds fair to me, anyone else think so ?
>
```

What is fair? Should KD4TWB be required to go out and purchase a scanner so he could include the illustrations that go with the document on Internet? Obviously, that would raise his cost to those who want a printed copy.

A printed manual is very useful when full screen operations on the computer are running. DOS users cannot create windows to simultaneously display the manual you are speaking of, and those who can, would find the print too small to see, displayed on a typical screen. If you want a free manual, use the one provided with the program you are using, or any of the numerous ones already existing on the Internet. If you want one with a printed index, and illustrations, his is an option.

Geoffrey, wa4ikq@nevets.oau.org

854. Weather station equipment

From: "Hector Cintron" <kipdee@isla.net>
Date: Thu, 26 Dec 1996 00:53:58 -0400
To: aprssig@tapr.org
Message-ID: <32C204E6.2C07@isla.net>
Rendered body type: text/plain

Hi everyone.

I'm creating a quick reference guide of all weather stations that can be use with APRS, price & requirements. The reason I'm doing this is because here in Puerto Rico we are starting a SKYWARN program and we want to recomend to people to get WX stations that are compatible with APRS. I have a preliminary chart at:

http://www.isla.net/skywarn/wx-equip.html

All comments, suggestions and additions are welcome. Thanks You. TTYL.

```
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     {`\0-0/'}
*==ooO==(_)==Ooo============================================================*
Happy Holidays & 73's de N1TKK

 Hector Cintron - N1TKK
 E-mail - kipdee@isla.net
         skywarn@isla.net

 Puerto Rico SKYWARN Homepage - http://www.isla.net/skywarn
 Puerto Rico SKYWARN Mailing List -
http://www.isla.net/skywarn/maillist.html

 I'm Hector Cintron from the clan Cintron, "There Can Be Only one"
@///////|===================================================================*
```

855. Re: [APRSSIG:7722] Re: Compass input

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Thu, 26 Dec 1996 01:42:40 -0600
To: aprssig@tapr.org
Message-ID: <32C22C70.DB3@cedar.net>
Rendered body type: text/plain

I think you assume too much.

Could be, I'm new here, maybe I'm just paranoid.

> Bearing reports via GPS are as accurate as
> any other system as SA only affects position reports and not speed or
> bearing, assuming you are moving more than about 2 mph.

How does that happen? If your positions are in error, then your derived headings are in error as well.

> GPS is certainly as accurate as any "hall effect" sensor compass
> available.

Maybe this is nitpicking, but NOBODY would use hall effect for a serious compass, it's way too numb and noisy. The compasses from Radio Shack are flux gates (a toroid which is saturated with the earth's flux either adding or subtracting from the applied field) or the PNI type which is something similar but different, developed by the US Army.

The original models were done by Zemco in Taiwan, with an LCD display and internal flux gate. The radio shack units are a "low cost" version, with the flux gate remoted to the outside due to magnetic coupling between the gage and the flux gate. The original prototype oscillated wildly because the flux gate was placed within an inch of the gage. Seems the engineers doing the "low costing" weren't completely in sync with the technology :)

In any case, there will be some minimum speed where the errors in the GPS position reports make heading information useless. This speed is greater than zero.

> Of course, GPS bearing information isn't displayed unless you're
> moving. In that case some form of direction reporting might be
> disirable.

That's the point. I often take bearings while stationary, and I may have turned sharply just before stopping, with a final motion of several feet per second. I stop wherever I can get a clean bearing or a spot that seems free of multipath. I'm worried that the reported bearing will be in error due to inaccuracies in the calculated heading. Huge obvious errors aren't a problem except for wasted time, but an error of say 10 degrees would really cause steam since it would be believable.

I wasn't even getting into SA, just a +/- 50' uncertainty between any pair of readings, and assuming a more or less gaussian distribution around zero. I understand under SA it's 100' error.

What is concerning me is the effects of this uncertanity while moving at low speeds. In foxhunting, I am often trolling at <20 mph and changing direction rapidly. In order for this to work with APRS, it seems to me that you need to be able to get the vehicle's heading within a couple of seconds of a change. If your GPS updates are 1/second, then I think you need a minimum of three seconds to aquire a new heading. The error still applies to each position report, so what I picture is three overlapping circles, with my reported position at the center of the circles, and my actual position being anywhere within the three circles at the time of the report.

Even after all that, I'm still in the dark as to how you relate the doppler bearing to the vehicle heading.

1: Who figures out the vehicle's heading? APRS, or the GPS unit?

2: What is the accuracy of that heading data, assuming that I may stop, turn, or back up at any moment?

Typically, I get 15 seconds to take a bearing, with maybe half that time actually useful due to RX squelch and picket-fencing. Hunting a jammer might be more like 2-3 seconds.

I see how this can work well if I'm flying down the freeway at 55, which is 80.6 FPS. The positions never overlap, and from one to the next, the error isn't too huge. If I'm at 10 mph, that's 14.6 FPS. The error in position is 50', so I could have a reported velocity from 114.6 FPS (78 MPH forward) to -85 FPS (57 MPH backward) between two positions. That assumes + or - 100% of the specified error applied in the direction of travel. The error will probably be from side to side as well, giving potentially about 80 degrees error in the reported heading between positions. If you use longer term averaging, then you risk not noticing a sharp turn till some time after it occured.

Is the error typically MUCH less than 50' between reports? That would be very comforting!

In any case, I'm assuming that heading data is derived from successive position reports. If I'm sitting still, or moving slowly enough that the error in position reports causes my heading data to have significant errors, then it seems to me that compass input would be the only way to get an accurate heading.

Understand, I haven't come on-line with this mobile yet, I'm just in the "RTFM and see where the potholes might be" mode.

Within a month I should be ready to take this mess mobile and see what I get. I just got the doppler online today, and still haven't dialled it in to exact zero yet. Not much activity on the local repeaters in

```
the last couple of days :)
```

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856. Re: [APRSSIG:7713] Re: Compass input

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Thu, 26 Dec 1996 01:55:38 -0600
To: aprssig@tapr.org
Message-ID: <32C22F7A.317E@cedar.net>
Rendered body type: text/plain

```
> I rarely see more than 0.5 degree swings of the heading. The bigger
> problem is when stopped, some gps's will hold the last compass reading
> with a significant velocity, but most continue to report headings which
> swing wildly and have no relation to actual vehicle heading. Since many
> electronic compasses put out NMEA strings, in theory APRS ought to be
> able to read this data, but I don't know whether this feature is
> implemented in Mac/Win/APRS/dos. Bob? Keith? Mark?
>
> Steve K4HG

This is more or less what I expected. I am suprised by the use of
doppler for speed! That is one impressive feat IMHO, as I'm sure
my speeds are never a significant fraction of the orbital velocity
of a sattelite!

The low speed errors are exactly what is worrying me. I had visions of
getting to this before, using odometer pulses and a flux gate to do
dead reconing. I would take heading information as available between
odo pulses, and if I have multiple readings, average for heading during
a distance interval. In theory, it ought to be accurate, but there's
no indicaation of forward or reverse, and there is no absolute position
data available. My original approach was to tune the RX to NWS or other
known location transmitters, and triangulate my position from those
bearings. Of course this doubles the uncertanity over the position of
the fox. Sort of a "poor man's GPS". With the new numerically controlled
oscillators, this is a REAL easy thing to do, just sub the NCO for the
LO in a simple VHF rig, and write some code for a micro to drive it.
The problem is that all these little bits take time to prototype and
debug!!!
```

---

857. RE: [APRSSIG:7717] Re: Garmin GPS II

From: Stephan Sykes <ssykes@emirates.net.ae>
Date: Thu, 26 Dec 1996 09:41:46 +0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF322.C14E6A80@csf020.emirates.net.ae>
Rendered body type: text/plain

```
Greg,
Thank you for the information.  I have ver 2.0.5.  I am glad that I don't
have to send it back.  There is a dealer here, but I am not sure that they
would take it to send it back.  The Garmin units are the most used here.
 Price and size is probably the reason.  The military has quite a few
units.

Steve

----------
From:   Greg Noneman[SMTP:greg@clubnet.net]
Sent:   Thursday, December 26, 1996 2:03 AM
To:     aprssig@tapr.org
Subject:        [APRSSIG:7717] Re: Garmin GPS II

The GPS II receiver had a minor software bug that resulted in incorrect
indication of cross track error on the highway screen.  The bug was
present in version 2.0.4 an earlier. New shipments (v 2.0.5) have the
problem corrected.  Owners with earlier vesrion can return the unit for
upgrade (or replacement).  The GPS II is not "sealed" like the GPS 45.


Greg
WB6ZSU
greg@clubnet.net
```

---

858. RE: [APRSSIG:7707] Re: Garmin GPS II

From: Stephan Sykes <ssykes@emirates.net.ae>
Date: Thu, 26 Dec 1996 09:47:42 +0400
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF322.C447D460@csf020.emirates.net.ae>
Rendered body type: text/plain

Thank you Bob, It would be interesting to get a map like that. I don't get to Dubai much, so It would be awhile before I could drive all around Dubai. The biggest use for the GPS here is in the desert. Lots of space with no roads. It helps to know where you get stuck up to the floorpan...

Steve

From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
Sent: Wednesday, December 25, 1996 8:33 PM
To: aprssig@tapr.org
Subject: [APRSSIG:7707] Re: Garmin GPS II

On Tue, 24 Dec 1996, Stephan Sykes wrote:

> When I was back in the States this fall, I purchased a GPS II. Is there a
> program which takes the track data from it to generate a map? I am trying
> to develop a map of the UAE.
>

APRSdos REPLY/COMMENT: I have digitized a map of Dujbai... will look for it next week...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

859. GPS45xl

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Thu, 26 Dec 1996 04:56:14 -0800
To: "aprssig@tapr.org" <aprssig@tapr.org>
Message-ID: <32C275EE.6CDD@n-link.com>
Rendered body type: text/plain

Looking for a used GPS45xl, 512.556.4691
I have a GPS 40.. for sale $175.00
Tommie
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691 This is also a FAX Request line

860. Re: [APRSSIG:7719] Re: KPC-3 / Mac aprs interface

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Thu, 26 Dec 1996 06:57:30 -0500
To: aprssig@tapr.org
Message-ID: <32C2682A.3A8A@co.pinellas.fl.us>
Rendered body type: text/plain

David/Roxanne McCarthy wrote:
>
> Using a terminal program, does the computer talk to the TNC? I used a
> standard Mac Modem cable without any problems. Get that working first,
> then try MacAPRS.
>
> --
> David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
> email: davidmc@goodnet.com packet: kc7ayx@kc7y.az.usa.noam
> Visit the family homepage: http://www.goodnet.com/~davidmc/
> "As for me and my house, we will serve the Lord." Jos 24:15
>
> Rich Josephson wrote:
> >
> > I just got a new Kantronics KPC-3 and and trying to get it to work with
> > the Mac APRS version 2.6.7. I am using a commerial modem cable. In the
> > manual they talk about junpers between pins 5 and 20 (CTS and DTR) Any
> > other thoughts before I start looking for a couple DB-25 connectors to
> > install the jumpers? Thanks>
> >
> > Rich Josephson
> > josephson@stcloud.msus.edu
I'm not a MAC user, but I own two Kantronics TNC's, and as far as I know all Kantronics products use standard pin configurations, ie 1, 2, 3, 7,

```
and 20.  I do know that you must make sure pin 25 is not connected on a
KAM because its +12 V and it will fry your computer.

The problem you are having using MacAPRS may be that the KPC-3 comes out
of the box in NEWUSER mode....using a standard com program change the
mode to TERMINAL with the command INT TERMINAL.  Otherwise, it will not
recognize half the commands it needs to run APRS from any platform.
--
***********************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
***********************************************************************
```

---

861. Re: [APRSSIG:7730] Re: KPC-3 / Mac aprs interface

From: Rich Josephson <Josephson@TIGGER.STCLOUD.MSUS.EDU>
Date: Thu, 26 Dec 1996 07:45:18 -0600
To: aprssig@tapr.org
Message-ID: <32C2816D.46E4@stcloud.msus.edu>
Rendered body type: text/plain

```
Kevin Heyboer suggested:  The problem you are having using MacAPRS may
be that the KPC-3 comes outof the box in NEWUSER mode....using a
standard com program change themode to TERMINAL with the command INT
TERMINAL.  Otherwise, it will notrecognize half the commands it needs to
run APRS from any platform.

***********************************************************************That
seems to solve the problem - Thanks.  I just went into the TNC settings
window and put "int terminal" as the first command and moved the rest
down the line.  A good tip for first time - out of box users.

Rich Josephson, WA0UNS
josephson@stcloud.msus.edu
```

---

862. Re: [APRSSIG:7723] APRS MANUAL ON INTERNET

From: stanzepa@usa.nai.net (stan horzepa)
Date: Thu, 26 Dec 1996 09:22:20 -0500
To: aprssig@tapr.org
Message-ID: <v01540b01aee8395b8add@[208.133.173.30]>
Rendered body type: text/plain

```
>Robert Winingham, KC5EJK said:

>> >Why not just upload it  to the Internet somewhere so everyone
>> >can have it!
>> >Sounds fair to me, anyone else think so ?
>>
>-----------------------------------------------------------------
>Geoffrey, wa4ikq@nevets.oau.org said:

>If you want a free manual, use the one
>provided with the program you are using, or any of the numerous
>ones already existing on the Internet.  If you want one with
>a printed index, and illustrations, his is an option.

Another option:

In a few weeks, a new book titled "Getting On Track With APRS" will be
published by the ARRL and be on sale at your local ham radio store or
directly from the League.
```

---

863. 40 Meters report

From: jud <judlynn@norfolk.infi.net>
Date: Thu, 26 Dec 1996 09:28:37 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612261428.JAA24157@mh004.infi.net>
Rendered body type: text/plain

```
I tuned up Christmas to 40 Meters 7085.0 LSB for a couple of hours. I
received the following stations here in Norfolk, VA direct.
  WA4HEI
  N0LRF
  N2JR
  WB4LTF
  VA3MW
```

I tried sending a message to each station but I didn't receive an ACK or
answer from them. I will try again.   73, Jud, KE4HFX

```
                              ))((((( 
                              )_   _(
                              [o   o]
=========================OOO===(_)===OOO=========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
=================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

---

864. Compass input for RDF

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Thu, 26 Dec 96 9:34:37 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.851610877.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

MacAPRS/WinAPRS currently use the GPS heading (or any other NMEA device that
has heading information in it)

I am getting an Electronic Compass loaned to me and will get the software to
work with that too.

I have also been told about a 'cheap' electronic compass available from
someplace (DigiKey I think)..   When things calm down a little I am going to
see about buying one of these and making it work too.

Keith

```
Keith Sproul                             Ham Radio: WU2Z
Student Housing Network Coordinator      ksproul@noc.rutgers.edu
Rutgers University Computing Services    908 445-3695 Work  908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/      908 821-4828 Home
```

---

865. Re: [APRSSIG:7732] Re: APRS MANUAL ON INTERNET

From: "Jacques C. VOISIN" <jvoisin@nebula.ispace.com>
Date: Thu, 26 Dec 1996 10:08:33 -0500
To: <aprssig@tapr.org>
Message-ID: <199612261506.KAA13471@nebula.ispace.com>
Rendered body type: text/plain

I have to add something to my manual that ARRL will not provide is periodic
update when a new version of APRS dos will come out, this a lot more
difficult when you allrady have a printed book as this manual comes in a
ring binder and the pages can easily be changed and a new index and table
of content can be supplied at nominal cost
I just did that yesterday to includes the changes with 77f
73 to all
Jacques, KD4TWB

```
----------
> From: stan horzepa <stanzepa@usa.nai.net>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7732] Re: APRS MANUAL ON INTERNET
> Date: Thursday, December 26, 1996 09:23
>
> >Robert Winingham, KC5EJK said:
>
> >> >Why not just upload it  to the Internet somewhere so everyone
> >> >can have it!
> >> >Sounds fair to me, anyone else think so ?
> >>
> >----------------------------------------------------------------
> >Geoffrey, wa4ikq@nevets.oau.org said:
>
> >If you want a free manual, use the one
> >provided with the program you are using, or any of the numerous
> >ones already existing on the Internet.  If you want one with
> >a printed index, and illustrations, his is an option.
>
> Another option:
>
> In a few weeks, a new book titled "Getting On Track With APRS" will be
> published by the ARRL and be on sale at your local ham radio store or
> directly from the League.
>
```

866. Re: [APRSSIG:7730] Re: KPC-3 / Mac aprs interface

From: Jim Duncan <ku0g@sprynet.com>
Date: Thu, 26 Dec 1996 07:15:36 -0800
To: aprssig@tapr.org
Message-ID: <199612261515.HAA29076@m1.sprynet.com>
Rendered body type: text/plain

```
At 06:00 12/26/96 -0600, you wrote:
>I'm not a MAC user, but I own two Kantronics TNC's, and as far as I know
>all Kantronics products use standard pin configurations, ie 1, 2, 3, 7,
>and 20.  I do know that you must make sure pin 25 is not connected on a
>KAM because its +12 V and it will fry your computer.

NOT TRUE!!!  The 12 volts is ONLY present IF the user makes a modification
to the unit. They do NOT come from the manufacturer with pin 25 connected!
The pin-25 mods are included in the manual for user reference...

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

---

867. To Bob and the Bros Sproul

From: BordingK@aol.com
Date: Thu, 26 Dec 1996 10:15:24 -0500
To: aprssig@tapr.org
Message-ID: <961226101524_1590911190@emout14.mail.aol.com>
Rendered body type: text/plain

```
Many thanks to Bob and Keith and Mark Sproul for the great improvements to
both APRSDos and WinAPRS this past year.  And the effort to fix the minor
WinAPRS wx bug over the Christmas holiday was above and beyond the call of
duty!

Your collective efforts have made APRS one of the most dynamic areas within
Amateur Radio!  Thanks again.

de KF4COH
Ken in Jax, FL
```

---

868. TRIPMATE MAX SPEED?

From: BordingK@aol.com
Date: Thu, 26 Dec 1996 10:20:57 -0500
To: aprssig@tapr.org
Message-ID: <961226102057_1356702297@emout04.mail.aol.com>
Rendered body type: text/plain

```
Anyone experimented to determine of the tripmate has a maximum ground speed
(99 knots?) like some of the other low cost, non-aeronautical GPS's?  I guess
I could test it on I-10, but I'd rather not!


de KF4COH
Ken in Jax, FL
```

---

869. Re: [APRSSIG:7711] Compass input

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Dec 1996 10:27:39 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961226102509.6296B-100000@arctic>
Rendered body type: text/plain

```
On Wed, 25 Dec 1996, Dave VanHorn wrote:

> How does APRS take a doppler heading input (relative to vehicle) and
> translate it to a bearing (relative to earth).
>
> Is there any way to input compass data (IE Precision Navagation) into
> the system?

APRSdos REPLY/COMMENT: APRS uses the GPS heading info.  In DF mode, it
will only use heading info when the vehicle is moving above 4 MPH.  The
docs say this so users know that when they stop, they need to keep the
vehilce oreinted in the same direction...

APRSdos and I believe the others will accept the magnetic compas NMEA
heading sentence too...
```

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

870. Re: [APRSSIG:7724] Weather station equipment

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Dec 1996 10:43:56 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961226104158.6296C-100000@arctic>
Rendered body type: text/plain

On Wed, 25 Dec 1996, Hector Cintron wrote:
>
>   I'm creating a quick reference guide of all weather stations that can
> be use with APRS, price & requirements. The reason I'm doing this is

APRSdos REPLY/COMMENT: I have a WeatherMAX unit that I am supposed to write the interface for, but so far no one has indicated that they have one of theese, so the priority keeps getting bumped to the bottom of the list. So add this to the list on your WEB page if it is not already there, but put an asterix indicating (availability TBD)

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

871. Re: [APRSSIG:7664] Re: WinAPRS Version 1.1.8

From: ARusnak@aol.com
Date: Thu, 26 Dec 1996 10:40:59 -0500
To: aprssig@tapr.org
Message-ID: <961226104057_1721693307@emout12.mail.aol.com>
Rendered body type: text/plain

Downloaded the waprs118.zip file and unziped. In the documentation is says you need win32s if you are going to run under Win 3.1. Where can I find Win32s?

Thanks

---

872. Re: [APRSSIG:7726] Re: Compass input

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Dec 1996 10:53:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961226104755.6296E-100000@arctic>
Rendered body type: text/plain

On Thu, 26 Dec 1996, Dave VanHorn wrote:

> > I rarely see more than 0.5 degree swings of the heading. The bigger
> > problem is when stopped, some gps's will hold the last compass reading
> > with a significant velocity, but most continue to report headings which
> > swing wildly and have no relation to actual vehicle heading. Since many
>
> The low speed errors are exactly what is worrying me....

APRSdos REPLY/COMMENT: By now you have seen my other response, but since your message evoked a lot of responses, I will repeat it here:

APRSdos when you are in DF mode, will only use the vehicle GPS HEADING info while the vehicle is above 4 MPH. So users simply remember when they cruise to a stop is to NOT turn the vehicle below that speed, IE, pull to the side of the road maintaining the same heading as before. If you DO turn your heading, simply note what it was, and MANUALLY use the INPUT-MY-HEADING command to type in your estimate of your new heading.

This 4 MPH threshold assures that while you sit there, that the wandering GPS headings will NOT change your APRS heading...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

873. Re: [APRSSIG:7728] Re: Garmin GPS II

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Dec 1996 10:54:07 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <Pine.GSO.3.95.961226105347.6296F-100000@arctic>
Rendered body type: text/plain

I also did a larger map of the whole penninsula

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

874. Re: [APRSSIG:7733] 40 Meters report

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 26 Dec 1996 11:00:00 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961226105725.6296I-100000@arctic>
Rendered body type: text/plain

On Thu, 26 Dec 1996, jud wrote:

> I tuned up Christmas to 40 Meters 7085.0 LSB for a couple of hours. I
> received the following stations here in Norfolk, VA direct.

APRSdos REPLY/COMMENT: My concern for now is the QRM or long term probabilities.... RIght now, it seems prety quiet. I have a commercial rig here I hope to use as soon as I get an antenna up. I may have to ask everyone to tune to me at that time, since the commercial rig only tunes in 1 KHz increments and since I use 1700 Hz tones on the old KAM, you guys may have to tune a little. But it will take me a while,.... so rest easy...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

875. Re: [APRSSIG:7734] Compass input for RDF

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Thu, 26 Dec 1996 11:03:24 -0600
To: aprssig@tapr.org
Message-ID: <32C2AFDC.426A@cedar.net>
Rendered body type: text/plain

Keith Sproul wrote:

> MacAPRS/WinAPRS currently use the GPS heading (or any other NMEA device that
> has heading information in it)
>
> I am getting an Electronic Compass loaned to me and will get the software to
> work with that too.
>
> I have also been told about a 'cheap' electronic compass available from
> someplace (DigiKey I think)..   When things calm down a little I am going to
> see about buying one of these and making it work too.
>
> Keith
>
> Keith Sproul   Ham Radio: WU2Z
> Student Housing Network Coordinator   ksproul@noc.rutgers.edu
> Rutgers University Computing Services   908 445-3695 Work 908 445-2968 Fax
> http://www-ns.rutgers.edu/~ksproul/   908 821-4828 Home

I have a PNI compass I could send you. This is one of their OEM products, same as Jameco sells.. BTW: I'm the guy who talked them into the raw output mode. They were only going to provide "cooked" data, but I convinced them that the raw would be useful in non-standard applications, like sensing the in-flight orientation of a rocket. (North dosen't move). It's a neat little board, about 1 1/4" by 1 1/2" with a TTL SPI interface. It could be talked to by using handshake lines to run the SPI protocol, or off the paralell port. I'd opt for the paralell port, as the serial side is getting a BIT crowded.

876. Re: [APRSSIG:7725] Re: Compass input

From: "Mark D. Fellhauer" <sparkfel@primenet.com>
Date: Thu, 26 Dec 1996 09:12:03 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <1.5.4.16.19961226091155.25ff16ac@mailhost.primenet.com>
Rendered body type: text/plain

At 12:45 AM 12/26/96 -0600, Dave VanHorn wrote:

>How does that happen? If your positions are in error, then your derived

>headings are in error as well.

Someone else here already pointed out that GPS uses a different method to
compute bearing than it does to compute location. There are many FAQ Files
on GPS that can explain it far better then I can.

>
>> GPS is certainly as accurate as any "hall effect" sensor compass
>> available.
>
>Maybe this is nitpicking, but NOBODY would use hall effect for a serious
>compass, it's way too numb and noisy. The compasses from Radio Shack
>are flux gates (a toroid which is saturated with the earth's flux either
>adding or subtracting from the applied field) or the PNI type which is
>something similar but different, developed by the US Army.

Well yes, but Flux Gate compasses work on basically the same principle, and
most FG devices available to the general public (and affordable) are no more
accurate than your GPS for bearing.

>1: Who figures out the vehicle's heading? APRS, or the GPS unit?

I would assume the GPS.

>
>2: What is the accuracy of that heading data, assuming that I may stop,
>turn, or back up at any moment?

Most GPS's lag by at least a few seconds in bearing data, but accuracy above
about two MPH should be better than + or - 5 degrees.

Mark
KC7BXS

---

877. Windows 3.1 Operation of WinAPRS

From: ARusnak@aol.com
Date: Thu, 26 Dec 1996 11:18:48 -0500
To: aprssig@tapr.org
Message-ID: <961226111847_576367568@emout10.mail.aol.com>
Rendered body type: text/plain

I tried to use WAPRS118 on Windows 3.1. It did not work, i.e. would not
start. I did "unzip" it without any difficulties. In reading the
documenation, it states that you need to download Win32s to have this program
work on Windows 3.1. I went through some of the TAPR directories, but could
not find Win32s.
Can someone point me to this file and will this really allow me to work on
Windows 3.1?

Thanks
Al

---

878. Re: [APRSSIG:7742] Re: Compass input

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Thu, 26 Dec 1996 11:17:56 -0600
To: aprssig@tapr.org
Message-ID: <32C2B344.5F29@cedar.net>
Rendered body type: text/plain

> > > I rarely see more than 0.5 degree swings of the heading. The bigger

Without anybody directly saying so, I'm getting the impression that the
50'
error is the far end of the curve, and that the typical error is much
less.

> APRSdos when you are in DF mode, will only use the vehicle GPS HEADING
> info while the vehicle is above 4 MPH. So users simply remember when they
> cruise to a stop is to NOT turn the vehicle below that speed, IE, pull to
> the side of the road maintaining the same heading as before. If you DO
> turn your heading, simply note what it was, and MANUALLY use the
> INPUT-MY-HEADING command to type in your estimate of your new heading.
>
> This 4 MPH threshold assures that while you sit there, that the wandering
> GPS headings will NOT change your APRS heading...

Makes sense. Apparently the typical error is less than a couple of feet then?
4 MPH works out to 5.8 FPS, so I'd presume that the typical error is less than
a foot in order to get a somewhat accurate heading at that speed. You understand
why I was worried? +/- 50' errors at 6 FPS would make my heading somewhat less
certain than the exact position and velocity of an electron!

Schrodinger's Foxhunter! He's probably here, but if you look, he might not be!

---

879. Re: [APRSSIG:7733] 40 Meters report

From: Paul Stump <n0lrf@amsat.org>
Date: Thu, 26 Dec 1996 10:26:58 -0600
To: aprssig@tapr.org
Message-ID: <32C2A752.F32@amsat.org>
Rendered body type: text/plain

jud wrote:
>
> I tuned up Christmas to 40 Meters 7085.0 LSB for a couple of hours. I
> received the following stations here in Norfolk, VA direct.
>   WA4HEI
>   N0LRF
>   N2JR
>   WB4LTF
>   VA3MW

Thanks, Jud.

73, Paul, n0lrf@amsat.org

---

880. Re: [APRSSIG:7746] Re: Compass input

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Thu, 26 Dec 1996 11:35:21 -0600
To: aprssig@tapr.org
Message-ID: <32C2B759.6732@cedar.net>
Rendered body type: text/plain

> Someone else here already pointed out that GPS uses a different method to
> compute bearing than it does to compute location. There are many FAQ Files
> on GPS that can explain it far better then I can.

Tell me about it! I'm still wading through them! I can't complain about
under-documentation..

> >Maybe this is nitpicking, but NOBODY would use hall effect for a serious
> >compass, it's way too numb and noisy. The compasses from Radio Shack
> >are flux gates (a toroid which is saturated with the earth's flux either
> >adding or subtracting from the applied field) or the PNI type which is
> >something similar but different, developed by the US Army.
>
> Well yes, but Flux Gate compasses work on basically the same principle, and
> most FG devices available to the general public (and affordable) are no more
> accurate than your GPS for bearing.

The hall effect is a measurement of the deflection of moving charges by the
magnetic field, as they cross through a large block of semiconductor.
Current is passed through the semiconductor in the X axis, and pickups on
the Y axis supply electrons or take electrons depending on the strength
of the applied field. The bulk material has to be really pure, and the total
effect is quite small, so it's an error-prone process. Also, you need at
least two sensors to make a compass, and you now have to match two devices..
All in all, hall effect is best suited to detecting fields of many gauss.

In the flux gate, you ramp up the current and watch the exact point where
the core saturates. This is directly affected by the applied external field.
The earth's field gives you a contribution of .5 A/Turn, so with a

material
that saturates easily, this becomes a rather large effect.

The basic accuracy of the flux gate depends on the material in the
toroid
core being uniform, and the pickup winding being laid down uniformly.
Being macro-scale, they are easier to control, and the compass can also
measure it's own non-linearities and calibrate them out.

With the flux gate, the major error is local variations caused by iron.
Bridges and overpasses are especially problematic. Even your car's field
can be calibrated out of the readings, but you do need to re-cal often.

881. Re: [APRSSIG:7737] To Bob and the Bros Sproul

From: "Kent Hufford" <khufford@erols.com>
Date: Thu, 26 Dec 1996 12:41:30 -0500
To: <aprssig@tapr.org>
Message-ID: <199612261735.MAA26766@smtp1.erols.com>
Rendered body type: text/plain

"APRS one of the most dynamic areas within Amateur Radio!"

THE ONLY dynamic area of amateur radio!!

> From: BordingK@aol.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:7737] To Bob and the Bros Sproul
> Date: Thursday, December 26, 1996 10:18 AM
>
> Many thanks to Bob and Keith and Mark Sproul for the great improvements
to
> both APRSDos and WinAPRS this past year. And the effort to fix the minor
> WinAPRS wx bug over the Christmas holiday was above and beyond the call
of
> duty!
>
> Your collective efforts have made APRS one of the most dynamic areas
within
> Amateur Radio! Thanks again.
>
> de KF4COH
> Ken in Jax, FL
>

882. Delorme Tripmate

From: bob <w2g3zfj@unix.asb.com>
Date: Thu, 26 Dec 1996 13:31:30 -0500
To: aprssig@tapr.org
Message-ID: <32C2C482.6BDC@unix.asb.com>
Rendered body type: text/plain

Hi Folks

Just to let you know that CompUSA have Delorme Tripmates on sale at
$159.99 less 20%=$127.99. Can't complain at that price so I just bought
one.

73 de bob w2/g3zfj

883. Where is Win32

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 26 Dec 1996 12:51:30 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aee872129e24@[199.1.11.114]>
Rendered body type: text/plain

>Downloaded the waprs118.zip file and unziped. In the documentation is says
>you need win32s if you are going to run under Win 3.1. Where can I find
>Win32s?
>
>Thanks

Just a shot in the dark but how about www.microsoft.com
I think the full docs give a complete appress.

I got win32 installed on my Mac by loading the Dos StreetAtlas3 or SA4
install program. There is even a test program to check for complete

install of Win32

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

884. Re: [APRSSIG:7709] Re: Dos APRS manual

From: Mark Sproul <sproul@ap.org>
Date: Thu, 26 Dec 1996 13:47:07 -0500
To: aprssig@tapr.org
Message-ID: <v03007809aee877eaef45@[165.1.27.20]>
Rendered body type: text/plain

```
>>Why not just upload it  to the Internet somewhere so everyone
>>can have it!
>>Sounds fair to me, anyone else think so ?
>
>


The ENTIRE dosAPRS documentation is online at

        http://aprs.rutgers.edu/

The docs are formated with a html TABLE of contents accessing each of the
read me files.  This works quite well, the only thing there is no index.  I
also have it so you can download the ENTIRE HTML docs in ZIP form so you
can install it locally and access it via any Web brouse OFF-LINE.  This
includes all of the dosAPRS docs and the Mac/WinAPRS docs.  The dos docs
are updated to 7.7


Mark




__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

885. Re: [APRSSIG:7741] Re: WinAPRS Version 1.1.8

From: Mark Sproul <sproul@ap.org>
Date: Thu, 26 Dec 1996 13:49:50 -0500
To: aprssig@tapr.org
Message-ID: <v0300780aaee878fc2f93@[165.1.27.20]>
Rendered body type: text/plain

```
>Downloaded the waprs118.zip file and unziped.  In the documentation is says
>you need win32s if you are going to run under Win 3.1.  Where can I find
>Win32s?
>
>Thanks



From my docs at

        http://aprs.rutgers.edu/

Refer to our Win32S documentation for installation instructions:

       Installing Win32S for Windows 3.1 and 3.11

       The files can be downloaded from
       Win32s for the Microsoft Windows 3.1x Operating System
       http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/win32s.htm




-----------


                   Installing Win32S for Windows 3.1
```

Instructions for Installing Win32S on Windows 3.1 and 3.11

This documentation was put together by Arthur Martin, N2QAE, and is included with the WinAPRS documentation with his permission. His original notes have been updated and modified slightly.

Just some of my experiences in getting prepared to run MacAPRS compiled for Windows 3.x Source of the WIN32s is the file OLE32s13.EXE. You can try to download it from

Win32s for the Microsoft Windows 3.1x Operating System
http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/win32s.htm

If you need more help, refer to this more involved description

Installing Win32s
http://www.ncsa.uiuc.edu/SDG/Software/WinMosaic/win32s.htm

Follow these steps to install Win32S.

1. download OLE32S13.EXE from the www site shown above

2. make a DOS directory (I named it WIN32s) off the root "drive_letter:\WIN32S"

3. copy in the OLE32S13.EXE into that directory

4. Make sure you are in WIN32S directory

5. Execute the self-extracting archive (2.5 Meg) "OLE32S13(return)". All the files in the archive will be left in the WIN32S directory. If you have a backup copy of OLE32S13.EXE stashed away then you can delet it from the WIN32S directory to free up some disk space.

6. Make sure that \DOS\SHARE.EXE is loaded in your CONFIG.SYS file. The Setup program checks for it and gets upset if it isn't running.

7. Start up your Windows 3.x

8. Bring up the Program Manager window

9. Select Run....

10. Type "drive_letter:\WIN32S\SETUP(return)" The Windows Setup program should run. Follow the prompts. Windows must reboot at the completion of Setup or you should do it manually.

11. Refer to the Installation section of the main documentation for WinAPRS™ installation and setup.

12. Then create the WinAPRS™ group and it will create the group window. Setup the WinAPRS™ program info. If you wish, use any icon in the list, but it will be replaced with a USA map icon when you close Program window.

13. Start by double clicking on the map icon. Since there isn't any printing support in the current versions while under windows, you may want to PRINT the docs out using MS-DOS beforehand.

14. You can now go back and DELETE the WIN32S directory that you created, you might want to keep the "OLE32S13.EXE" file around in case you need to re-do it someday, but the directory with all the expanded files is now just wasted disk space.

Beyond this description of what worked for me in Windows 3.1, I assume no reposibility for anything
you do. May it be a useful tool if you get stuck.

Worked for me... not guarenteed, but should be a help. GOOD LUCK!

73 de Art - N2QAE

last updated 7/9/96

Back to APRS home page

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

---

886. Re: [APRSSIG:7752] Delorme Tripmate

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Thu, 26 Dec 1996 11:20:04 -0800 (PST)
To: bob <w2g3zfj@unix.asb.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961226111705.6444E-100000@oso.slonet.org>
Rendered body type: text/plain

Bob, is the map program (street atlas 4.0), also included for that price?
Cliff K7RR

On Thu, 26 Dec 1996, bob wrote:

> Hi Folks
>
> Just to let you know that CompUSA have Delorme Tripmates on sale at
> $159.99 less 20%=$127.99. Can't complain at that price so I just bought
> one.
>
> 73 de bob w2/g3zfj
>
>

---

887. Re: [APRSSIG:7741] Re: WinAPRS Version 1.1.8

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Thu, 26 Dec 1996 13:47:11 -0800
To: aprssig@tapr.org
Message-ID: <32C2F25F.1440@cjnetworks.com>
Rendered body type: text/plain

ARusnak@aol.com wrote:
>
> Downloaded the waprs118.zip file and unziped. In the documentation is says
> you need win32s if you are going to run under Win 3.1. Where can I find
> Win32s?
>
> Thanks
Go to www microsoft.com and browse. Somewhere at their site, is an area
called free software. At least that is where I got mine...
Let me know if you can not find it there, and I can attach a copy back
to you...
CUL 73 De AA0MM Ross

---

888. Re: [APRSSIG:7747] Windows 3.1 Operation of WinAPRS

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Thu, 26 Dec 1996 13:51:40 -0800
To: aprssig@tapr.org
Message-ID: <32C2F36C.56E2@cjnetworks.com>
Rendered body type: text/plain

ARusnak@aol.com wrote:
>
> I tried to use WAPRS118 on Windows 3.1. It did not work, i.e. would not
> start. I did "unzip" it without any difficulties. In reading the
> documenation, it states that you need to download Win32s to have this program
> work on Windows 3.1. I went through some of the TAPR directories, but could
> not find Win32s.
> Can someone point me to this file and will this really allow me to work on
> Windows 3.1?

```
>
> Thanks
> Al
        Yes, it will allow you to use winaprs... Once you get the Win32S
program, you just run SETUP, and it will install it under your
Windows\System Directory, in a W32S subdirectory.
        Once installed, just start up Winaprs, and it will go OK.
(From your last note, find Win32S at Microsoft.com)
CUL De Ross
```

---

889. Re: [APRSSIG:7753] Where is Win32

From: BordingK@aol.com
Date: Thu, 26 Dec 1996 15:25:49 -0500
To: aprssig@tapr.org
Message-ID: <961226152548_1788834650@emout11.mail.aol.com>
Rendered body type: text/plain

```
While we're on the topic of WIN32s:

I had Win 3.1 on my laptop, upgraded(?) to Win95 a few weeks ago.  Attempted
to install Delorme Street Atlas 4.0 for use with a Tripmate. Got the
following errors:

Microsoft Visual C++ Runtime Library
MSVCRT40.DLL for Win32s
Error:  This version of MSVCRT40.DLL is only intended for Win32s

and

Error Starting Program
The MSVCRT40.DLL file cannot start.  Check the file to determine the problem.

Anyone know a fix for this before I spend hours digging thru Microsoft's Home
Page?

Thanks in Advance

de KF4COH
Ken in Jax, FL
```

---

890. Re: [APRSSIG:7756] Re: Delorme Tripmate

From: bob <w2g3zfj@unix.asb.com>
Date: Thu, 26 Dec 1996 16:15:28 -0500
To: aprssig@tapr.org
Message-ID: <32C2EAF0.6BF2@unix.asb.com>
Rendered body type: text/plain

```
Hi Cliff and everyone

Yes, it includes the StreetAtlas USA ver4.0 with it. I just installed it
and it looks great. I took the Tripmate into the car and initialised it
with the ASTRAL <CR><LF> sequence and it attained lock within 2 minutes.
Not bad performance! Impressed so far.

73 de bob w2/g3zfj


Clifford Buttschardt wrote:
>
> Bob, is the map program (street atlas 4.0), also included for that price?
> Cliff K7RR
>
> On Thu, 26 Dec 1996, bob wrote:
>
> > Hi Folks
> >
> > Just to let you know that CompUSA have Delorme Tripmates on sale at
> > $159.99 less 20%=$127.99. Can't complain at that price so I just bought
> > one.
> >
> > 73 de bob w2/g3zfj
> >
> >
```

---

891. Adaptive tracker program

From: bob <w2g3zfj@unix.asb.com>
Date: Thu, 26 Dec 1996 16:22:33 -0500
To: aprssig@tapr.org

Message-ID: <32C2EC99.7227@unix.asb.com>
Rendered body type: text/plain

Hi folks

Just uploaded the latest version of my adaptive tracker program with (hopefully) all of the bugs removed, to my website http://www.asb.com/usr/w2g3zfj/aprs1.htm

The previous version worked but I had to include a counter to prevent re-initialising the tnc when the GPS lost lock momentarily. Now works great, I leave it on most of the time, when I'm moving it outputs about 1/min and when I'm stopped it drops to once every 15 mins.

Let me know if you find it useful

73 de bob w2/g3zfj

---

892. WIN32s for WINAPRS After WIN95 Upgrade?

From: BordingK@aol.com
Date: Thu, 26 Dec 1996 16:55:30 -0500
To: aprssig@tapr.org
Message-ID: <961226165529_1457409679@emout08.mail.aol.com>
Rendered body type: text/plain

While we're on the topic of WIN32s:

I had Win 3.1 on my laptop, upgraded(?) to Win95 a few weeks ago. Attempted to install Delorme Street Atlas 4.0 for use with a Tripmate. Got the following errors:

"Microsoft Visual C++ Runtime Library
MSVCRT40.DLL for Win32s
Error: This version of MSVCRT40.DLL is only intended for Win32s"

and

"Error Starting Program
The MSVCRT40.DLL file cannot start. Check the file to determine the problem".

Anyone know a fix for this before I spend hours digging thru Microsoft's Home Page?

WIN32s is not needed in WIN95, right? So why is this message popping up and blocking loading of SA4.0 and some other programs?

Thanks in Advance

de KF4COH
Ken in Jax, FL

----------------------- Headers ------------------

---

893. Re: [APRSSIG:7736] Re: KPC-3 / Mac aprs interface

From: dkaszubski@why.net (dkaszubski)
Date: Thu, 26 Dec 1996 17:02:44 -0800
To: aprssig@tapr.org
Message-ID: <32C32034.4757@why.net>
Rendered body type: text/plain

Jim Duncan wrote:
>>and 20. I do know that you must make sure pin 25 is not connected on a
>>KAM because its +12 V and it will fry your computer.
> NOT TRUE!!! The 12 volts is ONLY present IF the user makes a modification
> to the unit. They do NOT come from the manufacturer with pin 25 connected!
> The pin-25 mods are included in the manual for user reference...
>
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> EMail: ku0g@kcaprs.com
> EMail: ku0g@sprynet.com

Sorry to jump in here Jim, but I'm afraid your wrong about this. The following quote is from the manual that came with my Version 5.0 KAM...
Pin 25 +12V. This is an alternate input pin for supplying power to the

TNC if desired. If the normal +12 VDC input jack is used, this pin will
be HOT. BE CERTAIN THIS PIN IS NOT CONNECTED TO YOUR COMPUTER.

Your statement is true for the KPC-3, the manual for it describes the
jumper required to power it from pin 25, or to get power out of the TNC
for other purposes if the normal 12 VDC input is used.(I supply power to
my Garmin 45 from the KPC-3 this way to eliminate another power wire.)
Please don't flame unless you are certain of the facts. TNC's are all a
little different, and my statement only applies to older KAM's. If the
KAM Plus requires a jumper mod like the KPC-3, that's a different story.

--
Dave Kaszubski   WB3FYV
dkaszubski@why.net   also: ustuia6v@ibmmail.com
Benbrook, Texas N 32 40.319'   W 097 26.844'
Texas Utilities Amateur Radio Club

Still experimenting with APRS...
http://users.why.net/dkaszubski/

---

894. Weather Station Compatability

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Thu, 26 Dec 1996 18:09:59 -500
To: aprssig@tapr.org
Message-ID: <B0000126880@eagnet.com>
Rendered body type: text/plain

I am curious to find out what weather staions are compatible with
APRS? I have been loking into them and am not sure what to get.
If there is information on this subject, just point me in the right
direction and I will go read it.

Thanks

Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548   n1nfc@hotmail.com
Ph:912-729-5287   n1nfc@aol.com
Data:912-729-6067   AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm

---

895. Re: [APRSSIG:7725] Re: Compass input

From: davidc@tbcnet.com (David Chesser)
Date: Thu, 26 Dec 1996 17:23:17 +0000
To: aprssig@tapr.org
Message-ID: <199612262323.RAA31780@tbc1.tbcnet.com>
Rendered body type: text/plain

>I think you assume too much.
>
>Could be, I'm new here, maybe I'm just paranoid.
>
>> Bearing reports via GPS are as accurate as
>> any other system as SA only affects position reports and not speed or
>> bearing, assuming you are moving more than about 2 mph.
>
>How does that happen? If your positions are in error, then your derived
>headings are in error as well.
>
>> GPS is certainly as accurate as any "hall effect" sensor compass
>> available.
>
>Maybe this is nitpicking, but NOBODY would use hall effect for a serious
>compass, it's way too numb and noisy. The compasses from Radio Shack
>are flux gates (a toroid which is saturated with the earth's flux either
>adding or subtracting from the applied field) or the PNI type which is
>something similar but different, developed by the US Army.
>
>The original models were done by Zemco in Taiwan, with an LCD display
>and internal flux gate. The radio shack units are a "low cost" version,
>with the flux gate remoted to the outside due to magnetic coupling
>between the gage and the flux gate. The original prototype oscillated
>wildly because the flux gate was placed within an inch of the gage.
>Seems the engineers doing the "low costing" weren't completely in
>sync with the technology :)
>
>In any case, there will be some minimum speed where the errors in
>the GPS position reports make heading information useless. This speed

>is greater than zero.
>
>> Of course, GPS bearing information isn't displayed unless you're
>> moving. In that case some form of direction reporting might be
>> disirable.
>
>That's the point. I often take bearings while stationary, and I may have
>turned sharply just before stopping, with a final motion of several feet
>per second. I stop wherever I can get a clean bearing or a spot that
>seems free of multipath. I'm worried that the reported bearing will be
>in error due to inaccuracies in the calculated heading. Huge obvious
>errors aren't a problem except for wasted time, but an error of say
>10 degrees would really cause steam since it would be believable.
>
>I wasn't even getting into SA, just a +/- 50' uncertanity between any
>pair of readings, and assuming a more or less gaussian distribution
>around zero. I understand under SA it's 100' error.
>
>What is concerning me is the effects of this uncertanity while moving at
>low speeds. In foxhunting, I am often trolling at <20 mph and changing
>direction rapidly. In order for this to work with APRS, it seems to me
>that you need to be able to get the vehicle's heading within a couple
>of seconds of a change. If your GPS updates are 1/second, then I think
>you need a minimum of three seconds to aquire a new heading. The error
>still applies to each position report, so what I picture is three
>overlapping circles, with my reported position at the center of the
>circles, and my actual position being anywhere within the three circles
>at the time of the report.
>
>Even after all that, I'm still in the dark as to how you relate the
>doppler bearing to the vehicle heading.
>
>1: Who figures out the vehicle's heading? APRS, or the GPS unit?
>
>2: What is the accuracy of that heading data, assuming that I may stop,
>turn, or back up at any moment?
>
>Typically, I get 15 seconds to take a bearing, with maybe half that time
>actually useful due to RX squelch and picket-fencing. Hunting a jammer
>might be more like 2-3 seconds.
>
>I see how this can work well if I'm flying down the freeway at 55,
>which is 80.6 FPS. The positions never overlap, and from one to the
>next, the error isn't too huge. If I'm at 10 mph, that's 14.6 FPS.
>The error in position is 50', so I could have a reported velocity
>from 114.6 FPS (78 MPH forward) to -85 FPS (57 MPH backward) between
>two positions. That assumes + or - 100% of the specified error
>applied in the direction of travel. The error will probably be from
>side to side as well, giving potentially about 80 degrees error in
>the reported heading between positions. If you use longer term
>averaging, then you risk not noticing a sharp turn till some time
>after it occured.
>
>Is the error typically MUCH less than 50' between reports? That would
>be very comforting!
>
>In any case, I'm assuming that heading data is derived from successive
>position reports. If I'm sitting still, or moving slowly enough that
>the error in position reports causes my heading data to have significant
>errors, then it seems to me that compass input would be the only way to
>get an accurate heading.
>
>Understand, I haven't come on-line with this mobile yet, I'm just in
>the "RTFM and see where the potholes might be" mode.
>
>Within a month I should be ready to take this mess mobile and see what
>I get. I just got the doppler online today, and still haven't dialled
>it in to exact zero yet. Not much activity on the local repeaters in
>the last couple of days :)

Get a Life!

---

896. Re: [APRSSIG:7738] TRIPMATE MAX SPEED?

From: davidc@tbcnet.com (David Chesser)
Date: Thu, 26 Dec 1996 17:29:54 +0000
To: aprssig@tapr.org
Message-ID: <199612262330.RAA31908@tbc1.tbcnet.com>

```
Rendered body type: text/plain
```

```
>Anyone experimented to determine of the tripmate has a maximum ground speed
>(99 knots?) like some of the other low cost, non-aeronautical GPS's?  I guess
>I could test it on I-10, but I'd rather not!
>
>
>de KF4COH
>Ken in Jax, FL

Just because Garmin has a speed restriction in there Marine products one
mustn't assume that every GPS manufacture does also. There is a world
outside of Garmin THINK!
```

897. Re: [APRSSIG:7765] Re: Compass input

```
From: Dave VanHorn <dvanhorn@cedar.net>
Date: Thu, 26 Dec 1996 18:45:29 -0600
To: aprssig@tapr.org
Message-ID: <32C31C29.2EC7@cedar.net>
Rendered body type: text/plain
```

```
> Get a Life!

You quote 80+ lines of text to a mailing list, and add this?

Get a life-form!
```

898. 10m APRS

```
From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Thu, 26 Dec 1996 19:46:12 PST
To: aprssig@tapr.org
Message-ID: <19961226.194637.5599.1.kf4xh@juno.com>
Rendered body type: text/plain
```

```
Anyone willing to work aprs on 29.29fm @ 1200baud?
Could be something to do with your 2510/2600 Uniden that is getting
little use.
Comments-
kf4xh@juno.com
```

899. 10m APRS

```
From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Thu, 26 Dec 1996 20:40:27 PST
To: aprssig@tapr.org
Message-ID: <19961226.204052.5599.0.kf4xh@juno.com>
Rendered body type: text/plain
```

```
Anyone willing to work aprs on 29.29fm @ 1200baud ?
Could be something to do with your  2510/2600 Uniden that is getting
little use.
Comments

kf4xh@juno.com
```

900. Re: [APRSSIG:7766] Re: TRIPMATE MAX SPEED?

```
From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 26 Dec 1996 17:57:38 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961226175737.294755a2@mailhost.primenet.com>
Rendered body type: text/plain
```

```
At 05:34 PM 12/26/96 -0600, David Chesser wrote:

>Just because Garmin has a speed restriction in there Marine products one
>mustn't assume that every GPS manufacture does also. There is a world
>outside of Garmin THINK!
>

Well, that doesn't answer the question.  It could be highly possible that
Delorme puts in a speed restriction also.  Anyway, it's a valid question.
To quote you...THINK!

Mark Fellhauer
KC7BXS
```

901. Re: [APRSSIG:7764] Weather Station Compatability

```
From: schiers@ames.net
Date: Thu, 26 Dec 96 18:55:40 -0500
```

To: aprssig@tapr.org
Message-ID: <199612270105.TAA07967@brain.ames.net>
Rendered body type: text/plain

```
In <B0000126880@eagnet.com>, on 12/26/96 at 05:18 PM,
   "Bill Carreira Jr." <n1nfc@eagnet.com> said:

>I am curious to find out what weather staions are compatible with  APRS?
>I have been loking into them and am not sure what to get. If there is
>information on this subject, just point me in the right  direction and I
>will go read it.

>Thanks


>Bill Carreira Jr.   Email:n1nfc@eagnet.com

In the docs to both dosAPRS and WinAPRS, there is info on
the weather stations that are compatible. Both programs
are available from www.tapr.org, if you go down a few levels.

In our area, Peet Brothers is king. We have about 10 of them
around here and everyone is well pleased. The U-2000 is superb. I have two
U-II's and a U-2000 and am happy with all of them.

I have had some problems with peripherals, like temp sensors  going bad
and a bad temp/humidity sensor, but the wind, rain  peripherals have been
great.

Customer support is FANTASTIC. I have worked directly with Bill Peet as
well as Mr. Stuart and they have been very helpful, understanding and
fair, not to mention competent.

The basic unit has never been a problem, whether U-II or
U-2000 and now, of course they have an intermediate model
called the U-500. I don't know anything about it.

The U-2000's nicest feature in my mind is what appears to be a very
accurate barometeric pressure sensor built into the main unit. I find it
tracks within 1 mb of NWS, which is 18 miles  from me.

WinAPRS supports the U-2000 perfectly. In fact, the latest
release has one of the most clever, informative and clean
presentations of weather info I have ever seen. (Version
1.1.9 on tapr). Many people have reported success with dosAPRS and the
U-2000, but sad to day, I'm not one of them. I have tried 3 different
motherboards and all of them cause dosAPRS to generate a com port overflow
message. I am not alone in
this problem. It has something to do with qbasic's ability to do serial
port handling, and perhaps with high speed buffered uarts. Since the
problem has never been fixed, I am speculating at this point. Older,
slower motherboards appear to be LESS  likely to suffer the problems I am
describing with dosAPRS
and the U-2000. Hopefully someone else will see your query and give you
their take on the U-2000 with dosAPRS, and the
specific motherboards/serial ports they are using.

WinAPRS, on the other hand, is written in C and it's serial
port routines appear flawless. I have never had a serial port problem with
WinAPRS. The latest release of WinAPRS is a Xmas present from the Bros.
Sproul...1.1.9 came out yesterday.

Anyone who has the hardware capability and a wx station, owes it to
themselves to at least look at WinAPRS 1.1.9...you will be amazed....and
the drift I get from Mark and Keith is that this is just the beginning as
far as charts et al go.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

902. Re: [APRSSIG:7763] Re: KPC-3 / Mac aprs interface

From: schiers@ames.net
Date: Thu, 26 Dec 96 19:08:43 -0500
To: aprssig@tapr.org
Message-ID: <199612270111.TAA08006@brain.ames.net>

Rendered body type: text/plain

```
In <32C32034.4757@why.net>, on 12/26/96 at 05:10 PM,
   dkaszubski@why.net (dkaszubski) said:

>TNC's are all a
>little different, and my statement only applies to older KAM's.  If the
>KAM Plus requires a jumper mod like the KPC-3, that's a different story.

This seems like a REALLY important point. If there are tnc's out there, by
factory default that will destroy an RS-232 port by simply plugging what
is supposed to be an RS232 compliant device into it...we have a big
problem.

I would appreciate feedback about this...manufacturer's warning aside, it
makes no sense to put out a device allegedly rs232 compliant with a
voltage on it that can damage an rs232 port...or am I the only one that
thinks this is borderline nuts? Or...are all the "facts" really in dispute
and Kantronics is being smeared by our speculation? If so, my apologies up
front.

73,

hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

903. 10m APRS

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Thu, 26 Dec 1996 21:16:12 PST
To: aprssig@tapr.org
Message-ID: <19961226.211626.5599.1.kf4xh@juno.com>
Rendered body type: text/plain

```
Anyone willing to work aprs on 29.29fm @1200baud?
Could be something to do with a 2510/2600 Uniden that is getting little
use.
Comments-
kf4xh@juno.com
```

904. Re: [APRSSIG:7770] Re: TRIPMATE MAX SPEED?

From: schiers@ames.net
Date: Thu, 26 Dec 96 19:14:29 -0500
To: aprssig@tapr.org
Message-ID: <199612270118.TAA08063@brain.ames.net>
Rendered body type: text/plain

```
In <3.0.16.19961226175737.294755a2@mailhost.primenet.com>, on 12/26/96 at
07:03 PM,
   Mark Fellhauer <sparkfel@primenet.com> said:

>To quote you...THINK!

Is it just the holiday season, or is there something in the water? Sniping
sarcasm, put downs, mischaracterizing the posts of others, assigning the
worst possible motives to someone else's posts,  hammering newbies for
their errant subscribe messages....

Is the entire sig suffering from old fart's disease? (And before the
politically correct among us accuse me of age discrimination, ...lighten
up...I'm from the sixties and anyone over 30 qualifies as an old
fart...esp if ill-tempered and prone to put the worst possible light on
everyone but themselves)

How 'bout we dial it back a bit...

"season's greetings"....the irony is not lost on me!


hasan schiers, N0AN
-----------------------------------------------------------
schiers@ames.net
-----------------------------------------------------------
```

905. GPS II Questions

From: n2xdd@juno.com (ed j wilson)
Date: Thu, 26 Dec 1996 20:52:43 PST

To: aprssig@tapr.org
Message-ID: <19961226.205246.12150.0.N2XDD@juno.com>
Rendered body type: text/plain

```
Hello to all hope that those celebrating Christmas, had an enjoyable one!

I got My First GPS unit (Garmin GPS II w/ V2.05 Software). I have a
question regarding the proper cable for interfacing with my AEA PK-12.
Do I need the Power/Data Cable or the PC interface Cable?
Does anyone know of a mail order source for Garmin Accessories at a
reasonable cost?
 Do I need to use the AEA GPS/Packet single port connector or is there a
generic mode?


thanks in advance and 73 De Ed N2XDD
```

906. Re: [APRSSIG:7764] Weather Station Compatability

From: rbost@itexas.net (Roy Bost)
Date: Thu, 26 Dec 1996 19:54:51 -0600
To: <aprssig@tapr.org>
Message-ID: <19961227015618970.AAA117@rbost.itexas.net>
Rendered body type: text/plain

```
WinAprs is compatiable with at least the  following ( they're listed in the
setup menu):
        Peet Bros. Ultimeter-2
        Peet Bros. U-2000
        Heathkit 5001
        Davis Insturments
The new Peet Bros. U-500 will probably work but don't quote me on that.

Roy Bost, N5TAM
Granbury, Tx.
rbost@itexas.net
32 25' 33"N   97 48' 59"W
```

907. Re: [APRSSIG:7774] Re: TRIPMATE MAX SPEED?

From: Paul Stump <n0lrf@amsat.org>
Date: Thu, 26 Dec 1996 20:08:58 -0800
To: aprssig@tapr.org
Message-ID: <32C34BDA.6FAC@amsat.org>
Rendered body type: text/plain

```
schiers@ames.net wrote:

> How 'bout we dial it back a bit...

I second that notion! Don't forget it only takes
a few seconds to highlight & delete irrelevant text,
too.

Thanks, neighbor Hasan...

--
73, Paul, n0lrf@amsat.org
```

908. Re: [APRSSIG:7771] Re: Weather Station Compatability

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 26 Dec 1996 20:11:30 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961227021130.006d9b04@tbcnet.com>
Rendered body type: text/plain

```
At 19:10 12/26/96 -0600, you wrote:

>I have had some problems with peripherals, like temp sensors  going bad
>and a bad temp/humidity sensor, but the wind, rain  peripherals have been
>great.
>
>

I, too, have had difficulties with the Peet temp sensors.  Out of 3, 1 read
5-8 deg high.  But also it was rather mistreated.  The faultly sensor was
left out in direct rain, against what Peet recommends.  Also, it spent some
time buried in a snow bank, which resulted in some very strange temp
readings.  The one out at the WIDE (WA9CJN-15) is in a small sheltered
container, away from the afternoon sun (which will always result in a temp
increase if exposed).  So far, it's staying within 1 deg of the other
```

reporting stations. If I get other outside temp sensors, they'll get the
same protection. The two sensors that read accurately were protected.

Otherwise, if the WX.txt in APRSdos/Readme is followed, especially when it
comes to the serial port line connection, the U-II works fine.

Remember, if using the dos version, the WX option (extra $) is required.

jbl

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

909. 40m Report...

From: Paul Stump <n0lrf@amsat.org>
Date: Thu, 26 Dec 1996 20:14:38 -0800
To: aprssig@tapr.org
Message-ID: <32C34D2E.3092@amsat.org>
Rendered body type: text/plain

Da_n good day on 7.085.00 LSB:

K7PW
KS4NY
WA4MEJ
N2JR
KA3NVP
KO4TT
WY8O
K1TRS
W1GTT
W9JC
VA3MW
VA3PRG
VE3VRW
VA3MER
WA4HEI
KT4DD
K7PW

All this wildlife, seen from the woods of Eastern
Kansas.

Cya,
--
73, Paul, n0lrf@amsat.org

910. Re: [APRSSIG:7774] Re: TRIPMATE MAX SPEED?

From: "Steve Dubois" <steved@vianet.on.ca>
Date: Thu, 26 Dec 1996 21:24:14 +0000
To: aprssig@tapr.org
Message-ID: <199612270221.VAA05930@vianet.on.ca>
Rendered body type: text/plain

Date: Thu, 26 Dec 1996 19:28:38 -0600 (CST)
Reply-to: aprssig@tapr.org
From: schiers@ames.net
To: aprssig@tapr.org
Subject: [APRSSIG:7774] Re: TRIPMATE MAX SPEED?

In <3.0.16.19961226175737.294755a2@mailhost.primenet.com>, on 12/26/96 at
07:03 PM,
   Mark Fellhauer <sparkfel@primenet.com> said:

>To quote you...THINK!

Is it just the holiday season, or is there something in the water? Sniping
sarcasm, put downs, mischaracterizing the posts of others, assigning the
worst possible motives to someone else's posts, hammering newbies for
their errant subscribe messages....

Is the entire sig suffering from old fart's disease? (And before the
politically correct among us accuse me of age discrimination, ...lighten
up...I'm from the sixties and anyone over 30 qualifies as an old
fart...esp if ill-tempered and prone to put the worst possible light on

everyone but themselves)

How 'bout we dial it back a bit...

"season's greetings"....the irony is not lost on me!

hasan schiers, N0AN
----
schiers@ames.net

AMEN!!

Stephen Dubois VA3HOI FN05IE,
CANWARN SPOTTER ENVIRONMENT CANADA,
WEATHER SPOTTER ENVIRONMENT CANADA,
SAREX,APRS,WinAPRS,
steved@vianet.on.ca

---

911. Re: [APRSSIG:7771] Re: Weather Station Compatability

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Thu, 26 Dec 1996 20:42:11 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961227024211.006b7230@tbcnet.com>
Rendered body type: text/plain

BTW, to find out how accurate your temp sensor is, you may wish to try this:

1.   Take a large glass, and fill it all the way to the top with ice.
2.   Put in just enough cold water to fill the spaces between the ice cubes.
3.   Quickly, put the sensor into the ice/water mixture. Almost immediately the temp will start to rise to whatever the ambient room temp is, as the ice melts.
4.   The temp should read 32 deg +/- 1 deg.

jbl

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

---

912. Re: [APRSSIG:7771] Re: Weather Station Compatability

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Thu, 26 Dec 1996 22:17:22 -0500
To: aprssig@tapr.org
Message-ID: <B0000127281@eagnet.com>
Rendered body type: text/plain

```
> Date:          Thu, 26 Dec 1996 19:10:33 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          schiers@ames.net
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:7771] Re: Weather Station Compatability

> In <B0000126880@eagnet.com>, on 12/26/96 at 05:18 PM,
>    "Bill Carreira Jr." <n1nfc@eagnet.com> said:
>
> >I am curious to find out what weather staions are compatible with  APRS?
> >I have been loking into them and am not sure what to get. If there is
> >information on this subject, just point me in the right  direction and I
> >will go read it.
>
> >Thanks
>
>
> >Bill Carreira Jr.   Email:n1nfc@eagnet.com
>
> In the docs to both dosAPRS and WinAPRS, there is info on
> the weather stations that are compatible. Both programs
> are available from www.tapr.org, if you go down a few levels.
>
> In our area, Peet Brothers is king. We have about 10 of them
> around here and everyone is well pleased. The U-2000 is superb. I have two
> U-II's and a U-2000 and am happy with all of them.
>
> I have had some problems with peripherals, like temp sensors  going bad
```

> and a bad temp/humidity sensor, but the wind, rain peripherals have been
> great.
>
> Customer support is FANTASTIC. I have worked directly with Bill Peet as
> well as Mr. Stuart and they have been very helpful, understanding and
> fair, not to mention competent.
>
> The basic unit has never been a problem, whether U-II or
> U-2000 and now, of course they have an intermediate model
> called the U-500. I don't know anything about it.
>
> The U-2000's nicest feature in my mind is what appears to be a very
> accurate barometeric pressure sensor built into the main unit. I find it
> tracks within 1 mb of NWS, which is 18 miles from me.
>
> WinAPRS supports the U-2000 perfectly. In fact, the latest
> release has one of the most clever, informative and clean
> presentations of weather info I have ever seen. (Version
> 1.1.9 on tapr). Many people have reported success with dosAPRS and the
> U-2000, but sad to day, I'm not one of them. I have tried 3 different
> motherboards and all of them cause dosAPRS to generate a com port overflow
> message. I am not alone in
> this problem. It has something to do with qbasic's ability to do serial
> port handling, and perhaps with high speed buffered uarts. Since the
> problem has never been fixed, I am speculating at this point. Older,
> slower motherboards appear to be LESS likely to suffer the problems I am
> describing with dosAPRS
> and the U-2000. Hopefully someone else will see your query and give you
> their take on the U-2000 with dosAPRS, and the
> specific motherboards/serial ports they are using.
>
> WinAPRS, on the other hand, is written in C and it's serial
> port routines appear flawless. I have never had a serial port problem with
> WinAPRS. The latest release of WinAPRS is a Xmas present from the Bros.
> Sproul...1.1.9 came out yesterday.
>
> Anyone who has the hardware capability and a wx station, owes it to
> themselves to at least look at WinAPRS 1.1.9...you will be amazed....and
> the drift I get from Mark and Keith is that this is just the beginning as
> far as charts et al go.
>
> 73,
>
> hasan schiers, N0AN
> ---
> schiers@ames.net
> ---
>
>

Thanks for the info!!

73 de

Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548   n1nfc@hotmail.com
Ph:912-729-5287   n1nfc@aol.com
Data:912-729-6067   AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm

913. Rose Parade Coverage

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Thu, 26 Dec 1996 23:24:16 EST
To: aprssig@tapr.org
Message-ID: <19961226.202248.6470.0.Hfigueroa@juno.com>
Rendered body type: text/plain

Howdy All, just a note about APRS being used for the Pasadena Rose Parade
Coverage. There is a write-up in the Road Trip America Internet Magazine
check it out at:

http://www.roadtripamerica.com/people/torra.htm

Happy Holidays all!

Hector M. Figueroa E-Mail Hfigueroa@juno.com
World Wide Web Page http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL

Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM

---

914. Re: [APRSSIG:7782] Re: Weather Station Compatability

From: "Jimmy Burkhalter" <kb5wio@fia.net>
Date: Thu, 26 Dec 1996 22:26:02 -0600
To: <aprssig@tapr.org>
Message-ID: <199612270425.UAA01198@kinsey.fia.net>
Rendered body type: text/plain

```
To anyone that downloaded 1.1.9 on the 25 need to redownload it to get a
corrected version with the labels files from dos working. Mark has this
problem fixed and back up on the sig.

Jimmy Burkhalter        Amarillo, Texas
KB5WIO
kb5wio@fia.net

----------
> > Anyone who has the hardware capability and a wx station, owes it to
> > themselves to at least look at WinAPRS 1.1.9...you will be
amazed....and
> > the drift I get from Mark and Keith is that this is just the beginning
as
> > far as charts et al go.
> >
> > 73,
> >
> > hasan schiers, N0AN
> > -------------------------------------------------------------
> > schiers@ames.net
> > -------------------------------------------------------------
>
```

---

915. Re: Snippy

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 26 Dec 1996 21:30:32 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <3.0.16.19961226213030.3827079e@mailhost.primenet.com>
Rendered body type: text/plain

```
At 07:28 PM 12/26/96 -0600, schiers@ames.net wrote:

>   Mark Fellhauer <sparkfel@primenet.com> said:
>
>>To quote you...THINK!
>
>Is it just the holiday season, or is there something in the water? Sniping
>sarcasm, put downs, mischaracterizing the posts of others, assigning the
>worst possible motives to someone else's posts,  hammering newbies for
>their errant subscribe messages....
>

I was merely responding to another person's uncalled for response.  I agree
that I stooped to their level, but someone has to point out that the
comment was uncalled for.  Questions on speed restrictions in regards to
the Tripmate are valid, IMHO.

My apologies to the SIG.

73,

Mark Fellhauer
```

---

916. Re: [APRSSIG:7781] Re: Weather Station Compatability

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 26 Dec 1996 23:06:52 -0600
To: aprssig@tapr.org
Message-ID: <v03007800aee905ef1852@[199.1.11.125]>
Rendered body type: text/plain

```
>3.      Quickly, put the sensor into the ice/water mixture.  Almost
>immediately the temp will start to rise to whatever the ambient room temp
>is, as the ice melts.

You never saw  " Watch Mr. Wizard " did you  ???

Or did you use plastic ice cubes  :-)
```

If you stir a glass of water and ice then the mixture will stay
near 32 deg F until all the ice melts.

Now MR. Wizard would do this with the glass over a Bunsen burner.

--- Mr Wizard never did a demo of APRS ---

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

917. More Mapmaking Questions

From: N2ZRC@gnn.com (Arte Booten)
Date: Fri, 27 Dec 1996 00:33:06
To: aprssig@tapr.org
Message-ID: <199612270533.AAA15827@mail-e2b.gnn.com>
Rendered body type: text/plain

Hi All,

Does anyone remember whether the recent versions (I'm using 7.7f) can handle maplists containing more than 159 active maps? I thought I remembered seeing someplace that The Bob'ser upped it to 170. If so, great. If not, well, I'm gonna have problems.

Also, does anybody know whether the "Mkmaplst" program has an upper limit to the number of maps in the directory? What is it, if there is?

Finally, just a reminder to all mapmakers using Mk100k3: When using the "S" option to make a special pattern of maps (other than one or four or nine in a square) remember to input the coordinates for the UPPER LEFT HAND CORNER of the maps you want, NOT the map center! I found this out the hard way, after having made 288 maps (16 at a time) and finding them all to be in the wrong place!

BTW, I'm using Mapfix28 to tidy them up. I, too, have found that I can not load anything that isn't already named "*.map," nor can I load it from anywhere but the default "\aprs\maps\" directory (all of mine are in one of the subdirectories I've made in the "DLG" folder.

Boy, I'm getting real tired of manually winnowing down those 3800-point maps down to size. Only forty more to go! A point at a time... 8-{(73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

918. Re: [APRSSIG:7773] 10m APRS

From: "David Michael Gaytko ***@*** WD4KPD/FM15mm/NC" <cn2859@coastalnet.com>
Date: Fri, 27 Dec 1996 00:50:32 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961227055032.0066301c@abaco.coastalnet.com>
Rendered body type: text/plain

At 19:20 26-12-96 -0600, you wrote:
>Anyone willing to work aprs on 29.29fm @1200baud?
>Could be something to do with a 2510/2600 Uniden that is getting little
>use.
>Comments-
>kf4xh@juno.com
>
>
>
hi, am in washington, nc. fm15mm surley would listen in, when?
david>

919. Re: [APRSSIG:7775] GPS II Questions

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 26 Dec 1996 23:51:41 -0600
To: aprssig@tapr.org
Message-ID: <v03007801aee90f6651a1@[199.1.11.119]>
Rendered body type: text/plain

>>I got My First GPS unit (Garmin GPS II w/ V2.05 Software). I have a
>question regarding the proper cable for interfacing with my AEA PK-12.
>Do I need the Power/Data Cable or the PC interface Cable?
>Does anyone know of a mail order source for Garmin Accessories at a
>reasonable cost?

you need this address
for Accessories and Software
ftp://sundae.triumf.ca/pub/peter/index.html

The Garmin GPS45 FAQ
ftp://sundae.triumf.ca/pub/peter/gps45faq.txt

The PC interface cable doesn't support external power
but you do get a 9-pin computer plug.

See a Marine boat store for standard prices.

I would pay the extra and get the Power/Data cable and build
the computer/TNC interface plug. For auto use wire in a Radio Shack
cigarette lighter plug (with an LED, so you can tell if it fall out)
Always use a fuse as the antenna plug is powered and could short if
using a different antenna.

>Do I need to use the AEA GPS/Packet single port connector or is there a
>generic mode?

See APRS dos text files for a generic.
There are three basic circuits floating around that are somewhat based on
Bob's original. Which ever one you use be prepared for a little tinkering.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

920. Re: [APRSSIG:7787] More Mapmaking Questions

From: Jim Duncan <ku0g@sprynet.com>
Date: Thu, 26 Dec 1996 22:29:15 -0800
To: aprssig@tapr.org
Message-ID: <199612270629.WAA17533@m1.sprynet.com>
Rendered body type: text/plain

At 23:35 12/26/96 -0600, you wrote:
>Hi All,
>
>   Does anyone remember whether the recent versions (I'm using 7.7f) can
>handle maplists containing more than 159 active maps? I thought I remem-
>bered seeing someplace that The Bob'ser upped it to 170. If so, great. If
>not, well, I'm gonna have problems.

I thought it was 175 but 170 sounds plausible....

>   Boy, I'm getting real tired of manually winnowing down those 3800-point
>maps down to size. Only forty more to go! A point at a time... 8-{(73

It's a REAL pain in the rear, isn't it!!!!
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

921. Re: Rose Parade Coverage

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 26 Dec 1996 23:31:26 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961226233127.2a0f773e@mailhost.primenet.com>
Rendered body type: text/plain

At 10:27 PM 12/26/96 -0600, Hector M Figueroa wrote:

>Howdy All, just a note about APRS being used for the Pasadena Rose Parade
>Coverage. There is a write-up in the Road Trip America Internet Magazine

Thanks for the info, as an ASU alum, I like to follow them. Last time they
went to the Rose Bowl I was just a Sophomore...

73,

Mark
KC7BXS

---

922. MCX Connector

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Thu, 26 Dec 1996 23:43:15 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961226234316.0e172de4@mailhost.primenet.com>
Rendered body type: text/plain

I know we've covered this before, but I wasn't paying attention, because it didn't apply to me.

For Christmas I received the Trimble GPS antenna offered by PacComm. I need to find an MCX to BNC adaptor, as I don't want to cut the plug off the cable. In the future, I plan to buy the GPS-20 engine, but for now I'd like to use the antenna with my Magellan Trailblazer XL.

Can someone please post a source for these adaptors again?

73 and thanks,

Mark
KC7BXS
sparkfel@primenet.com

---

923. MCX Connector

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 27 Dec 1996 00:01:10 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961227000109.0e17bcac@mailhost.primenet.com>
Rendered body type: text/plain

I know we've covered this before, but I wasn't paying attention, because it didn't apply to me.

For Christmas I received the Trimble GPS antenna offered by PacComm. I need to find an MCX to BNC adaptor, as I don't want to cut the plug off the cable. In the future, I plan to buy the GPS-20 engine, but for now I'd like to use the antenna with my Magellan Trailblazer XL.

Can someone please post a source for these adaptors again?

...Well, after looking at the GPS 20 specs, I see it too has a female connector, so disregard what I said. I'm now looking for a good way to put a BNC connector on this little coax. Assistance would be appreciated.

73,

Mark
KC7BXS
sparkfel@primenet.com

---

924. Re: [APRSSIG:7781] Re: Weather Station Compatability

From: Steve <sdimse@bridge.net>
Date: Fri, 27 Dec 96 02:18:29 -0500
To: <aprssig@tapr.org>
Message-ID: <199612270718.CAA28836@newworld.bridge.net>
Rendered body type: text/plain

>1.   Take a large glass, and fill it all the way to the top with ice.
>2.   Put in just enough cold water to fill the spaces between the ice
>cubes.
>3.   Quickly, put the sensor into the ice/water mixture. Almost
>immediately the temp will start to rise to whatever the ambient room temp
>is, as the ice melts.
>4.   The temp should read 32 deg +/- 1 deg.

I'd do it differently...

The equilibrium temperature of a distilled water/ice mixture is 32 degrees, and if you use a large enough amount of water/ice it will maintain that temp as long as there is ice. The system you describe is not in equilibrium, and the reading could be erratic...

```
I'd recommend getting a large plastic bowl, filling it half with ice and
half with water, and putting it in the fridge for a couple hours to let
it reach equilibrium, then putting the probe into the middle of the
mixture, still in the fridge to avoid convection currents.

Steve K4HG
```

925. Re: [APRSSIG:7763] Re: KPC-3 / Mac aprs interface

From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
Date: Fri, 27 Dec 1996 06:47:31 -0500
To: aprssig@tapr.org
Message-ID: <32C3B752.4CC0@co.pinellas.fl.us>
Rendered body type: text/plain

```
Thks fer jumpin in thar Dave n savin' my bacon.....

That's what my manual also says regards elusive pin 25 on a KAM.
--
************************************************************************
Kevin Heyboer                        E-Mail: kheyboer@co.pinellas.fl.us
Amateur Radio Call: KD4UYR           Packet Mail:KD4UYR@W4DPH.#TPA.FL.US
Coordinator, Pinellas (St. Petersburg/Clearwater) SKYWARN
Assistant Emergency Coordinator for Amateur Radio Emergency Service
************************************************************************
```

926. Re: [APRSSIG:7762] WIN32s for WINAPRS After WIN95 Upgrade?

From: "Larry P. Thomas WA0GWA" <lpthomas@winning-edge.com>
Date: Fri, 27 Dec 1996 06:26:30 -0600
To: aprssig@tapr.org
Message-ID: <2.2.32.19961227122630.00a4827c@winning-edge.com>
Rendered body type: text/plain

```
At 03:59 PM 12/26/96 -0600, you wrote:

I had a similar problem loading another application.  It involved the same
two files.  Best I could figure was that these files were not overwritten by
the new install and were patches anyway to allow the application to run on a
win 3.1 or 3.11 system.  I renamed the files and reinstalled the application
and everything was okay.

>While we're on the topic of WIN32s:
>
>I had Win 3.1 on my laptop, upgraded(?) to Win95 a few weeks ago.  Attempted
>to install Delorme Street Atlas 4.0 for use with a Tripmate. Got the
>following errors:
>

>MSVCRT40.DLL for Win32s
>Error:  This version of MSVCRT40.DLL is only intended for Win32s"

>The MSVCRT40.DLL file cannot start.  Check the file to determine the
>problem".
------------------------------------------------------------------------
 Larry P. Thomas wa0gwa              voice : 1 913 888-0282
 Krell Technologies                    fax : 1 913 782-9359
 8960 Bond                           pager : 1 816 989-HELP
 Overland Park, KS 66214-1764       e-mail : lpthomas@winning-edge.com
                                       www : http://www.krell.com
------------------------------------------------------------------------
```

927. Re: [APRSSIG:7794] Re: Weather Station Compatability

From: "John B. Leonard, Jr" <jleonard@tbcnet.com>
Date: Fri, 27 Dec 1996 06:53:09 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961227125309.006e2480@tbcnet.com>
Rendered body type: text/plain

```
At 01:22 12/27/96 -0600, you wrote:

yeah, i like steve's idea better than the MR wizard/bunsen burner method.
steve's got better credentials.

jbl


>I'd do it differently...
>
>The equilibrium temperature of a distilled water/ice mixture is 32
```

>degrees, and if you use a large enough amount of water/ice it will
>maintain that temp as long as there is ice. The system you describe is
>not in equilibrium, and the reading could be erratic...
>
>I'd recommend getting a large plastic bowl, filling it half with ice and
>half with water, and putting it in the fridge for a couple hours to let
>it reach equilibrium, then putting the probe into the middle of the
>mixture, still in the fridge to avoid convection currents.
>
>Steve K4HG
>

J Barry Leonard/N9VJQ DeKalb IL E-MAIL: jleonard@tbcnet.com
WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
American Red Cross Disaster Services - DeKalb Co Chapter

928. Re: [APRSSIG:7796] Re: WIN32s for WINAPRS After WIN95 Upgrade?

From: BordingK@aol.com
Date: Fri, 27 Dec 1996 08:29:13 -0500
To: aprssig@tapr.org
Message-ID: <961227082913_777891232@emout08.mail.aol.com>
Rendered body type: text/plain

Thats correct. According to the Microsoft Home Page Knowledge Base there's a
bug that causes the incorrect version (16 bit) of MSVCRT40.dll to be
installed rather than the 32 bit version for Win95. Thus some Visual C++
Programs install incorrectly in Win95. Article ID: Q154591 for anyone having
the same problem.

Thanks to all who responded with helpful suggestions.

de KF4COH
Ken in Jax

929. Re: [APRSSIG:7306] SiRF GPS chipset

From: xschramm@aol.com (Xschramm)
Date: Fri, 27 Dec 1996 09:39:18 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <19961227143900.JAA15560@ladder01.news.aol.com>
Rendered body type: text/plain

Do you know SiRF's address or phone?

Thank you,

Bert, WB6QCS

930. Re: [APRSSIG:7782] Re: Weather Station Compatability

From: Tommie Taylor <tomcmugs@n-link.com>
Date: Fri, 27 Dec 1996 08:50:56 -0800
To: aprssig@tapr.org
Message-ID: <32C3FE70.6FC7@n-link.com>
Rendered body type: text/plain

Bill Carreira Jr. wrote:
>
> > Date: Thu, 26 Dec 1996 19:10:33 -0600 (CST)
> > Reply-to: aprssig@tapr.org
> > From: schiers@ames.net
> > To: aprssig@tapr.org
> > Subject: [APRSSIG:7771] Re: Weather Station Compatability
>
> > In <B0000126880@eagnet.com>, on 12/26/96 at 05:18 PM,
> >   "Bill Carreira Jr." <n1nfc@eagnet.com> said:
> >
> > >I am curious to find out what weather staions are compatible with APRS?
I have a DAVIS Weather Wizard III its compatable to APRS..
--
A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
http://www.web2.com/cmugs/
Internet: tomcmugs@n-link.com / tomcmugs@juno.com
Phone: (512) 556-4691   This is also a FAX Request line

931. Re: [APRSSIG:7357] Re: Smallest gps-ant-tx..?

From: xschramm@aol.com (Xschramm)
Date: Fri, 27 Dec 1996 09:52:27 -0500 (EST)
To: aprssig@tapr.org

Message-ID: <19961227145200.JAA15783@ladder01.news.aol.com>
Rendered body type: text/plain

```
I would like to receive information on your company products.

Thank You,

Bert Schramm
NR Systems
```

---

932. Re: [APRSSIG:7782] Re: Weather Station Compatability

From: Les Blalock <lcb911@apex2000.net>
Date: Fri, 27 Dec 1996 09:18:32 -0600
To: aprssig@tapr.org
Message-ID: <1.5.4.16.19961227091943.107f9ee6@apex2000.net>
Rendered body type: text/plain

```
I've not had the "overflow" problems with the U-2000 and DOS APRS on an
AMD 486x4 100 /w 16550 uarts although I have had problems with com
ports while running WinAPRS (Winders 3.11).  Quiting/Restarting Winders also
brought them back, though.  Also, I run AutoWx (which was also written in
QuickBasic) continuously with the U-2000 and don't have any problems when it
runs on the 486/100.  I certainly, though, don't doubt Hasan and the age of
QuickBasic could make it's i/o ability suspect.

Les/N5KOA
http://www.apex2000.net/personal/lcb911/main.htm

SNIP...
>> 1.1.9 on tapr). Many people have reported success with dosAPRS and the
>> U-2000, but sad to day, I'm not one of them. I have tried 3 different
>> motherboards and all of them cause dosAPRS to generate a com port overflow
>> message. I am not alone in
>> this problem. It has something to do with qbasic's ability to do serial
>> port handling, and perhaps with high speed buffered uarts. Since the
>> problem has never been fixed, I am speculating at this point. Older,
>> slower motherboards appear to be LESS  likely to suffer the problems I am
>> describing with dosAPRS
>> and the U-2000. Hopefully someone else will see your query and give you
>> their take on the U-2000 with dosAPRS, and the
>> specific motherboards/serial ports they are using.
...
>> hasan schiers, N0AN
```

---

933. RE: [APRSSIG:7772] Re: KPC-3 / Mac aprs interface

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Sat, 27 Dec 1997 10:24:33 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BD12B1.A9C7D900@gwyn.paccomm.com>
Rendered body type: text/plain

```
On Thursday, December 26, 1996 2:18 PM, schiers@ames.net wrote:
>In <32C32034.4757@why.net>, on 12/26/96 at 05:10 PM,
>   dkaszubski@why.net (dkaszubski) said:
>
>>TNC's are all a
>>little different, and my statement only applies to older KAM's.  If the
>>KAM Plus requires a jumper mod like the KPC-3, that's a different story.
>
>This seems like a REALLY important point. If there are tnc's out there, by
>factory default that will destroy an RS-232 port by simply plugging what
>is supposed to be an RS232 compliant device into it...we have a big
>problem.
>
>I would appreciate feedback about this...manufacturer's warning aside, it
>makes no sense to put out a device allegedly rs232 compliant with a
>voltage on it that can damage an rs232 port...or am I the only one that
>thinks this is borderline nuts? Or...are all the "facts" really in dispute
>and Kantronics is being smeared by our speculation? If so, my apologies up
>front.
>
>73,
>
>hasan schiers, N0AN
>------------------------------------------------------------
>schiers@ames.net
>------------------------------------------------------------

Following in the tradition of the TNC-2 which had voltages on pins 10 and 11. But it came with plenty of
```

 warnings and was for experimenters.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(C(/`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, (````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````(1+@$$@ $`,@```%)%.B!;05!24U-)1SHW-S<R72!293H@2U!#+3,@
M+R!-86,@87!R<R!I;G1E<F9A8V4`:0X!!8 #``X```#-!PP`&P`*`!@`(0`&
M`$0!`2" `P`.````S0<,`!L`"@`3`#L`!@!9`0$)@ $`(0```#1#038Y.$-%
M03$W140Q,3$X,$0U,# T,# U,CE"0T0W`"$'`0.0!@`,!P``% ````L`(P``
M`````P`F```````+`"D```````,`+@```````P`V``````! `#D``&>:B-L2
MO0$>`' ``0```#(```!213H@6T%04E-324<Z-S<W,ET@4F4Z($M00RTS("\@
M36%C(&%P<G,@:6YT97)F86-E`````@%Q``$````6`````;T2VXB)SIBF37ZA
M$=& U0! !2F\UP``'@`># $````%````4TU44 `````>`!\,`0```!$```!G
M=WEN0'!A8V-O;6TN8V]M```````,`!A!$)<%/`P`'$#($```>``@0`0```&4`
M``!/3E1(55)31$%9+$1%0T5-0D52,C8L,3DY-C(Z,3A032Q30TA)15)30$%-
M15-.15174D]413I)3CPS,D,S,C S-#0W-3= 5TA93D54+$].,3(O,C8O.39!
M5# U.C$P4$TL1$M!``````(!"1 !````9P4``&,%``#W"P``3%I&=8(H_Q7_
M``H!#P(5`J0#Y 7K`H,`4!,#5 (`8V@*P'-E=&XR!@`&PP*#,@/%`@!PS')Q
M$B /_V8S!$83<^PQ( A5`H,T$PP'$P*#[C43"A7@$^U]"H (SPG9(CL;#S$R
M.!PO93(\-34"@ J!#;$+8&YG&#$P,Q4`"P-L:3->-@WP"U46P@P!8Q+@(!)/
M`Z!4: AP<V1AT'DL($0%D&4&T 20"" R-B)0,3DY-H$B\#HQ."!032)0103P
M: B1<T!A!X$N$FX2`"!W`V!T93K]"H4^"T82\B$S`% 3D"51"F,%0$D#H#PS
M,D,#* `?D#0N-#<U-]! =VAY).(^(E "(*DC,#(O(P`O(V%A!4#T,#4CH# C
MT@J'()\F#P,G&2Y19&MA<WIUD&)S:VDHUB H+ICV*200"W!D)88K?RR/)OL/
M,.\Q_S,/)Y$^5$Y#5B<$( K 92HP; ,@8;\T/S5/-E\W8R @`D!L.##:9 :0
M9@20"?!T(E `</!D(&UY)! !D"5@!X#+`C I<6P]D&%P"U (D"D$('1O*7!L
M!($@2Y1!33?@+BY0268_$/YH.# XOSG/.M\W<C^Q(]#'"D $(!L0<75I&Q W
M\6 @:G5M<"+1!&$@#2 @:S@P0&)+4$,M_C,B4$!@*D WXCR(/:$%L/\I`$"O
M0;]"SS0?27]*CR=D[R'0! `D$ G@;00@1@,XD(!214%,3%D@!W"^<!JQ`' %
M0%$`"X!T0 #'0#0X(C@A=&YC-^$(8.<%0%(C(E!B>4O_30].'STGD68`T$A"
M+H -P&%U_FQ30BI!`_ X80VP/; #8,,^@0.@4E,M,B@`47$_`"!3P2004.$^
M<0M0=6?Z9PN 9R4@1Q%3_U4/5A_K)Y%/<G4^L&\1\#U@/R'_(L!99%G2!:!:
ML0<P/B$-L'QV:2*04- ",#\P/# N+6)@=S@P$<!V4#)B:?YG6]]<[UW_)Y$G
M00)@(J#_2(]D;V5_2[]H'VDO)U8E(.\(8#]@/I(;$&,',"5@5T#I">!D8@#0
M:RHP!N!3,_<$`&)A`X%U5U((< 20-^'^=PK `P!;82ZP,+!3H3PP?VJO:[]L
MSR>1`,!&( 0@;M\_,!'P`(!&,3\P<%,Q4R+G1W%AE#A196<)@#YQ$>#_8*P#
M\$!@*C!RGW.O=+\GD7YV!O !D'A@*7(\,%A$8_\#D2(@`,!]T0.1>,11`F)A
M_P6Q)*!M\4!B/E,"($8R6[_/>Q]\+R=S<"%N:S\!3V)_3W$&X L@!) @((&!
M<+!T=',_(9!R8F$X%D!B(OE74G,B1)$X43V0"X \@?IS=Q%E@?^##X0?)Y$]
M0JY+44$#8 ,`8X7T95M2_G,'@#@1/6!:80AA)!!%@'9C6! J0&D"((<P0#%S
M_F\B4#V!/J :D5M !Y%?</^)_XL/C!]7(HW14<"1_Y,/WY0?:G^6GY>O)V0W
M1M"9'_^:+YL_F.^=CYZ?)V01P#"0AP.@)"4B4$XP04Z?__>A#Z(?)X(MJ ^I
M'ZHOJJ7_I*^EOZ;/)Y$D+JN_K,^MW_^GW[1/M5^K#PKE("\A-0J%_D8&\!J@
M`_!;88E10&)9(/YA/)"0,BEP0$0WL5G 6X%_8;!Y\!' /6!]A5,!`Z!P3PN
M!" JH3U",3% `$+_4S%^,7ZP!X!YM M0//&!4?] 0'&%-_$]47& !" "$ 7
M_&5X18$'<0(P)&&5I@J/`PN1&%(Q-R!'=WD'68%O02)!5S%"14SMPQ50`- (
M4&V H,9!1B#]!4!2NQ$_, :P/;!/P<*LZF?$T4##0&-@X6<@8.$%PQ5H`D!P
M.B\O=U7*P"[)/R :,0#,8 `#`! 0``````,`$1 `````0 `',$#U,^7:$KT!
J0 `(,$#U,^7:$KT!'@`]``$````%````4D4Z( `````#``TT_3<```<U
`
end
```

---

934. SSID clarification

From: Richard Parry <rparry@qualcomm.com>
Date: Fri, 27 Dec 1996 07:29:06 -0800
To: aprssig@tapr.org
Message-ID: <v03007804aee999bec841@[129.46.159.136]>
Rendered body type: text/plain

I have a mobile APRS with call W9IF-9. I also have a home station and unsure what call to use. I also have a packet station 1200 baud on 145.01 and soon another on 440. Is there a standard for the SSID. I saw a APRS standard but wonder if there is another standard.

In summary, here is what I am leaning towards, does it make sense.

```
   W9IF-0   -- fixed home APRS station
   W9IF-1   -- fixed home packet station on 145.01
```

```
   W9IF-2   -- fixed home packet tcp/ip station on 440
   W9IF-9   -- mobile APRS station

   Seem reasonable?


---------------
Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
Qualcomm, Inc. Globalstar/Gateway Reverse Link
Intranet --> <http://web/~rparry>
Internet --> <http://www.qualcomm.com/~rparry>
AX.25    --> W9IF@K6JCC.#SOCAL.CA.USA.NOAM
---------------
```

935. Re: [APRSSIG:7802] Re: Weather Station Compatability

From: schiers@ames.net
Date: Fri, 27 Dec 96 09:35:52 -0500
To: aprssig@tapr.org
Message-ID: <199612271537.JAA13291@brain.ames.net>
Rendered body type: text/plain

```
In <1.5.4.16.19961227091943.107f9ee6@apex2000.net>, on 12/27/96 at 09:24
AM,
   Les Blalock <lcb911@apex2000.net> said:

>I've not had the "overflow" problems with the U-2000 and DOS APRS on an
>AMD 486x4 100 /w 16550 uarts

Les, I wish I had one of those mb....<g>. I tried it on the following, all
with similar results:

486DX33 Intel
AMD-DX2-80
AMD-DX2-80
AMD-DX4-100

The only mb in my possession that I haven't tried is my Intel P133. All of
those mb had 16550 uarts.


Bob told me that it is a hit and miss situation...hardware
dependent, but no one seems to be able to identify the hw
dependency. Just wrotten luck on my part, I guess. 73,

hasan schiers, N0AN
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

936. Re: Compass input for RDF

From: morganb@inetport.com (Robert B. Morgan)
Date: Fri, 27 Dec 1996 10:01:39 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <199612271601.KAA26472@admin.inetport.com>
Rendered body type: text/plain

```
Dave VanHorn wrote (looks like he writes good stuff)

>Keith Sproul wrote:
>>
>> MacAPRS/WinAPRS currently use the GPS heading (or any other NMEA device that
>> has heading information in it)
>>
>> I am getting an Electronic Compass loaned to me and will get the software to
>> work with that too.
>>
>> I have also been told about a 'cheap' electronic compass available from
>> someplace (DigiKey I think)..   When things calm down a little I am going to
>> see about buying one of these and making it work too.
>>
>> Keith
>>
>I have a PNI compass I could send you. This is one of their OEM
>products, same as Jameco sells.. BTW: I'm the guy who talked them into
>the raw output mode. They were only going to provide "cooked" data,
>but I convinced them that the raw would be useful in non-standard
>applications, like sensing the in-flight orientation of a rocket.
>(North dosen't move).  It's a neat little board, about 1 1/4" by 1 1/2"
>with a TTL SPI interface. It could be talked to by using handshake
```

```
>lines to run the SPI protocol, or off the paralell port. I'd opt
>for the paralell port, as the serial side is getting a BIT crowded.

-------response---------

[As I had pointed out on another occasion, for weather spotting use, one
has to park, turn around or back up to get into favorable positions,
sometimes in a big hurry and without concern for preserving a GPS
heading reading.  On the other hand, the GPS does make a good highway check
for calibration of the mag compass, and also provides the local
compass variation.]

I ordered the Jameco unit a few months ago.  I am needing magnetic heading
for similar DF and mobile wind direction uses also.  It does work, and
provides a decent response rate and resolution.  My only surprise
was that it sure went off the deep end if tilted from horizontal.  That
of course I should have expected, it only senses the field in 2 axes.
Anyway, it looks like it would be useable in a vehicle if one parked on
reasonably level ground.  Or mount it on gimbal rings.  It is a
fluxgate, not a hall effect device.  It uses two individual solenoid
coils at right angles, as opposed to a toroid.  (The little instruction
manual didn't clearly state which end of the device was the north-pointing
axis, it turns out to be the "left" side of the board, if no reversing
options are selected against recommended defaults).  It was about $50.
(It also requires a remotely supplied reset/startup pulse).

For those unfamiliar with it, it delivers TTL output of a serial nature,
but NOT anything that a standard serial comm port could input.  It has 2
separate clock leads, one for bitrate and one for a framing pulse,
and is intended to be used with direct inputs to a microprocessor, or
alternatively a shift register driving a BCD display.  I chose to input
it to a shift register (I used a pair of 74HC595) to drive some LED
driver/decoders and also to drive a D/A chip (via an eprom for code
conversion from BCD to Binary) for an analog output.  Plans for this
concoction include a device similar to a TNC with a 16 ch analog input
device for inputting weather and other inputs, and of course the GPS unit
is tucked away in there.  I am also doing betatesting on TAPR's TNC3
(aka TNC95) and some of these accessories could turn up on it too,
I think John is putting an expansion connector on the TNC3, and it
has plenty of serial ports too.  With an accessory board it wouuld
make a dandy APRS mobile TNC.

It would certainly be possible to use a microcomputer chip to
directly drive and interpret this compass, and output an NMEA string
on a regular serial line, I just happened to have the analog system
and no spare serial ports on this other system so it became a bulk
analog input system.

73 de Bob WB5AOH
Robert Morgan
Austin Texas
morganb@admin.inetport.com
```

---

937. Re: [APRSSIG:7800] Re: Weather Station Compatability

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Fri, 27 Dec 1996 10:58:20 -0500
To: aprssig@tapr.org
Message-ID: <B0000128090@eagnet.com>
Rendered body type: text/plain

```
> Date:          Fri, 27 Dec 1996 08:53:23 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          Tommie Taylor <tomcmugs@n-link.com>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:7800] Re: Weather Station Compatability

> Bill Carreira Jr. wrote:
> >
> > > Date:          Thu, 26 Dec 1996 19:10:33 -0600 (CST)
> > > Reply-to:      aprssig@tapr.org
> > > From:          schiers@ames.net
> > > To:            aprssig@tapr.org
> > > Subject:       [APRSSIG:7771] Re: Weather Station Compatability
> >
> > > In <B0000126880@eagnet.com>, on 12/26/96 at 05:18 PM,
> > >    "Bill Carreira Jr." <n1nfc@eagnet.com> said:
> > >
> > > >I am curious to find out what weather staions are compatible with  APRS?
> I have a DAVIS Weather Wizard III its compatable to APRS..
```

> --
> A1 CUSTOM MUGS, 13 Dana Dr., Lampasas Tx 76550-1113
> WE PRINT DIGITIZED COLOR PHOTOS ON COFFEE MUGS.... CHECK US OUT :)
> http://www.web2.com/cmugs/
> Internet: tomcmugs@n-link.com / tomcmugs@juno.com
> Phone: (512) 556-4691   This is also a FAX Request line
>
>
Thanks for the input

73 de

Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548   n1nfc@hotmail.com
Ph:912-729-5287   n1nfc@aol.com
Data:912-729-6067   AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm

---

938. WinAPRS background colors

From: Mark Sproul <sproul@ap.org>
Date: Fri, 27 Dec 1996 10:57:17 -0500
To: aprssig@tapr.org
Message-ID: <v03007800aee9a113895f@[165.1.27.20]>
Rendered body type: text/plain

First, if anyone is trying to send me private email, my email server
currently has a full disk and it is probably rejecting any incoming email.
If you get email bounced from me, just try to send it again latter.

The next release of WinAPRS will have BACKGROUND COLORS, you can set the
MAP background to any color you like, you can control the text of callsigns
to be either BLACK or WHITE. Note, this works on MacAPRS as well.

So, those people that said they would use WinAPRS when it had back ground
colors, get ready. I hope to have this out by next week.

Other items that we are working on

Maxum Weather stations, we have this working, If ANYONE has one of
these or is thinking about getting one let us know please.

Mic-E, we are working on getting the Mic-E support and hope to have
it finished real soon. This will be both Mac and Windows.

Mark

____
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
____

---

939. RE: [APRSSIG:7792] MCX Connector

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Sat, 27 Dec 1997 11:21:11 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BD12B9.8BAA85A0@gwyn.paccomm.com>
Rendered body type: text/plain

On Thursday, December 26, 1996 7:48 PM, Mark Fellhauer[SMTP:sparkfel@primenet.com] wrote:
>I know we've covered this before, but I wasn't paying attention, because it
>didn't apply to me.
>
>For Christmas I received the Trimble GPS antenna offered by PacComm. I
>need to find an MCX to BNC adaptor, as I don't want to cut the plug off the
>cable. In the future, I plan to buy the GPS-20 engine, but for now I'd
>like to use the antenna with my Magellan Trailblazer XL.
>
>Can someone please post a source for these adaptors again?
>
>73 and thanks,
>
>Mark
>KC7BXS

>sparkfel@primenet.com

Hold up before you go and purchase anything.

The connector on the antenna is an SMB plug. The connector on the Garmin is an MCX.

Don't want you to waste funds on the wrong items.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

```
begin 600 WINMAIL.DAT
M>)\^(@\0`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`# $```$````,`````P``, ,````+``\.``````(!_P\!````/P``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````&%P<G-S:6= =&%P<BYO<F<`4TU44 !A
M<')S<VEG0'1A<'(N;W)G```>``(P`0````4```!33510`````!X``S !````
M$0```&%P<G-S:6= =&%P<BYO<F<``````P`5# $````#`/X/!@```!X``3 !
M````$P```"=A<')S<VEG0'1A<'(N;W)G)P```@$+, $````6````4TU44#I!
M4%)34TE'0%1!4%(N3U)'`````P``.0`````+`$ Z`0````(!]@\!````! ``
M``````,3+@$$@ $`(0```%)%.B!;05!24U-)1SHW-SDR72!-0U@@0V]N;F5C
M=&]R`*@)`06 `P`.````S0<,`!L`"P`5``L`!@`L`0$@@ ,`#@```,T'# `;
M``L`$0`+``8`* $!"8 !`"$````U,D$V.3A#14$Q-T5$,3$Q.#!$-3 P-# P
M-3(Y0D-$-P`1!P$#D 8`< 4``!0````+`",```````,`)@``````"P`I````
M```#`"X```````,`-@``````0 `Y`,!AT''C$KT!'@!P``$````A````4D4Z
M(%M!4%)34TE'.C<W.3)=($U#6"!#;VYN96-T;W(``````@%Q``$````6````
M`;T2XW&_SIBF67ZA$=& U0! !2F\UP``'@`># $````%````4TU44 `````>
M`!\,`0```!$```!G=WEN0'!A8V-O;6TN8V]M``````,`!A VB]Y>`P`'$* "
M```>``@0`0```&4```!/3E1(55)31$%9+$1%0T5-0D52,C8L,3DY-C<Z-#A0
M32Q-05)+1D5,3$$A!54524TU44#I34$%22T9%3$!04DE-14Y%5$-/35=23U1%
M.DE+3D]75T5614-/5D5214142$E30D5&``````(!"1 !````V0,``-4#```M
M" ``3%I&=;8D!"'_``H!#P(5`J0#Y 7K`H,`4!,#5 (`8V@*P'-E=&XR!@`&
MPP*#,@1&`@!PL')Q,2 (50*#,P/%YQ.#$B /_V8T%,P'$P*#[C44RA/0%:U]
M"H (SPG9(CL;#S$R.!PO93(\-34"@ J!#;$+8&YG&#$P,Q2P"P-L:3->-@WP
M"U46P@P!8Q+@(!)/`Z!4: AP<V1AT'DL($0%D&4&T 20"" R-B)0,3DY-@`@
M-SHT."!0304B4$T*P&L@1F5L!FP1P I0<EM3351(4#IS"K%K9B2 0"L3H =Q
M;A(`+@6@;5U$('<#8'1E.@J%/K\+1A2R(3,`4!.@)O%C!4 @22!K;F\'X'=E
M<"=V92 %H"H`&Q$@]'1H! `@(L "$!L0(E $8G4I0G=A<VXGBP5 "K!Y"X!G
M(&$"0/D)\'1I`B K8060), 1\'@@:70*AR"?)Z\HN62D:60L$F%P"U!Y*J#T
M;R '@"XN'R\O,#\I,2\RKS._-,\I,48%L4-H^040<W0`P 0@*6 ;$"*0[FDJ
M`"J2*A!4)@$"8"H0'$=0!? `<"SA;F$@UF\-T"IC8C(@4 #0"%#P;6TN("E0
M-@\W'S@O[RDQ)D J@C)09@N *I #D8A-0U@R,D).0RRPWR(@!3 %L")0.A-D
M`B L(7<KX (P,C)C*Y$Z\@M0=?\LH#QQ.N(]WS[O/_\I,2V0[SMQ/9(#H#KR
M9BN0"' K4?\I8 M12=$R4"N ,B$[`3NQZBT!T" )\&<+@"M5*R'C02 IH4DG
M9$7O1O](#_LI,2 @:RH0,D$MLCKR._;?`_ JL#)@,B D(&<D@0.12SLP"W!L
M`F!A>B+16/Y,,I].OT_/-<]5;U9_*/5J0P.1<P-P90(@10)E^ROP10%O.> L
L%N!"' BD'],\SKQ+<%"Y00@4R +<3]_5_]9#UH?5\]?WV#O*00WCC,[X2J2
M`'!K<RQB7_]C;V1_8B]G?VB/*00D(FG_!VL/;!\I,4M#-T)8_E-MGVZO;[\I
M,25O)G(*BS<@+R$U"H5(!O JD'5PR2KU('D(8"!G,E!EXLYP71$1P%W2;GDJ
L1]@_U2&"H4AT"H2/# I(06Q`B#O4<LJT0.1)1!"11,]D'QO^TN3"L!M"X!^
M)4(Q/9![C/Y$0]AYLC)!*^$G`$HA0="_!"!]12;1+)$M\"*@<WM])PJ/"Y$8
M4C$W.Z!W>0T#H%)!02)!5S%"1;Y,AG4])3T243 %0%)"X-\M(!(Q@\&%8'N,
M9X@Q)> O`- F@3V ==AH`D!P.J@O+W>.("Z,GR :,0(`C\ ````#`! 0````
M``,`$1 `````0 `',$ X^N+B$KT!0 `(,$ X^N+B$KT!'@`]``$````%````
24D4Z( `````#``TT_3<``,N6
`
end
```

---

940. HSP Problems

From: Jim Duncan <ku0g@sprynet.com>
Date: Fri, 27 Dec 1996 08:41:40 -0800
To: aprssig@tapr.org
Message-ID: <199612271641.IAA25534@m1.sprynet.com>
Rendered body type: text/plain

Hey guys.....

I'm trying to hook up an HSP to the laptop here. It toggles fine but I'm having trouble with the serial port locking up! If I recycle the TNC it comes back but this is a real problem when driving down the highway! The HSP is a known to work properly unit. Any suggestions will be appreciated...

Laptop: Compaq Lite 386SX-25
TNC: KPC-3 or AEA Tiny2 (same problem with both BUT the recycling KPC does NOT release the serial port!)

Thanks....
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

---

941. Re: [APRSSIG:7743] Re: Garmin GPS II

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Dec 1996 11:51:38 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961227115107.18608A-100000@arctic>
Rendered body type: text/plain

On Thu, 26 Dec 1996, Bob Bruninga wrote:

> I also did a larger map of the whole penninsula

APRSdos REPLY/COMMENT: What I was tlaking about was the United Arab Emerates

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

942. aprs 29.29fm

From: "David Michael Gaytko   ***@***   WD4KPD/FM15mm/NC" <cn2859@coastalnet.com>
Date: Fri, 27 Dec 1996 09:51:44 -0500
To: aprssig@tapr.org
Cc: bitbucket@primenet.com
Message-ID: <1.5.4.32.19961227145144.0067361c@abaco.coastalnet.com>
Rendered body type: text/plain

interested, but my reply to you returned.....

---

943. Re: Updated MOKCity.MAP (DOS)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 27 Dec 1996 12:13:20 -0500 (EST)
To: Jim Duncan <ku0g@sprynet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961227121156.18608J-100000@arctic>
Rendered body type: text/plain

Notice all the QUOTE marks in the file. THis was because some early versions of MAPFIX added QUOTEs each time it wrote the file. Please use an editor to eliminate all of the quote marks in the first 8 lines of the file...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

944. Re: [APRSSIG:7799] Re: SiRF GPS chipset

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 27 Dec 1996 10:14:23 -0600
To: aprssig@tapr.org
Message-ID: <32C3F5CB.532E@amsat.org>
Rendered body type: text/plain

Xschramm wrote:
>
> Do you know SiRF's address or phone?
>
> Thank you,
>
> Bert, WB6QCS

Try:

http://www.sirf.com

--
73, Paul, n0lrf@amsat.org

---

945. Re: [APRSSIG:7764] Weather Station Compatability

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Fri, 27 Dec 1996 11:28:33 -0800
To: aprssig@tapr.org
Message-ID: <32C42361.35AF@cjnetworks.com>
Rendered body type: text/plain

```
Bill Carreira Jr. wrote:
>
> I am curious to find out what weather staions are compatible with
> APRS? I have been loking into them and am not sure what to get.
> If there is information on this subject, just point me in the right
> direction and I will go read it.
>
> Thanks
>
> Bill Carreira Jr.   Email:n1nfc@eagnet.com
> Kingsland, GA 31548       n1nfc@hotmail.com
> Ph:912-729-5287           n1nfc@aol.com
> Data:912-729-6067    AMPR:n1nfc@ampr.america.com
> Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
> http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm
        Check out the Peetbros.com web page. I like Peet Bros, because, they
have Amatuer Technicians,  and are very intune with Anateur Systems, and
APRS. (They have their own APRS station set up)
        Davis is good too, but I do not feel they are in tune with Amateur
needs as well. (Davis Fans, please do not take it to heart now!!!)
De AAØMM Ross.
```

---

946. Re: [APRSSIG:7778] Re: Weather Station Compatability

From: Ross McClain <aa0mm@cjnetworks.com>
Date: Fri, 27 Dec 1996 11:44:20 -0800
To: aprssig@tapr.org
Message-ID: <32C42714.69EA@cjnetworks.com>
Rendered body type: text/plain

```
John B. Leonard, Jr wrote:
>
> At 19:10 12/26/96 -0600, you wrote:
>> I, too, have had difficulties with the Peet temp sensors.  Out of 3, 1 read
> 5-8 deg high.  But also it was rather mistreated.  The faultly sensor was
> left out in direct rain, against what Peet recommends.  Also, it spent some
> time buried in a snow bank, which resulted in some very strange temp
> readings.  The one out at the WIDE (WA9CJN-15) is in a small sheltered
> container, away from the afternoon sun (which will always result in a temp
> increase if exposed).  So far, it's staying within 1 deg of the other
> reporting stations.  If I get other outside temp sensors, they'll get the
> same protection.  The two sensors that read accurately were protected.

>
>
> ---------------------------------------------------------------
> J Barry Leonard/N9VJQ  DeKalb IL  E-MAIL:  jleonard@tbcnet.com
> WWW Home Page http://tbcnet.com/~jleonard/leonard.htm
> American Red Cross Disaster Services - DeKalb Co Chapter

HINT:
        We recently put in  a U-2000 at EOC here. The Outside Temp/Humidity
Sensor needed to be on North..
        We ended up Wx proofing the Sensor, buy getting two Rubbermaid BOWLS. A
smaller one to fit inside a  larger one. Mounted Sensor in the inside
smaller  bowl. Then drilled lots of holes in the outer, larger, bowl for
air flow. If the rain or snow blows in, it strikes the sides of the
inner bowl, protecting the sensor, and the precip then runs out the
bottom of the Bowls ASSY...
        Snap the lid on, and painted bowls white.  Left lid off of the inside
bowl containing the sensor.. WORKS GOOD, and no worries abt Moisture
getting into sensor.
Take Care De AAØMM Ross.
```

---

947. HF Tones

From: bbliss@juno.com (William B. Bliss)
Date: Fri, 27 Dec 1996 13:51:38 EST
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <19961227.104950.2287.0.bbliss@juno.com>
Rendered body type: text/plain

```
Hi All u SIGers...

   My KAM Plus, tones per ops manual:
```

P 19. MARk n (n=50 - 4000) (1600)
and must be less than space command.

P31. SPace n (n = 50-4000 (1800)
Used for HF "Packet" ops, must be set greater
than the Mark command. "and (if shift command is
set to MODEM) for Non-Packet modes.

P31. SHift 170|425|850|MODEM (170)
This command sets the default shift used in RTTY,ASCII,
AMTOR, NAVTEX and Pactor modes. When MODEM is specified,
the MARK and SPACE commands set the frequencies used
by adjusting the switched capacitance filters in the KAM Plus.
The MARK and SPACE settings are always used for HF PACKET
tones and when operating G-TOR. When operating in a
non-PACKET mode, the <Ctrl-C>S directive may be used to change
shifts. See also mark, space.

No Center frequency is specified. But assume (1700)..

P35. Digital mode operation on HF amateur bands is usually
accomplished using the LOWER SIDEBAND (LSB) mode of your
radio and applying your transmitted signal to the microphone
input. It is also possible to operate the HF modes with FSK if your
radio supports this mode.

Hostmaster II+ Kam operating program>
P27. HF. On all bands , LOWER SIDE BAND (LSB) is the accepted
standard for RTTY, ASCII, AMTOR, G-TOR, Pactor and PACKET.

Note: APRS dos, README.DIR, HF.TXT., refers to HF operating
frequencies and LOWER SIDE BAND (LSB) operations in the 40M,
30M, 20M. bands, and in the discriptive text of this file.

73's & Enjoy, Bill/WB6LPG ...

NNNN

.

---

948. Re: [APRSSIG:7792] MCX Connector

From: Bruce Douberley <bcdpe@innova.net>
Date: Fri, 27 Dec 1996 14:06:00 -0500
To: aprssig@tapr.org
Message-ID: <32C41E18.628@innova.net>
Rendered body type: text/plain

Mark Fellhauer wrote:
>
> I know we've covered this before, but I wasn't paying attention, because it
> didn't apply to me.
>
> For Christmas I received the Trimble GPS antenna offered by PacComm. I
> need to find an MCX to BNC adaptor, as I don't want to cut the plug off the
> cable. In the future, I plan to buy the GPS-20 engine, but for now I'd
> like to use the antenna with my Magellan Trailblazer XL.
>
> Can someone please post a source for these adaptors again?
>
> 73 and thanks,
>
> Mark
> KC7BXS
> sparkfel@primenet.com

The trimble antenna has an smb connector. If you need a bnc adapter
here is an easy solution. If you can find the crimp on type bnc
connector that has the center pin attatched to the nut then add a panel
mount smb connector from digi-key - cut off the ears of the panel mount
and a little of the crimp sleeve off of the nut, slip the smb connector
into the back of the bnc, solder the pin, then the barrel to the nut and
assemble.
Works beautiful.
Bruce
WB4JNE
bcdpe@innova.net

---

949. Re: [APRSSIG:7804] SSID clarification

From: Robert Jordan <n5rkn@apex2000.net>
Date: Fri, 27 Dec 1996 13:30:35 -0600
To: aprssig@tapr.org
Message-ID: <32C423DB.6254@apex2000.net>
Rendered body type: text/plain

Richard Parry wrote:

```
>
>    I have a mobile APRS with call W9IF-9.  I also have a home station and
> unsure what call to use.  I also have a packet station 1200 baud on 145.01
> and soon another on 440.  Is there a standard for the SSID.  I saw a APRS
> standard but wonder if there is another standard.
>
> In summary, here is what I am leaning towards, does it make sense.
>    W9IF-0   -- fixed home APRS station
>    W9IF-1   -- fixed home packet station on 145.01
>    W9IF-2   -- fixed home packet tcp/ip station on 440
>    W9IF-9   -- mobile APRS station
>
>    Seem reasonable?
>
```

The problem I have with a "standard", Richard, is that I run the
regional bbs along with a BPQNode. I also have my call on the NWS
packet station on APRS. Because of all this, I have 3-4 SSID's floating
around at any given moment. And, when I fire up the mobile GPS..there's
another one. One more interesting aspect... Somewhere back in time,
packet users in the West Texas area decided that -9 would be for their
PBBS's. I know this isn't the standard. But, who said west Texan's
where ever standard. I am for a standard to simplify. But, it might
not work in my case.
  Robert N5RKN

--
'Twas brillig, and the slithy toves
Did gyre and gimble in the wabe:
All mimsy were the borogroves,
And the mome raths outgrabe.

---

950. Weather data reports

From: bbliss@juno.com (William B. Bliss)
Date: Fri, 27 Dec 1996 14:43:19 EST
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <19961227.114140.2287.1.bbliss@juno.com>
Rendered body type: text/plain

Hi SIGers,
    Just noticed a slight difference in the data readout
format on my APRSdos weather reports.

    As indicated in examples below, the later versions of
APRS , Ver77 on have dropped the Upper case letters of
data field to lower case in most instances., aparantly after
the Temp/Rain/p,b,h, etc....?????

    Where we had Txx/Rxxx/Pxxx/Bxxx/Hxxx/U2a ,

    Now see : Txx/RxxxpxxxgoooUII   and other variations,

    Is this change intentional, a programing error, or something
overlooked ?????..

```
   ---------------------------------------------------
 Examples off air.............wx test readouts.....12/27/96 diff versions

    Automatic Input Ver 7.5  Peet Ult-2000

WB6LPG>WA6AFT-3>WIDE*>APRS:
@251159/3727.39N/12226.29W_060/002/T057/R000/P000/B018/H000/U2a
-----------------------------------
    Version 7.7e Auto Wx input.. Peet Ult-2000

WB6LPG>WA6AFT-3>W6CX-3>WIDE*>APRS:
@251131/3727.39N/12226.29W_061/008/T056/R000p000b0188h00g015U2k
----------------------------------------------------------
  Manual entered Wx Report using Ver7.7f

WB6LPG>WA6AFT-3*>W6CX-3>WIDE>APRS:
@251134/3727.39N/12226.29W_045/013/t 57/D 52b0008/R000/WX rept

WB6LPG>WA6AFT-3>W6CX-3*>WIDE>APRS:
```

```
@251134/HI THIN SCATTERED, VIS 15+ NICE COOL DAY
---------------------------------------------
     WX Report Readout using APRS Ver7.7f

WB6LPG>WA6AFT-3*>W6CX-3>WIDE>APRS:
@251140/3727.39N/12226.29W_056/011/T057/R000p000b0185h00g014U2k
---------------------------------------------------------
KF6HJO>W6GRR-1>WIDE>WIDE*>APRS:
@251744z3631.12N/11940.52W_091/000/T040/R000p001b0238h00g000U2k
   --------------------------------------------
KD6RZR>WD9BIV-3>W6CX-3*>WIDE>BEACON:
/242303/3800.43N/12153.44W_045/000/T042/R000p000g000UII
    ------------------------------------
KF0QN>GATE>WIDE*>APRS:     (Ver 7.7e)
@251933z3941.36N/10450.19W_135/000/T050/R000p000g003UII
-------------------------------------
Position Log...    Ver. 7.5a.....
KF0ZH  261835
@26193z4447.06N/09329.48w_209/000/T004/R000/P000/B024/H061/U2a
----------------------------------------------
Beacons log...
N5YYK-4   261547 /260846/T025/R000p000b0154h73g011_AutoWx2K u 2000

Position Log......
N5YYK-4 261547
/260846/3418.30N/10318.75W_023/009/T025/R000p000b015h73g011_Au
  --------------------------------------------

Position Log...
WB9HBH 261753
@261755z3946.28N/08550.31W_186/004/T035/R000/p000b0009h69g006Dvs
-------------------------------------
Position Log...
N6OAA-2 261815 @261815z2612.58N/09822.33W_270/000/T060/r0000/U-II(remote)
--------------------------------------------------------------

Posit Log
N0AN 261834
@2261834z4158.25N/09333.36W_095/006/T017/R000/P000/B025/H.../G00
   -----------------------------------
     Any comments from the  programmers of the different
versions ???...

      73's & Enjoy, Bill/WB6LPG

NNNN
```

---

951. AutoWx

From: Miami Network <0004818186@mcimail.com>
Date: Fri, 27 Dec 96 14:46 EST
To: aprssig <aprssig@tapr.org>
Message-ID: <82961227194628/0004818186NA4EM@MCIMAIL.COM>
Rendered body type: text/plain

I am trying to reach Les the author of AutoWx. Les I have misplaced
your E-mail address. If you see this please message me directly.

73, Seymour, KC4NMY
miaminet@mcimail.com

---

952. 40 mtr testing

From: Richard Howard <rhoward@netinc.ca>
Date: Fri, 27 Dec 1996 15:17:14 -0800
To: aprssig@tapr.org
Message-ID: <32C458FA.180F@netinc.ca>
Rendered body type: text/plain

following stations seen on dec 27 .
w1gtt,wa4mej,n2jr,ko4tt,wa4hei,n0lrf,wv0t-9,wb8skp,k7pw,n1qpr,n1trs,good
coverage with this band , despite local qrm, and band condx.
73, richard.   rhoward@netinc.ca.

---

953. Re: [APRSSIG:7804] SSID clarification

From: K5QQ@aol.com
Date: Fri, 27 Dec 1996 16:04:30 -0500
To: aprssig@tapr.org
Message-ID: <961227160335_976878196@emout18.mail.aol.com>

Rendered body type: text/plain

```
In a message dated 96-12-27 11:06:36 EST, you write:

<< In summary, here is what I am leaning towards, does it make sense.
    W9IF-0   -- fixed home APRS station
    W9IF-1   -- fixed home packet station on 145.01
    W9IF-2   -- fixed home packet tcp/ip station on 440
    W9IF-9   -- mobile APRS station

    Seem reasonable?
  >>
Howdy

We have a bunch of mobile APRS vehicles as part of our t-Hunt group and
decided we should make the mobiles w/o a SSID.  This keeps the maps a bit
less cluttered as only the call sign shows up as being all over the map..
  We also use -1 for the home stations but after that it dosen't make a lot
of difference.

Good luck

Jim, K5QQ
Albuuquerque T-Hunters

K5QQ@AOL.COM
```

954. Re: [APRSSIG:7804] SSID clarification

From: Roger Sellers <rsellers@rockford.com>
Date: Fri, 27 Dec 1996 15:11:42 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961227151141.006ce368@rockford.com>
Rendered body type: text/plain

```
At 10:03 AM 12/27/96 -0500, you wrote:
>   I have a mobile APRS with call W9IF-9.  I also have a home station and
>unsure what call to use.  I also have a packet station 1200 baud on 145.01
>and soon another on 440.  Is there a standard for the SSID.  I saw a APRS
>standard but wonder if there is another standard.
>
>In summary, here is what I am leaning towards, does it make sense.
>   W9IF-0   -- fixed home APRS station
>   W9IF-1   -- fixed home packet station on 145.01
>   W9IF-2   -- fixed home packet tcp/ip station on 440
>   W9IF-9   -- mobile APRS station
>
>   Seem reasonable?

    Looks good to me, Most around here are just using their call, In
mycase, LB9LBU for home APRS station. Then adding other -# for additional
units.

>---------------
>Richard Parry, P.E., W9IF - Ext 8-4972, Office R-307B
>Qualcomm, Inc. Globalstar/Gateway Reverse Link
>Intranet --> <http://web/~rparry>
>Internet --> <http://www.qualcomm.com/~rparry>
>AX.25    --> W9IF@K6JCC.#SOCAL.CA.USA.NOAM
>---------------
   If you add your regular email to the above, I could have replied
directly instead of via the sig. For some reason, my IP won't pass the
originators address. so all my incoming messages are from aprssig@tapr.org.
So without a direct email address, I'm forced to reply via the SIG. I'll
have to work on the IP stuff. Thanks for the concideration.

Roger Sellers  KB9LBU
email: rsellers@rockford.com

>
>
Roger Sellers   KB9LBU
email: Home: rsellers@rockford.com
             KB9LBU@juno.com
       Work: rsellers@snds.com
```

955. Re: [APRSSIG:7816] Re: Weather Station Compatability

From: schiers@ames.net
Date: Fri, 27 Dec 96 15:13:34 -0500
To: aprssig@tapr.org

Message-ID: <199612272115.PAA18303@brain.ames.net>
Rendered body type: text/plain

```
In <32C42714.69EA@cjnetworks.com>, on 12/27/96 at 11:46 AM,
   Ross McClain <aa0mm@cjnetworks.com> said:

>We recently put in  a U-2000 at EOC here. The Outside Temp/Humidity
>Sensor needed to be on North..

Confirming my earlier compliment of Peet Bros. customer service:

My new temp/humidity sensor arrived today, at no charge.
The also sent me a free separate temp sensor that was well
out of warranty, because I indicated I had been having trouble with it for
some time.

I have all my wx sensors in a ventillated box on the north side of a pole.
It is fully shaded and weather guarded (not wx
proofed...or they wouldn't work). Now, let's see how well the  new
peripherals work.

I hope to have them up tomorrow..right now the temp/humidity
sensor is sitting on a chair, showing 60 degrees...so those of you copying
my packets, don't get your hopes up...it's really 25 deg and we have 5
inches of snow on the ground.

Again, Kudos to Bill and his staff at Peet Bros, a first class company.
73,

hasan schiers, N0AN
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

956. Re: [APRSSIG:7824] Re: SSID clarification

From: schiers@ames.net
Date: Fri, 27 Dec 96 16:05:46 -0500
To: aprssig@tapr.org
Message-ID: <199612272207.QAA18833@brain.ames.net>
Rendered body type: text/plain

```
In <3.0.32.19961227151141.006ce368@rockford.com>, on 12/27/96 at 03:18 PM,
   Roger Sellers <rsellers@rockford.com> said:

>For some reason, my IP won't pass the
>originators address. so all my incoming messages are from
>aprssig@tapr.org. So without a direct email address, I'm forced to reply
>via the SIG. I'll have to work on the IP stuff.

This is a much more common problem than many appreciate. I had to put up
with it for 9 months, because my ISP was stripping the headers. Galacticom
software is famous for it. Fortunately, about three weeks or so ago, the
ISP upgraded their software and now the problem is gone. I would recommend
looking at the headers of incoming aprssig messages. I wouldn't be
surprised to see that the originator's email address has been stripped. In
that case you need to make a "stern" contact with your service
provider....they are breaking the rules and screwing everyone else up.

In the mean time, as I have asked others to do in the past, PLEASE put
your return private email address in the signature of your messages. That
way, a private reply can be made, even though the ISP is stripping the
header. Example below:

hasan schiers, N0AN
------------------------------------------------------------
schiers@ames.net
------------------------------------------------------------
```

957. Re: [APRSSIG:7594] Re: APRS 40m HF discussion

From: David Wells <davew@cruzio.com>
Date: Fri, 27 Dec 1996 16:20:59 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612271411.aa14662@bbs.cruzio.com>
Rendered body type: text/plain

```
At 08:34 PM 12/22/96 -0600, you wrote:
>Bob Bruninga wrote:
>>
>> We need to launch a serious 40 meter crusade for an APRS frequency.
```

```
>
>Count me in. Will attempt to monitor 40m activity here near K.C...
>Think I'll start with 7.085, LSB, to start...
>Anyone else?
>
>Happy Christmas &
>
>--
>73, Paul, n0lrf@amsat.org
>
>.-
>

One problem I see with this freq is that it is in the middle of the RTTY
sub-band. About once a month during the RTTY contests you will probably get
trashed by RTTY QRM. I will probably be one of them running a Kw to a 2el beam.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

---

958. I'm Loosing my Memory

From: Joseph Novak <star@pbfreenet.seflin.lib.fl.us>
Date: Fri, 27 Dec 1996 17:27:23 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9612271755.A26098-0100000@pbfreenet.seflin.lib.fl.us>
Rendered body type: text/plain

```
Dear fellow APRS persons,


Its either just my computer, a year old DX2-100, or the dreaded
Alzheimers virus, but my computer is beginning to loose RAM. It started
on Christmas day when I noticed the memory was indicating 8MB
rather than its usual 16MB.  Today it dropped to 4MB.   I'm afraid to
turn it on tomorrow.  The only recent software I have downloaded is
whatever I get from JUNO - no telling what that stuff is.  Anybody else
affected?

Happy holidays

Joe Novak,  K4OVK,
afstar@juno.com
```

---

959. Re: [APRSSIG:7769] 10m APRS

From: rhiii@mnsinc.com (Richard H.)
Date: Fri, 27 Dec 1996 23:07:28 GMT
To: aprssig@tapr.org
Message-ID: <32c45578.32253669@relay.mnsinc.com>
Rendered body type: text/plain

```
On Thu, 26 Dec 1996 18:40:19 -0600 (CST), you wrote:

>Anyone willing to work aprs on 29.29fm @ 1200baud ?
>Could be something to do with your  2510/2600 Uniden that is getting
>little use.
>Comments
>
>kf4xh@juno.com


what tones/shift and times ??

de Richard/n2jr
```

---

960. Re: [APRSSIG:7783] Rose Parade Coverage

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Fri, 27 Dec 1996 16:46:06 -0700
To: aprssig@tapr.org
Message-ID: <32C45FA1.45C9@goodnet.com>
Rendered body type: text/plain

```
Too bad this isn't Gated so all of us could watch it on our maps.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
```

Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord." Jos 24:15

---

961. Re: [APRSSIG:7828] I'm Loosing my Memory

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Fri, 27 Dec 1996 18:48:36 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612271805.A2921-0100000@bcfreenet>
Rendered body type: text/plain

There isn't much software out there that will 'kill' memory. I suspect that your problem is one of two things:

1 - You are getting corrosion on the memory connector pins. Remove the memory and re-insert a couple of times. Be sure not to kill the memory with ESD (Electro Static Discharge - sparks). Keep a finger or arm on the metal part of the case to discharge yourself as you do this.

2 - The system CMOS settings may have changed recently. Go into the 'CMOS SETUP' and make sure that you have enough memory 'wait states' (timing delays) to make your systems memory work. Just to test, set all the timing to the slowest. If it works then find a timing setting that works for your system.

I suspect it is number (2) above. Your machine is a 50 Mhz machine with a clock doubler in the CPU. That means that your machine is running at 50 Mhz, which is pretty quick. You should have 60 ns memory, although 70 or 80 will work with enough wait states. The 60 ns memory will require fewer, and therefore your machine will run a bit faster. 73,

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

On Fri, 27 Dec 1996, Joseph Novak wrote:

>
> Dear fellow APRS persons,
>
>
> Its either just my computer, a year old DX2-100, or the dreaded
> Alzheimers virus, but my computer is beginning to loose RAM. It started
> on Christmas day when I noticed the memory was indicating 8MB
> rather than its usual 16MB. Today it dropped to 4MB.   I'm afraid to
> turn it on tomorrow. The only recent software I have downloaded is
> whatever I get from JUNO - no telling what that stuff is. Anybody else
> affected?
>
> Happy holidays
>
> Joe Novak, K4OVK,
> afstar@juno.com
>

---

962. Re: [APRSSIG:7828] I'm Loosing my Memory

From: MBoyce1856@aol.com
Date: Fri, 27 Dec 1996 19:34:09 -0500
To: aprssig@tapr.org
Message-ID: <961227193408_1755439648@emout17.mail.aol.com>
Rendered body type: text/plain

Since all simm assemblies rely on pressure for contact, try removing all memory units and re-seating them. Actual contacts may be cleaned with a pencil erasure.

Good Luck!
k0coy@amsat.org
mboyce1856@aol.com

---

963. Re: [APRSSIG:7766] Re: TRIPMATE MAX SPEED? Solved

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 27 Dec 1996 20:06:18 -0400
To: Aprssig@tapr.org
Message-ID: <851735178-0-eac@shore.net>
Rendered body type: text/plain

Hello,

I talked to Delorme Tech Support and they did not put
in any speed restriction. They even tested the unit in
a Jet. The only restriction is what Rockwell put in the
firmware.

73 Eric eac@shore.net

964. 40m HF discussion

From: Paul Stump <n0lrf@amsat.org>
Date: Fri, 27 Dec 1996 19:07:27 -0800
To: aprssig@tapr.org
Message-ID: <32C48EEF.4387@amsat.org>
Rendered body type: text/plain

David Wells wrote:
>
> At 08:34 PM 12/22/96 -0600, you (N0LRF) wrote:

> >Think I'll start with 7.085, LSB, to start...

> One problem I see with this freq is that it is in the middle of the RTTY
> sub-band. About once a month during the RTTY contests you will probably get
> trashed by RTTY QRM. I will probably be one of them running a Kw to a 2el beam.

Hi Dave, thanks for the info. Personally, I could live with a day off,
once a month. Maybe we could shut down APRS that day if we know ahead
when that would be. I really don't care what freq is used, so long as
we can live peacefully with our brother/sister hams!

Dave, can you suggest a freq? After a week of work on 7.085, I find
lots of QRM there from time to time. I would like to propose we try
7.088.00 LSB as a standard freq---it seems a bit less congested. That's
probably still in the RTTY band I bet?...

Anyway, what do the rest of you think?

Thanks again Dave, for some constructive criticism...:)

73, Paul, n0lrf@amsat.org

965. Re: [APRSSIG:7786] Re: Weather Station Compatability

From: "Eric A. Cottrell" <eac@shore.net>
Date: Fri, 27 Dec 1996 20:30:54 -0400
To: Aprssig@tapr.org
Message-ID: <851736654-0-eac@shore.net>
Rendered body type: text/plain

Hello,

And amazingly if you boil water the temperature will stay near 212
degrees F until the water is gone. I noticed a meat thermometer
has a test mark at 212 degrees.

73 Eric eac@shore.net

966. Re: I'm Loosing my Memory

From: rgervenack@juno.com (Robert W Gervenack)
Date: Fri, 27 Dec 1996 17:31:39 pst
To: aprssig@tapr.org
Message-ID: <19961227.173159.13591.1.rgervenack@juno.com>
Rendered body type: text/plain

DOES NOT THE SULPHUR IN THE RUBBER ERASER EFFECT THE METAL IN THE
CONTACT?
Seems to me it would be better to use a non-corrosive type cleaner.
Gervie
rgervenack@juno.com

On Fri, 27 Dec 1996 18:45:57 -0600 (CST) MBoyce1856@aol.com writes:
>Since all simm assemblies rely on pressure for contact, try removing
>all
>memory units and re-seating them. Actual contacts may be cleaned with
>a
>pencil erasure.
>
>Good Luck!

```
>k0coy@amsat.org
>mboyce1856@aol.com
>
>
```

---

967. Re: [APRSSIG:7792] MCX Connector

From: Richard Amirault <amirault@laraby.tiac.net>
Date: Fri, 27 Dec 1996 21:13:26 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.BSF.3.91.961227211002.11539A-100000@laraby.tiac.net>
Rendered body type: text/plain

```
On Fri, 27 Dec 1996, Mark Fellhauer wrote:

> I know we've covered this before, but I wasn't paying attention, because it
> didn't apply to me.
>
> For Christmas I received the Trimble GPS antenna offered by PacComm.  I
> need to find an MCX to BNC adaptor, as I don't want to cut the plug off the
> cable.  In the future, I plan to buy the GPS-20 engine, but for now I'd
> like to use the antenna with my Magellan Trailblazer XL.
>
> Can someone please post a source for these adaptors again?

I recently went thru a similar experience....I cut off the connector on
my Trimble and bought a crimp-on BNC for RG-174. Do *not* bother trying
to crimp this connector (unless you have the *proper* crimp tool) ....
it is easy to *solder* this connector on to the RG-174 cable instead.

Richard Amirault              N1JDU           Boston, Massachusetts USA
amirault@tiac.net        "Go Fly A Kite"
```

---

968. Re: [APRSSIG:7835] Re: Weather Station Compatability

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 27 Dec 96 21:24:58 -0500
To: <aprssig@tapr.org>
Message-ID: <199612280224.VAA21277@newworld.bridge.net>
Rendered body type: text/plain

```
>And amazingly if you boil water the temperature will stay near 212
>degrees F until the water is gone.  I noticed a meat thermometer
>has a test mark at 212 degrees.
>
Only at sea level!

Steve K4HG
```

---

969. test

From: John M Domblewski <wendysue@global2000.net>
Date: Fri, 27 Dec 1996 21:28:34 -0500
To: aprssig@tapr.org
Message-ID: <32C485D2.225E@global2000.net>
Rendered body type: text/plain

```
I'm not sure i'm receiving anything from the sig today.

John
--


John M Domblewski N2OJY
Wendy S Helm N2XXX
503 Middle Grove Rd
Middle Grove New York 12850-1107
518-584-6554
e mailto:wendysue@global2000.net
```

---

970. Re: [APRSSIG:7834] 40m HF discussion

From: David Wells <davew@cruzio.com>
Date: Fri, 27 Dec 1996 20:39:38 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <9612271834.aa00976@bbs.cruzio.com>
Rendered body type: text/plain

```
At 07:14 PM 12/27/96 -0600, you wrote:
>David Wells wrote:
>>
>> At 08:34 PM 12/22/96 -0600, you (N0LRF) wrote:
```

```
>
>> >Think I'll start with 7.085, LSB, to start...
>
>> One problem I see with this freq is that it is in the middle of the RTTY
>> sub-band. About once a month during the RTTY contests you will probably get
>> trashed by RTTY QRM. I will probably be one of them running a Kw to a 2el
beam.
>
>Hi Dave, thanks for the info. Personally, I could live with a day off,
>once a month. Maybe we could shut down APRS that day if we know ahead
>when that would be. I really don't care what freq is used, so long as
>we can live peacefully with our brother/sister hams!
>
>Dave, can you suggest a freq? After a week of work on 7.085, I find
>lots of QRM there from time to time. I would like to propose we try
>7.088.00 LSB as a standard freq---it seems a bit less congested. That's
>probably still in the RTTY band I bet?...
>
>Anyway, what do the rest of you think?
>
>Thanks again Dave, for some constructive criticism...:)
>
>73, Paul, n0lrf@amsat.org
>
>.-
>

Perhaps just below 7080 or just above 7090 but even these are busy in a big
contest.

Dave
David L. Wells KD6TO (KD6 Teletype Operator)
INTERNET: davew@cruzio.com
Watsonville, CA USA
"positive rate, gear up, flaps to initial....I'm outa here!"
```

---

971. Re: [APRSSIG:7809] RE: MCX Connector

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 27 Dec 1996 19:43:13 -0700 (MST)
To: aprssig@tapr.org
Message-ID: <3.0.16.19961227194311.37ef318c@mailhost.primenet.com>
Rendered body type: text/plain

```
At 10:27 AM 12/27/96 -0600, you wrote:

>Hold up before you go and purchase anything.
>
>The connector on the antenna is an SMB plug. The connector on the Garmin
is an MCX.
>
>Don't want you to waste funds on the wrong items.
>
>

I stand corrected.  Now I need a good way to go from SMB to TNC.

Thanks for pointing that out (everyone who did).

73,

Mark
```

---

972. Re: AutoWx & N5KOA

From: Robert Jordan <n5rkn@apex2000.net>
Date: Fri, 27 Dec 1996 20:50:00 -0600
To: aprssig@tapr.org
Message-ID: <32C48AD8.3971@apex2000.net>
Rendered body type: text/plain

```
Miami Network wrote:
>
> I am trying to reach Les the author of AutoWx.  Les I have misplaced
> your E-mail address. If you see this please message me directly.
>
> 73, Seymour, KC4NMY
> miaminet@mcimail.com
Here's Les's e-mail: lcb911@apex2000.net
  Just had lunch with him today & he maintains updates to his
AUTOWX on my bbs.
```

```
  73'  Robert  N5RKN
--
'Twas brillig, and the slithy toves
Did gyre and gimble in the wabe:
All mimsy were the borogroves,
And the mome raths outgrabe.
```

---

973. Re: MCX Connector

```
From: Mark Fellhauer <sparkfel@primenet.com>
Date: Fri, 27 Dec 1996 19:58:16 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <3.0.16.19961227195814.2ec7bd38@mailhost.primenet.com>
Rendered body type: text/plain
```

```
At 08:13 PM 12/27/96 -0600, Richard Amirault wrote:

>I recently went thru a similar experience....I cut off the connector on
>my Trimble and bought a crimp-on BNC for RG-174. Do *not* bother trying
>to crimp this connector (unless you have the *proper* crimp tool) ....
>it is easy to *solder* this connector on to the RG-174 cable instead.
>
>

This sounds like the best most cost effective solution I've gotten so far,
I'll give it a try.

73,

Mark
```

---

974. Re: [APRSSIG:7829] Re: 10m APRS

```
From: "David Michael Gaytko   ***@***   WD4KPD/FM15mm/NC" <cn2859@coastalnet.com>
Date: Fri, 27 Dec 1996 22:10:21 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961228031021.00683060@abaco.coastalnet.com>
Rendered body type: text/plain
```

```
At 17:13 27-12-96 -0600, you wrote:
>On Thu, 26 Dec 1996 18:40:19 -0600 (CST), you wrote:
>
>>Anyone willing to work aprs on 29.29fm @ 1200baud ?
>>Could be something to do with your  2510/2600 Uniden that is getting
>>little use.
>>Comments
>>
>>kf4xh@juno.com
>
>
>what tones/shift and times ??
>
>de Richard/n2jr
>
>
++++++++++++++++++++++++++++++++++++++++++++

if you get an answer, pse let me know also, as i am interested also...david>
```

---

975. Re: [APRSSIG:7820] Weather data reports

```
From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 27 Dec 96 22:47:46 -0500
To: <aprssig@tapr.org>
Message-ID: <199612280347.WAA27990@newworld.bridge.net>
Rendered body type: text/plain
```

```
>    Where we had Txx/Rxxx/Pxxx/Bxxx/Hxxx/U2a ,
>
>    Now see  :  Txx/RxxxpxxxgoooUII    and other variations,
>
>    Is this change intentional, a programing error, or something
>overlooked ?????..

This is a new format begun several months ago to allow higher precision,
note one extra digit for each of the lower case values, droping the '/'
between each save the space for the additional precision made possible by
the newer weather stations.

Check out protocol.txt in the help files.
```

Steve K4HG

976. Fw: Tripmate Power Adaptor Kit

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Fri, 27 Dec 1996 23:15:43 -0500
To: "Sig APRS" <aprssig@tapr.org>
Message-ID: <199612280417.XAA23168@erinet.com>
Rendered body type: text/plain

Message: Hi Folks,

In your haste to get the product out, you neglected to include any instructions with the Kit which I received in the mail today.

Would it be possible to post it on your home page, or send it via e-mail.

Regards

Truman Boerkoel

> From: David Solomon <dsolomon@delorme.com>
> To: 'truxenia@erinet.com'
> Subject: RE: Tripmate Power Adaptor Kit
> Date: Friday, December 27, 1996 9:00 AM
>
> http://www.delorme.com/products/tripmate/kit.htm
>
> David Solomon
> DeLorme Mapping Technical Support
> http://www.delorme.com/support/

977. Tripmate Power Adaptor Kit

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Fri, 27 Dec 1996 23:48:55 -0500
To: "Sig APRS" <aprssig@tapr.org>
Message-ID: <199612280450.XAA28362@erinet.com>
Rendered body type: text/plain

Message: Hi Folks,

In your haste to get the product out, you neglected to include any instructions with the Kit which I received in the mail today.

Would it be possible to post it on your home page, or send it via e-mail.

Regards

Truman Boerkoel

> From: David Solomon <dsolomon@delorme.com>
> To: 'truxenia@erinet.com'
> Subject: RE: Tripmate Power Adaptor Kit
> Date: Friday, December 27, 1996 9:00 AM
>
> http://www.delorme.com/products/tripmate/kit.htm
>
> David Solomon
> DeLorme Mapping Technical Support
> http://www.delorme.com/support/

978. Re: 40m HF discussion

From: Anthony Hickey <fhickey@neosoft.com>
Date: Sat, 28 Dec 1996 01:36:13 -0600
To: aprssig@tapr.org
Message-ID: <32C4CDED.AAD@neosoft.com>
Rendered body type: text/plain

Paul Stump wrote:
>
> Hi Dave, thanks for the info. Personally, I could live with a day off,
> once a month. Maybe we could shut down APRS that day if we know ahead
> when that would be. I really don't care what freq is used, so long as

> we can live peacefully with our brother/sister hams!

After Checking a RTTY contest calender I found that there are at least 19 RTTY contests for 1997 starting on the Jan. 1st. Most of these are weekends lasting 48 hours. I didn't bother to check the specifics, but most are all band which would give us about 40 days of RTTY QRM. I think that is a bit much especially since they are on the weekends when the mobiles might want to use 40m the most.

> Dave, can you suggest a freq? After a week of work on 7.085, I find
> lots of QRM there from time to time. I would like to propose we try
> 7.088.00 LSB as a standard freq---it seems a bit less congested. That's
> probably still in the RTTY band I bet?...
>
> Anyway, what do the rest of you think?

Why doesn't someone try in the 7.100-7.150 range which is virtually unused by hams?
Yes, I know it is filled with broadcast stations, but our signals are narrow enough not to disrupt the reception of a strong station. (like VOA) If we use a freq. like 7.100, 7.105, etc. -one that has a strong broadcast station, we will be protected by all further QRM. All you need to do to see what I mean is to tune in to a strong station on AM and push ssb to see how much more reduced it is. Then if you can switch to a narrower mode to receive like RTTY fsk and after tuning correctly to match the sideband the broadcast station almost disappears. You can't even hear one with a 500hz. filter. I must warn anyone who might want to try this to turn the AGC off if possible since the carriers of the broadcast will drastically decrease your sensitivity even if it isn't audible.

I don't have any ideas of a specific frequency so someone else will have to come up with that.

73, Anthony AB5QR fhickey@neosoft.com

---

979. Re: [APRSSIG:7808] WinAPRS background colors

From: "Don Murray" <james-m@ix.netcom>
Date: Sat, 28 Dec 1996 04:03:01 -0500
To: <aprssig@tapr.org>
Message-ID: <199612280910.BAA23152@dfw-ix4.ix.netcom.com>
Rendered body type: text/plain

Thank you kind sir, give a few days to reevaluate it after your change, and I feel sure my registration fee will be on the way to you..

By the way, your quick response to this suggestions speaks volumes for you and your support of customer suggestions..

Keep up the good work and thanks

Don

> From: Mark Sproul <sproul@ap.org>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7808] WinAPRS background colors
> Date: Friday, December 27, 1996 11:14 AM
>
> First, if anyone is trying to send me private email, my email server
> currently has a full disk and it is probably rejecting any incoming
email.
> If you get email bounced from me, just try to send it again latter.
>
>
> The next release of WinAPRS will have BACKGROUND COLORS, you can set the
> MAP background to any color you like, you can control the text of
callsigns
> to be either BLACK or WHITE. Note, this works on MacAPRS as well.
>
> So, those people that said they would use WinAPRS when it had back ground
> colors, get ready. I hope to have this out by next week.
>
> Other items that we are working on
>
> Maxum Weather stations, we have this working, If ANYONE has one of
> these or is thinking about getting one let us know please.

```
>
>       Mic-E, we are working on getting the Mic-E support and hope to have
> it finished real soon.  This will be both Mac and Windows.
>
>
> Mark
>
>
_________________________________________________________________________
> Mark Sproul                       |Amateur Radio: KB2ICI
> Software Engineer @ Assoc Press  |
> sproul@ap.org                     |Work: 609-860-7120
> North Brunswick, NJ               |Fax:  609-860-7129
> http://msproul.rutgers.edu/
>
_________________________________________________________________________
>
>
```

980. Re: [APRSSIG:7821] AutoWx

From: David Barrett <barrettd@crpl.cedar-rapids.lib.ia.us>
Date: Sat, 28 Dec 1996 05:29:42 -0600
To: aprssig@tapr.org
Message-ID: <32C504A6.3F36@crpl.cedar-rapids.lib.ia.us>
Rendered body type: text/plain

```
Miami Network wrote:
>
> I am trying to reach Les the author of AutoWx.  Les I have misplaced
> your E-mail address. If you see this please message me directly.
>
> 73, Seymour, KC4NMY
> miaminet@mcimail.comHe has a web page hope this helps

<http://www.apex2000.net/personal/lcb911/main.htm>
```

981. PK-12 to Remote Peet Bros Wx Set-up

From: BordingK@aol.com
Date: Sat, 28 Dec 1996 07:29:54 -0500
To: aprssig@tapr.org
Message-ID: <961228072954_777998532@emout02.mail.aol.com>
Rendered body type: text/plain

```
Looking for set-up instructions for AEA PK-12 to either U2/U2000/U500 running
as Remote weather station.

AEA TNC GPS Upgrade Addendum (page 5) states that "Set-Up procedures for U-II
are discussed later in this chapter", but I'm missing that page for some
reason.

Any assistance would be appreciated.  Have a Happy New Year!

de KF4COH
Ken in Jax, FL
```

982. Re: [APRSSIG:7838] Re: Weather Station Compatability

From: Paul Stump <n0lrf@amsat.org>
Date: Sat, 28 Dec 1996 06:42:12 -0800
To: aprssig@tapr.org
Message-ID: <32C531C4.1A9D@amsat.org>
Rendered body type: text/plain

```
Steve Dimse wrote:

> Only at sea level!

With the barometric pressure at 29.92...:)

--
73, Paul, n0lrf@amsat.org
```

983. Wiring up a cable for a GPS II and PK-12

From: n2xdd@juno.com (ed j wilson)
Date: Sat, 28 Dec 1996 08:13:35 PST
To: aprssig@tapr.org
Message-ID: <19961228.081338.8958.0.N2XDD@juno.com>
Rendered body type: text/plain

I purchased a Garmin Power/Data cable with bare ends. I'll wire up the
red/black pair as a cigarette plug. How to I wire up the brown/white
pair?
to which pins of a 25 pin connector?

Is there anyone selling printed circuit boards for a single port
connector?

tnks for the bandwidth!
73 de N2XDD Ed

---

984. javAPRS Improvements

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 28 Dec 96 08:38:22 -0500
To: <aprssig@tapr.org>
Message-ID: <199612281338.IAA24823@newworld.bridge.net>
Rendered body type: text/plain

I have made a significant improvement in the way javAPRS handles screen
updates, but there is a report it may not work correctly on all machines.
I'd like to get an idea how widespread the problem is...

If you have a java capable browser, I ask that you go to the following
page and tell me if it works for you...let me know what OS and browser
you use. Please email directly to me (sdimse@bridge.net) not to the sig.

http://www.wa4dsy.radio.org/aprs/soeast.html

Thanks de Steve K4HG

---

985. Equipment for Sale

From: "Bob Dye" <kc4hdk@gate.net>
Date: Sat, 28 Dec 1996 08:51:52 -0500
To: "Bill J. Sinbine (N4XEO)" <stonehvn@gate.net>,
"Steve M Sherer" <ssherer2@juno.com>,
"saved2@juno.com (SALE)" <saved2@juno.com>,
"Matt N8RZZ Regan" <n8rzz@gate.net>, "Pat (THC)" <Snorkel001@aol.com>,
"Stacey E. Mills, (SALE) M.D." <sem2r@virginia.edu>,
"Jo M" <joseph@gate.net>, "Jim Ketring" <wireless@bellsouth.net>,
"John N4PLY Kuklinski" <n4ply@amsat.org>,
"Jack Honacher (KO4XG)" <JHonacher@aol.com>,
"Richard Garcia" <n2czf@magg.net>, "Bob KC4HDK Dye" <kc4hdk@gate.net>,
"GEORGE DAWSON" <wa4owc@treco.net>, "aprs sig" <aprssig@tapr.org>,
<keps@amsat.org>
Message-ID: <199612281352.IAA26052@osceola.gate.net>
Rendered body type: text/plain

Well here is the list. Most of this equipment was hardly ever used. I am
getting out of many parts of ham radio concentrating on my UHF repeater and
links to it. I will pay for shipping. Can do COD or check in advice.
Please pass on this message to others that may be interested. If you are
on packet please post it on the local BBS. Trying to generate revenue.
Thank you for your time. People have asked if I was a smoker. No I nor
anybody
in my home smokes. The TS-690SAT is stock out of the factory with no extra
filters. If interested will discuss other offers. Need cash. I have
references to others
that I have sold via e-mail/UPS and they were very happy.

Magellan Meridian GPS in good condition with Data Cable
$150!!

MFJ   VERSA TUNER V GOOD
$250

KENWOOD   TS690   EXCELLENT, WITH INTERNAL ANT TUNER
$1,200

AEA   DSP-232   NEW IN BOX
$343

YAESU   G-5400B   EXCELLENT, WITH SEPARATOR KIT,
200'CABLE $456

Bob
kc4hdk@gate.net
561.552.3114 Voice Mail

---

986. street atlas 4.0s cd w/ gps-75

From: tarship@juno.com (GLEN A FULLER)
Date: Sat, 28 Dec 1996 09:21:49 EST
To: aprssig@tapr.org
Message-ID: <19961228.081955.4471.9.TARSHIP@juno.com>
Rendered body type: text/plain

i have the delorme street atlas 4.0s and garmin 75 gps operating in nmea
0183 mode.. something does not work right.
i get acquiring satellites and then 3 min later a msg: no activity
the gps garmin 75 does work well with another program called gps-37

any ideas out there?

tarship@juno.com

al7jx glen

---

987. Re: [APRSSIG:7848] Re: 40m HF discussion

From: rhiii@mnsinc.com (Richard H.)
Date: Sat, 28 Dec 1996 14:30:59 GMT
To: aprssig@tapr.org
Message-ID: <32c62b25.7709901@relay.mnsinc.com>
Rendered body type: text/plain

```
That's the novice CW band and think they already have enough grief
from broadcasters without packeteers adding to it.

de Richard/n2jr
----------------------------------------------------------------------------------------------------
On Sat, 28 Dec 1996 01:35:58 -0600 (CST), you wrote:

>Paul Stump wrote:
>>
>> Hi Dave, thanks for the info. Personally, I could live with a day off,
>> once a month. Maybe we could shut down APRS that day if we know ahead
>> when that would be. I really don't care what freq is used, so long as
>> we can live peacefully with our brother/sister hams!
>
>
>After Checking a RTTY contest calender I found that there are at least
>19 RTTY contests for 1997 starting on the Jan. 1st.  Most of these are
>weekends lasting 48 hours.  I didn't bother to check the specifics, but
>most are all band which would give us about 40 days of RTTY QRM.  I
>think that is a bit much especially since they are on the weekends when
>the mobiles might want to use 40m the most.
>
>
>> Dave, can you suggest a freq? After a week of work on 7.085, I find
>> lots of QRM there from time to time. I would like to propose we try
>> 7.088.00 LSB as a standard freq---it seems a bit less congested. That's
>> probably still in the RTTY band I bet?...
>>
>> Anyway, what do the rest of you think?
>
>Why doesn't someone try in the 7.100-7.150 range which is virtually
>unused by hams?
>Yes, I know it is filled with broadcast stations, but our signals are
>narrow enough not to disrupt the reception of a strong station. (like
>VOA)   If we use a freq. like 7.100, 7.105, etc. -one that has a strong
>broadcast station, we will be protected by all further QRM.  All you
>need to do to see what I mean is to tune in to a strong station on AM
>and push ssb to see how much more reduced it is.  Then if you can switch
>to a narrower mode to receive like RTTY fsk and after tuning correctly
>to match the sideband the broadcast station almost disappears. You can't
>even hear one with a 500hz. filter. I must warn anyone who might want to
>try this to turn the AGC off if possible since the carriers of the
>broadcast will drastically decrease your sensitivity even if it isn't
>audible.
>
>I don't have any ideas of a specific frequency so someone else will have
>to come up with that.
```

```
>
>                                 73, Anthony AB5QR  fhickey@neosoft.com
>
>
```

988. Re: [APRSSIG:7853] Wiring up a cable for a GPS II and PK-12

```
From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 06:47:06 -0800
To: aprssig@tapr.org
Message-ID: <199612281447.GAA10106@m1.sprynet.com>
Rendered body type: text/plain
```

```
At 07:15 12/28/96 -0600, you wrote:
>
>I purchased a Garmin Power/Data cable with bare ends. I'll wire up the
>red/black pair as a cigarette plug. How to I wire up the brown/white
>pair?
>to which pins of a 25 pin connector?

The brown wire goes to pin 2 and the white wire is left UNCONNECTED.

>Is there anyone selling printed circuit boards for a single port
>connector?

An SPM is EASY to build!  Just an SPDT momentary contact switch from Radio
Shack in the Pin 2 line is all it takes.  If you're challenged by that let
me know by return EMail (private).  I may be able to help you....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

989. Re: [APRSSIG:7836] Re: I'm Loosing my Memory

```
From: John W  Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sat, 28 Dec 1996 09:48:59 -0500 (EST)
To: aprssig@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612280920.A20237-0100000@bcfreenet>
Rendered body type: text/plain
```

```
We used to 'erase' the dirty gold contacts years ago but were then
advised that the eraser did more eventual damage than the immediate
cleaning from the rubbing.  Try denatured alcohol on a napkin, 90 percent
if you can find it.  That is also the stuff (90 percent) that is
suggested for cleaning tape heads of all sorts.  73,


John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us


On Fri, 27 Dec 1996, Robert W Gervenack wrote:

> DOES NOT THE SULPHUR IN THE RUBBER ERASER EFFECT THE METAL IN THE
> CONTACT?
> Seems to me it would be better to use a non-corrosive type cleaner.
> Gervie
> rgervenack@juno.com
>
> On Fri, 27 Dec 1996 18:45:57 -0600 (CST) MBoyce1856@aol.com writes:
> >Since all simm assemblies rely on pressure for contact, try removing
> >all
> >memory units and re-seating them. Actual contacts may be cleaned with
> >a
> >pencil erasure.
> >
> >Good Luck!
> >k0coy@amsat.org
> >mboyce1856@aol.com
> >
> >
>
```

990. HSP adapter

```
From: rwf@mindspring.com
Date: Sat, 28 Dec 1996 10:12:18 -0500
```

To: aprssig@tapr.org
Message-ID: <3.0.32.19961228101157.00a70020@mindspring.com>
Rendered body type: text/plain

N2XDD was asking about adapter boards

I gather you mean a "HSP Adapter" (Hardware Serial Port)

I think Bob told me once that FAR Circuits was doing up a board.
It is a pretty simple circuit to breadboard, though.
I just spent the money for the PacComm one 'cause it wasn't worth my time
to diddle with it.

Of course Now that I use the PicoPacket, it is built in to the Pico's
hardware/software.

When you do get an HSP, do yourself a favor and make sure it is getting
power- either from the laptop or the tnc or a 9v battery. It is very
frustrating to try to get an unpowered circuit working- and that is the
most frequent problem with HSP adapters.

73

Ralph
n4neq

---

991. Re: [APRSSIG:7856] street atlas 4.0s cd w/ gps-75

From: "Jimmy Burkhalter" <kb5wio@fia.net>
Date: Sat, 28 Dec 1996 09:15:12 -0600
To: "Glen A Fuller" <tarship@juno.com>
Cc: <aprssig@tapr.org>
Message-ID: <199612281514.HAA15831@kinsey.fia.net>
Rendered body type: text/plain

Glen,

We could use a little more info on how you have your USA Street atlas setup, like what GPS setup are you using in the GPS menu, you can try the Generic GPS setting. Let us know what setting you are using and we can help better.

Jimmy Burkhalter   Amarillo, Texas
KB5WIO
kb5wio@fia.net

> From: GLEN A FULLER <tarship@juno.com>
> To: aprssig@tapr.org
> Subject: [APRSSIG:7856] street atlas 4.0s cd w/ gps-75
> Date: Saturday, December 28, 1996 8:28 AM
>
> i have the delorme street atlas 4.0s and garmin 75 gps operating in nmea
> 0183 mode.. something does not work right.
> i get acquiring satellites and then 3 min later a msg: no activity
> the gps garmin 75 does work well with another program called gps-37
>
> any ideas out there?
>
> tarship@juno.com
>
> al7jx glen
>

---

992. Re: [APRSSIG:7858] Re: Wiring up a cable for a GPS II and PK-12

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 28 Dec 1996 10:59:29 -0400
To: ku0g@sprynet.com
Cc: Aprssig@tapr.org
Message-ID: <851788769-0-eac@shore.net>
Rendered body type: text/plain

Hello,

Should the negative power lead also be connected to the ground pin on the
serial connector?

73 Eric eac@shore.net

---

993. Re: [APRSSIG:7858] Re: Wiring up a cable for a GPS II and PK-12

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sat, 28 Dec 1996 11:15:38 -0400
To: ku0g@sprynet.com
Cc: aprssig@tapr.org
Message-ID: <851789738-0-eac@shore.net>
Rendered body type: text/plain

Hello,

Yes. But in my situation I also use the GPS connected to a laptop
that has no connection to the power source of the GPS.

I rather cover most of the bases so I will not later waste time later
trying
to figure out why the setup works in the car but not portable with the GPS
using it's internal batteries.

73 Eric eac@shore.net

---

994. AA2AC de K4HG

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 28 Dec 96 12:50:37 -0500
To: <aprssig@tapr.org>
Message-ID: <199612281750.MAA11545@newworld.bridge.net>
Rendered body type: text/plain

Sorry for the bandwidth on the sig, but I don't have a direct email
address.

AA2AC, if you are on the sig, or if anyone can get a message to him, the
date on his U-2000 is set to May...found this out while testing the
U-2000 parsing code.

Steve K4HG

---

995. Re: [APRSSIG:7853] Wiring up a cable for a GPS II and PK-12

From: Bruce Douberley <bcdpe@innova.net>
Date: Sat, 28 Dec 1996 13:19:56 -0500
To: aprssig@tapr.org
Message-ID: <32C564CC.493A@innova.net>
Rendered body type: text/plain

ed j wilson wrote:
>
> I purchased a Garmin Power/Data cable with bare ends. I'll wire up the
> red/black pair as a cigarette plug. How to I wire up the brown/white
> pair?
> to which pins of a 25 pin connector?
>
> Is there anyone selling printed circuit boards for a single port
> connector?
>
> tnks for the bandwidth!
> 73 de N2XDD Ed

It seems a number of us need help in getting the garmins wired. This is
the 3rd or 4th request for help I have made with no reply. I will look
for a reply and if it comes will archive for life. Which nmea version
should it be set on 183 ver 1.5 or 2? AEA says blk wire to pin 1 on pk12
bwn on pin 2. The FAQ says pin 3 and 7. HELP
Thanks,
Bruce
WB4JNE
bcdpe@innova.net

---

996. Re: [APRSSIG:7854] javAPRS Improvements

From: Dale Seaburg <dseaburg@web-access.net>
Date: Sat, 28 Dec 1996 12:25:30 -0600
To: aprssig@tapr.org
Message-ID: <32C5661A.7845@web-access.net>
Rendered body type: text/plain

Steve Dimse wrote:
>
> I have made a significant improvement in the way javAPRS handles screen

```
> updates, but there is a report it may not work correctly on all machines.
> I'd like to get an idea how widespread the problem is...
>
> If you have a java capable browser, I ask that you go to the following
> page and tell me if it works for you...let me know what OS and browser
> you use. Please email directly to me (sdimse@bridge.net) not to the sig.
>
> http://www.wa4dsy.radio.org/aprs/soeast.html
>
> Thanks de Steve K4HG
 ----------------------------

Steve,

I'm running NetScape 3.0Gold for NT.  I'm running NT 4.0 final release.
I only see the grey outline with no map.  I do see where the server is
updating who appears etc.  PageUp or Down does nothing.  I do see the
message that a Java Applet is running.

Hope this helps.

73 - Dale.  KG5LT
dseaburg@web-access.net
```

997. Re: [APRSSIG:7702] MapFix29

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sat, 28 Dec 1996 10:29:47 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961228101638.28028B-100000@draco.bison.mb.ca>
Rendered body type: text/plain

```
On Wed, 25 Dec 1996, jud wrote:

>
> I just downloaded 77F today and every thing seems to work OK except I can't
> load a map using MapFix29.  Works fine using MapFix28.  Anyone else having
> this problem?

Unfortunately I'm to blame for the problems with MapFix29 as Bob
implemented some suggestions that I sent him but I had not fully tested.
The workaround for the time being is as follows:

MapFix defaults to the \APRS\MAPS\ directory as Arte has pointed out. You
can change this by typing the path name in front of the file name when
you load the map. MapFix will then use the new path as the default until
you type a new path name. Also, a currect bug in the program (I've sent a
fix to Bob) means that you can only load filenames with the .map
extension and only if you leave off the .map. When things get working
properly, to load a map from the \APRS\MAPS\ directory you will only need
to type in the name of the map leaving off the path and the .map
extension.

If you guys who pound out the maps feel that the old way was better or
have any better ideas, I (and Bob) would like to hear them.

Happy New Year to all.

Michael
--
Michael Markmann VE4MJM        Winnipeg, Manitoba, Canada
ve4mjm@draco.bison.mb.ca
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
```

998. Re: [APRSSIG:7857] Re: 40m HF discussion

From: Anthony Hickey <fhickey@neosoft.com>
Date: Sat, 28 Dec 1996 12:51:04 -0600
To: aprssig@tapr.org
Message-ID: <32C56C18.37ED@neosoft.com>
Rendered body type: text/plain

```
Richard H. wrote:
>
> That's the novice CW band and think they already have enough grief
> from broadcasters without packeteers adding to it.
>
> de Richard/n2jr

Yes, very true, I overlooked it.  The Important point is that we MUST
avoid the RTTY sub-band.  If we could tuck ourselves just inside the
```

```
novice sub-band like 7.100 USB then we wouldn't create too much of a
problem.  The novices won't try to work on the band edge.  And the RTTY
will stay away from the power limitations.  It should be ok as long as
no one needs to run over 200w.

                        73, Anthony AB5QR
```

---

999. Delorme Tripmate Q?

From: "Alan K. Adamson" <ne1h@tornado.ne1h.radio.org>
Date: Sat, 28 Dec 1996 14:09:52 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF4C8.CC6C3260@typhoon.ne1h.radio.org>
Rendered body type: text/plain

```
Anyone got a tripmate.  It says on the box, that it will only work with the delorme s/w, but I saw a
posting on the newsgroups about someone that had the docs for the gps part and said that it will respond
 to NMEA strings, but you might have to send it a command then then have it respond as opposed to just
waiting for it to respone on it's own.  I might be a real inexpensive GPS if it can work, sells for
less than $150 and included the delorme Street Atlas 4.0 S/W on CD.

Please post to group and email if you would please

Thanks,
Alan Adamson
ne1h@ne1h.radio.org
Atlanta, GA
```

1000. WX report formats..

From: "William B. Bliss/WB6LPG" <wbliss@coastside.net>
Date: Sat, 28 Dec 1996 11:36:01 -0800
To: aprssig@tapr.org
Cc: wb4apr@amsat.org
Message-ID: <199612281936.LAA15884@poseidon.coastside.net>
Rendered body type: text/plain

```
Hi SIGers,
    My previous msg on weather report format.V7.7f.
Thanks Steve/K4HG for info on where I should look.
  KISS for us older folks who don't see and read all
the new info. WX format fully explained in WX.TXT and
PROTOCOL.TXT files of the DOS Readme.Dir. Still like the
old single stroke commands, all this new fancy commands
confusing. KISS...Now see new Unproto path entry required,
where, just plain U and type in what wanted. was so easy.
Another KISS ..   Sorry for the wasted info/bandwidth.

      HAPPY NEW YEAR , TO all you SIGGERS & sinners.
  73's & Enjoy, Bill/WB6LPG
NNNN
WBB/WB6LPG
```

1001. TRIPMATE

From: jud <judlynn@norfolk.infi.net>
Date: Sat, 28 Dec 1996 15:13:27 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <199612282013.PAA13244@mh004.infi.net>
Rendered body type: text/plain

```
I just bought the DeLorme Tripmate.  I seem to be having trouble getting
data from it. I connected it directly to my laptop and put it on the
Terminal page of APRS to see what data was coming through. I also tried this
on other Terminal programs on the laptop and palmtop and got the same data.
This is what I received:
$PRWIRID,12,01,05,07/29/96,0003*46
$GPRMC,235959,V,3650.9863,N,0763.1587,W,0.000,0.0,120895,10,3,W*58
$PRWIZCH,00,0,00,0,00,0,00,0,00,0,00,0,00,0,00,0,00,0,00,0,00,0,00,0*4D
ASTRAL
ASTRAL
ASTRAL
ASTRAL
etc.

It keeps doing ASTRAL. If I shut it off and start over it will repeat the
first 3 lines and then just ASTRAL.  The coordinates in the 2nd sentence are
correct for my location, but that line has never changed even when I move.

Anyone have any idea what I am doing wrong?  It had plently of time to
acquire satellites.  I even put in my system in place of my GPS45XL, but it
did not work there.
```

What is ASTRAL?

Any help would be greatly appreciated. 73, Jud, KE4HFX

```
                              ))(((((
                              )_   _(
                              [o   o]
==========================OOO===(_)===OOO==========================
                         Jud French, KE4HFX
                      judlynn@norfolk.infi.net
===================================================================
5423 Barnhollow Rd.
Norfolk, VA 23502-3604
```

1002. Re: [APRSSIG:7844] Re: 10m APRS

From: Chris Dapples <ccdapple@wtp.net>
Date: Sat, 28 Dec 1996 13:35:26 -0700
To: APRSsig <aprssig@tapr.org>
Message-ID: <9612282035.AA22623@wtpprod1.wtp.net>
Rendered body type: text/plain

I'll give it a try as soon as my Butternut Multiband
gets here (ordered Fri before Xmas).
        Chris / KF7KN

```
>From: ***@***
>Date: 12/27/96  9:13:24PM
>To: aprssig@tapr.org
>Subject: [APRSSIG:7844] Re: 10m APRS
>
>At 17:13 27-12-96 -0600, you wrote:
>>On Thu, 26 Dec 1996 18:40:19 -0600 (CST), you wrote:
>>
>>>Anyone willing to work aprs on 29.29fm @ 1200baud ?
>>>Could be something to do with your  2510/2600 Uniden
>that is getting
>>>little use.
>>>Comments
>>>
>>>kf4xh@juno.com
>>
>>
>>what tones/shift and times ??
>>
>>de Richard/n2jr
>>
>>
>+++++++++++++++++++++++++++++++++++++++++++++
>
>if you get an answer, pse let me know also, as i am
>interested also...david>
>
>
>
```

1003. Re: [APRSSIG:7871] TRIPMATE

From: Robert Winingham <kc5ejk@onramp.net>
Date: Sat, 28 Dec 1996 14:50:04 -0600
To: aprssig@tapr.org
Message-ID: <v03007802aeeb33e1b905@[199.1.11.115]>
Rendered body type: text/plain

One posted today
>I just bought the DeLorme Tripmate.>ASTRAL
>ASTRAL

then also today

>Anyone got a tripmate. It says on the box,

There were lots of posting about the Tripmate this month you must have
missed ....   see the tapr mail archives

I posted Monday the Tripmate FAQ address here it is again :
ftp://sundae.triumf.ca/pub/peter/tripmate.faq

read that first.

If you tie pin 2 to 3, making the output go into the input
the Tripmat will self start. Then just run ground and output

to your computer. DOS, WIN, MAC APRS can read the NMEA output.

Lots of GPS/NMEA info on:

ftp://sundae.triumf.ca/pub/peter/index.html

The Garmin GPS45 FAQ is on:

ftp://sundae.triumf.ca/pub/peter/gps45faq.txt

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

1004. Re:[APRSSIG:7799] Re: SiRF GPS chipset

From: mark.endicott@nashville.com
Date: Sat, 28 Dec 96 14:51:53
To: aprssig@tapr.org
Message-ID: <199612282102.PAA20031@tapr.org>
Rendered body type: text/plain

SIRF ADDRESS:

SiRF Technology, Inc.
107 San Zeno Way
Sunnyvale, CA 94086
(408) 737-6605
http://www.sirf.com

Good Luck....Mark

```
   _____________________________
  |                              \
  |         Mark Endicott          \
  |        P.O. Box 148242           \
  |   Nashville, Tennessee 37214      >
  |             WB0NOO               /
  |  mark.endicott@nashville.com   /
  |______________________________/
```

1005. Re: Weather data reports

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 28 Dec 1996 16:10:43 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961228160842.19989B-100000@arctic>
Rendered body type: text/plain

On Fri, 27 Dec 1996, William B. Bliss wrote:

```
>     Just noticed a slight difference in the data readout
>     As indicated in examples below, the later versions of
> APRS , Ver77 on have dropped the Upper case letters of
> data field to lower case in most instances., aparantly after
> the Temp/Rain/p,b,h, etc....?????
>
>     Where we had Txx/Rxxx/Pxxx/Bxxx/Hxxx/U2a ,
>
>     Now see  :  Txx/RxxxpxxxgoooUII    and other variations,
>
>     Is this change intentional, a programing error, or something
> overlooked ?????..
```

APRSdos REPLY/COMMENT: Yes, its thw new format to make room for wind Gusts. See the NEWNOTES.TXT that comes with each new version of APRSdos. THat change was made several months ago...

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

1006. Re: [APRSSIG:7848] Re: 40m HF discussion

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 28 Dec 1996 16:40:53 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961228163831.19989J-100000@arctic>
Rendered body type: text/plain

```
On Sat, 28 Dec 1996, Anthony Hickey wrote:

> Why not try in the 7.100 to 7.150 area which is virtually
> unused by hams?
> Yes, I know it is filled with broadcast stations, but our signals are
> narrow enough not to disrupt the reception of a strong station. (like
> VOA)   If we use a freq. like 7.100, 7.105, etc. -one that has a strong
> broadcast station, we will be protected by all further QRM.

APRSdos REPLY/COMMENT: This is what I was thinking too.  I would rather
not fight other HAMS for bandwidth.  ALso, I am assuming that this would
be a daytime use band for short range...  NOT at night.  Are not the
broadcasters mostly on at night only?  I wouldnt mind that at all...

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

1007. Re: Weather station equipment

From: "Hector Cintron" <kipdee@isla.net>
Date: Sat, 28 Dec 1996 17:49:21 -0400
To: aprssig@tapr.org
Message-ID: <32C595E1.7C48@isla.net>
Rendered body type: text/plain

```
Date: Thu, 26 Dec 1996 10:43:56 -0500 (EST)


>
>   I'm creating a quick reference guide of all weather stations that can
> be use with APRS, price & requirements.  The reason I'm doing this is

>APRSdos REPLY/COMMENT:  I have a WeatherMAX unit that I am supposed to
>write the interface for, but so far no one has indicated that they have
>one of theese, so the priority keeps getting bumped to the bottom of the
>list.  So add this to the list on your WEB page if it is not already
>there, but put an asterix indicating (availability TBD)


Hi Bob

Thanks for the reply.  WeatherMax wasn't on the list but I Just put it
there. Do you know if they have a page on the net?  Right now the only
ones I have listed are there are Davis, Peet, WeatherMax & Radio Shack.
Also just to make sure TBD is to be develope? TTYL.



      _\\|//_
     {`\0-0/'}
*==ooO==(_)==Ooo=============================================================*
Happy Holidays & 73's de N1TKK

 Hector Cintron - N1TKK
 E-mail - kipdee@isla.net
         skywarn@isla.net

 Puerto Rico SKYWARN Homepage - http://www.isla.net/skywarn
 Puerto Rico SKYWARN Mailing List -
http://www.isla.net/skywarn/maillist.html

 I'm Hector Cintron from the clan Cintron, "There Can Be Only one"
@///////|====================================================================*
```

1008. Re: 30 and 40 meter monitor

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Sat, 28 Dec 1996 13:55:07 -0800 (PST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961228133558.23781I-100000@oso.slonet.org>
Rendered body type: text/plain

```
There has been a suggestion made to enter the novice portion of 40 meters
with APRS signals.  At first I supported this idea but no longer!  Here is
the reason why.  These stations heard on 10151.5.  How many more on 40 M??
28Dec 00-02 UTC:  K7PW, KA5ULE, WV0T, KJ7HZ, AA5PK, N7UVH
      20-21 UTC:  KF0ZH, N6OAA, VE3NEC, WC7R, WA8RPR, KB7LOJ, W1CDM,
KO6XS, VE4GN, KD6UDC, W7FEN, KH0MP, W9VZK, K5QQ, AC6JA, KI6MP, K6KRW,
WV0T, W1TDG, KB7KOJ, VE3NP, KC0CZ, W7LUS, W7JZU, WB9HBH, KB6LFM, KE3WA,
KE6NEX, W1GTT
```

This of course, is just two one hour samples. The packets go on almost continually during the weekend. Do you think we have a right to enter the novice band with such activity? The very least objectionable solution might be to to place our MARK frequency at 7100 minus 2125 Hertz or 7097.87 KHz. We seem to have sucessfully captured the 30 meter frequency with this idea in mind. Cliff Buttschardt K7RR

1009. Re: [APRSSIG:7878] Re: 30 and 40 meter monitor

From: schiers@ames.net
Date: Sat, 28 Dec 96 17:43:06 -0500
To: aprssig@tapr.org
Message-ID: <199612282344.RAA05414@brain.ames.net>
Rendered body type: text/plain

In <Pine.GSO.3.95.961228133558.23781I-100000@oso.slonet.org>, on 12/28/96 at 04:03 PM,
Clifford Buttschardt <cbuttsch@slonet.org> said:

>These stations heard on 10151.5. How many more on 40 M??
>28Dec 00-02 UTC: K7PW, KA5ULE, WV0T, KJ7HZ, AA5PK, N7UVH
> 20-21 UTC: KF0ZH, N6OAA, VE3NEC, WC7R, WA8RPR, KB7LOJ, W1CDM,
>KO6XS, VE4GN, KD6UDC, W7FEN, KH0MP, W9VZK, K5QQ, AC6JA, KI6MP, K6KRW,
>WV0T, W1TDG, KB7KOJ, VE3NP, KC0CZ, W7LUS, W7JZU, WB9HBH, KB6LFM, KE3WA,
>KE6NEX, W1GTT

I'm hurt...my call didn't show up! Hmmmm...could it have been that I was on 14.230 SSTV during that time? Boy, I can't wait until my 2nd hf rig shows up in a week or two. Until then, on Saturday mornings from about 1500-2100 utc my hf rig is on sstv, so don't be surprised if I'm not there during that time span +/- interesting pix. 73,

hasan schiers, N0AN

----

schiers@ames.net

1010. Re: [APRSSIG:7871] TRIPMATE

From: Robert Henglein <henglein@bihs.net>
Date: Sat, 28 Dec 1996 17:40:00 -0800
To: aprssig@tapr.org
Message-ID: <32C5CBF0.12AC@bihs.net>
Rendered body type: text/plain

jud wrote:
>
> I just bought the DeLorme Tripmate. I seem to be having trouble getting
> data from it. I connected it directly to my laptop and put it on the
> Terminal page of APRS to see what data was coming through. I also tried this

> Anyone have any idea what I am doing wrong? It had plently of time to
> acquire satellites.

type capitol letters ASTRAL <cr> to start the Tripmate.
(<cr> is the enter key)

Henglein@bihs.net

1011. FREE CONNECTORS for Wiring Garmins to PCs

From: Larry Griffin <largriff@swta.com>
Date: Sat, 28 Dec 1996 18:01:59 -0600
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF4E9.3A317E20@red169.onramp.net>
Rendered body type: text/plain

For those of you faced with wiring your Garmin GPS receiver to your PC, be sure to check out:

http://home.cdsnet.net/~purple/projects/g45contr/g45_idx.htm

Not only is there excellent information on how to wire it up, but you can order connectors for a fraction of the price Garmin charges! Well, not really free, but certainly risk free! See the webpage for detail.

Larry Griffin - not affiliated with above source... just a happy client!

1012. Re: Rose Parade Coverage

From: hfigueroa@juno.com (Hector M Figueroa)
Date: Sat, 28 Dec 1996 19:26:11 EST
To: aprssig@tapr.org
Message-ID: <19961228.162458.14230.0.Hfigueroa@juno.com>
Rendered body type: text/plain

```
I am involved in running APRS for the parade, I will arrange for the
parade leader to becon via the gate.
For the most part, the majority of APRS work will be pre-parade float
convoys and staging.  If  anyone wants to see this let me know and I will
make it so.

Hector M. Figueroa  E-Mail Hfigueroa@juno.com
World Wide Web Page  http://www.geocities.com/CapeCanaveral/1629
Amateur Radio Call KE6VRL
Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM


On Fri, 27 Dec 1996 17:49:59 -0600 (CST) David/Roxanne McCarthy
<davidmc@goodnet.com> writes:
>Too bad this isn't Gated so all of us could watch it on our maps.
>--
>David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
>email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
>Visit the family homepage: http://www.goodnet.com/~davidmc/
>"As for me and my house, we will serve the Lord."  Jos 24:15
>
>
```

1013. javAPRS Test Results

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 28 Dec 96 19:27:03 -0500
To: <aprssig@tapr.org>
Message-ID: <199612290027.TAA10537@newworld.bridge.net>
Rendered body type: text/plain

```
Thanks to all who helped me test javAPRS. The problem surfaced when I
improved the threading of the program to improve it's responsiveness and
eliminate the annoying multiple redraw when scrolling through the applet
in Netscape. The problem only surfaces in Windows NT and results in
incomplete map drawing. To give you an idea of how poorly cross-platform
Java is, here are the results:

Windows 95....11 of 12 good, one "Applet won't initialize" crash
(different bug)

Mac....3 of 3 good

OS/2   0 of 1, crashes Netscape completely

Windows NT 0 of 2

Results like these make it very hard to work in Java! I may have to go
back to the old way of handling updates.

Steve K4HG

P.S. Just as I was about to send this message I got another report from a

Mac user that showed the same bug as Netscape....arrrg!

Steve
```

1014. Space Station Mir.

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 16:49:21 -0800
To: aprssig@tapr.org
Message-ID: <199612290049.QAA08868@m1.sprynet.com>
Rendered body type: text/plain

```
Hi Siggers....

I received this today.  You may wish to review it!!!!

73 de Jim, KU0G


>Date: Sat, 28 Dec 1996 12:29:34 -0500
>From: Malcolm Mallette <mallettem@trader.com>
```

>Reply-To: mallettem@trader.com
>To: ku0g@sprynet.com
>Subject: Space Station Mir.
>
>Dear Mr. Duncan,
>
>   In order to avoid interference with the U.S. Space Shuttle, the Mir
>space station has moved to 145.800 MHz. In Indianapolis, I am having
>problems with stations off frequency from 145.800 and they appear to be
>on 145.79 .
>
>The earth has only on space station. In the interest of international
>co-operatoon, it would be appreciated if the APRS operation could be
>moved away from the MIR frequency of 145.800. I cannot believe that
>anyone would want to interfere with the Mir.
>
>Malcolm WA9BVS
>

1015. Re: Space Station Mir.

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 17:02:39 -0800
To: aprssig@tapr.org
Message-ID: <199612290102.RAA10853@m1.sprynet.com>
Rendered body type: text/plain

Here is my response to the inquiry relative to MIR interference. Opinions
appreciated....

>Date: Sat, 28 Dec 1996 19:01:31
>To: mallettem@trader.com
>From: Jim Duncan <ku0g@sprynet.com>
>Subject: Re: Space Station Mir.
>
>At 12:29 12/28/96 -0500, you wrote:
>>   In order to avoid interference with the U.S. Space Shuttle, the Mir
>>space station has moved to 145.800 MHz. In Indianapolis, I am having
>>problems with stations off frequency from 145.800 and they appear to be
>>on 145.79 .
>
>First, I am no where near Indianapolis. I am sorry that you are having
problems in your area, however I am unable to assist you with your problems.
>
>>The earth has only on space station. In the interest of international
>>co-operatoon, it would be appreciated if the APRS operation could be
>>moved away from the MIR frequency of 145.800. I cannot believe that
>>anyone would want to interfere with the Mir.
>
>I certainly appreciate your concerns however, I would like to point out the
following:
>
>1) APRS has been operating on 145.79 NATIONALLY for five years
continuously. The MIR operations were moved without any prior notice or
inquiry put forth to anyone.
>
>2) Stations operating with proper FM bandwidth should NOT present a
problem of interference with operations 10 kHz away from their primary
operating frequency.
>
>3) It would seem that you have a problem in your immediate area which
should be addressed to those stations operating APRS in your vicinity rather
than to me, 500 miles away.
>
>From my point of view, while I appreciate your concern and appreciate the
presence of the MIR operations and their availability to the general amateur
populace, the move on MIR's part was made without any consideration to
potential interference to terrestrial operations on adjacent frequencies.
Personally, I would hope that this matter could be resolved be rational
persons working together. We have an average of 20 stations operating APRS
here in the Kansas City area. We also have a goodly number of amateurs
actively working MIR. We are not encountering problems here in our area
with interference either way.
>
>I appreciate your concern and your opinion and wish you the best of luck in
working things out in Indianapolis. If I can be of further service, please
advise me, however I do not believe that I can be of much influence or
assistance outside of my own area.
>

>
>>
>>Malcolm WA9BVS
>

1016. Re: [APRSSIG:7882] Re: Rose Parade Coverage

From: David/Roxanne McCarthy <davidmc@goodnet.com>
Date: Sat, 28 Dec 1996 18:06:31 -0700
To: aprssig@tapr.org
Message-ID: <32C5C410.2E10@goodnet.com>
Rendered body type: text/plain

Hector M Figueroa wrote:
>
> I am involved in running APRS for the parade, I will arrange for the
> parade leader to becon via the gate.
> For the most part, the majority of APRS work will be pre-parade float
> convoys and staging. If anyone wants to see this let me know and I will
> make it so.

Sounds great to me. Please do.
--
David McCarthy - KC7AYX - Motorola Amateur Radio Club of AZ
email: davidmc@goodnet.com   packet: kc7ayx@kc7y.az.usa.noam
Visit the family homepage: http://www.goodnet.com/~davidmc/
"As for me and my house, we will serve the Lord." Jos 24:15

1017. Re: [APRSSIG:7868] Re: 40m HF discussion

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 17:07:27 -0800
To: aprssig@tapr.org
Message-ID: <199612290107.RAA11827@m1.sprynet.com>
Rendered body type: text/plain

At 12:51 12/28/96 -0600, you wrote:
>Yes, very true, I overlooked it. The Important point is that we MUST
>avoid the RTTY sub-band. If we could tuck ourselves just inside the
>novice sub-band like 7.100 USB then we wouldn't create too much of a
>problem. The novices won't try to work on the band edge. And the RTTY
>will stay away from the power limitations. It should be ok as long as
>no one needs to run over 200w.
>

Hold on, folks!!!!

It was pointed out to me today that Unattended Gateway operations were NOT
legal on 40 meters except between 7100 and 7105 by W0XK. We'd better take a
look at Part 97 before we jump on the bandwagon for a 40 meter frequency
since it appears that we may be operating these gateways in violation of
Part 97. I'll do a little more research, but at this time I would recommend
that 40 meter gateway operations be put on hold....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

1018. Re: [APRSSIG:7876] Re: 40m HF discussion

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 17:18:18 -0800
To: aprssig@tapr.org
Message-ID: <199612290118.RAA13465@m1.sprynet.com>
Rendered body type: text/plain

At 15:38 12/28/96 -0600, you wrote:
>On Sat, 28 Dec 1996, Anthony Hickey wrote:
>
>> Why not try in the 7.100 to 7.150 area which is virtually
>> unused by hams?
>> Yes, I know it is filled with broadcast stations, but our signals are
>> narrow enough not to disrupt the reception of a strong station. (like
>> VOA)   If we use a freq. like 7.100, 7.105, etc. -one that has a strong
>> broadcast station, we will be protected by all further QRM.
>
>APRSdos REPLY/COMMENT: This is what I was thinking too. I would rather
>not fight other HAMS for bandwidth. ALso, I am assuming that this would
>be a daytime use band for short range... NOT at night. Are not the

```
>broadcasters mostly on at night only?  I wouldnt mind that at all...

My informant tells me that the 5 kHz window is FULL of auto-forwarding
BBS'es so I don't think this is a suitable idea....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

1019. Re: [APRSSIG:7882] Re: Rose Parade Coverage

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 17:23:59 -0800
To: aprssig@tapr.org
Message-ID: <199612290123.RAA14414@m1.sprynet.com>
Rendered body type: text/plain

```
At 18:34 12/28/96 -0600, you wrote:
>I am involved in running APRS for the parade, I will arrange for the
>parade leader to becon via the gate.
>For the most part, the majority of APRS work will be pre-parade float
>convoys and staging.  If  anyone wants to see this let me know and I will
>make it so.
>
>Hector M. Figueroa  E-Mail Hfigueroa@juno.com
>World Wide Web Page  http://www.geocities.com/CapeCanaveral/1629
>Amateur Radio Call KE6VRL
>Packet KE6VRL@K6VE.#SOCA.CA.USA.NOAM
Hey, I'd like to see it even if it does tie up 30 Meters for a most of the
mid-day!  Of course, I'm probably in the minority!!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

1020. Re: [APRSSIG:7884] Space Station Mir.

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 28 Dec 96 20:49:03 -0500
To: <mallettem@trader.com>, <aprssig@tapr.org>, <ku0g@sprynet.com>
Message-ID: <199612290149.UAA16288@newworld.bridge.net>
Rendered body type: text/plain

```
>>From: Malcolm Mallette <mallettem@trader.com>
>>Reply-To: mallettem@trader.com
>>To: ku0g@sprynet.com
>>Subject: Space Station Mir.
>>
>>Dear Mr. Duncan,
>>
>>      In order to avoid interference with the U.S. Space Shuttle, the Mir
>>space station has moved to 145.800 MHz.  In Indianapolis, I am having
>>problems with stations off frequency from 145.800 and they appear to be
>>on 145.79 .
>>
>>The earth has only on space station.  In the interest of international
>>co-operatoon, it would be appreciated if the APRS operation could be
>>moved away from the MIR frequency of 145.800.  I cannot believe that
>>anyone would want to interfere with the Mir.
>>
>>Malcolm  WA9BVS
>>
I have worked MIR many times, as well as most of the shuttle SAREX
flights. I'm also a very active in APRS, I see both sides of the issue.
This has been discussed for quite a while on the AMSAT and APRS mailing
lists.

Your message seems to imply that APRS intentionally interferes with MIR.
This could not be further from the truth. No one owns or controls any
frequency, but the FCC regulations do give priority to QSOs already in
progress, and to coordinated frequency allocations. 145.79 is coordinated
in much of the US for APRS operation. Also, the international satellite
band starts at 145.800. Fully half of the MIR transmissions occur outside
the band allocated to satellite use. The frequency of 145.8 was chosen
unilaterally without consideration for users in the US. It was a most
unfortunate choice.
```

The question is, does the uniqueness of MIR, with 30-40 minutes a day of
activity in any location worth moving literally a thousand or more 24 hr
stations, that have occupied the frequency for many years?

The nationwide APRS network depends on the use of a single frequency
nationwise. Except for a very few areas in the country (SF Bay being the
most prominant on 145.01) this frequency is 145.79. To move APRS means
finding a single frequency that is free in much of the US. Not very
likely...

The leadership of AMSAT NA is working with other interested parties to
try to find a mutually acceptable solution. Until then I suggest we all
try to be patient and understanding.

Steve Dimse K4HG
sdimse@bridge.net
http://www.bridge.net/~sdimse

1021. Re: [APRSSIG:7884] Space Station Mir.

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Sat, 28 Dec 1996 20:50:59 -0500
To: aprssig@tapr.org
Message-ID: <B0000130115@eagnet.com>
Rendered body type: text/plain

```
> Date:          Sat, 28 Dec 1996 18:51:32 -0600 (CST)
> Reply-to:      aprssig@tapr.org
> From:          Jim Duncan <ku0g@sprynet.com>
> To:            aprssig@tapr.org
> Subject:       [APRSSIG:7884] Space Station Mir.

> Hi Siggers....
>
> I received this today.  You may wish to review it!!!!
>
> 73 de Jim, KU0G
>
>
> >Date: Sat, 28 Dec 1996 12:29:34 -0500
> >From: Malcolm Mallette <mallettem@trader.com>
> >Reply-To: mallettem@trader.com
> >To: ku0g@sprynet.com
> >Subject: Space Station Mir.
> >
> >Dear Mr. Duncan,
> >
> >     In order to avoid interference with the U.S. Space Shuttle, the Mir
> >space station has moved to 145.800 MHz.  In Indianapolis, I am having
> >problems with stations off frequency from 145.800 and they appear to be
> >on 145.79 .
> >
> >The earth has only on space station.  In the interest of international
> >co-operatoon, it would be appreciated if the APRS operation could be
> >moved away from the MIR frequency of 145.800.  I cannot believe that
> >anyone would want to interfere with the Mir.
> >
> >Malcolm  WA9BVS
> >
>
>
```

It looks like we will have a small problem.
Well which came first the chicken or the egg?

145.790 or 145.800

What will we do??

```
73
Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548       n1nfc@hotmail.com
Ph:912-729-5287           n1nfc@aol.com
Data:912-729-6067    AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm
```

1022. Re: [APRSSIG:7867] Re: MapFix29

From: N2ZRC@gnn.com (Arte Booten)
Date: Sat, 28 Dec 1996 21:03:02

To: aprssig@tapr.org
Message-ID: <199612290205.VAA09918@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Sat, 28 Dec 1996 Michael Markmann wrote:

>MapFix defaults to the \APRS\MAPS\ directory ... You can change this by
>typing the path name in front of the file name ...

     I tried that, didn't work (but I may have been trying to load a .dat,
now that I think of it.)

>... a current bug in the program means that you can only load filenames
>with the .map extension and only if you leave off the .map. When things get
>working properly, to load a map from the \APRS\MAPS\ directory you will
>only need to type the name of the map leaving off the path and the .map ex-
>tension. If you guys who pound out the maps feel that the old way was bet-
>ter or have any better ideas, I (and Bob) would like to hear them.

     The idea of a "default" path is okay, but I don't think most of us put
"maps-in-progress" in the \APRS\MAPS\ directory.  I use \DLG\ myself.  The
default you've suggested would be fine for altering existing maps (which,
presumably, work OK as-is,) but I think the majority of MAPFIX users are us-
ing it to clean up maps that we're in the process of making.

     As such, the inability to load anything NOT named *.map makes MAPFIX29
practically useless in the production of new maps.  Not all of us are bles-
sed with regions in which one can select a given map center and range and
have Mk100k3 give us a nice, ready-to-go map of 3000 points or less.  In my
current project I've run across forty-or-so maps out of 100+ that are over
the 3500 level, a dozen of which are over 4000 and, as I've described it to
Jack Cavanagh, there is the "Map From Hell" that, even after Task-Scrunching
to 1.5, is STILL over 5100 points!

     We absolutely NEED the ability to load both *.map and *.dat files in
order to produce usable maps.  That's my two-cents, and I'll be forced to
use MAPFIX28 unless these issues are addressed with a new version.  73


Mr. Arte Booten  (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in.  Engaging at warp six ...
```

1023. Re: [APRSSIG:7868] Re: 40m HF discussion

From: gphowell@mindspring.com
Date: Sun, 29 Dec 96 02:09:14 -0500
To: aprssig@tapr.org
Message-ID: <199612290219.CAA57196@mule1.mindspring.com>
Rendered body type: text/plain

```
APRS users will not endear themselves to anyone nor end up with a viable
solution by trying to shoehorn out a frequency on 40.  Infringing on the
novice CW band is not the answer, nor is plopping in the middle of the
"RTTY QRM" as someone mentioned.  And there isn't what you might call a
great deal of room amongst the established packet BBS stations, most of
which having been in place for years, legality of their operations prior
to the new rules notwithstanding.  Forty is full, just like the two meter
band, and even though people are STILL trying to shove in just ONE more
repeater, it doesn't work there either, and makes many people angry.
Leave forty to the folks who are already there and foreign broadcast.  My
opinion, worth whatever value you assign to it. --
-----------------------------------------------------------
Geep Howell WA4RTS
gphowell@mindspring.com
-----------------------------------------------------------
```

1024. Re: [APRSSIG:7883] javAPRS Test Results

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Sat, 28 Dec 1996 21:29:36 -0600
To: aprssig@tapr.org
Message-ID: <32C5E5A0.783@cedar.net>
Rendered body type: text/plain

> Java is, here are the results:
>
> Windows 95....11 of 12 good, one "Applet won't initialize" crash
> (different bug)
>

Glad to know, once again, with the most kick-butt machine money can buy, I'm the only one with a problem... %)

Here's to life on the bleeding edge.

1025. Re: [APRSSIG:7873] Re: TRIPMATE

From: rwf@mindspring.com
Date: Sat, 28 Dec 1996 22:08:48 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961228215644.0068e0d8@mindspring.com>
Rendered body type: text/plain

Mr Winingham wrote:

>
>There were lots of posting about the Tripmate this month you must have
>missed ....   see the tapr mail archives
>

How true!

With all the new folks getting on (and they seem to be showing up in droves!), I wish there was a way that a similar message could be posted every day automatically. Of course that would be a real pain for the rest of us, to have to read (delete) it each time.

What about (if we EVER can find out who CONTROLS the list), after he fixes the "reply to:" field- he adds some simple text about the archives and WHERE TO FIND THE FAQ for all these questions.

The new folks have no way of knowing that the thing has been discussed ad nauseum and no one knows if anyone else has answered their questions so we all try to help.

When people send answers to questions without reading all of the incoming mail first, they end up answering the same thing over and over along with everyone else.

A suggestion: In Eudora, you can QUEUE outgoing mail rather than sending it when you end it. That way you can delete all the replies that are unneeded before you send them. Even then, I still screw up though.

Anyway- I'm just rambling on about some suggestions that might cut down wasted effort and duplicate answers.

That, folks, would be a #1 reason to have a newsgroup- but notice ** I am not suggesting this!!!!*** I'd rather have what we have instead of newsgroup spam!

Thanks for listening. Maybe some of these suggestions are worth something.

1026. Re: [APRSSIG:7894] Re: javAPRS Test Results

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 28 Dec 96 22:30:49 -0500
To: <aprssig@tapr.org>
Message-ID: <199612290330.WAA23267@newworld.bridge.net>
Rendered body type: text/plain

>Glad to know, once again, with the most kick-butt machine money can
>buy, I'm the only one with a problem... %)
>
>Here's to life on the bleeding edge.

I was going to mail back to you. Does it always do this? Have you tried going to some non-APRS page, clearing the cache, then going to a javAPRS page?

Steve

1027. Re: [APRSSIG:7893] Re: 40m HF discussion

From: "george salinas" <saltair@islc.net>
Date: Sat, 28 Dec 1996 22:36:41 -0500
To: <aprssig@tapr.org>
Message-ID: <199612290332.WAA27757@server.islc.net>
Rendered body type: text/plain

I agree!

Any short term gains made would creat turf wars of gigantic proportions.

73 George KD4FJ.

saltair@islc.net

> From: gphowell@mindspring.com
> To: aprssig@tapr.org
> Subject: [APRSSIG:7893] Re: 40m HF discussion
> Date: Saturday, December 28, 1996 9:21 PM
>
> APRS users will not endear themselves to anyone nor end up with a viable
> solution by trying to shoehorn out a frequency on 40. Infringing on the
> novice CW band is not the answer, nor is plopping in the middle of the
> "RTTY QRM" as someone mentioned. And there isn't what you might call a
> great deal of room amongst the established packet BBS stations, most of
> which having been in place for years, legality of their operations prior
> to the new rules notwithstanding. Forty is full, just like the two meter
> band, and even though people are STILL trying to shove in just ONE more
> repeater, it doesn't work there either, and makes many people angry.
> Leave forty to the folks who are already there and foreign broadcast. My
> opinion, worth whatever value you assign to it. --
> ---
> Geep Howell WA4RTS
> gphowell@mindspring.com
> ---
>

1028. Re: [APRSSIG:7896] Re: javAPRS Test Results

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Sat, 28 Dec 1996 23:23:53 -0600
To: aprssig@tapr.org
Message-ID: <32C60069.6B84@cedar.net>
Rendered body type: text/plain

> I was going to mail back to you. Does it always do this? Have you tried
> going to some non-APRS page, clearing the cache, then going to a javAPRS
> page?
>
> Steve

Hated to blow away 50 meg of cache, but it's different now...

I get the grey rectangle, and NO messages of any kind.

Did you take it off-line?

1029. Re: [APRSSIG:7896] Re: javAPRS Test Results

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Sat, 28 Dec 1996 23:25:58 -0600
To: aprssig@tapr.org
Message-ID: <32C600E6.7903@cedar.net>
Rendered body type: text/plain

> I was going to mail back to you. Does it always do this? Have you tried
> going to some non-APRS page, clearing the cache, then going to a javAPRS
> page?
>
> Steve

Sorry, bum report..

"Applet can't start: error: java.lang.NoClassDefFoundError"

No class huh. I think I'm insulted ;)

1030. Re: [APRSSIG:7884] Space Station Mir.

From: Steve Dimse <sdimse@bridge.net>
Date: Sat, 28 Dec 96 23:40:23 -0500
To: <mallettem@trader.com>

Cc: <aprssig@tapr.org>
Message-ID: <199612290440.XAA28026@newworld.bridge.net>
Rendered body type: text/plain

>Actually, I did not say that the interference is deliberate.
>
I said you "seem to imply" it...there is a difference.

>If a choice had to be made, the Mir is obvious. There is only one space
>station. Moving its frequency may be possible, or may not. If the rig
>is xtal controlled, a change may not be possible at all, unless new
>xtals can be field installed. The cost of placing a new radio in orbit
>would be very high, in fuel alone.
>
The choice is obvious to you, not to me or the thousand other hams who
use APRS.

The radio is a commercial synthesized rig. Many APRS digis, however, are
converted commercial radios which do use crystals. The cost to move APRS
would be far higher!

>APRS has is of limited use. It can be installed in a car with a gps to
>track the car if stolen, but that use is of doubtful legality under the
>amateur regulations. I am state communications chairman for a
>non-government agency administering a nationwide system of disaster
>relief fnd APRS, unlike many amateur technology, has no function in a
>disaster.

1. Clearly you are anti-APRS, there is not much point in my trying to
convince you, but

2. What about SKYWARN weather reporting, the Olympic Torch Run, Rose
Parade, Army-Navy football run, Marine Corps Marathon in DC, and many
local events...I have personally participated in a half dozen in two
years where APRS was extremely useful. How much public service has MIR
provided in the last 2 years?

3. Who said public service is the judge of this anyway?

>If there is a possibilty a mobile unit may become lost, we could give
>the unit a $200 GPS and let him report in his position from time to time
>on his voice radio. THat has not been necessary in Indiana and I do not
>expect it to be necessary. APRS has been used on ATV balloons, but the
>output of the APRS is best for that function if it is not on a standard
>APRS frequency, as the APRS signal is generally lost before the balloon
>hits the ground. The final location has to be by DF, and when listening
>for a weak signal, it is best if other stations are not on the
>frequency!
>
What's more susceptible to errors, voice reports and manual plotting of
position or digital comm and computer plotting? What's faster? Why bother
with the GPS and radio, just give them a sextant and let them send their
posit with smoke signals!

>Tying up a frequency that causes a problem for the Mir with constant
>beacons of the position of stations in the ?network? makes no sense.
>
Again, to you. I recently took a cross country trip in my van, heavily
outfitted with radio equipment. With the APRS network, my mother in
California, and my YL in Florida were able to see where I was and that I
was OK. Any by the way, a system that can track a mobile from one end of
the country to the other is a network, not a ?network?! Finally, does
this cause a problem to MIR? Or is it just causing a problem to you?

>It is possible to tie DF operation into APRS, but here most of the DF
>ers are not on packet, and, in any event, a doppler DF unit can be tied
>to a GPS and to a notebook computer with maps for the ultimate in fox
>location.
>
Excuse me, but APRS does this already, I use the Aguello DF Jr. with
MacAPRS...plots bearings directly on the screen. Get several of us
together, and we can use APRS to plot each others bearings on screen, and
find an unknown signal a lot quicker. True enough, most DF'er aren't on
APRS...but most DF'ers don't talk to MIR either.

>APRS is a solution looking for a problem. If something occurs such that
>APRS will be usefull, that is the time to start operating. Just tying
>up a frequency to no purpose, as our local APRS digipeater does, is
>nonsence.
>

And what about all those packet BBS's that ping FORSALE messages around?
And all the thousands of repeaters that carry nothing but innane
conversations? Or all the hams trying to connect to a tiny TNC on MIR so
they can get a little piece of paper that says they did it. Face it, very
little in ham radio is relevant. We do it for fun. Along the way, we
accumulate some skills that we occasionally use for the public good, to
repay in a small way the spectrum we are given.

Before you start telling me the stories about how important ham radio is
to MIR, the family phone calls, the school contacts, etc. let me point
out these activities occur on unpublished frequencies other than 145.800.

Our play is important though, because it gives us the incentive to build
our networks, maintain our repeaters, hone our skills, so when we _are_
needed, we are ready.

>If I went to a KW on 2 and blanked the APRS digi by calling the MIR 24
>hours a day, when it is not even in range, all the APRS operators would
>be very mad. Yet they put out beacons of no use, 24 hours a day, and
>interfere with the Mir, when most, if not all, of them are not at their
>rigs and the "data" they transmit will not be seen, or read, by anyone.
>
None of use are using kilowatts. We are on 145.79, where we have been for
many years, with low power digis, doing something we find enjoyable. Our
beacons are of use to us, to the National Weather Service, and at special
events, to others.

How would you feel if you had a traffic net, passing important messages
like "Hi Jack, at the fair there is a ham radio booth and they send
messages for free. Call you soon, love Jill". You'd done this net for
years, it was your major source of enjoyment in ham radio, you had lots
of friends there, and a couple of times you had even passed some
important traffic. Suddenly a rare DX station decides he will listen on a
frequency 10 khz away for a half hour a day. All of a sudden, a bunch of
DXers demand that you move your net somewhere else because their DX is
more important than your "meaningless" traffic, and the strong signals
from your net make it hard to hear the weak DX.

That is a far more realistic analogy than yours...even then it would be
easier to move a traffic net than the APRS net.

Finally, as I said, AMSAT NA is not pleased with the MIR frequency and is
working to change it. I would again recommend tolerance and patience.

Steve K4HG
sdimse@bridge.net

1031. Re: Weather Station Compatability

From: joefoor@digitalexp.com (Foor, Joe)
Date: Fri, 27 Dec 1996 07:31:23 -0600
To: aprssig@tapr.org
Message-ID: <32C3CFAA.4F34@digitalexp.com>
Rendered body type: text/plain

Bill Carreira Jr. wrote:

> I am curious to find out what weather staions are compatible with
> APRS?

One tidbit you may not notice in the APRSdos documents... If you are
looking at a U-500 WX station, the amount of rain will not be
displayed.

regards,
Joe kf4dys

1032. Re: Weather Station Compatability

From: joefoor@digitalexp.com (Foor, Joe)
Date: Sat, 28 Dec 1996 19:20:51 -0600
To: aprssig@tapr.org
Message-ID: <32C5C773.4440@digitalexp.com>
Rendered body type: text/plain

Roy Bost wrote:
>
> WinAprs is compatiable with at least the following (they're listed in the
> setup menu):
>   Peet Bros. Ultimeter-2
>   Peet Bros. U-2000

```
>         Heathkit 5001
>         Davis Insturments
> The new Peet Bros. U-500 will probably work but don't quote me on that.

WinAPRS doesn't display the data from a remote U-500 yet.

regards,
Joe kf4dys
```

1033. Re: [APRSSIG:7869] Delorme Tripmate Q?

From: "Eric A. Cottrell" <eac@shore.net>
Date: Sun, 29 Dec 1996 00:04:32 -0400
To: ne1h@tornado.ne1h.radio.org
Cc: Aprssig@tapr.org
Message-ID: <851835872-0-eac@shore.net>
Rendered body type: text/plain

```
Hello,

My Delorme Tripmate GPS FAQ is now visible on Peter Bennett's Web page.
It is in the "Street Atlas and AutoMap Interface Programs"
sections.  The URL is:

ftp://sundae.triumf.ca/pub/peter/index.html

and my thanks to Peter Bennett for posting it.

Input is welcome as this is my first faq file and there are still alot of
gaps.

73 Eric  eac@shore.net  WB1HBU
```

1034. Re: Weather Station Compatability

From: "Chip Griffin" <quarry@q.continuum.net>
Date: 29 Dec 96 00:07:10 -0500
To: aprssig@tapr.org
Message-ID: <AEEB66BB-71E61@199.0.52.54>
Rendered body type: text/plain

```
>> Only at sea level!
>
>With the barometric pressure at 29.92...:)

I think you guys are overthinking this whole situation.  Let me make an
example, at work (at a electric generation station) we us various
instruments for measuring parameters.  People frequently use a digital
thermometer which is calibrated to, and displays, the tenth of a degree.
When applied to measure bulk temperature of a room it is false accuracy to
report the temperature to the tenth of a degree.  My point is that while it
is good to attempt to have a reasonable degree of accuracy, it is not
reasonable to try to calibrate and report temperature to any high degree of
alleged accuracy, this isn't rocket science anyway.

--
Chip Griffin - Technical Advisor to the Thames River Apple Users Group
  <mailto:quarry@q.continuum.net>  <http://q.continuum.net/~quarry/>
```

1035. Re: [APRSSIG:7898] Re: javAPRS Test Results

From: Steve Dimse <sdimse@bridge.net>
Date: Sun, 29 Dec 96 00:37:24 -0500
To: <aprssig@tapr.org>
Message-ID: <199612290537.AAA02223@newworld.bridge.net>
Rendered body type: text/plain

```
>Hated to blow away 50 meg of cache, but it's different now...
>
>I get the grey rectangle, and NO messages of any kind.
>
>Did you take it off-line?
>
No, that's the bug I've been trying to isolate...very strange one...

Thanks, sorry abt your cache...it'll grow back!

Steve
```

1036. Re: [BitBucket] aprs 29.29fm

From: "David Michael Gaytko   ***@***   WD4KPD/FM15mm/NC" <cn2859@coastalnet.com>
Date: Sun, 29 Dec 1996 00:46:45 -0500
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961229054645.00677984@abaco.coastalnet.com>
Rendered body type: text/plain

At 17:23 27-12-96 -0800, you wrote:
>David Michael Gaytko ***@*** WD4KPD/FM15mm/NC wrote:
>>
>> interested, but my reply to you returned.....
>
>FM packet on any ten meter freq is illegal under Part 97...
>Thought you may wish to know...
>
>73
>Chris
>WB5ITT
>
>F3 is only allowed from 29.0-29.7..Packet is not F3 (FM voice)...F2 (FM
>CW) was only recently made legal (rptr CW IDs on 10 were technically
>illegal because of this but not anymore!)
>>
>> -----
>> Submissions: bitbucket@primenet.com
>> Administrative requests: majordomo@primenet.com
>> WWW: http://www.primenet.com/~ke7gh
>> Questions: owner-bitbucket@primenet.com
>
====++
++++++++++++++++++++++++++++++++++

recieved this in response to 29.29fm/aprs.....food for thought, any lawyers
out there?

david>
>
>

1037. Updated Kansas City area DOS map...

From: Jim Duncan <ku0g@sprynet.com>
Date: Sat, 28 Dec 1996 22:53:12 -0800
To: aprssig@tapr.org
Message-ID: <199612290653.WAA03909@m1.sprynet.com>
Rendered body type: text/plain

If anybody would like to have an up-to-date MOKCity.map for their own
devious purposes, please let me know by PRIVATE EMail and I'll EMail you the
map file post haste!!!

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail: ku0g@kcaprs.com
EMail: ku0g@sprynet.com

1038. Re: [APRSSIG:7884] Space Station Mir.

From: Robert Winingham <kc5ejk@onramp.net>
Date: Sun, 29 Dec 1996 01:35:15 -0600
To: aprssig@tapr.org
Cc: mallettem@trader.com
Message-ID: <v03007800aeebbe0d5c2f@[199.1.11.115]>
Rendered body type: text/plain

>>   In order to avoid interference with the U.S. Space Shuttle, the Mir
>>space station has moved to 145.800 MHz. In Indianapolis, I am having
>>problems with stations off frequency from 145.800 and they appear to be
>>on 145.79 .

This has been talked about for weeks on the AMSAT sig.

I don't think the APRS stations are off frequency.

Some stations may have their packet deviation set larger
than 3Khz and should be informed if that is true.

Don't forget the VOICE downlink frequency (The one we listen on)
is 145.200 right between repeater output frequency of 145.190 and 145.210
That make is hard to copy the Mir voice with a radio.

I don't have a problem receiving the Mir packet on 145.800

Only at the very end of a pass when the doppler is 145.796 Mhz,
do I start to see a few APRS stations but by then Mir is too
weak for me to copy.

A 5 to 15 Khz move up by the Mir (off the band plan edge) would help.

The Mir has a 70 CM radio that now is used as a repeater.

The Mir 145.200/145.800 was a bit of a surprise to most US Hams
and to add more confusion the Mir crew decided to swap the published
uplink and downlink voice frequencies.

>In order to avoid interference with the U.S. Space Shuttle, the Mir
>space station has moved to 145.800 MHz.

That is not the big reason why they moved the frequency. (See Amsat SIG)

Last I read there is lots of work being gone to allow a different
Mir frequency.

APRS is one of the fastest growing area of Ham radio and it's a bit
too late to make many changes. (APRS might be the only growing area
of HAM radio , I don't know ??) We will see after P3D goes up :-)

We do need to work together.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

---

1039. Re: [APRSSIG:7892] Re: MapFix29

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
Date: Sat, 28 Dec 1996 23:41:08 -0600 (CST)
To: aprssig@tapr.org
Message-ID: <Pine.LNX.3.91.961228233159.6649A-100000@draco.bison.mb.ca>
Rendered body type: text/plain

On Sat, 28 Dec 1996, Arte Booten wrote:

>   The idea of a "default" path is okay, but I don't think most of us put
> "maps-in-progress" in the \APRS\MAPS\ directory. I use \DLG\ myself. The
> default you've suggested would be fine for altering existing maps (which,
> presumably, work OK as-is,) but I think the majority of MAPFIX users are us-
> ing it to clean up maps that we're in the process of making.
>

My reason for suggesting the change in the first place was that Bob has
placed the MapFix program in the \APRS directory but the program would
look for maps in the current directory (\APRS) meaning that one would
need to add a path to work on _any_ map unless of course the program was
moved or copied to the directory needed. I guess it might be better to go
back to the way it was.

>   As such, the inability to load anything NOT named *.map makes MAPFIX29
> practically useless in the production of new maps. Not all of us are bles-
[snip]
>   We absolutely NEED the ability to load both *.map and *.dat files in
> order to produce usable maps. That's my two-cents, and I'll be forced to

It was not my intention in suggesting the changes to Bob that the file
extension be forced to .MAP. This was an unfortunate bug that was
introduced into the program and I've sent Bob a message with a fix. I
freely take the blame for this one.

Michael
--
Michael Markmann VE4MJM   Winnipeg, Manitoba, Canada
ve4mjm@draco.bison.mb.ca
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...

1040. APRS on 29.29 MHz FM

From: "Ken Bourne W6HK" <kbourne@earthlink.net>
Date: Sun, 29 Dec 1996 01:04:52 +0000
To: aprssig@tapr.org
Message-ID: <199612290905.BAA16476@armenia.it.earthlink.net>
Rendered body type: text/plain

In response to several recent postings, it would NOT be legal to run
APRS (or any packet, for that matter) on the "wideband" FM (5 kHz

deviation) portion of 10 meters (29.0-29.7 MHz), in accordance with
Part 97.305(c) of the FCC Rules. In other words, forget about
running APRS on 29.29 MHz FM.

The only portion of 10 meters where packet (including APRS) is legal
is 28.0 to 28.3 MHz, and NOT in the FM mode.

Perhaps this would be a good time to petition the FCC for a Rule
change.

73,
Ken Bourne, W6HK

1041. Re: [APRSSIG:7892] Re: MapFix29

From: Daniel Velez <djv@gte.net>
Date: Sun, 29 Dec 1996 08:48:14 -0500
To: aprssig@tapr.org
Message-ID: <32C6769E.36E8@gte.net>
Rendered body type: text/plain

Arte Booten wrote:
>
> Hi All,
>
> On Sat, 28 Dec 1996 Michael Markmann wrote:
>
> >MapFix defaults to the \APRS\MAPS\ directory ... You can change this by
> >typing the path name in front of the file name ...
>
>   I tried that, didn't work (but I may have been trying to load a .dat,
> now that I think of it.)
<SNIP>

If another revision to MAPFIX is coming, how about looking at the use of
the mouse when drawing. MAPFIX seems to put in two or three points with
one mouse click (even my bestest, fastest click hehehe). Can this be
tweaked or is it something I am doing???

--
Dan

```
|||||||||||||||||||||||||||||||||||||||||||||||||||||
Daniel Velez                             djv@gte.net
                  http://home1.gte.net/djv/index.htm
                            n4wzr@wd4miz.va.usa.noam
|||||||||||||||||||||||||||||||||||||||||||||||||||||
```

1042. Re: APRS on 29.29 MHz FM

From: rhiii@mnsinc.com (Richard H.)
Date: Sun, 29 Dec 1996 14:07:14 GMT
To: aprssig@tapr.org
Message-ID: <32cc73a1.25994609@relay.mnsinc.com>
Rendered body type: text/plain

A Rule Change indeed !   Now that the solar cycle in beginning it's
upturn, more folks will have renewed interest in 10m -- most didn't
have packet tnc's the last time around.   One way or another, 10M FM
will happen.

de Richard/n2jr

On Sun, 29 Dec 1996 03:06:17 -0600 (CST), you wrote:

>In response to several recent postings, it would NOT be legal to run
>APRS (or any packet, for that matter) on the "wideband" FM (5 kHz
>deviation) portion of 10 meters (29.0-29.7 MHz), in accordance with
>Part 97.305(c) of the FCC Rules. In other words, forget about
>running APRS on 29.29 MHz FM.
>
>The only portion of 10 meters where packet (including APRS) is legal
>is 28.0 to 28.3 MHz, and NOT in the FM mode.
>
>Perhaps this would be a good time to petition the FCC for a Rule
>change.
>
>73,
>Ken Bourne, W6HK
>
>

1043. Re: HERC and cga

From: kevenm@valtek.com (Keven Miller)
Date: Sun, 29 Dec 1996 08:14:09 -0700 (MST)
To: aprssig@tapr.org (APRSSIG)
Message-ID: <9612291514.AA22339@valtek>
Rendered body type: text/plain

```
I found SIMCGA and HGCIBM on Compuserve CIS in
IBMSPECIAL filename of ATENA.ARC. It was 137K.
I could pass it on to interested parties.
--

Keven Miller  KC7LYD
kevenm@valtek.com (Springville, Utah, USA)
kevenm@juno.com   (Orem, Utah, USA)
```

1044. APRS NEWSGROUP

From: Steven Stark <steves68@mindspring.com>
Date: Sun, 29 Dec 1996 10:57:27 -0500
To: APRSSIG <aprssig@tapr.org>
Message-ID: <32C694E7.6A1E@mindspring.com>
Rendered body type: text/plain

```
Has there ever been a "rec.radio.amateur.aprs" newsgroup?
--
X-Signature: AKA

Steve Stark/N4YOG (steves68@mindspring.com)
..
```

1045. Which GPS

From: wd4mtv@w8dc.ampr.org
Date: Sun, 29 Dec 96 10:41:21 EST
To: aprssig@tapr.org
Message-ID: <182452@w8dc.ampr.org>
Rendered body type: text/plain

```
Which GPS unit is recommended for getting started in aprs activities.
Primarily base located but will use mobile as well.  Recommendations
much appreciated.  Please email via internet at  kjave@iserv.net
```

1046. Southeast USA Maps

From: "Bill Carreira Jr." <n1nfc@eagnet.com>
Date: Sun, 29 Dec 1996 14:40:14 -0500
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org
Message-ID: <B0000130828@eagnet.com>
Rendered body type: text/plain

```
Is there a source for DOS maps for southeast USA.
Looking for Florida, Georgia mostly. I live on the extreme southeast
corner of Georgia and was looking for some other maps.

73 de


Bill Carreira Jr.   Email:n1nfc@eagnet.com
Kingsland, GA 31548       n1nfc@hotmail.com
Ph:912-729-5287           n1nfc@aol.com
Data:912-729-6067    AMPR:n1nfc@ampr.america.com
Pager:800-959-0740   NAVY:ETC_Carreira@trfkb-emh1.navy.mil
http://www.eagnet.com/edipage/user/n1nfc/n1nfc.htm
```

1047. Re: APRS on 29.29 MHz FM

From: N2ZRC@gnn.com (Arte Booten)
Date: Sun, 29 Dec 1996 14:52:54
To: aprssig@tapr.org
Message-ID: <199612291954.OAA24488@mail-e2b.gnn.com>
Rendered body type: text/plain

```
Hi All,

On Sun, 29 Dec 1996 Ken Bourne W6HK suggested:

>Perhaps this would be a good time to petition the FCC for a Rule change.

     WHOA!  As has been said here on the SIG many times in many situations,
it might be best to let the sleeping dragon sleep.  Given the tenuous rela-
```

tionship that currently exists between The Amateur Radio Service and the
gu'mint (read: Spectrum Auction ... Deficit Reduction ... MONEY [which we,
as members of that service, don't give to said gu'mint]), I'd be hesitant to
do so. Let's try the 10M waters as the bandplan and regs currently allow
before we go asking for more. 73

Mr. Arte Booten (N2ZRC @ gnn.com)
Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA

Cruise Missile Coordinates 4052.71N/07354.06W

... Coordinates laid in. Engaging at warp six ...

1048. cyclades y0 card with winaprs

From: Mike Walker <mwalker@interlog.com>
Date: Sun, 29 Dec 1996 15:10:46 -0400
To: aprssig@tapr.org
Message-ID: <1.5.4.32.19961229191046.0067633c@mail.interlog.com>
Rendered body type: text/plain

I am using win95 with a cyclades (8Y0) 8 port (1 irq) card. I can't seem to
access any ports from it when I attempt to test winaprs. I attempt to open
com 6 and I get unable to access com6.

Has anyone been using multifunction i/o cards with any success.

Thanks...mike
****
Mike Walker   Corbeil Contest Club
VA3MW

1049. HF band issues

From: kb6lfm <kb6lfm@ix.netcom.com>
Date: Sun, 29 Dec 1996 12:42:55 -0800
To: aprssig@tapr.org
Message-ID: <32C6D7CF.3D7C@ix.netcom.com>
Rendered body type: text/plain

Personally, I would like to here more from experienced HF operators and
less from individuals who don't have HF privlileges regarding "HF band
allocations & use".

"Experience IS the best teacher"

73 de Bill/LFM

APRS Gateway Stn. for the West Coast

1050. MIR Doppler Shift & Receiver Bandwidth

From: wa4ikq@nevets.oau.org (Geoffrey Dick)
Date: Sun, 29 Dec 96 09:24 EST
To: aprssig@tapr.org
Message-ID: <m0veMAb-000Qe2C@nevets.oau.org>
Rendered body type: text/plain

I have found the discussion and criticism of APRS and MIR/AMSAT
amateurs quite informative. Has the discussion of bandwidth and
frequency deviation been reviewed from the viewpoint of MIR
doppler shift into our frequency, and what kind of bandwith
filtering is being used by MIR receivers? Could they be seeing
145.79 +285 with their dial set to 145.800 because their receiver
bandwidth is too wide? It appears the discussion has been one
way so far.

               Geoffrey Dick, wa4ikq@nevets.oau.org

1051. Re: [APRSSIG:7918] cyclades y0 card with winaprs

From: Roger Sellers <rsellers@rockford.com>
Date: Sun, 29 Dec 1996 15:47:31 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961229154729.006d90a4@rockford.com>
Rendered body type: text/plain

At 02:30 PM 12/29/96 -0500, you wrote:
>
>I am using win95 with a cyclades (8Y0) 8 port (1 irq) card. I can't seem to
>access any ports from it when I attempt to test winaprs. I attempt to open

```
>com 6 and I get unable to access com6.
>
>Has anyone been using multifunction i/o cards with any success.
>
>Thanks...mike
>***************************************************************
>Mike Walker                              Corbeil Contest Club
>VA3MW
>
Hi Mike,
  I'm using a card that gives me com1 to com4. For some reason I can't get
Windows 95 to "like" com3. So I have my modem on com1, mouse on com2, and
KPC3 TNC on com4. Had to find IRQ's that didn't conflict. But once that was
done, all is well here. I wish I could get com3 to work though.

73,

Roger Sellers   KB9LBU
email: Home: rsellers@rockford.com
             KB9LBU@juno.com
       Work: rsellers@snds.com
```

1052. Re: [APRSSIG:7837] Re: MCX Connector

From: Roger Sellers <rsellers@rockford.com>
Date: Sun, 29 Dec 1996 15:58:44 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961229155842.006dac98@rockford.com>
Rendered body type: text/plain

```
At 08:29 PM 12/27/96 -0500, you wrote:
>
>On Fri, 27 Dec 1996, Mark Fellhauer wrote:
>
>> I know we've covered this before, but I wasn't paying attention, because it
>> didn't apply to me.
>>
>> For Christmas I received the Trimble GPS antenna offered by PacComm.  I
>> need to find an MCX to BNC adaptor, as I don't want to cut the plug off the
>> cable.  In the future, I plan to buy the GPS-20 engine, but for now I'd
>> like to use the antenna with my Magellan Trailblazer XL.
>>
>> Can someone please post a source for these adaptors again?

       How about checking Hamfests for the connectors?

I found an SMB to SMA, and an SMA to BNC at on from a guy selling microwave
components. Cost was about $10.00. This was cheaper than ordering, since
most places want a minimum $$ on the order plus shipping. It would have
cost me $30-40 for the same parts to order.

73,
Roger Sellers  KB9LBU
email: rsellers@rockford.com



Roger Sellers   KB9LBU
email: Home: rsellers@rockford.com
             KB9LBU@juno.com
       Work: rsellers@snds.com
```

1053. Re: [APRSSIG:7917] Re: APRS on 29.29 MHz FM

From: "Ken Bourne W6HK" <kbourne@earthlink.net>
Date: Sun, 29 Dec 1996 14:11:53 +0000
To: aprssig@tapr.org
Message-ID: <199612292212.OAA15567@germany.it.earthlink.net>
Rendered body type: text/plain

```
Au contraire!

On  Sun, 29 Dec 1996, Arte Booten, N2ZRC, wrote: 14:00:02 -0600 (CST)

>      WHOA!  As has been said here on the SIG many times in many situations,
> it might be best to let the sleeping dragon sleep.  Given the tenuous rela-
> tionship that currently exists between The Amateur Radio Service and the
> gu'mint (read: Spectrum Auction ... Deficit Reduction ... MONEY [which we,
> as members of that service, don't give to said gu'mint]), I'd be hesitant to
> do so.  Let's try the 10M waters as the bandplan and regs currently allow
> before we go asking for more.  73
```

Just because the FCC decided to auction off a part of the 2.4-GHz ham
band doesn't mean we should not petition the Commission for what we
want on other bands. Furthermore, if we petition for expanded
privileges on 10 meters, the FCC will notice that we are making use
of that spectrum. If we roll over and play dead, the Commission will
assume we ARE dead, and will give (or auction) the band to another
service. We won't get what we want unless we ASK for it! I suggest,
again, that we petition the FCC for a Rule change, permitting packet
(including APRS) in the FM mode above 29.0 MHz. The FCC has
historically responded positively to petitions that were well
planned, stating precisely what is needed and what the beneficial
results would be.

73,
Ken Bourne, W6HK

1054. Re: [APRSSIG:7916] Southeast USA Maps

From: John W Wilson <z004391b@bcfreenet.seflin.lib.fl.us>
Date: Sun, 29 Dec 1996 18:24:29 -0500 (EST)
To: "Bill Carreira Jr." <n1nfc@eagnet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.3.89.9612291840.D23431-0100000@bcfreenet>
Rendered body type: text/plain

I got a bunch of Florida maps from the TAPR site, all bundled in a zip file.

John W. Wilson, KN4HX
z004391b@bcfreenet.seflin.lib.fl.us

1055. Indiana/Ohio/Ky maps?

From: pscc@seidata.com
Date: Sun, 29 Dec 96 18:29:22 PST
To: aprssig@tapr.org
Message-ID: <Chameleon.961229183153.pscc@S.E.I. Data.seidata.com>
Rendered body type: text/plain

Does anyone have a detailed map for the In/Oh/Ky area (near Cincinnati)?

```
---------------------------------------------------------------
Lee Kissell
8 Meyerfield Place
Lawrenceburg, In. 47025
812-537-3579 Voice & Fax
------------------------------------------------------
E-mail  pscc@seidata.com
WWW     http://www.seidata.com/~pscc
------------------------------------------------------
Amateur KB9OBE EN79 147.285, 146.805, 146.880, 146.520
------------------------------------------------------
Date: 12/29/96
------------------------------------------------------ end of mail
```

1056. Thoughts on Garmin GPS-38

From: "Steven E. Taft" <staft@ix.netcom.com>
Date: Sun, 29 Dec 1996 18:40:14 -0500
To: <aprssig@tapr.org>
Message-ID: <199612292339.PAA21997@dfw-ix1.ix.netcom.com>
Rendered body type: text/plain

The wife gave me a GPS-38 for Christmas. While using it this weekend, I
did notice that it seemed to have problems maintaining contact with the
satellites while I was just walking in relatively open wooded areas. Is
this normal? Would the GPS-$), which is priced $50 higher be any better?

I do plan on using the unit in conjunction with APRS as well as general
outdoor activities. Comments would be appreciated.

tnx,
Steve Taft
KA1WX

1057. Re: [APRSSIG:7916] Southeast USA Maps

From: rwf@mindspring.com
Date: Sun, 29 Dec 1996 18:59:24 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961229185920.00bd5448@mindspring.com>

Rendered body type: text/plain

```
Bill wrote:
>Is there a source for DOS maps for southeast USA.
>Looking for Florida, Georgia mostly. I live on the extreme southeast
>corner of Georgia and was looking for some other maps.

I haven't plugged my APRS Home Page in awhile, so I will (since you are in
my area).   I have made many maps-  check the Atlanta APRS Home Page at:

http://www.mindspring.com/~rwf

By the way-  It was the first APRS Home Page on the WWW, as far as I know.

I did all of GA in 2,000,000:1 and a lot of it in 100,000:1

There were some of Central FL that I got from a local in Orlando that I
bundled and have on the site too, and I think I put them on TAPR as well.
The file was called CENTFLA.ZIP.

If you need street level maps for your area I can make them too.

We have quite a network up this way, need to get some digis going between
your area and mine


Ralph Fowler, N4NEQ ,  S.E.R.A. Amateur Television Technical Advisor
Atlanta, GA USA
Internet Email:  rwf@mindspring.com      Pager Email:  7647836@skytel.com

http://www.mindspring.com/~rwf     for APRS, ATV, Balloon, and Repeater info
My hobby is tracking Vehicles and other things using Ham Radio and APRS.
 Ask me how!
```

1058. Tripmate Q for those who have one.

From: "Alan K. Adamson" <ne1h@tornado.ne1h.radio.org>
Date: Sun, 29 Dec 1996 19:10:04 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF5BB.E695FF60@typhoon.ne1h.radio.org>
Rendered body type: text/plain

```
So, I got a tripmate today, downloaded the time/date fix and ran it, but it didn't do anything to so me
that it did anything, just said it was upgraded, I would have expected a little bar showing progess etc.
  Anyone have any way to verify that the patch was made???

Thanks,
Alan
ne1h@ne1h.radio.org
```

1059. Re: [APRSSIG:7926] Thoughts on Garmin GPS-38

From: Jim Duncan <ku0g@sprynet.com>
Date: Sun, 29 Dec 1996 16:20:20 -0800
To: aprssig@tapr.org
Message-ID: <199612300020.QAA11755@m1.sprynet.com>
Rendered body type: text/plain

```
At 17:48 12/29/96 -0600, you wrote:
>The wife gave me a GPS-38 for Christmas.  While using it this weekend, I
>did notice that it seemed to have problems maintaining contact with the
>satellites while I was just walking in relatively open wooded areas.  Is
>this normal?  Would the GPS-$), which is priced $50 higher be any better?
>
>I do plan on using the unit in conjunction with APRS as well as general
>outdoor activities.  Comments would be appreciated.

The GPS-45 has an external antenna is is a little better receiver for
walk-about.  The -38 has an internal antenna and often doesn't get as good a
look at the sky as the -45....

73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
EMail:  ku0g@kcaprs.com
EMail:  ku0g@sprynet.com
```

1060. TripMate & KPC-3 WORKING!!

From: Bill Kearns <billk@inland.net>
Date: Sun, 29 Dec 1996 16:47:49 -0800

To: aprssig@tapr.org
Message-ID: <199612300047.QAA05825@ns1.inland.net>
Rendered body type: text/plain

Dear Siggers,

After several frustrating weekends, my friend Mike Burton and I have finally managed to get the TripMate GPS unit to work perfectly with the Kantronics KPC-3. We spent a considerable amount of time and effort on this so we documented everything and have prepared a little manual. I believe with this information, almost any tnc can be prepared for use with the TripMate. Special thanks to some of those on the SIG who took the time to respond to my e-mail and help out with their suggestions.

KANTRONICS KPC-3 AND TRIPMATE GPS INTERFACE

The following represents the efforts of WB6JAR and N6KZB, with input from WK5M, to interface the Tripmate to the Kantronics KPC-3. We found that it worked better than anticipated in satellite acquisition and direction of travel. Despite some of the help offered via the APRS SIG group, the following is the ONLY set up that worked with our units.

```
                   PIN OUT CONFIGURATION
  Tripmate                                          KPC-3

pins 2&3 tied together--then both connect to--->      pin 2
pin 5   connects to--->                               pin 7
pin 4   connects to--->                               pin 6
```

MODIFICATIONS TO KPC-3

Install a 4.7 K resistor at position R-48 to make DSR active, (see parts layout for location of R48). It is at the rear, on the board, between the DB9 and DB25 connectors.

KPC-3 COMMANDS

Refer to KPC-3 manual and Command Summary sheets for GPS version 6.0 firmware.

Abaud 4800
INTface TERMINAL, (not NEWUSER mode)
MYcall to callsign-9, (or your desired ssid)
BText is set as needed
BLt 1 through 4 to desired beacon interval in seconds
GPShead 1 through 4, must be changed to $GPRMC
GPSInit needs not to be set, (since pins 2&3 on Tripmate are tied)
LT 1 through 4 gets filled with GPS info so leave blank
LTP 1 through 4 gets set to your local area agreed upon digi paths
LTRack left to factory default
PMode left to factory default
RPrint left to factory default

Final command is INT GPS, then turn TNC off and back on with Tripmate connected. It will take about 2 minutes for first satellite acquisition.

```
                   12.29.96/billk@inland.net/burton@firecom.com
Bill Kearns  billk@inland.net     /\/\ /\/\
                           /^\        |
                         /_____\      |__
      /~~~~\         ____|_____|____  |**|
    //(^  ^)\\         ///// \\\\\    |()| WB6JAR
   ///(Q  Q)\\\        (  0   0  )    |__|
---ooo--()--ooo------oOOO--(_)--OOOo---------------
```

1061. Tripmate/APRS Question

From: jpcirone@warwick.net
Date: Sun, 29 Dec 1996 19:58:18 +0000
To: aprssig@tapr.org
Message-ID: <9612300101.AA13086@host>
Rendered body type: text/plain

Based on all of the "rave" reviews people on this SUG gave it, plus the fact that someone put out notice that CompUSA was giving the units 20% off (THANK YOU for that info), and the fact that I read that the next WinAPRS version will somehow interface with Tripmate - I rushed out last nite and bought the only remaining one on the shelf in CompUSA near here. I works great - MUCH better than my Magelleon handheld unit I paid $399 for this past Summer.

The question I have is that since I'm new to APRS - will the new version use the Street Atlas 4.0 as the APRS maps (would be great if it is true) and APRS software will provide the interface to display APRS icons/data on the maps? (I know nothing about how that all works - I'm a PTT HF radio/PK232MBX type guy).

Does it mean that in order to run APRS and tripmate, I need 2 com ports on my notebook - one for the tripmate GPS and the other for the TNC?

Anyone in Northern NJ who can help me learn about APRS?? Any groups or people meet in Northern NJ or Orange/Rockland County of NY?

Hope someone can provide answers - because I have the questions and desire to get up on APRS ASAP.

1062. Season Greetings de W7LUS

From: "Peter A. Gross" <"w7lus@worldnet.att.net"@worldnet.att.net>
Date: Sun, 29 Dec 1996 20:13:02 -0500
To: aprssig@tapr.org
Message-ID: <19961230011603.AAA4236@worldnet.worldnet.att.net>
Rendered body type: text/plain

Hello to all the Aprs users!

Once again I must explain to many that when I receive your 1 liners while passing through your area or even those that send to me on hf, I don't intentionally ignore your messages. Please understand that when I am "on duty" I am at the wheel. The computer is behind me where I can't see it. I know that wb4apr has made function keys to allow easier replies, however I rather keep my eye on the road and concentrate on DEFENSIVE driving, hi! I am sure you all can realize that it does, in fact, take much more concentration to wheel around 75 feet of what feels like pure lead! I do try to get back to many on hf but usually those on vhf are to far behind me. Many times I'll sit behind the wheel for some 5 hours without any stops, if I can help it. I do appreciate all the messages and attention that I get crossing back and forth and to all corners of the country.

Clay, aa3jy, I have tried what seems like a thousand times to get back an ack from you but never have. I know your way down a vhf path which is kinda inconvient to setup for short periods of usage.

I have had some wondeful visits from many out there. Everytime I pull into Amarillo there is usually Maury, w5ugo (might have messed up his call, anyway the father of the Sproul brothers, our WinAprs authors, etc). Maury and his wife Betty have met me more than once. Sometime I haven't even shut down the truck after parking and there will be Maury or Jimmy, kd5wio at my door. Maury and Betty have taken me into there home for wonderful home cooked meals, a warm quiet bed and usage of the washing facilities! And even after staying with them they have left an open ivitation anytime I can take the time. I might add here that Betty is one proud mother of her "boys" Mark and Keith...did you all know that they are identical twins and are married to identical twins and live just a few miles apart? Keith and Mark, you guys have some wondeful parents that YOU all can be proud of, but I know you "boys" already know that.

A special thanks to Lloyd, kb0mmq, and his wife in Denver, CO for there hospitality. They picked me up and brought me to one of there favorite resturants. I hope to get back there as much as possible and try more of that menu. Lloyd lives in a townhouse and has to have a hidden antenna that has to be in doors. I see you often Lloyd but I guess that noise level makes it tough for you sometimes to hear me especially when I try to send some one liners back to you.

I am terribly sorry but I can't pull the callsigns outa my head of those in Austin, TX. But I had a most delious mexican meal there. The atmosphere was like being in the heart of Mexico but the price wasn't, hi! I think a call was w5rkn....I am really sri guys...I am not seeing you 2 enough to burn your calls in my head...I'll make it up to you all and your wives I promise!

And what happened to Gerry n9vhw, I think now N9GD, the gateway in the Chicago area? He once picked me up at Rosemont Conv. Center and we went to eat then he took me to a grocery store...he seems to be a really great person, I enjoyed him very much. No doubt he is heavy into Aprs. I left him some messages while waiting to load within 10 miles of him a couple of weeks ago but he has never responded. Is he ok?

There are several others that I have the pleasure to meet or just chew the rag on vhf. This part of ham radio
has really made my job a pleasure. I never realized how many are watching me or just keeping up with me on Aprs. Esecially those that are on vhf. There are a few spots where the vhf networks don't have a gateway. If I realize it I will then enable my gateway. Sorry ke4eer! The networks are really growing fast. It looks like Oklahoma City has finally joined us. When on the west coast I notice a growth every visit. I also notice that the n.e. network and the s.e. network are very close to closing in on one another. I think, as noted on Aprs, we do need somemore freqs. Thirty meters just doesn't have what it takes to consistently link the east and west coasts of the country.

Wait til you see my next truck. The plan is hopefully to order a new Peterbuilt or maybe a Kenworth in the next 6 months. The sleeper will be 12 to 14 feet long. It'll be equiped to be totally self sufficient like a camper. Even with a 30amp power cord hookup. Yep, a shower, toilet, 2 burner cook top, convection microwave, apartment size frid and freezer, in motion sateelite tv, build in central vacuum, 7.5 kw diesel gen, settee, and even a telphone between the sleeper and the driver! Plus some other goodies. If you haven't seen what I have now go into the FL Aprsers home page at n2czf and at the very bottom you'll find 3 gifs of my truck. That truck cost me $83,000 the new one I expect will be about twice, $160,000. But that is my home which includes rent and utilities. I have been long out of room...I am longing for that big sleeper. It'll all set on about a 320 to 330 inch wheel base tractor. I am on 228" now with ba 72" sleeper.

I work for North American Van Lines in the High Value Products Division which haul electronics and tradeshows. I am in the "exhibits" group. I sonetimes may sit for a day or so at a convention center waiting my turn. I am also given extra time on the road to make my destinations on time and legally. I laso get payed very very well for waiting and assuming these responsibilities unlike most truckers you all come across everyday. I am proud to say that among the experienced truckers we are concidered the "elite"! If any of you would like to know more about the trucking field just invite me to a darn good hot meal and I'll spill my guts and bent your ears for sure, hi hi!

I am using the Yaesu FT 900AT on HF and have a Kenwood TM733A that is in the shop for the second time for the same symtom. The last time it was a broken solder joint that only allowed about 1 and 1/2 watts output. I guess Kenwood can't stand the punishment of the truck. So I just received from Santa a Yaesu FT8500 with the big "potatoe head" mic! Yaesu claims to be military spected...will see about that. Neat rig though, I think I am going really enjoy this one. The Tnc is a Kam+ with the Aea hsp tied to a Megellan DLX5000. Just got a new laptop a few months ago and really love it too! It is an AST pent 130 Ascentia A Series, with 16meg ram, 1.2 gig hd, touch mouse and 4x cd. The vhf antenna I forget but it is 5/8 wave mounted on the right mirror. On hf is the High Serria which I just moved from the side of the sleeper behind the drivers door to the very center of the grill! My swr now goes flat without the tuner whereas before maybe I could get as low as 1.5:1 but mostly abround 2:1. My big problem was when the hf xmitted the windshield wipers would creep a bit until sometimes they would get passed the park zone and cycle once or twice. So I thought moving the antenna way up front would help. Well it made it worse. Now they cycle everytime it xmits. So I did like the Japenese would do...I installed a switch to break the lead to the intermittent switch. Must be that the coil in the switch is tuned to 10.151! I plan to talk to the truck manufactorer about this. They say I can run up to 100 watts without problems. Guess they don't know about Aprs, eh? Any ideas? I do notice there is a cap between the leads. I disconnected it but it had no effect.

The "Eastern USA North - South Digi", W7LUS, in n.e. GA, will be moved to another, hopefully, better site. Ken, kb4dta, a neighbor, will remove my equip and install it at his qth to get used to my rig. Particulary the tnc - and Hal ST700 modem setup as well as the Yaesu FT980. He then will move it to the Emergency Management Center (911). Sometime I will purchase a Kam for a gateway for the new site. From the site Greenville S.C and Atlanta should be visible on vhf. The antenna will probably be at a height of one full wavelength, 90'!
We hope this will enhance the vhf network into Atlanta. We know it will enhance the vhf network into S.C. and beyond. Ken has promised that the project will get underway right after the first of the year wx

permitting.
At this new site the gateway should be nearly 100 percent dependable. It has its own emergency power and someone that can always reset the tnc should it need it.

Well see...I can bend your ears, can't I? Hi!

Well this "road worrier" will be back on the road Monday the 30th and will deliver near Chicago (Oswego) by the 3rd. Don't forget to watch the beacon page for my itenerary. I try to keep it current!

Hope to see you all out there!

73 Peter W7LUS

1063. Re: [APRSSIG:7928] Tripmate Q for those who have one.

From: "Jimmy Burkhalter" <kb5wio@fia.net>
Date: Sun, 29 Dec 1996 19:16:02 -0600
To: "Allen K. Adamson" <ne1h@tornado.ne1h.radio.org>
Cc: <aprssig@tapr.org>
Message-ID: <199612300115.RAA10919@kinsey.fia.net>
Rendered body type: text/plain

Allen,

Question, what program were you using when you saw this message that it was upgraded.

Jimmy Burkhalter   Amarillo, Texas
KB5WIO
kb5wio@fia.net

From: Alan K. Adamson <ne1h@tornado.ne1h.radio.org>
To: aprssig@tapr.org
Subject: [APRSSIG:7928] Tripmate Q for those who have one.
Date: Sunday, December 29, 1996 6:14 PM

So, I got a tripmate today, downloaded the time/date fix and ran it, but it didn't do anything to so me that it did anything, just said it was upgraded, I would have expected a little bar showing progess etc. Anyone have any way to verify that the patch was made???

Thanks,
Alan
ne1h@ne1h.radio.org

1064. Re: [APRSSIG:7912] Re: APRS on 29.29 MHz FM

From: Mark Herson <mherson@intac.com>
Date: Mon, 30 Dec 1996 02:30:43 +0000
To: aprssig@tapr.org
Message-ID: <199612300230.VAA27877@mailhost.intac.com>
Rendered body type: text/plain

Instead of FM, how about 1000 Hz FSK? Ie, take standard Bell 202 tones (1200 and 2200 Hz - current 1200 baud packet) and run them into a SSB transmitter instead of an FM transmitter. Would save a lot of bandwidth and probably be more sensitive.

73, Mark, N2MH

>A Rule Change indeed !   Now that the solar cycle in beginning it's
>upturn, more folks will have renewed interest in 10m -- most didn't
>have packet tnc's the last time around.   One way or another, 10M FM
>will happen.
>
>de Richard/n2jr
>--

>On Sun, 29 Dec 1996 03:06:17 -0600 (CST), you wrote:
>
>>In response to several recent postings, it would NOT be legal to run
>>APRS (or any packet, for that matter) on the "wideband" FM (5 kHz
>>deviation) portion of 10 meters (29.0-29.7 MHz), in accordance with
>>Part 97.305(c) of the FCC Rules. In other words, forget about
>>running APRS on 29.29 MHz FM.

```
>>
>>The only portion of 10 meters where packet (including APRS) is legal
>>is 28.0 to 28.3 MHz, and NOT in the FM mode.
>>
>>Perhaps this would be a good time to petition the FCC for a Rule
>>change.
>>
>>73,
>>Ken Bourne, W6HK
```

1065. Re: [APRSSIG:7932] Season Greetings de W7LUS

From: Paul Stump <n0lrf@amsat.org>
Date: Sun, 29 Dec 1996 20:34:57 -0800
To: aprssig@tapr.org
Message-ID: <32C74671.582F@amsat.org>
Rendered body type: text/plain

```
Peter A. Gross wrote:

> Hope to see you all out there!
>
> 73 Peter W7LUS

WELL, it was worth the wait! Thanks, Peter, for the report.
If ur ever cruising I-35, SW of KC, I'll buy ur supper at
McKenzie's at exit 193, they have a pretty good chicken
fried steak...

Thanks &

--
73, Paul, n0lrf@amsat.org
```

1066. Bandwidth Specs for 145.79

From: Mark Herson <mherson@intac.com>
Date: Mon, 30 Dec 1996 02:49:13 +0000
To: aprssig@tapr.org
Cc: mherson@intac.com
Message-ID: <199612300249.VAA28591@mailhost.intac.com>
Rendered body type: text/plain

```
Recently, there's been a thread about MIR switching to 145.800 which then
prompted a comment that APRS operations are kept to a small bandwidth to
minimize QRM to the Satellite band.

Has anyone spec'ed out what this bandwidth should be so that everyone on
freq can tweak his rig to that spec? Ie, should transmit deviation be 3.5
KHz @ 2200 Hz and 1.75 KHz @ 1200 Hz (implies 6 dB/octave pre-emphasis)?
According to Carson's rule, this would be
(2 x 3.5) + (2 x 2.2) = 11.2 Khz bw. (And this neglects the modulation
components of the 2200 Hz tone up around 2800 Hz.) Should it be less? Should
both tones be equal implying no pre-emphasis (true FM)?

I took my first ride this weekend with APRS in the mobile and found that my
tnc did not always decode packets from my fixed audio level radio (TM-733).
I also found that my transmitter set as above wasn't decoded reliably
either. And, at home, I've found that my base transmitter had to be set to
at least 4 KHz to be reliably heard by my nearest WIDE digi. (No, it's not
path problems as I'm on top of a hill and serve as a WIDE myself.) Methinks
some tweaking is in order and we'll probably find paths on existing digis
that don't work today. Only problem is what to tune for.

73, Mark, N2MH
```

1067. Need Recommendation

From: "Alan K. Adamson" <ne1h@tornado.ne1h.radio.org>
Date: Sun, 29 Dec 1996 22:04:04 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF5D4.355BC860@typhoon.ne1h.radio.org>
Rendered body type: text/plain

```
All,

Just thought I would pose a simple question to the group.  Any good suggestions for an APRS portable
radio for 2mtr.  HT's, etc.  Any success stories, or wiring diagrams.  I'm looking for something to
throw in the car with a TNC and GPS and forget (well as far as the law will allow :))).

Thanks,
Alan
```

1068. Re: [APRSSIG:7878] Re: 30 and 40 meter monitor

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Dec 1996 22:37:02 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961229223556.6819A-100000@arctic>
Rendered body type: text/plain

```
On Sat, 28 Dec 1996, Clifford Buttschardt wrote:

> There has been a suggestion made to enter the novice portion of 40 meters
> with APRS signals.  At first I supported this idea but no longer!  Here is

APRSdos REPLY/COMMENT:  I agree, shows how long its been since I was on
the novice bands (35 years or so).  We should certainly stay out of the
novice band.

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

1069. Re: [APRSSIG:7887] Re: 40m HF discussion

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Dec 1996 22:50:33 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961229224653.6819D-100000@arctic>
Rendered body type: text/plain

```
On Sat, 28 Dec 1996, Jim Duncan wrote:

> Hold on, folks!!!!
> It was pointed out to me today that Unattended Gateway operations were NOT
> legal on 40 meters except between 7100 and 7105 by W0XK.  We'd better take a
> look at Part 97 before we jump on the bandwagon for a 40 meter frequency

APRSdos REPLY/COMMENT:  Read the mail.  Any APRS GATEWAY that gates
between VHF and HF CAN NOT BE OPERATED UNATTENDED anyway unless the
gateway is in the special unattended subband.  I dont think 10.151 is...
Thats part of the reason why GATING between VHF and HF is just plain not
desired on APRS...

So the INTENT on 40 meters had nothing to do with GATEWAYS.  ALl I said
was that we need a good 40 m frequency for DAYTIME use of mobiles over
medium distances where 10 MHz skip is too far....

Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

1070. Re: [APRSSIG:7885] Re: Space Station Mir.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 29 Dec 1996 23:08:08 -0500 (EST)
To: Jim Duncan <ku0g@sprynet.com>
Cc: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961229225536.6819F-100000@arctic>
Rendered body type: text/plain

```
Jim, your statment that MIR never asked anyone before the move is totally
incorrect.  Well, maybe it is exactly correct, hi hi, but over a YEAR ago,
the intended move was announced and discussed ad-nauseum here and
everyhwere else. (amsat-bb).  The decision makers were informed and quite
well aware of the existince of packet operations on 145.79 nationwide.
They were encouraged to operate MIR on 145.805 to be within the satellite
band and to provide 15 KHz separation to 145.79.

Due to overwhelming pressure from Germany and other European countries to
use the 145.800/ 145.200 repeater pair which had been cleared throughout
the commonwealth..  They decided to put MIR on .800 and live with the
interference.

I suggested we move to 145.785 to provide a 15 KHz separation, but that
was vehemetly opposed by Buck ROgers, the packet columnest for CQ magazine
who saw that as an encroachment on his 145.77 turf.  He is not one to
cross lightly with his bully pulpit.

THe final compromise was that APRS has a built in MINIMIZE function that
can be used by specially authorized AMSAT stations to cause all
un-attenede beacons on APRS to shut down for 8 minutes.  This should not
be aproblem since any operator who has emergency or priority traffic can
```

override the minimize with a single key stroke.

Inform the station that due to doppler, he should be listening on 145.805 for the approach of MIR, and that his radio should not then hear activity on 145.79. If the pass is active, then he can tune down as the pass progresses. But at least by monitoring 145.805, he will hear all of MIR when it is active, and will have a quiet squelch the rest of the time...

THe long term objective is to put an APRS Mic-ENcoder with the sepecial MINIMIZE command on MIR! Then whenever they talk, they will automatically clear the frequency in their immediate footprint while at the same time their position will show up on APRS!

So Tell any querying station to put pressure on the MIR team to use APRS to clear the frequency automatically!

 Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

1071. APRS and the Weather

From: Rich Casey <casey@acm.org>
Date: Sun, 29 Dec 1996 22:20:28 -0500
To: aprssig@tapr.org
Message-ID: <32C734FC.5063@acm.org>
Rendered body type: text/plain

Greetings all:
Just got my old Ultimeter II working with APRS 7.7e, and have been playing with the weather display commands. It seems that the Weather-Display-JustWx command doesn't toggle on/off immediately, but takes a couple of screen refreshes to take effect. Anyone else notice this?

I'm sending the weather info thru the WB3FYV gateway near Fort Worth. Let me know if it's showing on any US maps thru Dave's gateway.

Wish list: that I could save a WX only map as one of the saved maps. Thought this worked but it doesn't for me.

Incidentally, I was dialing in at 1200 baud on an old laptop via long distance back to Dallas over the holidays to keep up with the SIG. Couldn't go without my daily fix!

Happy New Year!
 73, Rich

D/FW APRS info: http://www.startext.net/homes/rcasey/aprs.htm

```
--
Rich Casey, Dallas TX                | Member: ARRL, AMSAT, ACM, TAPR
casey@acm.org                        | Ham Radio N5CSU
http://www.startext.net/homes/rcasey | Think globally, connect locally
```

1072. Re: [APRSSIG:7935] Re: Season Greetings de W7LUS

From: "Peter A. Gross" <"w7lus@worldnet.att.net"@worldnet.att.net>
Date: Sun, 29 Dec 1996 23:53:06 -0500
To: aprssig@tapr.org
Message-ID: <19961230050644.AAA10086@worldnet.worldnet.att.net>
Rendered body type: text/plain

Paul Stump wrote:
>
> Peter A. Gross wrote:
>
> > Hope to see you all out there!
> >
> > 73 Peter W7LUS
>
> WELL, it was worth the wait! Thanks, Peter, for the report.
> If ur ever cruising I-35, SW of KC, I'll buy ur supper at
> McKenzie's at exit 193, they have a pretty good chicken
> fried steak...
>
> Thanks &
>
> --
> 73, Paul, n0lrf@amsat.org
That's a date!

73 - Peter

1073. Re: [APRSSIG:7930] TripMate & KPC-3 WORKING!!

From: ron oblinger <ronald@cyberstreet.com>
Date: Mon, 30 Dec 1996 00:48:40 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961230000317.007517e4@cyberstreet.com>
Rendered body type: text/plain

```
At 06:59 PM 12/29/96 -0600, you wrote:
>Dear Siggers,
>       After several frustrating weekends, my friend
Burton and I have
>finally managed to get the TripMate GPS unit to work perfectly with the
>Kantronics KPC-3. We spent a considerable amount of time and effort on
this so

Bill - I hav'nt even bought my tripmate yet but I'm
going to. My experience with Magellan Xl has left me
kind of cold. I love the KPC-3 and am pretty familiar
with it. It's too late for Xmas but if this works as
advertised I'll send you an Easter goose. It was most
kind of you and your friends to take the time to do
the hard work and then share it with everyone else.
Beware though: there is a school out there that will
criticise you for not letting everybody learn the
hard way like THEY did. Thanks again Bill.

ronald@cyberstreet.com
kd4ams
2700.49N  08208.47W






>we documented everything and have prepared a little manual. I believe with
>this information, almost any tnc can be prepared for use with the TripMate.
>Special thanks to some of those on the SIG who took the time to respond to
my
>e-mail and help out with their suggestions.
>
>
>KANTRONICS KPC-3 AND TRIPMATE GPS INTERFACE
>
>The following represents the efforts of WB6JAR and N6KZB, with
>input from WK5M, to interface the Tripmate to the Kantronics
>KPC-3. We found that it worked better than anticipated in
>satellite acquisition and direction of travel. Despite some of
>the help offered via the APRS SIG group, the following is the
>ONLY set up that worked with our units.
>
>                   PIN OUT CONFIGURATION
>  Tripmate                                         KPC-3
>
>pins 2&3 tied together--then both connect to--->      pin 2
>pin 5   connects to--->                               pin 7
>pin 4   connects to--->                               pin 6
>
>                 MODIFICATIONS TO KPC-3
>
>Install a 4.7 K resistor at position R-48 to make DSR active,
>(see parts layout for location of R48). It is at the rear, on
>the board, between the DB9 and DB25 connectors.
>
>                       KPC-3 COMMANDS
>
>Refer to KPC-3 manual and Command Summary sheets for GPS version
>6.0 firmware.
>
>Abaud 4800
>INTface TERMINAL, (not NEWUSER mode)
>MYcall to callsign-9, (or your desired ssid)
>BText is set as needed
>BLt 1 through 4 to desired beacon interval in seconds
>GPShead 1 through 4, must be changed to $GPRMC
>GPSInit needs not to be set, (since pins 2&3 on Tripmate are tied)
>LT 1 through 4 gets filled with GPS info so leave blank
```

```
>LTP 1 through 4 gets set to your local area agreed upon digi paths
>LTRack left to factory default
>PMode left to factory default
>RPrint left to factory default
>
>Final command is INT GPS, then turn TNC off and back on with
>Tripmate connected. It will take about 2 minutes for first
>satellite acquisition.
>
>                   12.29.96/billk@inland.net/burton@firecom.com
>Bill Kearns  billk@inland.net     /\/\ /\/\
>                           /^\        |
>                         /_____\      |__
>      /~~~~\         ____|_____|____  |**|
>    //(^  ^)\\         ///// \\\\\    |()| WB6JAR
>   ///(Q  Q)\\\        (  0   0  )    |__|
>---ooo--()--ooo------oOOO--(_)--OOOo---------------
>
>
>
```

1074. Re: [APRSSIG:7932] Season Greetings de W7LUS

From: ron oblinger <ronald@cyberstreet.com>
Date: Mon, 30 Dec 1996 00:48:43 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961230000934.00751cc4@cyberstreet.com>
Rendered body type: text/plain

```
At 07:22 PM 12/29/96 -0600, you wrote:
>Hello to all the Aprs users!
>
>Once again I must explain to many that when I receive your 1 liners


I am not going to say a word!!!!
"somebody get those enlisted men off the bridge"
kd4ams








>while passing through your area or even those that send to me on hf, I
>don't intentionally ignore your messages. Please understand that when I
>am "on duty" I am at the wheel. The computer is behind me where I can't
>see it. I know that wb4apr has made function keys to allow easier
>replies, however I rather keep my eye on the road and concentrate on
>DEFENSIVE driving, hi! I am sure you all can realize that it does, in
>fact, take much more concentration to wheel around 75 feet of what feels
>like pure lead! I do try to get back to many on hf but usually those on
>vhf are to far behind me. Many times I'll sit behind the wheel for some
>5 hours without any stops, if I can help it. I do appreciate all the
>messages and attention that I get crossing back and forth and to all
>corners of the country.
>
> Clay, aa3jy, I have tried what seems like a thousand times to get back
>an ack from you but never have. I know your way down a vhf path which is
>kinda inconvient to setup for short periods of usage.
>
>I have had some wondeful visits from many out there. Everytime I pull
>into Amarillo there is usually Maury, w5ugo (might have messed up his
>call, anyway the father of the Sproul brothers, our WinAprs authors,
>etc). Maury and his wife Betty have met me more than once. Sometime I
>haven't even shut down the truck after parking and there will be Maury
>or Jimmy, kd5wio at my door. Maury and Betty have taken me into there
>home for wonderful home cooked meals, a warm quiet bed and usage of the
>washing facilities! And even after staying with them they have left an
>open ivitation anytime I can take the time. I might add here that Betty
>is one proud mother of her "boys" Mark and Keith...did you all know that
>they are identical twins and are married to identical twins and live
>just a few miles apart? Keith and Mark, you guys have some wondeful
>parents that YOU all can be proud of, but I know you "boys" already know
>that.
>
>A special thanks to Lloyd, kb0mmq, and his wife in Denver, CO for there
>hospitality. They picked me up and brought me to one of there favorite
>resturants. I hope to get back there as much as possible and try more of
>that menu. Lloyd lives in a townhouse and has to have a hidden antenna
```

>that has to be in doors. I see you often Lloyd but I guess that noise
>level makes it tough for you sometimes to hear me especially when I try
>to send some one liners back to you.
>
>I am terribly sorry but I can't pull the callsigns outa my head of those
>in Austin, TX. But I had a most delious mexican meal there. The
>atmosphere was like being in the heart of Mexico but the price wasn't,
>hi! I think a call was w5rkn....I am really sri guys...I am not seeing
>you 2 enough to burn your calls in my head...I'll make it up to you all
>and your wives I promise!
>
>And what happened to Gerry n9vhw, I think now N9GD, the gateway in the
>Chicago area? He once picked me up at Rosemont Conv. Center and we went
>to eat then he took me to a grocery store...he seems to be a really
>great person, I enjoyed him very much. No doubt he is heavy into Aprs. I
>left him some messages while waiting to load within 10 miles of him a
>couple of weeks ago but he has never responded. Is he ok?
>
>There are several others that I have the pleasure to meet or just chew
>the rag on vhf. This part of ham radio
>has really made my job a pleasure. I never realized how many are
>watching me or just keeping up with me on Aprs. Esecially those that are
>on vhf. There are a few spots where the vhf networks don't have a
>gateway. If I realize it I will then enable my gateway. Sorry ke4eer!
>The networks are really growing fast. It looks like Oklahoma City has
>finally joined us. When on the west coast I notice a growth every visit.
>I also notice that the n.e. network and the s.e. network are very close
>to closing in on one another. I think, as noted on Aprs, we do need
>somemore freqs. Thirty meters just doesn't have what it takes to
>consistently link the east and west coasts of the country.
>
>Wait til you see my next truck. The plan is hopefully to order a new
>Peterbuilt or maybe a Kenworth in the next 6 months. The sleeper will be
>12 to 14 feet long. It'll be equiped to be totally self sufficient like
>a camper. Even with a 30amp power cord hookup. Yep, a shower, toilet, 2
>burner cook top, convection microwave, apartment size frid and freezer,
>in motion sateelite tv, build in central vacuum, 7.5 kw diesel gen,
>settee, and even a telphone between the sleeper and the driver! Plus
>some other goodies. If you haven't seen what I have now go into the FL
>Aprsers home page at n2czf and at the very bottom you'll find 3 gifs of
>my truck. That truck cost me $83,000 the new one I expect will be about
>twice, $160,000. But that is my home which includes rent and utilities.
>I have been long out of room...I am longing for that big sleeper. It'll
>all set on about a 320 to 330 inch wheel base tractor. I am on 228" now
>with ba 72" sleeper.
>
>I work for North American Van Lines in the High Value Products Division
>which haul electronics and tradeshows. I am in the "exhibits" group. I
>sonetimes may sit for a day or so at a convention center waiting my
>turn. I am also given extra time on the road to make my destinations on
>time and legally. I laso get payed very very well for waiting and
>assuming these responsibilities unlike most truckers you all come across
>everyday. I am proud to say that among the experienced truckers we are
>concidered the "elite"! If any of you would like to know more about the
>trucking field just invite me to a darn good hot meal and I'll spill my
>guts and bent your ears for sure, hi hi!
>
>I am using the Yaesu FT 900AT on HF and have a Kenwood TM733A that is in
>the shop for the second time for the same symtom. The last time it was a
>broken solder joint that only allowed about 1 and 1/2 watts output. I
>guess Kenwood can't stand the punishment of the truck. So I just
>received from Santa a Yaesu FT8500 with the big "potatoe head" mic!
>Yaesu claims to be military spected...will see about that. Neat rig
>though, I think I am going really enjoy this one. The Tnc is a Kam+ with
>the Aea hsp tied to a Megellan DLX5000. Just got a new laptop a few
>months ago and really love it too! It is an AST pent 130 Ascentia A
>Series, with 16meg ram, 1.2 gig hd, touch mouse and 4x cd. The vhf
>antenna I forget but it is 5/8 wave mounted on the right mirror. On hf
>is the High Serria which I just moved from the side of the sleeper
>behind the drivers door to the very center of the grill! My swr now goes
>flat without the tuner whereas before maybe I could get as low as 1.5:1
>but mostly abround 2:1. My big problem was when the hf xmitted the
>windshield wipers would creep a bit until sometimes they would get
>passed the park zone and cycle once or twice. So I thought moving the
>antenna way up front would help. Well it made it worse. Now they cycle
>everytime it xmits. So I did like the Japenese would do...I installed a
>switch to break the lead to the intermittent switch. Must be that the
>coil in the switch is tuned to 10.151! I plan to talk to the truck
>manufactorer about this. They say I can run up to 100 watts without

>problems. Guess they don't know about Aprs, eh? Any ideas? I do notice
>there is a cap between the leads. I disconnected it but it had no
>effect.
>
>The "Eastern USA North - South Digi", W7LUS, in n.e. GA, will be moved
>to another, hopefully, better site. Ken, kb4dta, a neighbor, will remove
>my equip and install it at his qth to get used to my rig. Particulary
>the tnc - and Hal ST700 modem setup as well as the Yaesu FT980. He then
>will move it to the Emergency Management Center (911). Sometime I will
>purchase a Kam for a gateway for the new site. From the site Greenville
>S.C and Atlanta should be visible on vhf. The antenna will probably be
>at a height of one full wavelength, 90'!
>We hope this will enhance the vhf network into Atlanta. We know it will
>enhance the vhf network into S.C. and beyond. Ken has promised that the
>project will get underway right after the first of the year wx
>permitting.
>At this new site the gateway should be nearly 100 percent dependable. It
>has its own emergency power and someone that can always reset the tnc
>should it need it.
>
>Well see...I can bend your ears, can't I? Hi!
>
>Well this "road worrier" will be back on the road Monday the 30th and
>will deliver near Chicago (Oswego) by the 3rd. Don't forget to watch the
>beacon page for my itenerary. I try to keep it current!
>
>Hope to see you all out there!
>
>73 Peter W7LUS
>
>
>

1075. Re: SMB Connector

From: Mark Fellhauer <sparkfel@primenet.com>
Date: Sun, 29 Dec 1996 23:13:08 -0700 (MST)
To: aprssig@tapr.org, aprssig@tapr.org
Message-ID: <3.0.16.19961229231306.294f6eb6@mailhost.primenet.com>
Rendered body type: text/plain

At 04:03 PM 12/29/96 -0600, Roger Sellers wrote:

> How about checking Hamfests for the connectors?
>
Well, mainly because I may have to drive 30 plus miles round trip to a
hamfest where I may or may not find the connectors, may or may not find one
for less than I can mail-order one, and wait for weeks, months, or even
years to find one. I would like to use this antenna in the near future. I
will probably just cur the cable and solder a BNC connector on.

73,

Mark
KC7BXS

1076. Re: 10m FM packet

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Mon, 30 Dec 1996 04:28:57 PST
To: aprssig@tapr.org
Message-ID: <19961230.042911.5599.8.kf4xh@juno.com>
Rendered body type: text/plain

1st- Hopes for a good New Year to all

2nd- I fired this question to start a campaign not a war- Ask it a
month or so ago & got little response. So I tried it again & got some
but let's keep it positive.

In the FM portion of 10m-from lower FM band edge to the repeater
pairs, how do we use it & how could we use it ? Yes, let's use all we
have before it may "look" vacant and go elsewhere. Anyone remember
Class A CB- uhf (some 8 mhz in 460's)now reduced to only 8 repeater
pairs (GMRS) wasn't being used so it went elsewhere

73's
andy/kf4xh@juno.com

1077. Re: 10m APRS

From: n1kxj@juno.com (Raymond E. Wall)
Date: Mon, 30 Dec 1996 04:41:04 PST
To: aprssig@tapr.org
Message-ID: <19961230.044146.5287.0.n1kxj@juno.com>
Rendered body type: text/plain

```
I will try it up here in the northeast near Boston as well...
                                                                 Ray /
N1KXJ
```

1078. Re: APRS NEWSGROUP

From: henryvb <henryvb@dpliv.com>
Date: Mon, 30 Dec 1996 04:34:54 -0600
To: aprssig@tapr.org, steves68@mindspring.com
Message-ID: <32C79ACE.18E@dpliv.com>
Rendered body type: text/plain

Steve Stark queried of us:

> Has there ever been a "rec.radio.amateur.aprs" newsgroup?

No, and I personally would never want one. Just too much of a nightmare with "get rich quick" and XXX-rated ads to ever have one of those. This works better and allows things like archiving every message since day one to search, download, etc.

Now if we could only get the mail handler at TAPR to make the "Reply to" for each message to be the original sender's e-mail address, not the SIG address ....

Henry
N9WMM
henryvb@dpliv.com

1079. Mailing List Reply-To header

From: rwf@mindspring.com
Date: Mon, 30 Dec 1996 09:14:37 -0500
To: aprssig@tapr.org
Message-ID: <3.0.32.19961230091036.00a08338@mindspring.com>
Rendered body type: text/plain

It can be done! No one will take responsibility for the operation of it. I have been suggesting it for a long time, even contacted the mailing list author and got the code required. Greg Jones says to contact Keith Sproul("He's the Host") and Keith points his finger back at Greg("I'm only just the Host").

Please, no messages telling me to reconfigure my mail program. It is not my mail program. It IS the list server that does this.

73 all and a Happy New Year
Ralph   rwf@mindspring.com

Henry wrote:
>Now if we could only get the mail handler at TAPR to make the "Reply to"
>for each message to be the original sender's e-mail address, not the SIG
>address ....
>

1080. Re: comm ports 4 and higher

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Dec 1996 09:32:22 -0500
To: aprssig@tapr.org
Message-ID: <v0300780eaeed82a1ffcd@[165.1.27.20]>
Rendered body type: text/plain

>At 02:30 PM 12/29/96 -0500, you wrote:
>>
>>I am using win95 with a cyclades (8Y0) 8 port (1 irq) card. I can't seem to
>>access any ports from it when I attempt to test winaprs. I attempt to open
>>com 6 and I get unable to access com6.
>>
>>Has anyone been using multifunction i/o cards with any success.
>>

>Hi Mike,
> I'm using a card that gives me com1 to com4. For some reason I can't get
>Windows 95 to "like" com3. So I have my modem on com1, mouse on com2, and

>KPC3 TNC on com4. Had to find IRQ's that didn't conflict. But once that was
>done, all is well here. I wish I could get com3 to work though.

I found a problem in my SERIAL DLLs that prevent them from working beyond
port 4, I will have the DLLs updated for the next release.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

1081. Re: [APRSSIG:7854] javAPRS Improvements

From: Mark Herson <mherson@intac.com>
Date: Mon, 30 Dec 1996 14:54:08 +0000
To: aprssig@tapr.org
Cc: mherson@intac.com
Message-ID: <199612301454.JAA23466@mailhost.intac.com>
Rendered body type: text/plain

At 07:43 96:12:28 -0600, you wrote:
>I have made a significant improvement in the way javAPRS handles screen
>updates, but there is a report it may not work correctly on all machines.
>I'd like to get an idea how widespread the problem is...
>
>If you have a java capable browser, I ask that you go to the following
>page and tell me if it works for you...let me know what OS and browser
>you use. Please email directly to me (sdimse@bridge.net) not to the sig.
>
>http://www.wa4dsy.radio.org/aprs/soeast.html
>
>Thanks de Steve K4HG

Hi Steve,

I'm running Netscape 3.0 Gold, 16 bit under Windows 3.1 and got the
following message:

   Sorry, your browser doesn't do Java!

I would have thought Netscape 3.0 had Java already but maybe not?

73, Mark, N2MH

1082. Rutgers APRS web server

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Dec 1996 09:52:36 -0500
To: aprssig@tapr.org
Message-ID: <v0300780faeed8584ada3@[165.1.27.20]>
Rendered body type: text/plain

We forgot to post this ahead of time,

Rutgers is officially closed from Christmas to New Years and they do a lot
of the special network maintence that cannot be done at other times so
there maybe periods of downtime for the aprs.rutgers.edu web server. If
this happens, please try again later. In some cases it might not be
accessable for an entire day.

Mark

```
__________________________________________________________________________
Mark Sproul                       |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press   |
sproul@ap.org                     |Work: 609-860-7120
North Brunswick, NJ               |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
```

1083. Re: [APRSSIG:7911] Re: MapFix29

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Dec 1996 10:28:57 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961230102805.2485C-100000@arctic>
Rendered body type: text/plain

```
On Sun, 29 Dec 1996, Daniel Velez wrote:

> If another revision to MAPFIX is coming, how about looking at the use of
> the mouse when drawing.  MAPFIX seems to put in two or three points with
> one mouse click (even my bestest, fastest click hehehe).  Can this be
> tweaked or is it something I am doing???

APRSdos REPLY/COMMENT:  I noticed this too, and so I dont use the mouse
click, but use EDIT-ADD.  Ill try to remember to debounce it...


Reply mail addr:   wb4apr@amsat.org
See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
```

1084. APRS7.7e and Weather Commands

From: Rich Casey <casey@acm.org>
Date: Mon, 30 Dec 1996 09:14:45 -0500
To: aprssig@tapr.org
Message-ID: <32C7CE55.60BD@acm.org>
Rendered body type: text/plain

```
Greetings SIG'ers:

Just got my old Ultimeter II working with APRS 7.7e. It went pretty
smoothly, once I changed to a bus mouse. I'm sending the weather info
thru the WB3FYV gateway near Fort Worth. Let me know if it's showing on
any US maps thru Dave's gateway.

I have been playing with the weather display commands. It seems that the
Weather-Display-JustWx command doesn't toggle on/off immediately, but
takes a couple of screen refreshes to take effect. Anyone else notice
this?


Wish list: that I could save a Wx-Display-JustWx map as one of the saved
maps while the others show all activity. Thought this worked but it
doesn't for me.

Incidentally, I was dialing in at 1200 baud on an old laptop via long
distance back to Dallas over the holidays to keep up with the SIG.
Couldn't go without my daily fix!

Happy New Year!
 73, Rich

D/FW APRS info: http://www.startext.net/homes/rcasey/aprs.htm

--
Rich Casey, Dallas TX                 | Member: ARRL, AMSAT, ACM, TAPR
casey@acm.org                         | Ham Radio N5CSU
http://www.startext.net/homes/rcasey | Think globally, connect locally
```

1085. Re: [APRSSIG:7931] Tripmate/APRS Question

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 30 Dec 1996 10:48:30 -0500 (EST)
To: aprssig@tapr.org
Message-ID: <Pine.GSO.3.95.961230104512.2485E-100000@arctic>
Rendered body type: text/plain

```
On Sun, 29 Dec 1996 jpcirone@warwick.net wrote:

> I rushed out last nite and bought the only remaining tripmate on the
> shelf in CompUSA near here.  I works great - MUCH better than my Magelleon
> The question I have is that since I'm new to APRS - will the new
> version use the Street Atlas 4.0 as the APRS maps (would be great if
> it is true) and APRS software will provide the interface to display
> APRS icons/data on the maps?

APRSdos REPLY/COMMENT:  All APRSdos can do is run as a front end COMM
processor.  Hook it to your TNC and the 2nd COMM port to a SECOND computer
running Delorme (or any other GPS/MAPing software).  APRS will do its
usual thing but any object or station you "hook" on APRS will show up one
```

at a time on the Delorem maps...

If there was interest, I could let the Delorem PC and the GPS share a comm
port, so that the front end PC could get by with only 2 comm ports..

Reply mail addr: wb4apr@amsat.org
See APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

1086. Re: [APRSSIG:7951] Re: javAPRS Improvements

From: Steve Dimse <sdimse@bridge.net>
Date: Mon, 30 Dec 96 10:46:59 -0500
To: <aprssig@tapr.org>
Message-ID: <199612301546.KAA28721@newworld.bridge.net>
Rendered body type: text/plain

>I'm running Netscape 3.0 Gold, 16 bit under Windows 3.1 and got the
>following message:
>
>   Sorry, your browser doesn't do Java!
>
>I would have thought Netscape 3.0 had Java already but maybe not?
>

No, Netscape for Win 3.1 doesn't do Java. It does have JavaScript, which is a whole 'nother beast. There is a beta for Win 3.1 that does have Java, but it is not stable enough to run javAPRS, which pushes the limits of Java. (The same thing happened to the Mac, Linux, and OS/2 beta versions.) No help for you now, but at least you know it is coming...based on past exerience, less than two months to a stable beta...hang in there.

Steve K4HG

1087. Re: [APRSSIG:7936] Bandwidth Specs for 145.79

From: "Peter Markham" <pmarkham@up.net>
Date: Mon, 30 Dec 1996 12:28:02 -5
To: aprssig@tapr.org
Message-ID: <9612301726.AA22771@btc1>
Rendered body type: text/plain

Mark says, (My interpretation):

How much of the MIR/APRS qrm issue is the result of apathy and the lack of applied technical expertise concerning a technical issue?

Pete says, (Not Mark's interpretation ;-))

The problem may be one of a transitory nature, while MIR is visible from a particular site, but care in setting tx audio gain and deviation levels, calibrating tx and rx frequencies, limiting transmit power to considerably less than "alligator" levels and good front end receiver filtering would make the perceived problem far less a pain to the MIR users and would enhance the overall "efficiency?" of the vhf APRS network.

Back during my good ol' vhf packet days not too long ago, I found that for my purposes a deviation level of 2.5 to 3.5 khz, set with a calibrated communications service monitor, worked well with transmitters and receivers calibrated to transmit and receive on frequency. Special care was given to bypass or compensate for pre emphasis and de emphasis circuitry and mic gain and deviation circuits to assure that the received data tones were not distorted due to clipping or audio frequency response characteristics of the transmitter and receiver. Choosing tranceivers with well designed and tuneable receiver rf sections made the prospect of qrm less probable. The 3 packet operators in my town, all with high profile setups, caused each other little to no grief on adjacent channels, separated by 20 khz.

I suspect that the technical resources available in this armpit of the country can be located and used in any civilized community, if operators were so inclined. If "out of the box plug and play equipment" is to be the norm, and diddle 'til it works, the procedure, the prospect for conditions to improve are dismal, at best.

Granted, no frequency shift due to doppler, 10 khz spacing, or "limitless" radio horizons were contended with, but it never ceased to amaze me how many operators from elsewhere cried about the problems with qrm from adjacent channels. We APRS folks may not be able to change the MIR operational frequency allocation and other issues beyond our control, but we can limit the grief to others by setting up and operating our equipment in a responsible manner that minimizes the impact on MIR operations and grants the consideration to the interests of others, that we want and expect.

One of the aspects of vhf APRS that requires emphasizing, again? is the impact of high power and gain antennas on the receive performance of MIR's packet setup and the APRS vhf networks, in general. The MIR receiver is not "bullet proof" and I would hazard speculation that 50 watts into a gain antenna, in the clear, could hit MIR with a signal strong enough, if off frequency enough, with high deviation and approaching doppler shift, that would, with other similar operations, bombard MIR with a significant amount of qrm from almost any US horizon. There may be a certain amount of ego satisfaction in knowing you are heard and seen in 5 surrounding states and MIR, but it cripples the APRS vhf network (touched on numerous times by Bob and others, and the concepts of which are is in the APRS documentation) and gains few friends in other quarters. APRS has enough vocal opposition, as Bob has made all aware of.

The vhf efficiency of packet operations in my area of the country was also compromised by accomodating the residential HT user at fringe radio ranges and I suspect that same view of the world will cause grief for APRS and MIR users alike. Unless I have missed something, APRS digis should be designed as ears, not mouths.

I cannot be all things to all people all the time, but consideration and care buys me a some of the same in return.

I hope that Mark's concern has not fallen on deaf ears.

Pete/wa4hei

The meek will not inherit the Earth.

1088. Email to sproul@ap.org

From: Mark Sproul <sproul@ap.org>
Date: Mon, 30 Dec 1996 12:43:42 -0500
To: aprssig@tapr.org
Message-ID: <v03007814aeedaf778c46@[165.1.27.20]>
Rendered body type: text/plain

If anyone is tring to send me email, my email server is having serious problems, You can send email to ksproul@noc.rutgers.edu (to keith) and he will make sure I get the message promptly.

Some of the mail is getting thru, most of it is bouncing.

Mark Sproul

```
__________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
__________________________________________________________________________
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1089. Re: [APRSSIG:7931] Tripmate/APRS Question

From: Roger Sellers <rsellers@rockford.com>
Date: Mon, 30 Dec 1996 13:39:29 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961230133927.00695870@rockford.com>
Rendered body type: text/plain

At 07:18 PM 12/29/96 -0500, you wrote:
>Does it mean that in order to run APRS and tripmate, I need 2 com
>ports on my notebook - one for the tripmate GPS and the other for the
>TNC?
>

You will most likely need a second port or use some form of HSP (hardware single port) switch. I purchased mailorder a PCMCIA serial port card for

mine (wasn't real cheap). Other than the flimsy connector to the card, it
doesn't work too bad.
  But one or the other options will do.

73,

Roger Sellers   KB9LBU
email: Home: rsellers@rockford.com
             KB9LBU@juno.com
       Work: rsellers@snds.com

1090. Tripmate and HP200LX + Adaptive Tracker Update

From: bob <w2g3zfj@unix.asb.com>
Date: Mon, 30 Dec 1996 17:24:28 -0500
To: aprssig@tapr.org
Message-ID: <32C8411C.4920@unix.asb.com>
Rendered body type: text/plain

Hi Folks

I took my recently acquired Tripmate out for a run connected to my
HP200LX palm top to see how it would go. General result, excellent!

I wasn't interested in having the TNC connected at present, was more
interested in how the 200LX would handle the data stream from the
Tripmate and how the map would be updated.

I set the screen update rate to every 2 secs and initialised the
Tripmate with the O-C-G screen by sending ASTRAL. I setup aprs (ver 77e)
with no tnc and the GPS conneceted to com1. The GPS Plot status display
was excellent and worked like a charm.

Next time I'll try it with the HSP and the KPC-3.

73 de bob w2/g3zfj

PS. If anyone is following the Adaptive Tracker saga I have had a few
more bugs. the last one I found out today, was due to the feature that
the Paccom TNC-2 code waits for the duration of the previous loc e
command to runout BEFORE it actions the new interval. For example if I
set loc e 90 (every 900 seconds) and the sent loc e 3, it would wait for
the remainder of the 900 secs to time out before setting the new rate.
My work-around is to issue a RESTART command after the new interval and
that seems to work OK. But, its been fun! I could have done with a GPS
simulator rather than driving the car around the block each time I
wanted a moving fix!

1091. OEM for Tripmate board?

From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Mon, 30 Dec 1996 17:59:41 -0600
To: aprssig@tapr.org
Message-ID: <32C8576B.18FE@rs6000.cmp.ilstu.edu>
Rendered body type: text/plain

Who is the Original Equipment Manufacturer for the the Tripmate GPS
units that Delorme has?

1092. SIx Meter APRS Node

From: wd4cqe@juno.com (Kenneth I Mathews)
Date: Mon, 30 Dec 1996 21:02:16 EST
To: aprssig@tapr.org
Message-ID: <19961230.200150.2751.0.WD4CQE@juno.com>
Rendered body type: text/plain

We are still testing an APRS node on 50.62 mHz. It is at a temp. location
with antenna only at 30 feet. If anyone can listen on this freq. and if
you do receive it please let me know. Thanks. It will be at a better
location shortly.
73's
Happy New Year all on the SIG

Ken, WD4CQE
email to wd4cqe@juno.com

1093. Fw: AMSAT and APRS

From: "Truman Boerkoel" <truxenia@erinet.com>
Date: Mon, 30 Dec 1996 21:14:48 -0500
To: "Sig APRS" <aprssig@tapr.org>

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Message-ID: <199612310217.VAA29214@erinet.com>
Rendered body type: text/plain

----------
> From: Keith Baker <75070.331@CompuServe.COM>
> To: K8JUG <truxenia@erinet.com>
> Subject: AMSAT and APRS
> Date: Monday, December 30, 1996 6:40 PM
>
> Hi Tru!
>
>       Here's what we (AMSAT) "officially" said about APRS and the MIR at
our
> Annual Meeting in Tucson.  The issues were summarized after a
meeting with
> concerned parties in Houston in early November.
>
> 73,
>
> Keith/KB1SF
>
> -----------------------
> SB SAT @ AMSAT  $ANS-321.02
> AMATEUR RADIO FREQUENCIES FOR THE MIR SPACE STATION
>
> HR AMSAT NEWS SERVICE BULLETIN 321.02 FROM AMSAT HQ
> SILVER SPRING, MD, NOVEMBER 16, 1996
> TO ALL RADIO AMATEURS BT
> BID: $ANS-321.02
>
> AMSAT has received numerous comments regarding the recent switch of
2-meter
> frequencies on the MIR space station.  AMSAT-NA recognizes that the

> frequency shift by the MIR crew is a major concern for Amateur
Radio
> operators in IARU Region 2 (North & South America) and in Region 3
(Asia
> and Australia) as well as to Amateur Satellite enthusiasts who are
> concerned  about voice uplinks in the Weak Signal OSCAR sub-band
(145.80-146).
>
> Frank Bauer, KA3HDO, AMSAT-NA's Vice President for Manned Space,
> reports that he and his colleagues are now working with their
international
> partners to help resolve this issue as soon as possible.  Frank
reports
> he's had several discussions on this topic at the AMSAT/ARRL/NASA
sponsored
> International Space Station Meeting in Houston, as well as the
AMSAT-NA
> Symposium in Tucson, Arizona.  He says that the dialogue with his
> international partners  will continue and he will be keeping
AMSAT-NA
> members informed of any late breaking news regarding this problem
through
> further ANS bulletins.
>
> [ANS thanks  Frank H. Bauer, KA3HDO, AMSAT V.P. for Manned Space
Programs,
> for this information.]
>
> -----------------------
>
> SB SAT @ AMSAT  $ANS-321.03
> FREQUENCIES IN SPACE--WHAT'S THE PROBLEM??
>
> HR AMSAT NEWS SERVICE BULLETIN 321.03 FROM AMSAT HQ
> SILVER SPRING, MD, NOVEMBER 16, 1996
> TO ALL RADIO AMATEURS BT
> BID: $ANS-321.03
>
> Frank Bauer, KA3HDO, AMSAT-NA's Vice President for Manned Space,
speaking
> at the AMSAT-NA Space Symposium in Tucson, recently commented on
some the
> difficulties surrounding global coordination of frequencies for
manned
> space vehicles.
>
```

> Frank reports that unless one is actively working on frequency
> coordination, it is very difficult to understand all the problems
of selecting
> frequencies for space vehicles. He hopes that the following
discussion will
> help
> explain some of the issues both he and the human-tended space
community are
> now facing.
>
> Frank indicates that, right now, frequency interference for
human-tended
> spacevehicles is a tremendous problem on 2 meters. The three IARU
regions
> (Region 1: Europe & Africa, Region 2: North and South America, and
Region 3:
> Asia and Australia) each have differing bandplans. In many parts
of the world,
> (such as in Europe) the two meter band is only 2 MHz wide
(144-146).
>
> Since frequencies at VHF and above are primarily used for line of
sight
> communications, Frank noted that these frequencies have been
traditionally
> coordinated at the local level with little or no concern for global
issues.
> This means that in many countries, even those within the same IARU
region,
> often have differing bandplans or "gentleman's agreements" in
force.
>
> Frank went on to note that, in space, this "local coordination"
becomes a
> problem because line of sight communications via the Space Shuttle
and MIR
> (and eventually the International Space Station) overlap several
countries
> or continents simultaneously. This causes interference both in
space and on
> the Earth and often violates one or more of these "gentlemen's
agreements"
> currently in place. Frank says that, to date, the 2 meter band
represents the
> most
> challenging coordination effort because it is the most used Amateur
Radio
> band and is currently the primary band for SAREX and MIR.
>
> Until recently, the MIR crew used 145.55 MHz simplex as the
Amateur Radio
> 2 meter frequency for voice and packet. This frequency was also
used as a
> downlink frequency for SAREX. Many international organizations,
especially
> those in the European community, have asked that MIR and SAREX move
from
> the 145.55 MHz frequency since it is a popular simplex frequency
there.
>
> Frank went on to note that the MIR crew have now moved to new 2
meter
> frequencies. They are currently using 145.80 simplex for packet and

> 145.80(uplink)/145.20(downlink) for voice. Frank indicated that
these
> changes were made by the Russian MIR Amateur Radio team and the
> German SAFEX team to conform with some of the manned space
> frequency recommendations that came out of the recent Region 1
> (European) IARU conference in Tel Aviv, Israel. Frank noted that
while
> this specific frequency recommendation works well in Europe, it
> violates the Region 2 & Region 3 bandplans. Many U.S. repeaters
> operate around 145.20. The 145.80 simplex channel results in
> uplinks within the weak signal OSCAR sub-band 145.80 to 146.00 --
> something that AMSAT-International does not favor. The downlink is
> also very near the APRS frequency of 145.79--so local interference
> becomes a problem.
>

> To correct this problem, Frank suggests that the manned space
community
> must look at other frequency alternatives for regions 2 & 3 *or* a
> consolidated plan for all three regions. He notes that the
ultimate goal of the
> international team of which he is a part is seeking a set of
frequencies that
> will not require the space crews to switch frequencies from one
part of the
> globe to another.
> This is important because there are many times when the crew do not
know where
> they are located. Either they are not near a window or they do not
readily have
> access to a orbital prediction program.
>
> Frank commented that several other frequency "opportunities" for
MIR, SAREX
> and International Space Station resulted from the Region 1
conference.
> However, not all of these are permanent. Frank and the other
members of his
> international team expect to work closely with the IARU, other
AMSAT
> organizations, as well as the manned space teams in the coming
weeks to
> judiciously select a set of 2 meter frequencies that meet the
world-wide
> bandplan. While this is quite a
> challenge, Frank insists that it is a necessary step to resolve
this world-wide
> issue.
>
> Frank hopes this brief analysis answers some of the many questions
> regarding an issue that is, at best, a difficult one. He also asks
the members
> of
> the AMSAT community for their patience and understanding as these
very
> sensitive deliberations continue in the coming weeks.
>
> Further questions can be directed to Frank Bauer, KA3HDO, the SAREX
> frequency coordinator, Hans van de Groenendal, ZS5AKV, the IARU
Satellite
> Advisor, or Graham Ratcliff, VK5AGR, the AMSAT Satellite Frequency
Coordinator.
>
> They can all be reached by e-mail using "their callsign"@amsat.org.
>
> [ANS thanks Frank H. Bauer, KA3HDO, AMSAT V.P. for Manned Space
Programs,
> for this information.]
>
>
>

1094. Re: [APRSSIG:7961] OEM for Tripmate board?

From: Keith Sproul <ksproul@hardees.rutgers.edu>
Date: Mon, 30 Dec 96 21:23:09 EST
To: aprssig@tapr.org
Message-ID: <CMM-RU.1.5.851998989.ksproul@hardees.rutgers.edu>
Rendered body type: text/plain

>Who is the Original Equipment Manufacturer for the the Tripmate GPS
units that Delorme has?

Rockwell... From a 'reliable' source (VERY RELIABLE)

Keith

Keith Sproul   Ham Radio: WU2Z
Student Housing Network Coordinator   ksproul@noc.rutgers.edu
Rutgers University Computing Services   908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/   908 821-4828 Home

1095. HF Digital Auto-Control (was 40m HF discussion)

From: AH7E@aol.com
Date: Mon, 30 Dec 1996 21:29:29 -0500
To: aprssig@tapr.org
Message-ID: <961230212925_1009422115@emout10.mail.aol.com>
Rendered body type: text/plain

```
>From QST, July 1995, Page 83:

Auto-Control Bands as of 1 July 1995

3.620 to 3.635 MHz
7.000 to 7.105 MHz
10.140 to 10.150 MHz
14.095 to 14.0995 MHz
14.1005 to 14.112 MHz
18.105 to 18.110 MHz
21.090 to 21.100 MHz
24.925 to 24.930 MHz
28.120 to 28.189 MHz

<< APRSdos REPLY/COMMENT:  Read the mail.  Any APRS GATEWAY that <<gates
 between VHF and HF CAN NOT BE OPERATED UNATTENDED anyway <<unless the
gateway is in the special unattended subband.  I dont think 10.151 is...

This information posted for everyone's information.

Happy New Year to all,

Sid
AH7E

AH7E@aol.com
```

1096. Re: [APRSSIG:7833] Re: TRIPMATE MAX SPEED? Solved

From: pete ouellette <pho@crocker.com>
Date: Mon, 30 Dec 1996 06:51:57 -0500
To: aprssig@tapr.org
Message-ID: <199612302143.VAA15837@rmc1.crocker.com>
Rendered body type: text/plain

```
At 07:12 PM 12/27/96 -0600, you wrote:
>Hello,
>
>I talked to Delorme Tech Support and they did not put
>in any speed restriction.  They even tested the unit in
>a Jet.  The only restriction is what Rockwell put in the
>firmware.
>
>73 Eric eac@shore.net
>
>
  How about an altitude restriction? (Balloons?)

Pete  N1AGV
```

1097. Re: [APRSSIG:7950] Re: comm ports 4 and higher

From: Paul Moller <paulmoll@enteract.com>
Date: Mon, 30 Dec 1996 21:49:40 -0600
To: aprssig@tapr.org
Message-ID: <3.0.32.19961230214835.006e6ad4@enteract.com>
Rendered body type: text/plain

```
I too had a problem with one machine and com3. The answer was tricky, but
is now obvious. I had an ATI Graphics Expression video card, which used the
S2 chip set.
The S2 chip set (boy I hope I have that correct, its been a while) uses one
address that is in the com3 range. One normally thinks of com3 as being
3E8, when of course it is really 3E8 through 3F8. The S2 chip set uses one
address in that range, and CANT be changed.

I reasoned that using an old fashion 450 UART with no buffering would not
use addresses beyond 3E8, but have not been able to solve this problem that
way. I just survive without com3 on that computer. Good luck.



At 08:35 AM 12/30/96 -0600, you wrote:
>>Hi Mike,
>>  I'm using a card that gives me com1 to com4. For some reason I can't get
```

```
>>Windows 95 to "like" com3. So I have my modem on com1, mouse on com2, and
>>KPC3 TNC on com4. Had to find IRQ's that didn't conflict. But once that was
>>done, all is well here. I wish I could get com3 to work though.
>
>
>

WD9ABE
Paul Moller
```

1098. Re: [APRSSIG:7961] OEM for Tripmate board?

From: "Dr. William I. Clement" <wclement@the-hermes.net>
Date: Mon, 30 Dec 1996 22:48:33 -0500
To: aprssig@tapr.org
Message-ID: <32C88D11.5A63@the-hermes.net>
Rendered body type: text/plain

```
Larry Keeran wrote:
>
> Who is the Original Equipment Manufacturer for the the Tripmate GPS
> units that Delorme has?

Keith Sproul wrote:
>
>Rockwell...  From a 'reliable' source  (VERY RELIABLE)

I checked into this about two weeks ago (talked with a fellow
from Rockwell who knew specifically about DeLorme's product) and
I was told that DeLorme is using Rockwell's Zodiac Chipset but is
not using the Jupiter board -- which is Rockwell's board-level
OEM product using the Zodiac Chipset.  So, you cannot get
an OEM GPS board for as little $$$ as DeLorme is getting theirs
because they spend their own time and money developing the
board from the Zodiac chipset.

Regards,
  Will, N3XLM

|================================================|
|  Dr. William I. Clement, President             |
|  Clement Engineering, Inc.                     |
|  1261 Dogwood Road, Arnold, MD  21012-2220     |
|  (office) 410.518.6591 / (sales) 410.268.6736  |
|  (FAX) 410.518.6597 (call "office" if busy)    |
|  mailto:wclement@the-hermes.net                |
|  http://home.navisoft.com/agrelo/clement.htm   |
|================================================|
```

1099. Making Maps

From: Dave VanHorn <dvanhorn@cedar.net>
Date: Tue, 31 Dec 1996 00:04:21 -0600
To: aprssig@tapr.org
Message-ID: <32C8ACE5.4516@cedar.net>
Rendered body type: text/plain

```
I know I'm gonna hate asking this, but:

How do you draw a LINE in mapedit?

I have found my origin and range and pixels/degree, but I have
only been able to work out how to add points to the map.

My next problem will be using my Wacom SD digitizer (12x18") in
mapedit. It's resolution is 2540 LPI fixed. I can make it operate in
several different modes relative to the screen. The most intuitive is
to make the tablet area match the screen, but that means an unequal
scaling in the two axes.

Anybody got any suggestions?
```

1100. APRS and WX stations? (Bob Brun... please read)

From: "Alan K. Adamson" <ne1h@tornado.ne1h.radio.org>
Date: Tue, 31 Dec 1996 00:16:35 -0500
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Message-ID: <01BBF6AF.E2AE3D00@typhoon.ne1h.radio.org>
Rendered body type: text/plain

All,

I have looked back through the documentation for APRS, but no where are all of the text identified defined for WX stations. I want to do a couple of things with the data, but I can't seem to find the complete listing of the protocol. Bob, are you listening and can you send it or update the protocol.txt or wx.txt file to reference it. I have found bits and pieces of about three different identifiers looking back over the various version of documentation that I could find, but I don't know which ones are the right one and which may no be valid.

Can someone please help?

Thanks,
Alan

1101. Re:HF automatically controlled digital station

From: kf4xh@juno.com (Andrew C. Middlebrooks)
Date: Tue, 31 Dec 1996 01:23:39 PST
To: aprssig@tapr.org
Message-ID: <19961231.012403.5599.0.kf4xh@juno.com>
Rendered body type: text/plain

97.221(b) RTTY or data
                  6m or shorter
                  28.120-28.189, 24.925-24.930, 21.090-21.100,
18.105-18.110
                  14.0950-14.0995, 14.1005-14.112, 10.140-10.150, 7.100-7.105
                   3.620-3.635
Part 97 as of June10.1996

andy/kf4xh@juno.com